



# Report to the BOARD OF AIRPORT COMMISSIONERS

Approved by: Cynthia Guidry, Division Manager

Reviewed by: Steve Martin, Chief Operating Officer

City Attorney

Gina Marie Lindsey - Executive Director

Meeting Date:

February 5, 2013

CAO Review:

<input type="checkbox"/>	Completed
<input type="checkbox"/>	Pending
<input checked="" type="checkbox"/>	N/A

Reviewed for	Date	Approval Status	By
Capital Budget	01/30/13	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	DS
Operating Budget	01/31/13	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	RW
CEQA	01/31/13	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	AE
Procurement	01/30/13	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Cond	MT

## **SUBJECT: LAX Specific Plan Amendment Study and Related Actions**

Review and consideration of the Environmental Impact Report (EIR) prepared for the Specific Plan Amendment Study (SPAS), review and consideration of the SPAS document, including the Final LAX SPAS Report, review and consideration of the LAWA Staff-Recommended Alternative, and review and consideration of amendments to the LAX Plan and LAX Specific Plan.

## **RECOMMENDATIONS:**

Management RECOMMENDS that the Board of Airport Commissioners:

1. ADOPT the Staff Report;
2. CERTIFY that:
  - a) The Specific Plan Amendment Study (SPAS) Environmental Impact Report (EIR), including the Draft EIR and the Final EIR, has been completed in compliance with the California Environmental Quality Act (CEQA) and the State and City of Los Angeles CEQA Guidelines;
  - b) The SPAS EIR was presented to the Board of Airport Commissioners (BOAC), as the decision making body of the lead agency, and the BOAC reviewed and considered the information contained in the EIR prior to approving the project;
  - c) The SPAS EIR reflects the independent judgment and analysis of the lead agency;
3. ADOPT the SPAS Mitigation, Monitoring and Reporting Program (MMRP).
4. FURTHER ADOPT the SPAS CEQA Findings and Statement of Overriding Considerations.

5. DETERMINE that the LAX Specific Plan Amendment Study required by Section 7.H.1 of the LAX Specific Plan, including the SPAS EIR and the SPAS Report, is complete.
6. SELECT the Staff-Recommended Alternative, including the proposed amendments to Section 7.H of the LAX Specific Plan and all amendments to the City of Los Angeles General Plan, including the LAX Plan, and the LAX Specific Plan, as the best alternative to the problems that the Yellow Lights Projects were designed to address, subject to future detailed planning, engineering, and project-level environmental review, such as project-level review of individual improvements under CEQA and the evaluation and approval processes of the Federal Aviation Administration (FAA). Approval of the SPAS Staff-Recommended Alternative would provide the platform from which the specific details of the proposed improvements would be further defined and evaluated in connection with current and future FAA standards.
7. ADOPT Voluntary Commitments associated with the Staff-Recommended Alternative contained in this report.
8. RECOMMEND that the Los Angeles City Planning Commission (CPC) review and consider the EIR and LAWA's proposed plan amendments and recommend that the Los Angeles City Council affirm the BOAC's certification of the EIR and approve LAWA's proposed amendments to the City of Los Angeles General Plan, including the LAX Plan, and the LAX Specific Plan.
9. FURTHER RECOMMEND that the Los Angeles City Council take the following actions:
  - a) Find that the City Council has considered the environmental effects of the project as described in the SPAS Final EIR;
  - b) Concur with the actions of the BOAC;
  - c) Affirm the certification of the SPAS EIR;
  - d) Adopt the SPAS MMRP;
  - e) Further adopt the SPAS CEQA Findings and Statement of Overriding Considerations;
  - f) Select the Staff-Recommended Alternative as the best alternative to the problems that the Yellow Lights Projects were designed to address, subject to future detailed planning, engineering, and project-level environmental review, such as project-level review of individual improvements under the CEQA and the evaluation and approval processes of the Federal Aviation Administration (FAA). Approval of the SPAS Staff-Recommended Alternative would provide the platform from which the specific details of the proposed improvements would be further defined and evaluated in connection with current and future FAA standards.
  - g) Approve LAWA's proposed amendments to the City of Los Angeles General Plan, including the LAX Plan, and the LAX Specific Plan; and
  - h) Direct staff to file a Notice of Determination (NOD).

## **DISCUSSION:**

### **1. Executive Summary**

The Los Angeles World Airports (LAWA) Capital Programming and Planning Group, requests Board of Airport Commissioners (BOAC) to review and consider the Environmental Impact Report (EIR) prepared for the Specific Plan Amendment Study (SPAS), review and consider the SPAS, including the Final LAX SPAS Report, review and consider the LAWA Staff-Recommended Alternative, and lastly review and consider the amendments to the LAX Plan and LAX Specific Plan.

### **2. Prior Related Actions**

#### LAX Master Plan Program

In December 2004, the Los Angeles City Council certified the Final Environmental Impact Report (EIR) and approved the LAX Master Plan Program and related entitlements for future development of the Los Angeles International Airport (LAX). This was followed by the Federal Aviation Administration's (FAA's) Record of Decision (ROD) and approval of the Final Environmental Impact Statement (EIS) in May 2005. Formulation of the LAX Master Plan Program included an exhaustive iterative process during which LAWA reviewed a wide range of alternatives before selecting a preferred development program known as "Alternative D." The LAX Master Plan Program entitled the first major new facilities for, and improvements to, the airport since 1984, and planned to accommodate projected growth to a practical capacity of 78.9 million annual passengers (MAP) at LAX through the year 2015. While the demand forecasted in the LAX Master Plan Program did not materialize, the Program provides the conceptual planning framework for future improvements at LAX and working guidelines for LAWA as it formulates and processes site-specific projects envisioned in the Plan. The LAX Master Plan Program provides for modernization of the runway and taxiway system, redevelopment of the terminal area, and revised access to the airport. Los Angeles World Airports (LAWA) has been implementing and continues to implement many of the projects envisioned in the LAX Master Plan Program including the South Airfield Improvement Project, the Bradley West Project, the Crossfield Taxiway Project, and the Midfield Satellite/Concourse Project.

#### LAX Plan

Approved in December 2004 as part of the LAX Master Plan Program, the LAX Plan is the City of Los Angeles' General Plan component for LAX. The LAX Plan is a land use document that sets out goals, policies, objectives, and programs for long-term development and use of the airport consistent with the vision established by the LAX Master Plan. The purpose of the LAX Plan is to promote an arrangement of airport uses that encourages and contributes to the modernization of the airport in an orderly and flexible manner within the context of the City and the region. It is also intended to allow the airport to respond to emerging new technologies, economic trends, and functional needs.

#### LAX Specific Plan

Also approved as part of the LAX Master Plan Program, the LAX Specific Plan (Ordinance No. 176,345, as amended by Ordinance No. 179,148) establishes zoning and land use regulations and procedures for processing future specific projects and activities anticipated under the LAX Master Plan Program. These procedures ensure consistency with the LAX Plan and adequacy of environmental review for the projects included in the Specific Plan.

#### LAX Master Plan Stipulated Settlement

In January 2005, the Cities of El Segundo, Inglewood, and Culver City, the County of Los Angeles, and the Alliance for a Regional Solution to Airport Congestion (ARSAC) (collectively, "Petitioners") filed petitions challenging the LAX Master Plan Program approval. In February 2006, the City of Los Angeles and Petitioners agreed to, and the court approved, settlement of the subject lawsuits, referred to as the LAX Master Plan Stipulated Settlement (Stipulated Settlement). Section V of the Stipulated Settlement requires LAWA to undertake a Specific Plan Amendment Study to fulfill the intent of Section 7.H of the LAX Specific Plan.

Section 7.H of the LAX Specific Plan requires LAWA to complete a Specific Plan Amendment Study comprehensively addressing security, traffic, aviation activity, and corresponding environmental analysis consistent with CEQA, in the following three circumstances:

- (1) Prior to seeking an LAX Plan Compliance determination for any of the projects commonly referred to as the "Yellow Light Projects";
- (2) If the annual traffic generation report and/or the annual traffic generation report considered together with any project-specific traffic study, shows that any LAX Master Plan projects will be generating net new airport peak hour trips in excess of 8,236; and
- (3) If the annual aviation activity analysis forecasts that the annual passengers for that year are anticipated to exceed 78.9 million.

The "Yellow Light" Projects are as follows:

- Ground Transportation Center (GTC), including the baggage tunnel, associated structures, and equipment;
- Automated People Mover (APM) 2 from the GTC to the Central Terminal Area (CTA), including its stations and related facilities and equipment;
- Central Terminal Area (CTA) Terminals 1, 2, and 3 demolition;
- North Runway re-configuration as contemplated in the LAX Master Plan, including center taxiways; and
- On-site road improvements associated with development of the GTC and construction of APM 2.

The Stipulated Settlement defines the nature, scope, timing, and procedural elements of the SPAS. Pursuant to the Stipulated Settlement, LAWA has the discretion to determine the appropriate methodology to conduct the SPAS. Concurrent with the SPAS process, LAWA may continue to develop projects that are not Yellow Light Projects (e.g., the South Airfield Improvement Project, the Bradley West Project, the Crossfield Taxiway Project, and the Midfield Satellite/Concourse Project).

### **3. Specific Plan Amendment Study Process**

#### Overview of the SPAS

Pursuant to the Stipulated Settlement, and in accordance with the LAX Specific Plan, LAWA has proceeded with, and completed, the LAX Specific Plan Amendment Study. The SPAS process included identifying Specific Plan amendments that plan for modernizing and improving LAX in a manner designed for a practical capacity of 78.9 million annual passengers while enhancing safety and security, minimizing environmental impacts on the surrounding communities, and creating conditions that encourage airlines to go to other airports in the region, particularly those owned and operated by LAWA. In compliance with the Stipulated Settlement, the SPAS process also focuses on the following:

- Potential alternative designs, technologies, and configurations for the LAX Master Plan Program that would provide solutions to the problems that the Yellow Light Projects were designed to address, consistent with a practical capacity of 78.9 MAP (the Alternative Projects, of which there are nine described in detail in the FEIR).
- Security, traffic, and aviation activity implications of such alternative designs, technologies, and configurations for the Alternative Projects.
- Potential environmental impacts that could result from replacing the Yellow Light Projects with the Alternative Projects, and potential mitigation measures that could provide a comparable level of mitigation to that described for the Yellow Light Projects in the LAX Master Plan Program EIR.

### SPAS Objectives

The SPAS process objectives, included in the SPAS EIR, are described below.

- 1) Provide North Airfield improvements that support the safe and efficient movement of aircraft at LAX.
- 2) Improve the ground access system at LAX to better accommodate airport-related traffic, especially as related to the Central Terminal Area.
- 3) Maintain LAX's position as the premier international gateway in supporting and advancing the economic growth and vitality of the Los Angeles region.
- 4) Plan improvements that do not result in more than 153 passenger gates at 78.9 MAP.
- 5) Enhance safety and security at LAX.
- 6) Minimize environmental impacts on surrounding communities.
- 7) Produce an improvement program that is efficient, sustainable, feasible, and fiscally responsible.

### Community/Advisory Committee Input

In 2006, LAWA initiated a public outreach process to gain input from community members, airport neighbors, and other stakeholders on the development of alternatives to the Yellow Light Projects.

In March 2006, in compliance with Section V.J of the Stipulated Settlement, LAWA established the LAX SPAS Advisory Committee consisting of representatives of the County of Los Angeles, City of El Segundo, City of Inglewood, City of Culver City, and ARSAC. Representatives from federal and state elected offices, Los Angeles City Council and Mayor's offices, and LAWA staff also participated. LAWA held (25) meetings with the Advisory Committee between March 2006 and December 2012. LAWA provided the Advisory Committee members the opportunity to evaluate concepts being studied by LAWA and propose concepts for consideration, and in addition, provided independent technical assistance for Advisory Committee members to develop their own alternatives. LAWA also consulted with Advisory Committee members during each significant step of the SPAS process, including prior to release of the 2008 SPAS Notice of Preparation (NOP), prior to release of the 2010 Revised SPAS NOP, and lastly prior to release of the Draft EIR.

Between March 2006 and December 2006, LAWA also held a series of six public meetings to gather feedback, input, comments, and ideas from community members, with each month's meetings focused on a different topic related to the SPAS and the Yellow Light Projects. These meetings included presentations to the public and the opportunity for small, "break-out" group discussions. All LAX Master Plan-related reports and information were made available on the LAX website (ourlax.org), including but not limited to, all public and scoping meeting presentations and public comments, all environmental analysis documents, public information brochures of the alternatives development process, and technical studies completed as part of the SPAS process.

## Alternative Concept Development

The initial concept development process began in 2006 and continued through 2007. The initial SPAS concepts were developed based on LAWA's expertise and input from the SPAS Advisory Committee and surrounding community through the community involvement process noted above. In short, the SPAS Advisory Committee met to discuss development of new ground access, terminal, and airfield concepts. These concepts were subsequently presented for review and comment by the general public, then modifications and updates to the concepts were made. At the conclusion of the initial development phase, six alternatives were included in the NOP for the SPAS Draft EIR in 2008.

Based on subsequent information, including completion of the North Airfield Safety Study (NASS) in 2010, FAA and City response to the NASS, updates to the Los Angeles County Metropolitan Transportation Authority Long Range Transportation Plan, the LAWA acquisition of Park One, further analysis of the ground transportation system, and additional community input received during the scoping meetings for the Draft EIR in 2008, LAWA expanded and refined options for the potential alternative SPAS designs, technologies, and configurations. In 2010, LAWA issued a Revised NOP which identified these airfield, terminal, and ground access concepts. Based on review of public and agency comments on the Revised NOP, the concepts were further evaluated against a variety of metrics, including the use of aircraft profile data, in order to refine or validate each concept. At the conclusion of these analyses, nine final SPAS alternatives were developed encompassing various airfield, terminal, and ground access design options. These nine alternatives are described in detail and analyzed in the Draft EIR.

## **4. Environmental Review and Analysis**

### Environmental Impact Report

The program-level EIR, which addresses the LAX SPAS as the proposed project, has been prepared by LAWA as the lead agency in conformance with the California Environmental Quality Act (CEQA). As noted above, nine alternatives offering various options to the Yellow Light Projects, including one alternative that provides for implementation of the Yellow Light Projects (i.e., implement the Yellow Light Projects as generally reflected in the LAX Master Plan instead of options to those improvements), are analyzed in the EIR.

The LAX SPAS EIR addresses the environmental impacts associated with improvements studied under the LAX SPAS and, at a program level, discloses the significant environmental effects of the studied alternatives. However, as indicated in the LAX SPAS Draft EIR, most of the significant and unavoidable impacts are caused by the anticipated growth in passenger activity and non-airport-related regional development, and would occur even if none of the SPAS Alternatives were implemented. While the EIR identifies mitigations to avoid or reduce many of the significant impacts to below the level of significance, numerous significant impacts cannot be reduced below the level of significance, despite implementation of all feasible mitigations.

The Draft EIR was widely distributed and made available to the public, agencies, and local municipalities. The public review and comment period occurred from July 27, 2012, to October 10, 2012. During this 75-day review period, three Open House/Public Meetings were held by LAWA in order to provide opportunities for the public to become more familiar with, and ask questions regarding the SPAS alternatives and the content of the Draft EIR. In addition, an online Virtual Meeting was made available one month prior to the close of the comment period. The Virtual Meeting platform provided access to Open House/Public Meeting Station Boards moderated by members of the LAWA team and an additional online opportunity for public comment submission.

Over 370 people attended the Open House/Public Meetings, with approximately 101 verbal comments provided. At the close of the public comment period, comments were received by approximately 251 commenters, providing over 2000 individual comments.

In accordance with the requirements of CEQA, LAWA has reviewed and prepared written responses to all comments received on the Draft EIR. Those comments and responses are included in the Final EIR to be considered by the Board of Airport Commissioners, which was published on January 25, 2013.

### SPAS Report

LAWA prepared a LAX SPAS Report to identify potential LAX Specific Plan amendments consistent with the requirements of the LAX Specific Plan and the LAX Master Plan Stipulated Settlement. The LAX SPAS Report also documents the planning process used to identify LAX Specific Plan amendments and potential alternative designs, technologies, and configurations of the LAX Master Plan Program in accordance with the SPAS process defined in Section 7.H of the LAX Specific Plan and Section V of the LAX Master Plan Stipulated Settlement. The amendments and alternatives identified in the LAX SPAS Report were addressed in the SPAS EIR. The SPAS Report also discusses the security and financial implications of the various SPAS Alternatives. Together, the Final EIR and the Final LAX SPAS Report make up the Specific Plan Amendment Study.

The SPAS Preliminary Report was released on the same date as the SPAS Draft EIR, July 27, 2012. The Final SPAS Report, which includes a discussion of the LAWA Staff-Recommended Alternative, was released on Wednesday, January 30, 2013.

## **5. LAWA Staff-Recommended Alternative**

LAWA staff recommends that the Board of Airport Commissioners select the Staff-Recommended Alternative as the SPAS Preferred Alternative because it best balances the SPAS Objectives while acknowledging community concerns better than the Yellow Light Projects and other studied SPAS Alternatives.

The Staff-Recommended Alternative includes airfield and terminal elements from Alternative 1 coupled with the ground transportation elements of Alternative 9. The environmental impacts for each of these Alternatives were appropriately disclosed in the SPAS Draft EIR, and restated in the Final EIR. No new environmental impacts not already disclosed in the Draft EIR have been identified. The relationship between the LAWA Staff-Recommended Alternative and the SPAS Draft EIR is described further in Section 2.1.3 of the SPAS Final EIR.

In developing the recommendation, LAWA staff used the Preliminary Evaluation of the Relationship Between the Project Objectives and the SPAS Alternatives, included in Chapter 1 of the SPAS Draft EIR along with a review of the analyses included in the SPAS Draft EIR and public comment. In short, Staff recommends this alternative because it:

- a) Standardizes nearly all airfield operations, substantially improves pilot situational awareness, addresses all airfield hazards, and includes airfield efficiency features,
- b) Provides all four types of improvements associated with the ground transportation planning objective: reduces bottlenecks and congestion in the CTA; reduces the volume of vehicles in the CTA by providing alternative locations for pick-up and drop-off; provides a grade-separated connection between the CTA and other airport transit facilities; and integrates with nearby transit facilities,
- c) Includes opportunities to modernize terminals and concourses for international passengers,

- d) Would not result in more than 153 passenger gates at 78.9 MAP,
- e) Would meet existing and anticipated federal security requirements,
- f) Includes mitigation measures (identified in the DEIR) to mitigate environmental impacts on surrounding communities, and,
- g) Would have a low to moderate impact on LAWA finances.

The SPAS Staff-Recommended Alternative would address key planning objectives related to airfield safety and efficiency. Critically for LAX, the combination of improvements provided would result in a north airfield configuration that would permit 99.87% of all aircraft operations forecasted to serve LAX in 2025 to be managed in a standard manner, free of restrictions and workarounds that complicate efforts to provide a safe and efficient airfield.

The LAWA Staff-Recommended Alternative would also provide a key safety enhancement not present on today's airfield, a centerline taxiway that would provide additional distance and geometry that is designed to reduce the chances of pilots inadvertently entering an active runway. The presence of a centerline taxiway has been acknowledged in each safety study of the north airfield, and by the FAA, as enhancing airfield safety. In addition, the LAWA Staff-Recommended Alternative would include exit taxiways with improved geometry, giving almost all arriving pilots line of sight to the end of Runway 6R/24L when positioned to cross that runway. This direct line of sight provides an improvement to situational awareness to pilots not reliant on developing technology.

The airfield efficiency improvements outlined above would reduce aircraft-related operational emissions compared to those emissions that would occur if the north airfield remained as it is today or if the north airfield were reconfigured as proposed in the LAX Master Plan. Additionally, implementing the Staff-Recommended Alternative would reduce the number of people and dwellings that would be newly exposed to significant levels of aircraft noise compared to those that would be exposed if the north airfield remains as it is today. The projected contours for the LAWA Staff-Recommended Alternative identify the number of newly impacted dwellings to be reduced by 233, and the number of newly impacted people reduced by 1244 compared to a scenario in 2025 that does not include a reconfigured airfield. In fact, leaving the north airfield in its existing operational configuration would result in the highest number of people being newly exposed to significant levels of aircraft noise of all of the SPAS Alternatives.

As it relates to ground transportation, with the construction of new facilities and associated operational changes included in the LAX SPAS Staff-Recommended Alternative, the total number of vehicles entering the CTA and using the CTA roadway network and curbside would decrease by over 340 vehicles in the peak hour, a reduction of over 5% of total vehicle trips entering the CTA when compared to the "no development" Alternative. At the same time, the eventual placement of rental car users on the APM system would allow LAWA to reassign over 1000 feet of dedicated curb in the CTA to other uses, thereby diffusing some of the curbside demand that can reduce the level of service on the roadway and curb systems. Together, these changes would improve the overall performance and passenger level of service of the CTA, especially in peak hours.

Additionally, the LAX SPAS Staff-Recommended Alternative would provide an improved connection for airport users seeking to access the airport through private or public transit, including those seeking to connect to shared ride vans, long distance shuttles, or Metro. That grade-separated circulator system would provide a reliable and effective service between airport and Metro facilities, removing perceived barriers to the airport for potential transit riders.

The Staff-Recommended Alternative, including the proposed amendments to Section 7.H of the LAX Specific Plan, identifies Specific Plan amendments that plan for the modernization and improvement of LAX in a manner that is designed for a practical capacity of 78.9 million annual passengers while enhancing safety and security, minimizing environmental impacts on the surrounding communities, and creating conditions that encourage airlines to go to other airports in the region, particularly those owned and operated by LAWA.

A detailed presentation on LAWA's recommendation was provided to the Board of Airport Commissioners on December 3, 2012, and subsequently to the SPAS Advisory Committee on December 4, 2012.

On January 8, 2013, the City Planning Department held a Hearing Officer hearing on the potential amendments to the LAX Plan, LAX Specific Plan, and other General Plan elements that would be necessary as a result of the various SPAS Alternatives, including the Staff-Recommended Alternative. LAWA staff provided content for an Open House immediately preceding this meeting, including materials discussing the Staff-Recommended Alternative. More than 500 people attended the meeting. More than 50 speakers provided comments. Following that meeting, City Planning staff continued to receive comments until the close of its comment period on January 22, 2013. City Planning staff then issued a staff report on the proposed SPAS plan amendments and included comments received between the date of the hearing and the close of its comment period.

### **Voluntary Commitments**

As a result of continued discussions with outside agencies during the SPAS process, staff has identified several voluntary commitments. These voluntary commitments are not required to reduce significant impacts of the Staff-Recommended Alternative, but could result in improved experiences for users of LAX when paired with the implementation of the Staff-Recommended Alternative. These voluntary commitments include street improvements in the vicinity of Manchester Square tied to the proposed development of facilities in that area, and a congestion pricing study to be initiated following the completion of SPAS and the completion of related planning updates. Each of these is described in greater detail in the section below.

## **6. Current Action**

The Board of Airport Commissioners is asked to consider and take action on the Specific Plan Amendment Study, including certifying the Final EIR, adopting the MMRP, CEQA Findings and Statement of Overriding Considerations, determining that the SPAS, including the Final LAX SPAS Report, is complete, selecting a preferred alternative to study further, adopting voluntary commitments, and recommending amendments to various entitlement documents. Upon action by the BOAC, the SPAS documents will proceed to the next appropriate City decision-making body for further review and consideration, including the City Planning Commission, City Council, and/or Mayor, as may be necessary. Additional review may be required by the Los Angeles County Airport Land Use Commission (ALUC).

Implementation of a preferred alternative would be subject to future detailed planning, engineering, and project-level environmental review, such as project-level review of individual improvements under CEQA and the evaluation and approval processes of FAA. LAWA will need to conduct further project-level, technical and other review of the SPAS projects before it will be ready to seek FAA approval of any of the SPAS elements. Accordingly, LAWA will not immediately seek FAA technical or environmental approvals for the SPAS projects, but intends to do so when appropriate and as required. Approval of the SPAS Staff-Recommended Alternative would provide the platform from which the specific details of the proposed improvements would be further defined and evaluated in connection with current and future FAA standards.

Following is a summary of the major items that will be before the City decision-makers:

- **Final EIR**

The Final EIR, which includes the Draft EIR, follows the preparation and content guidance provided in CEQA and the State CEQA Guidelines and is intended for use by the decision-makers in assessing the various environmental impacts of the SPAS. The Final EIR describes

the purpose of the SPAS and the issues to be resolved, discusses the objectives associated with completing the SPAS process, presents the specific characteristics of the nine SPAS alternatives considered and carried forward for evaluation in this EIR, discloses the potential adverse impacts of each alternative, and proposes mitigation measures designed to reduce or eliminate significant impacts. The Final EIR also serves as a basis for gathering public input and includes written responses to all comments received on the Draft EIR. The Final EIR also includes a description of the LAWA Staff-Recommended Alternative and a discussion of the environmental impacts associated with this alternative.

- **Final SPAS Report**

The Final SPAS Report is a companion document to the LAX SPAS EIR. Together, these documents serve to document the Specific Plan Amendment Study required by the LAX Specific Plan and the LAX Master Plan Stipulated Settlement Agreement. The SPAS Report has been prepared to document the SPAS process, develop plan amendments, and provide stakeholders and decision-makers with additional non-environmental analysis relating to the SPAS Alternatives.

- **MMRP**

The Mitigation Monitoring and Reporting Program (MMRP), which is a companion document to the Final EIR, is a program by which compliance with the proposed mitigation measures identified in the Final EIR is ensured. For each mitigation measure, it describes the method and timing of implementation, monitoring frequency, and actions indicating compliance.

- **CEQA Findings**

The CEQA Findings proposed for adoption identify the significant environmental effects of the Staff-Recommended Alternative, as analyzed in the Final EIR, and propose findings that such impacts have either been avoided or substantially lessened by changes or alterations, i.e. mitigation measures, required in the project, that such changes or alterations are within the jurisdiction of another public agency, or that the specific economic, social, legal, technological, or other considerations make infeasible the mitigation measures identified in the EIR. The CEQA Findings also provide the rationale for selection of the Staff-Recommended Alternative over the other alternatives analyzed in the EIR.

- **The Statement of Overriding Considerations**

The Statement of Overriding Considerations discusses specific economic, legal, social, technological, or other project benefits, including safety and other environmental benefits, that warrant approval of the Staff-Recommended Alternative despite its adverse environmental impacts.

- **LAX SPAS Voluntary Commitments**

As described above, staff recommends these Voluntary Commitments to address concerns raised by Los Angeles Department of Transportation (LADOT) and other stakeholders. They are the following:

**Street Improvements**

When the Manchester Square property is developed for airport facility use, LAWA will voluntarily widen the following streets along airport-owned property to achieve a Major Highway – Class II standard roadway width of 80-foot curb-to-curb, along with 12-foot wide sidewalks fronting airport property:

- Arbor Vitae Street between Aviation and La Cienega Boulevard

- Aviation Boulevard between Arbor Vitae Street and Century Boulevard
- La Cienega Boulevard between Arbor Vitae Street and Interstate-405 Ramps, north of 99<sup>th</sup> Street

In addition, LAWA will voluntarily widen the following street to achieve a roadway width of 99-foot curb-to-curb, along with 12-foot wide sidewalks fronting airport property:

- La Cienega Boulevard between the Interstate-405 Ramps, north of 99<sup>th</sup> Street to 75-foot north of the centerline of 99<sup>th</sup> Street.

### **Congestion Pricing Study**

The Los Angeles Department of Transportation (LADOT), recommends that LAWA, upon the final adoption of a SPAS Alternative and any necessary entitlements, agree to initiate a study on a congestion pricing model that could be implemented in the LAX vicinity. The study will be conducted by outside consultants, in consultation with LADOT, and be based on future configurations of the airport and other nearby transportation facilities.

### • **Entitlement Requests**

- Development of the Staff-Recommended Alternative, or any of the potential SPAS alternatives, would require various administrative amendments to the LAX Specific Plan to ensure precise land use and zoning consistency with the physical and operational configuration of that alternative, as well as new provisions to comply with the LAX Master Plan Stipulated Settlement.
- An amendment to the LAX Specific Plan that would introduce a new requirement that LAWA initiate an LAX Domestic Passenger and Airline Market Survey/Study if the annual passenger activity analysis in a given year forecasts that annual passengers for that year will exceed 75 MAP. LAWA would also be required to conduct another Specific Plan Amendment Study if the annual aviation analysis forecasts that LAX annual passengers for that year are expected to exceed 78.9 MAP. The purpose of this amendment is to better position LAWA to find policies and practices that would encourage airlines to go to other airports in the region.
- Development of the Staff-Recommended Alternative, or any of the potential SPAS alternatives except Alternative 3, would require amendments to the LAX Plan, as a component of the Land Use Element of the General Plan, to ensure precise land use and policy consistency with the physical and operational configuration of that alternative.
- Development of the Staff-Recommended Alternative, or any of the potential SPAS alternatives except Alternative 3, would require amendments to the Westchester-Playa del Rey Community Plan, Transportation Element, and Noise Element of the General Plan to ensure internal consistency with the amended LAX Plan and reflect the physical and operational configuration of that alternative.

## **7. Alternatives Considered**

- **Receive and File the SPAS Report and DEIR**  
Staff has considered asking the BOAC to take the singular action of receiving and filing the Final SPAS Report and Final EIR.
- **Select An Alternative Other than the Staff-Recommended Alternative**

BOAC can direct staff to amend the documents listed above in accordance with the selection of a different Alternative. If this were to occur, staff would need to report back to BOAC for approval and certification of these documents at a later time.

**FISCAL & ECONOMIC IMPACT STATEMENT:**

This is an administrative action that will have no fiscal impact on the LAWA Operating or Capital Budgets.

**STANDARD PROVISIONS:**

1. An Environmental Impact Report (EIR) has been prepared for the LAX Specific Plan Amendment Study (SPAS). The EIR was completed in compliance with the California Environmental Quality Act (CEQA) and the Los Angeles City CEQA Guidelines. The SPAS Final EIR, Mitigation, Monitoring and Reporting Program (MMRP), CEQA Findings and Statement of Overriding Consideration are presented to the Board for certification and adoption. Pursuant to CEQA Guidelines Section 15091(e), the location and custodian of the documents and materials for the Environmental Impact Report is Los Angeles World Airport, Capital Programming and Planning Group, 1 World Way, Los Angeles, California, 90045.
2. Actions taken on this item by the Board of Airport Commissioners will become final pursuant to the various provisions of Los Angeles City Charter.
3. This action is not subject to the provisions of the Service Contractor Worker Retention and Living Wage Ordinances.
4. This action is not subject to the provisions of the SBE Program.
5. This action is not subject to the provisions of the Affirmative Action Program.
6. This action does not require a Business Tax Registration Certificate.
7. This action is not subject to the provisions of the Child Support Obligations Ordinance.
8. This action is not subject to the insurance requirements of the Los Angeles World Airports.
9. This action is not subject to the provisions of City Charter Section 1022 (Use of Independent Contractors).
10. This action is not subject to the provisions of the Contractor Responsibility Program.
11. This action is not subject to the provisions of the Equal Benefits Ordinance.
12. This action is not subject to the provisions of the First Source Hiring Program.
13. This action is not subject to the provisions of Bidder Contributions CEC Form 55.

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## DRAFT

### California Environmental Quality Act Findings LAX Specific Plan Amendment Study Project

#### I. Project Description Summary

The proposed project is the LAX Specific Plan Amendment (SPAS) Project. The SPAS process involves the identification and evaluation of potential alternative designs, technologies, and configurations for the LAX Master Plan Program that would provide solutions to the problems that the Yellow Light Projects were designed to address. The SPAS process also includes identification of potential amendments to the LAX Specific Plan that plan for the modernization and improvement of LAX in a manner that is designed for a practical capacity of 78.9 million annual passengers (MAP) while enhancing safety and security, minimizing environmental impacts on the surrounding communities, and creating conditions that encourage airlines to go to other airports in the region, particularly those owned and operated by LAWA.

Nine alternatives offering various options to the Yellow Light Projects, including one alternative that provides for implementation of the Yellow Light Projects (i.e., implement the Yellow Light Projects as generally reflected in the LAX Master Plan instead of options to those improvements), are addressed within the Final EIR for SPAS. The types of improvements used to define the key characteristics of each SPAS alternative can be grouped into the following three categories:

- ◆ Airfield Improvements - Airfield improvements include changes to the runways, taxiways, navigational aids, and service and maintenance roads associated with the north airfield. The primary differences in airfield improvements associated with the various SPAS alternatives pertain to:
  - ◆ Separation distances between runways and taxiways. Separation distances largely determine the maximum size aircraft that can freely operate on that system under various visibility conditions, and, in certain visibility conditions, would either require Federal Aviation Administration (FAA) approval of special operating procedures (i.e., Modifications of Standards or other forms of operational waivers) or would be prohibited;
  - ◆ Whether an increase in the separation distance between Runway 6L/24R and Runway 6R/24L would allow for the construction of a centerfield parallel taxiway between the runways, to enable aircraft arriving on the outboard (6L/24R) runway to exit onto the center taxiway and hold while aircraft are departing on the inboard (6R/24L) runway, thereby allowing the departing aircraft to safely pass before the arriving aircraft proceeds to the terminal gates;
  - ◆ The extent to which the Lincoln Boulevard and the Argo Drainage Channel would have to be modified in order to accommodate a northerly shift in the alignment of Runway 6L/24R;
  - ◆ Whether Runway 6R/24L would be extended 1,250 feet eastward to provide greater departure length in west flow condition that would better accommodate departures of large aircraft on long-haul flights and improve the balance between the north airfield and the south airfield relative to such departures;
  - ◆ Whether Runway 6L/24R would be reconfigured or extended to relocate its associated RPZ with respect to residential uses, and/or to improve the north airfield and the south airfield relative to the operation of aircraft;
  - ◆ How RSA requirements would be met, in terms of runway extensions, declared distances, displaced thresholds, or a combination thereof; and

- ♦ Separation distances between Runway 6R/24L, Taxiway E, Taxilane D, the adjacent vehicle service road, and the aircraft gates/parking positions at the north end of the CTA, which largely determine the maximum size aircraft that can either freely operate on that system or would be subject to certain limitations, particularly as related to the interface between aircraft going to or from the gates at Terminals 1 through 3 and aircraft taxiing to the east end of Runway 6R/24L for departure.
- ♦ Terminal Improvements - Terminal improvements consist primarily of additions/demolitions to existing terminals/concourses, and, for most SPAS alternatives, the construction of a new terminal - Terminal 0 ("zero"). The primary differences in terminal improvements for the various SPAS alternatives are directly related to the movement of runways and taxiways under each alternative. Specifically, the alternatives differ in the location of their building limit lines (i.e., the "object free" safety area along runways and taxiways where no part of a structure can be present) and their aircraft parking limit lines (APLL) (i.e., the safety clearance setback area along runways and taxiways into which no part of an aircraft parked at a gate can extend). The northernmost limit of concourse building area and/or aircraft gate parking positions is defined by the southernmost safety clearance distance for the runways and taxiways in the north airfield. Depending on the location and design of the runways and taxiways associated with each alternative, the locations of the building limit line and APLL may differ between alternatives.

In general, the building lines and APLLs associated with most of the alternatives extend southward, overlapping, to varying degrees, portions of the concourse areas for Terminals 1 through 3, which would require removal (demolition) of those building areas that encroach past the building limit line and/or the elimination or reduction in aircraft size capability of gate parking positions that encroach past the parking limit line. Conversely, the building and parking limit lines associated with several alternatives do not extend as far south as the limit lines defined in the LAX Master Plan, which assumed the movement of Runway 6R/24L 340 feet south and defined the northerly building limits for the Tom Bradley International Terminal (TBIT) West Gates, currently under construction as part of the Bradley West Project, and the future Midfield Satellite Concourse (MSC). In those cases, establishing building and parking limit lines farther north than the current LAX Master Plan limit lines would allow the opportunity for a future northward extension (i.e., an addition to) the north concourses for Bradley West and the MSC.

While the amount of concourse area and the layout of aircraft gates vary between alternatives, none of the SPAS alternatives includes more than 153 passenger gates.

Certain alternatives propose a westerly realignment of the Terminal 3 concourse to provide a wider alleyway between the concourses at Terminals 2 and 3 for aircraft taxiing.

For those alternatives that include development of the new Terminal 0, the existing alignment of Sky Way (the primary access road connecting CTA to southbound Sepulveda and 96th Street Bridge) would be shifted east, into the area now occupied by the Park One parking lot, providing an improved entrance roadway into the CTA.

- ♦ Ground Access Improvements - Ground access improvements consist of changes to on-airport and off-airport roads, addition of specific transportation facilities, development of dedicated access (i.e., busway or APM) into the CTA, and changes in parking locations. While the focus of SPAS is on alternatives to the Yellow Light Projects, such as the GTC and its associated roadways and one of the two APM systems proposed under the LAX Master Plan (APM 2), the ground access improvements proposed under the various SPAS alternatives also take into consideration key non-Yellow Light projects that are integral parts of the overall ground access system. Such projects include the Consolidated Rental Car Facility (CONRAC), the Intermodal Transportation Center (ITC),

the APM connecting the ITC and CONRAC to the CTA, and the West Employee Parking facility. The ground access improvements proposed under the various SPAS alternatives represent different combinations of options to the Yellow Light Projects. Due to integral nature of these key non-Yellow Light projects with the overall ground access system, the SPAS alternatives include proposed modifications to, or proposed deletion of, these non-Yellow Light projects.

Alternatives 1 through 4 in the Draft EIR were presented as "fully-integrated" alternatives that include specific improvements in all three categories: airfield improvements, terminal improvements, and ground access improvements. Alternatives 5 through 7 focus on variations to the airfield improvements, which, in turn, affect the terminal improvements. Alternatives 8 and 9 focus on variations to the ground access improvements. Although the primary focus of Alternatives 5 through 9 is on specific categories of improvements, there is a certain amount of compatibility or "interchangeability" between the SPAS alternatives. Specifically, the airfield and terminal improvements in Alternatives 5 through 7 are equally compatible with the ground access improvements in Alternatives 1, 2, 8, and 9. Likewise, the ground access improvements in Alternatives 8 and 9 are equally compatible with the airfield and terminal improvements in Alternatives 1, 2, 5, 6, and 7. In other words, the proposed ground transportation system incorporated into Alternatives 1 and 2 could function in the same manner with Alternatives 5, 6, or 7. That would also be the case for the ground transportation systems under Alternatives 8 and 9, which could be developed under Alternatives 5, 6, or 7, and could also replace the ground transportation system currently proposed for Alternatives 1 and 2. On the other hand, Alternatives 3 and 4 are unique "fully-integrated" alternatives and are not considered to have elements that are "interchangeable" with the other SPAS alternatives. While Alternatives 5, 6, and 7 focus on options for airfield/terminal improvements and Alternatives 8 and 9 focus on options for ground access improvements, these five alternatives (Alternatives 5 through 9) would only address all of the problems that the Yellow Light Projects were designed to address in conjunction with another alternative (Alternatives 1 through 4), or portion thereof. Detailed descriptions of each of the alternatives are provided in Section 2.3 of the SPAS Draft EIR. The objectives associated with completion of the SPAS process are described in Section 2.2 of the SPAS Draft EIR. Table 1-2 of the SPAS Draft EIR provides an evaluation of how each alternative responds to these objectives.

### **LAWA Staff-Recommended Alternative**

Following completion of the SPAS Draft EIR, and receipt and review of public comments on the LAX SPAS Project Draft EIR, LAWA staff identified a recommended alternative. LAWA staff recommends an alternative that combines the airfield and terminal components associated with Alternative 1 with the ground access components associated with Alternative 9. The key features of the LAWA Staff-Recommended Alternative include:

- ◆ Relocation of Runway 6L/24R 260 feet north
- ◆ Construction of a centerline taxiway
- ◆ Easterly extension of Runway 6R/24L
- ◆ Improvements to north airfield taxiways
- ◆ Development/redevelopment/extension of Terminal 0, Terminal 3, Tom Bradley International Terminal, and the future Midfield Satellite Concourse
- ◆ 153 passenger gates
- ◆ Development of an Intermodal Transportation Facility (ITF), Consolidated Rent-A-Car Facility (CONRAC), and parking outside the Central Terminal Area (CTA)
- ◆ Construction of an Automated People Mover (APM) to link new facilities to the CTA and provide connectivity with planned Metro facilities

## **Features of the LAWA Staff-Recommended Alternative**

### **Overview**

The LAWA Staff-Recommended Alternative is a fully-integrated alternative, consisting of airfield, terminal, and ground access components. The distinguishing airfield improvement feature of this alternative is the movement of Runway 6L/24R 260 feet north, along with the addition of a centerfield taxiway, the extension of Runway 6R/24L, improvements to Taxilane D and Taxiway E, and relocation of the service road. Terminal improvements include addition of new Terminal O, loss or modifications to concourse areas and/or gates at Terminals 1, 2, and 3, and the modification and potential northward extension of concourse area and gates at TBIT and the future MSC. Ground access improvements include modification of Sky Way; development of an Intermodal Transportation Facility (ITF) at 98th Street west of Airport Boulevard; development of a CONRAC and parking at Manchester Square; development of an Automated People Mover (APM) along 98th Street; and the relocation of Lincoln Boulevard, a portion of which would be below grade and/or tunneled. The APM would be located within an elevated/dedicated corridor along 98th Street, with a bridge over Sepulveda Boulevard and stops at Manchester Square, the future Metro LAX/Crenshaw Light Rail Transit Station at/near Century and Aviation Boulevards, the ITF, and the CTA. Within the CTA, the APM would be located on a new elevated guideway.

### **Airfield Facilities**

The LAWA Staff-Recommended Alternative meets FAA airport (runway) design standards for ADG V with a Category II/III outboard runway (Runway 6L/24R) and Category I inboard runway (Runway 6R/24L), and provides sufficient space between Runway 6R/24L and the centerfield taxiway for ADG V aircraft to hold prior to crossing the runway with a pilot line-of-sight of the end of Runway 24L. This alternative provides the FAA standard ADG VI runway-to-taxiway separation between Runway 6L/24R and the centerfield taxiway for approach visibility at or above one-half mile (Category I approaches). Taxiway E and Taxilane D dimensions would meet ADG V standards.

### **Runway Modifications**

#### **Runway 6L/24R**

- ◆ Relocate 260 feet north of current location to accommodate a new centerfield parallel taxiway (see below) and to provide for ADG V separation distances
- ◆ Extend 604 feet west so that the RPZ no longer extends over residential areas
- ◆ Establish dual displaced thresholds to remove existing residences from the RPZ (east end displaced threshold) and maintain existing westerly aircraft landing heights (west end displaced threshold)
- ◆ Widen to 200 feet to meet FAA standards

#### **Runway 6R/24L**

- ◆ Remains in its current location
- ◆ Extend 1,250 feet east to meet RSA requirements and maximize aircraft takeoff length
- ◆ Shift 6R landing threshold 104 feet east to meet RSA requirements
- ◆ Reconstruct east 2,000 feet for grade compliance

### **Taxiway Modifications**

#### **Centerfield Taxiway**

- ◆ Construct an 82-foot-wide centerfield taxiway between Runways 6L/24R and 6R/24L, with a centerline separation distance of 500 feet to Runway 6L/24R and 460 feet to Runway 6R/24L, to enhance safety and reduce incursions and other airfield hazards,

while providing for ADG V separation distances; also provide exit taxiways from Runway 6L/24R to the centerfield taxiway, taxiways from the centerfield taxiway to and across Runway 6R/24L, and other related airfield taxiway improvements

**Taxiway E**

- ◆ Rebuild western 2,190 feet to straighten alignment (0 to 64 feet southerly relocation)
- ◆ Extend 950 feet east to support easterly extension of Runway 6R/24L and to provide additional hold area for departing aircraft

**Taxilane D**

- ◆ Relocate varying distances (ranging from 15 to 19 feet) north to provide ADG V separation distances between the taxiway and APLL
- ◆ Extend 745 feet east to support easterly extension of Runway 6R/24L and 5,145 feet west to provide for dual full-length taxiways in the north airfield

**Other Airfield-Related Features**

- ◆ Cover the entire length of the Argo Drainage Channel (9,857 linear feet) such that the weight of an aircraft could be supported within the RSA by converting the existing open unlined channel to a concrete box culvert
- ◆ Relocate Lincoln Boulevard northward between Sepulveda Boulevard and Westchester Parkway, and depress the eastern portion of the road segment to be compatible with the object free area requirements for the east end of Runway 6L/24R, which would require approximately 540 linear feet of the road segment to be tunneled
- ◆ Relocate the service road that currently lies between Taxiway E and Taxilane D to a location 142 feet south of Taxilane D centerline to increase the separation between the two taxiways to allow for simultaneous operations with larger aircraft than currently accommodated, improve safety and efficiency, and meet FAA standards
- ◆ Taxiway E and Taxilane D dimensions, based on proposed improvements, would meet ADG V standards
- ◆ In the eastern portion of the airfield, the APLL would move south to a location 852 feet south of the existing Runway 6R/24L centerline. Beginning just west of Taxiway S, the APLL would move south an additional 50 feet (902 feet south of the Runway 6R/24L centerline).
- ◆ Relocate and/or remove existing facilities as specifically described in the section titled "Existing Facilities Affected by SPAS Improvements" and as listed in Table SF-2 later in this section and as shown in Figure 2-10 of the SPAS Draft EIR

**Terminal Facilities**

Proposed modifications to terminal facilities, including aircraft gates, under the LAWA Staff-Recommended Alternative would include the following:

- ◆ Construct a new Terminal 0 with seven gates in the western portion of the area now occupied by Park One to replace gates lost or downsized at Terminals 1 through 3
- ◆ Demolish approximately 177 feet of the Terminal 1 concourse to accommodate the southerly movement of the APLL
- ◆ Demolish and reconstruct the Terminal 3 concourse and associated gates, with the building centerline shifted 40 feet to the west to increase the width of the alleyway between Terminals 2 and 3 to allow for dual-directional aircraft movement and comply with FAA standards
- ◆ Demolish and replace the northerly end of the TBIT concourse and associated gates (with new concourse and gates in line with the new Bradley West concourse) to the LAWA Staff-Recommended Alternative APLL

- ◆ Provide the opportunity to extend the northerly end of the future MSC to the LAWA Staff-Recommended Alternative APLL
- ◆ As a result of moving the APLL south to meet ADG V standards, several gates would be eliminated or downsized (i.e., would accommodate smaller aircraft types)
- ◆ The commuter facility currently in use east of Sepulveda Boulevard would be maintained
- ◆ Use of west remote gates would be eliminated upon completion of the airfield and terminals improvements
- ◆ The total number of gates used at LAX for scheduled passenger service would be 153

### **Ground Access Facilities**

#### **Ground Access**

Under the LAWA Staff-Recommended Alternative, the characteristics of the airport ground access system would be as follows:

- ◆ Maintain private vehicle access to the CTA
- ◆ Relocate Sky Way (upper and lower level roadways) eastward between the future Terminal 0 and Sepulveda Boulevard to provide additional roadway and curbfront in the CTA, while allowing the development of Terminal 0
- ◆ Add new curbside space at Terminal 0
- ◆ Relocate the commercial vehicle holding lot south of 96th Street, between Sepulveda Boulevard and the relocated Sky Way to meet RSA and RPZ requirements
- ◆ Construct a new ITF on 14 acres between 96th and 98th streets and between Vicksburg Avenue and Airport Boulevard. Key features of the ITF include public parking and remote passenger pick up/drop off. In addition, arriving passengers could travel to the ITF to board door-to-door shuttles or scheduled buses.
- ◆ Construct a CONRAC in a portion of Manchester Square, including a customer service area and a structured parking facility to accommodate approximately 1,000 stalls for quick turn-around and 5,800 stalls for ready return. Additional surface parking would be constructed to accommodate a portion of the total demand for staging and storage of rental vehicles by the various operators.
- ◆ Construct an elevated APM between Manchester Square and the CTA, primarily using the 98th Street corridor, including a bridge over Sepulveda Boulevard and stops at the future Metro LAX/Crenshaw Light Rail Transit Station at/near Century and Aviation Boulevards and the new ITF. Within the CTA, the APM would be located on an elevated guideway. The number of stations in the CTA has yet to be determined but could range from 3 to 5.
- ◆ Provide connectivity to public transit via the APM, with a stop/connection at the new Metro transit station at Aviation/Century. LAX shuttle bus from the Metro Green Line Aviation Station would be discontinued.
- ◆ An APM maintenance facility would be constructed, likely in Manchester Square
- ◆ Relocate Lincoln Boulevard to the north, outside of the Runway 6L/24R RSA, with a portion below grade and/or tunneled

#### **Parking**

Under the LAWA Staff-Recommended Alternative, the characteristics of airport parking within the control of LAWA would be as follows:

- ◆ Generally, no changes to existing CTA parking conditions would occur as a result of SPAS, although future pricing structures may change long-term/short-term composition

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- ◆ Parking Lot E would no longer be used for employee parking, although this property could be used for other airport purposes in the future. Changes to the use of this parking area would occur independently from SPAS.
- ◆ No changes are proposed to Public Parking Lot C
- ◆ Parking Lot D would provide approximately 1,944 employee parking spaces. The Jenny Lot east of Parking Lot D would provide approximately 2,000 employee parking spaces. These parking areas were not in use in the 2010 baseline year; however, their use for parking is occurring independently from SPAS.
- ◆ Development of the ITF would include approximately 4,900 short-term public parking spaces to facilitate passenger drop off and pick up outside of CTA
- ◆ Construct approximately 2,750 employee parking spaces in the existing Avis rental car lot
- ◆ Construct approximately 4,200 public parking spaces in a portion of Manchester Square
- ◆ No public or employee parking is proposed for the area referred to as Continental City
- ◆ The existing Park One parking would be eliminated to allow development of Terminal 0 and the relocated entry roadway
- ◆ The West Employee Parking facility would not be constructed

### **Elimination of LAX Master Plan Components**

Under the LAWA Staff-Recommended Alternative, the following non-Yellow Light projects approved as part of the LAX Master Plan would be fully or partially eliminated:

- ◆ Demolition of all CTA parking structures and replacement with passenger terminals (partially eliminated)
- ◆ West Employee Parking facility
- ◆ CONRAC in Parking Lot C (would be developed in Manchester Square instead)
- ◆ Reconfiguration and expansion of Parking Lot E north of 111th Street
- ◆ ITC in the area referred to as Continental City
- ◆ APM between ITC, CONRAC, and CTA (APM 1)

A summary of the key characteristics of the LAWA Staff-Recommended Alternative is presented in **Table SF-1**.

**Table SF-1**

### **Summary of the LAWA Staff-Recommended Alternative (SRA)**

	<u>Baseline Conditions</u>	<u>SRA</u>
<b><u>Airfield Elements - Key Components</u></b>		
<b>Runways</b>		
Relocate Runway 6L/24R to north		260'
Extend Runway 6L/24R to west		604'
Extend Runway 6R/24L to east		1,250'
<b>Taxiways</b>		
Centerfield Taxiway	N	Y
Extend Taxiway E to east		950'
Relocate Taxilane D to north		
Between D7 and Q (TBIT and Terminals 1, 2, and 3)		15'
Between Q and E13 (MSC)		19'
Extend Taxilane D to east		745'
Extend Taxilane D to west		5,145'

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Table SF-1

### Summary of the LAWA Staff-Recommended Alternative (SRA)

	Baseline Conditions	SRA
<b>Service Road</b>		
Construct New Service Road (South of Taxilane D)		Y
<b>Terminal Elements - Key Components</b>		
<b>Central Terminal Area (CTA)</b>		
Terminal 0 Concourse and Passenger Processing		
Proposed New		330,000
Terminal 1 Concourse	138,000	
Demolition		(24,000)
Proposed Remaining		114,000
Terminal 2 Concourse	306,000	
Demolition		(0)
Proposed Remaining		306,000
Terminal 3 Concourse	279,000	
Demolition		(242,000)
Proposed Reconfigured		223,000
<b>Bradley West - North Concourse Extension</b>		
North Extension		113,800
<b>Midfield Satellite Concourse (MSC) - North Concourse Extension</b>		
North Extension		249,400
<b>Ground Access Elements - Key Components</b>		
<b>Transportation Facilities</b>		
Intermodal Transportation Facility (ITF)		X
CONRAC - Manchester Square		X
<b>Circulation System Improvements</b>		
Sky Way Realignment		X
APM - Between Manchester Square and CTA		X
<b>Parking</b>		
CTA <sup>1,2</sup>		
Public	8,577	7,041
Employee	420	420
Subtotal	8,997	7,461
Parking Lot C <sup>3</sup>		
Public	7,300	7,300
Employee	0	0
Subtotal	7,300	7,300
Parking Lot D <sup>4</sup> and Jenny Lot		
Public	0	0
Employee	0	4,344
Subtotal	0	4,344
Park One		
Public	2,728	0
Employee	0	0
Subtotal	2,728	0
Manchester Square		
Public	0	4,200
Employee	0	0
Subtotal	0	4,200
Avis Rental Car Lot		
Public	0	0
Employee	0	2,750
Subtotal	0	2,750
Proposed Parking Structure at ITF		
Public	0	4,900
Employee	0	0

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**Table SF-1**

**Summary of the LAWA Staff-Recommended Alternative (SRA)**

	<b>Baseline Conditions</b>	<b>SRA</b>
Subtotal	0	4,900
Parking Lot F (Parking Structure at the SE corner of Avion Dr. & Century Blvd.) <sup>5</sup>		
Public	0	0
Employee	1,200	1,200
Subtotal	1,200	1,200
<b>Total</b>	<b>25,695</b>	<b>32,155</b>

- <sup>1</sup> Some of the public parking in the CTA is currently used by government employees.
- <sup>2</sup> Assumes that the MSC Passenger Processor building (not a SPAS-related project) would require the removal of parking structures 2B and 5 (1,536 total spaces). Any parking spaces that may be included as a component of the Passenger Processor project is not included in these parking totals.
- <sup>3</sup> An area of Parking Lot C comprising approximately 850 spaces is currently being used as a limousine and charter bus holding lot. The 7,300 spaces represents the number of potential spaces if this commercial holding lot were relocated.
- <sup>4</sup> Parking Lot D opened to employee parking in November 2011 with 1,944 parking spaces. However, there was no parking in this lot in 2010 (baseline year).
- <sup>5</sup> This parking structure is currently used primarily by airport tenants; however, LAWA does sell some monthly parking passes to the public who likely work in nearby offices. For purposes of this summary, this structure is considered as employee parking.

Source: LAWA, CDM Smith, Ricondo & Associates, AECOM, 2011.

### **Existing Facilities Affected by SPAS Improvements**

Implementation of the LAWA Staff-Recommended Alternative would require the relocation and/or removal of several existing facilities both within LAX property, and outside of LAX property. **Table SF-2** below provides an overview of the existing facilities that would be affected by the LAWA Staff-Recommended Alternative, including the name, size, current use, and disposition of each facility. Additional discussion of the facilities is provided in Section 2.3.1.10 of the SPAS Draft EIR. Figure 2-10 of the SPAS Draft EIR delineates the existing and proposed locations of the affected facilities. Because the planning and analysis for the LAWA Staff-Recommended Alternative are at a programmatic level, specific improvements to these facilities have yet to be designed and would not be implemented for several years. The disposition of each facility described below is based on 4th quarter 2011 conditions and currently available information, and is subject to change as local conditions change and more detailed plans are formulated.

**Table SF-2**

**Summary of Existing Facilities Affected by the LAWA Staff-Recommended Alternative**

<b>Facility</b>	<b>Approximate Size</b>	<b>Current Use</b>	<b>Disposition of Facility/Use</b>
Navigational Aids		Navigational aids	The navigational aids located at the ends of the north airfield runways would be relocated. FAA's existing Airport Surveillance Radar (ASR) would be relocated north of Westchester Parkway.
North Maintenance Road	Various lengths	Road	The eastern portion of the road would be relocated independent of the LAX Master Plan or SPAS. The LAWA Staff-Recommended

## California Environmental Quality Act Findings – LAX SPAS Project

Table SF-2

### Summary of Existing Facilities Affected by the LAWA Staff-Recommended Alternative

Facility	Approximate Size	Current Use	Disposition of Facility/Use
			Alternative would require relocation of the entire road to the north with operational restrictions on the eastern end.
Argo Drainage Channel	9,857 feet long	Drainage channel	Independent of SPAS, the easternmost portion of the channel is required to be structurally covered to comply with requirements governing RSAs. Under the LAWA Staff-Recommended Alternative, the entire length of the channel would be structurally covered (i.e., converted to a concrete box culvert).
North Airfield (Abandoned) Tunnel Segment	720 feet long	Unused	The tunnel would be filled.
Airport Operations Area (AOA) Access Guard Post #3	155 square feet	Guard post	Building and appurtenant structures would be demolished. There are no plans to replace the guard post in this area.
Lincoln Boulevard and Adjoining Streets		Road	Lincoln Boulevard and adjoining streets would be realigned. Approximately 540 linear feet of Lincoln Boulevard would require the tunneling.
96th Street Bridge/Sky Way		Bridge	The bridge and roadway would be reconfigured, allowing the eastern extension of Runway 6R/24L and Taxiway E, additional CTA curbside, and the accommodation of Terminal 0.
Taxi Holding Lot	100 vehicles (2.5 acres)	Vehicle parking/staging area	Independent of the LAX Master Plan or SPAS, the taxi holding lot must be relocated. Under the LAWA Staff-Recommended Alternative, the lot would move to the eastern portion of the Park One facility.
Urgent (Medical) Care Facility	Approx. 21,500 square feet	Medical office building	The building would be demolished due to the realignment of 96th Street Bridge/Sky Way. This building could potentially be relocated elsewhere in the vicinity.
LAWA Police Station/Facilities	33,300 square feet	Police station and related facilities	Facilities would be removed and relocated. The facilities could be relocated to the future LAX Public Safety Building and Supporting Facilities currently being planned by LAWA, separate from SPAS.
Park One Parking Facility and Billboards	2,728 spaces and 8 billboards	Privately-operated airport parking lot and outdoor advertising	Parking lot use would be eliminated, along with eight billboards. No relocation of the parking is anticipated.
West Remote Aircraft Gates/Parking Positions	18 gates to facilitate scheduled passenger service	Aircraft gates and parking spaces	With the extension of Taxilane D, various west remote gate structures and parking positions would be removed. These gates and parking positions would be replaced in the buildout gating plan. (It should be noted that all West

**California Environmental Quality Act Findings – LAX SPAS Project**

**Table SF-2**

**Summary of Existing Facilities Affected by the  
LAWA Staff-Recommended Alternative**

<b>Facility</b>	<b>Approximate Size</b>	<b>Current Use</b>	<b>Disposition of Facility/Use</b>
			Remote gates/parking positions are to be removed under LAX Master Plan buildout.)
LAWA Construction and Maintenance (C&M) Division Facilities	135,000 square feet	C&M facilities	With the extension and/or relocation of Taxilane D, the C&M recycling yard and equipment yard (northern portion of the facility), as well as separately located structures used for storage, would be removed and consolidated/reconfigured at the current site or moved elsewhere on the AOA or to the area referred to as Continental City.
FedEx Aircraft Maintenance Facility	164,000 square feet	Maintenance facilities	The extension and/or relocation of Taxilane D would require the removal of the FedEx Maintenance employee parking area, an apron and run-up area, and miscellaneous storage areas within the northern portion of the facility. The facilities on the leasehold would be reconfigured and consolidated on the existing site or relocated elsewhere on the AOA.
On-Airfield Fuel Truck Filling Station		Fueling facility	With the extension of Taxilane D, the fueling station would need to be reconfigured or relocated within the AOA.
Southwest Airlines Ground Support Equipment(GSE) Facility	7,972 square feet	GSE and vehicle maintenance facility	With the extension and/or relocation of Taxilane D, the Southwest Airlines GSE facility would be removed and relocated elsewhere on, or adjacent to, the AOA.
Airfield Bus Parking Area and Operations Building	44 parking spaces, 3,876-square-foot-building	Bus parking	With the extension of Taxilane D, 44 bus parking spaces and an airfield bus operations building would be removed. These uses would be relocated within the AOA or the area referred to as Continental City.
Avis Rental Car Facility	24 acres	Rental car operation	This facility would be replaced with parking. The primary rental car function would be relocated to the CONRAC in Manchester Square. Heavy maintenance and supporting functions would require relocation elsewhere, but could potentially occur on LAWA property on 111th Street west of La Cienega Boulevard.
Burger King Restaurant	3,551 square feet	Restaurant	An existing Burger King restaurant located on the northwest corner of Airport Boulevard and 96th Place would be eliminated. Relocation would be a business decision. This business could potentially relocate to elsewhere in the vicinity.
Travelodge Hotel and Denny's Restaurant	154 rooms (Travelodge) 7,347 square feet (Denny's)	Hotel and restaurant	An existing Travelodge hotel and Denny's restaurant located in the southwestern portion of Manchester Square would be eliminated. Relocation would be a business decision. These businesses could potentially relocate to elsewhere in the vicinity.

**Table SF-2**

**Summary of Existing Facilities Affected by the  
LAWA Staff-Recommended Alternative**

<b>Facility</b>	<b>Approximate Size</b>	<b>Current Use</b>	<b>Disposition of Facility/Use</b>
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Source: LAWA and CDM Smith, 2011.

**Acquisition**

The LAWA Staff-Recommended Alternative would require the acquisition of properties located east of the airport. Table 2-4 of the SPAS Draft EIR lists the properties that may be affected and provides information pertaining to each parcel. A composite map of all of the acquisition properties is provided in Figure 2-11 of the SPAS Draft EIR. The parcels that would be acquired under the LAWA Staff-Recommended Alternative are identified in Table 2-5 of the SPAS Draft EIR (under the heading "Alts. 1, 2, 8, and 9") and illustrated in Figure 2-12 of the SPAS Draft EIR. Following acquisition, the uses would be demolished and replaced with SPAS-related improvements.<sup>1</sup>

**Construction Staging Areas**

Figure 2-15 of the SPAS Draft EIR depicts the locations of potential construction staging areas that could be utilized in some combination during development of the LAWA Staff-Recommended Alternative. As indicated in Section 2.2.1, the LAWA Staff-Recommended Alternative was formulated at a conceptual level only and there are no specific planning, design, or engineering studies or construction plans for this alternative.

Construction Staging Areas A through D are located within the LAX Northside planning area, which is planned for future development independent from SPAS. Depending on the nature and timing of such future development, use of Construction Staging Areas A through D for SPAS-related construction staging may be limited.

In addition to the potential construction staging areas described above, there are numerous existing surface parking lots in the vicinity of Arbor Vitae Street, and Airport and Aviation Boulevards that could serve as potential short-term and temporary construction staging areas.

**II. Project Objectives**

The project is to complete a Specific Plan Amendment Study (SPAS) that fulfills Section 7.H of the LAX Specific Plan consistent with the definition of the SPAS set forth in the LAX Master Plan Stipulated Settlement. The objectives associated with completion of the SPAS process, as identified in the Draft EIR, are described below.

1. Provide North Airfield Improvements that Support the Safe and Efficient Movement of Aircraft at LAX

The runways and taxiways within the north airfield at LAX were designed and constructed in the late 1960s. The commercial aircraft fleet in operation at that time, and used as the basis for designing the airfield geometrics (i.e., runway/taxiway widths, lengths, slopes, separation distances, dimensions for safety area setbacks and clearances, etc.), consisted of aircraft types that were substantially smaller and lighter than today's commercial aircraft, and had substantially different performance characteristics (i.e., braking, turn radius, etc.). For example, the

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<sup>1</sup> The LAWA Staff-Recommended Alternative would require the same acquisition as Alternatives 1, 2, 8, and 9.

commercial aircraft fleet in operation in the late 1960s and 1970s was dominated by aircraft such as the Boeing 727. The Boeing 747 was introduced into commercial service in the early 1970s and soon became one of the most popular aircraft for international and long-distance flights, particularly at LAX. In October 2008, scheduled flight operations of the Airbus A380 began at LAX. Provided in **Table SF-3** below is comparison of the size and weight of the three subject aircraft.

**Table SF-3**

**Aircraft Size Comparison**

	<b>Boeing 727</b>	<b>Boeing 747-400</b>	<b>Airbus A380</b>
Wingspan	108'	195'	261'
Length	153'	231'	239'
Tail Height	34'	64'	79'
Maximum Takeoff Weight	200,000 lbs	833,000 lbs	1,235,000 lbs

Source: Boeing, 2012 and Airbus, 2012. Boeing, Commercial Airplanes 727 Specifications, Available: <http://www.boeing.com/commercial/727family/product.html>, accessed January 2012; Boeing, Commercial Airplanes 747 Specifications, Available: [http://www.boeing.com/commercial/747family/pf/pf\\_domestic\\_prod.html](http://www.boeing.com/commercial/747family/pf/pf_domestic_prod.html), accessed January 2012; Airbus, A380 Dimensions and Key Data, Available: <http://www.airbus.com/aircraftfamilies/passengeraircraft/a380family/a380-800/specifications>, accessed January 2012.

In addition to the overall growth in the size of airplane types over the past several decades, the wingspans of many current aircraft types, such as the Boeing 737, have increased with the addition of winglets (i.e., wingtip extensions that reduce induced drag, and increase fuel efficiency), which typically add approximately 15+/- feet to the wingspan.

Problems associated with the outdated airfield design include, but are not limited to, the following:

- ◆ LAX does not have an airfield, in either the north complex or the south complex, that is fully designed for the largest aircraft types currently in service (i.e., Aircraft Design Group (ADG) V aircraft, such as the Boeing 747-400, and ADG VI aircraft, such as the Airbus A380).
- ◆ The north airfield configuration requires non-standard operating procedures, which are not optimal for safety and increase aircraft delay.
- ◆ The primary north airfield departure runway (6R/24L) is too short for certain larger aircraft (e.g., fully-loaded Boeing 747-400) on long-haul flights, requiring those aircraft to taxi to the south airfield, resulting in less efficient operations and disproportionate environmental impacts.
- ◆ The outdated airfield design creates a situation where aircraft are at increased risk of hazards. Those hazards include potential collisions with other aircraft, such as when a landing aircraft might move in the path of a departing aircraft (incursion). Other potential hazards include, but are not limited to, insufficient side-by-side passing clearances between certain types of aircraft arriving/departing on runways and aircraft on nearby taxiways. Such hazards contribute to the potential for conflicts between taxiing aircraft and ground vehicles on runways, taxiways, and nearby service roads.
- ◆ With one exception, the north airfield configuration does not comply with FAA Runway Safety Area (RSA) requirements.

## ***California Environmental Quality Act Findings – LAX SPAS Project***

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- ◆ The north airfield high-speed taxiways are not in compliance with FAA Engineering Brief No. 75.
- ◆ The north airfield does not provide sufficient areas at the end of the runways for holding arriving flights and sequencing departing aircraft.
- ◆ The existing Runway Protection Zone (RPZ) associated with Runway 6L/24R includes residential uses.

In identifying and evaluating alternatives to the north airfield improvements called for in the LAX Master Plan, LAWA is seeking to provide north airfield improvements that support the safe and efficient movement of aircraft at LAX; specifically, such improvements:

- ◆ Are consistent with FAA design standards for the largest aircraft types currently in service and anticipated for the future (ADG V and VI aircraft) for all weather conditions;
- ◆ Minimize modifications of standards, waivers, or operational restrictions, all of which reduce airfield efficiency and level of service;
- ◆ Reduce the potential for airfield hazards, including incursions, and enhance the overall safety of airfield operations through runway and taxiway design;
- ◆ Accommodate a greater percentage of departing aircraft, thereby increasing airfield efficiency;
- ◆ Provide sufficient areas at the ends of the runways for holding arriving flights and sequencing departing aircraft; and
- ◆ Minimize or eliminate the extent to which Runway Protection Zones overlay residential areas.

### **2. Improve the Ground Access System at LAX to Better Accommodate Airport-Related Traffic, Especially as Related to the Central Terminal Area**

Travelers, visitors, employees, vendors, and others utilizing the commercial passenger terminal at LAX, defined by the Central Terminal Area (CTA), have various ground access options including private vehicles, transportation service providers (i.e., taxis, shuttles, limousines, etc.), and public transit. Ground access within the CTA, where departing and arriving passengers are dropped off and picked up at curbside or can park their vehicles, is provided by an upper-level roadway and a lower-level roadway that loop around the center of the CTA and connect with surface streets on the east side of the CTA. The subject roadway system poses a number of concerns relative to traffic flows including, but not limited to, the following:

- ◆ CTA roadway system design currently creates queuing, weaving, and conflict points at various locations that impede traffic flow;
- ◆ During peak travel times, inbound airport traffic currently extends out of the CTA roadways onto public streets and may worsen as airport activity returns and grows;
- ◆ Curbside demand is unevenly distributed, especially during peak periods, creating concentrations of passengers that are not accommodated by the existing curbside system;
- ◆ As cumulative regional traffic increases, there will be less time certainty for airport users without easy access to the airport from the regional transit system; and
- ◆ The roadway system is not designed to efficiently accommodate security screening of vehicles entering the CTA.

In identifying and evaluating alternatives to the ground access system delineated in the LAX Master Plan, particularly as related to the related Yellow Light Projects, LAWA is seeking to improve the ground access system at LAX to better accommodate airport-related traffic, especially within the CTA. In particular, LAWA is seeking to:

- ◆ Design CTA roadway segments and curbside areas that reduce traffic "bottlenecks" and congestion;
  - ◆ Reduce the volume of private vehicles accessing the CTA by reconfiguring and developing airport facilities that allow for alternative drop off and pick up of passengers outside the CTA;
  - ◆ Reduce roadway congestion and improve performance and reliability of the airport ground transportation system by providing a grade-separated/dedicated transportation system that connects airport and transit facilities to the CTA; and
  - ◆ Integrate LAWA's ground access system improvements with regional transit facilities nearby, including the recently approved Metro Crenshaw/LAX Transit Corridor and Station.
3. Maintain LAX's Position as the Premier International Gateway in Supporting and Advancing the Economic Growth and Vitality of the Los Angeles Region

LAX serves a key role in the region's economy. This is particularly true relative to LAX's position as the international gateway for the western United States. According to a study completed in 2007 by the Los Angeles Economic Development Corporation (LAEDC), over the course of 2006 an average transoceanic flight traveling round-trip from LAX everyday added \$623 million in economic output and sustained 3,120 direct and indirect jobs in Southern California with \$156 million in wages. Given the continued growth in, and reliance on, new large aircraft such as the Airbus A380 by major airlines operating on those long-distance international routes, it is important that LAX be able to effectively accommodate those aircraft.

LAX is a major employer on both a local level and a regional level. According to the LAX Master Plan Final EIS/EIR, on-airport employment at LAX provided almost 59,000 jobs and, on a larger-scale, LAX-related regional employment provided over 400,000 jobs and \$60 billion in economic output.

In addition to being a major provider of permanent positions at the airport, LAX is also a major provider of construction jobs, particularly over the last several years through the economic recession. According to an economic impact analysis completed by the LAEDC in April 2011, construction of the airfield improvements (i.e., Crossfield Taxiway Project), terminal improvements (i.e., Bradley West Project), and other related improvement underway at the time, will create 39,900 jobs over the course of the program, or an average of 5,500 to 6,000 jobs per year. Of these, between 3,500 and 4,000 jobs will be in construction industries.

It is LAWA's desire to provide improvements that further enable LAX to support and advance the economic growth and vitality of the Los Angeles region.

4. Plan Improvements That Do Not Result in More Than 153 Passenger Gates at 78.9 MAP

In identifying and evaluating alternatives to the demolition of Terminals 1, 2, and 3, LAWA is seeking to maintain consistency with the LAX Master Plan design for a total of 153 passenger gates, which was based on a future passenger activity level of 78.9 million annual passengers (MAP) at LAX in 2015. The need to demolish portions of Terminals 1, 2, and 3 is due to the reconfiguration of the north airfield as contemplated in the LAX Master Plan. As described in Section 1.1 of the SPAS Draft EIR, the demolition of those terminals and the reconfiguration of the north airfield are both Yellow Light Projects being addressed in SPAS. The formulation of alternatives for reconfiguration of the north airfield includes various options for moving runways and associated taxiways northward or southward, each of which has implications relative to Terminals 1, 2, and 3. The formulation of potential alternatives to the demolition of Terminals 1, 2, and 3 is substantially influenced by the alternatives for the north airfield reconfiguration. While the extent to which terminals are reconfigured under each terminal alternative will vary depending on which airfield reconfiguration alternative it is linked to, LAWA is seeking to maintain

consistency between all terminal alternatives such that none of them results in more than 153 passenger gates at the projected passenger activity level of 78.9 MAP.

5. Enhance Safety and Security at LAX

During the preparation of the LAX Master Plan, which began in the 1990s, Alternative D was formulated following the events of September 11, 2001 and integrated into the CEQA review process for the LAX Master Plan as the "Enhanced Safety and Security Plan." In now identifying and evaluating alternatives to the Yellow Light Projects, which are key elements of the LAX Master Plan, LAWA is seeking to maintain the ability of the LAX Master Plan, if and as modified by the outcome of the SPAS process, to enhance safety and security at LAX.

6. Minimize Environmental Impacts on Surrounding Communities

LAX is a major international airport located within a very urbanized area, with established communities situated directly to the north, east, and south. These communities are affected to varying degrees by existing operations at the airport. Recognizing that these existing effects to the surrounding communities may change based on the alternatives being considered in SPAS, LAWA seeks to identify and apply ways to avoid, reduce, or minimize environmental impacts on surrounding communities.

7. Produce an Improvement Program that is Efficient, Sustainable, Feasible, and Fiscally Responsible

The nature and scope of improvements associated with the Yellow Light Projects are substantial. Each of those projects represents a major undertaking, requiring substantial funding; considerable planning, engineering, and design; and major construction activities. The costs for each of these major improvement projects would be financed primarily by Airport Improvement Program grants, Passenger Facility Charges (PFCs), and bond sales, all of which are subject to federal requirements regarding expenditure of airport funds, and which will also be utilized to finance other airport improvements outside of the scope of SPAS. The ability to successfully fund such improvements is, to a large extent, dependent on whether certain airport activity levels are reached. Additionally, the types of improvements associated with the Yellow Light Projects and the alternatives thereto represent major long-term investments in the airport's infrastructure that must be efficient and sustainable for many years. The construction of these major improvements poses the potential for major disruptions to existing airport operations. In identifying and evaluating alternatives to those Yellow Light Projects, LAWA is seeking to produce an improvement program that is efficient, sustainable, feasible, and fiscally responsible.

### **III. Procedural History**

In December 2004, the Los Angeles City Council approved the LAX Master Plan<sup>2</sup> and related entitlements for the future development of LAX. The LAX Master Plan provides the first major framework concept for new facilities at, and improvements to, the airport since 1984, and plans to accommodate a specified level of growth in passengers and cargo at LAX through the year 2015. The LAX Master Plan serves as a broad policy statement regarding the conceptual strategic planning framework for future improvements at LAX and working guidelines to be consulted by LAWA as it formulates and processes site-specific projects under the LAX Master Plan program. The LAX Master Plan provides for modernization of the runway and taxiway system, redevelopment of the terminal area, improvement of access to the airport, and enhancement of passenger safety, security, and convenience. Preparation of the LAX Master Plan included a thorough evaluation of the potential environmental effects associated with the four build alternatives, in accordance with federal and State of California environmental review procedures.

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<sup>2</sup> City of Los Angeles, Final Environmental Impact Report for Los Angeles International Airport (LAX) Proposed Master Plan Improvements, April 2004.

## California Environmental Quality Act Findings – LAX SPAS Project

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The environmental review process was conducted as a joint Environmental Impact Statement (EIS), under federal environmental law, and Environmental Impact Report (EIR), under California law. The EIS/EIR provided descriptions of the environmental conditions in and around LAX, analyzed the potential impacts of the improvements associated with each alternative on the physical environment, and recommended mitigation measures to address potential impacts. The LAX Master Plan Final EIR, was certified as complete by the Los Angeles City Council on December 7, 2004.

In January 2005, the City of El Segundo, the City of Inglewood, the City of Culver City, the County of Los Angeles, and the Alliance for a Regional Solution to Airport Congestion (Petitioners) filed petitions challenging the approval of the LAX Master Plan Program. In early 2006, the City of Los Angeles and Petitioners agreed to, and the court approved, a Stipulated Settlement of the subject lawsuits (Stipulated Settlement). Section V of the Stipulated Settlement requires LAWA to undertake a Specific Plan Amendment Study to fulfill the intent of Section 7.H of the LAX Specific Plan,<sup>3</sup> approved in December 2004 as part of the LAX Master Plan Program.<sup>4</sup> The LAX Specific Plan establishes zoning and land use regulations and procedures for the processing of future specific projects and activities anticipated under the LAX Master Plan Program to ensure consistency with the LAX Plan - the City of Los Angeles' general plan component for LAX - and to ensure the adequacy of environmental review and documentation of those individual projects. Section 7.H of the LAX Specific Plan requires completion of a Specific Plan Amendment Study prior to seeking a determination of compliance with the LAX Plan for the following projects:

- ◆ Development of the Ground Transportation Center (GTC), including the baggage tunnel, associated structures, and equipment;
- ◆ Construction of the Automated People Mover (APM) 2 from the GTC to the Central Terminal Area (CTA), including its stations and related facilities and equipment;
- ◆ Demolition of CTA Terminals 1, 2, and 3;
- ◆ North Runway re-configuration as contemplated in the LAX Master Plan, including center taxiways; and
- ◆ On-site road improvements associated with development of the GTC and construction of APM 2.

These projects are referred to as the "Yellow Light Projects."<sup>5</sup> Pursuant to the Stipulated Settlement, and in accordance with the LAX Specific Plan, LAWA is proceeding with the LAX SPAS process to, consistent with previous local and federal approvals, identify Specific Plan amendments that plan for the modernization and improvement of LAX in a manner that is designed for a practical capacity of 78.9 MAP while enhancing safety and security, minimizing environmental impacts on the surrounding communities, and creating conditions that encourage airlines to go to other airports in the region, particularly those owned and operated by LAWA.

LAWA circulated a Notice of Preparation (NOP) of an EIR for the LAX SPAS Project on March 12, 2008. The comment period concluded on June 18, 2008. Two public scoping meetings were conducted during the comment period. Subsequent to the circulation of the NOP, LAWA

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<sup>3</sup> City of Los Angeles, Los Angeles International Airport Specific Plan (Ordinance No. 176,345), September 29, 2004, as amended by Ordinance No. 179,148, August 24, 2007.

<sup>4</sup> As defined in the Stipulated Settlement, the "LAX Master Plan Program" means the entire program that comprises the approval by both the Los Angeles City Council and the Federal Aviation Administration (FAA) in its Record of Decision (ROD), and subsequent implementation of Alternative D (i.e., the approved LAX Master Plan), including the initial approval of all entitlements and other actions in conjunction with the Los Angeles City Council's approval of the LAX Master Plan. The LAX Master Plan Program includes subsequent LAWA, BOAC and/or City of Los Angeles approvals of all entitlements and other actions for any of the specific project components and activities that implement Alternative D.

<sup>5</sup> The Stipulated Settlement and the Specific Plan Amendment approved by BOAC and the Los Angeles City Council removed the West Satellite Concourse and associated APM segments from the original list of Yellow Light Projects. (Ordinance 179,148, August 24, 2007).

reconsidered and refined various options for the potential alternative designs, technologies and configurations to be evaluated in the SPAS and the SPAS EIR. A Revised NOP was circulated from October 8, 2010 to November 29, 2010 to inform public agencies and members of the public of the changes and describe the potential alternative designs, technologies and configurations being considered. Two additional public scoping meetings were conducted during the Revised NOP comment period. The notice of availability for the Draft EIR for public review was published in the Los Angeles Times and local newspapers, including the Daily Breeze and the Argonaut, and posted at the City and County Clerk's offices prior to release of the Draft EIR. Copies of the Draft EIR were placed in six local libraries and the EIR was available for review on thru the LAWA website. On July 27, 2012, the City of Los Angeles published the Draft EIR for a 75-day review period that ended on October 10, 2012. Three public meetings were held during the comment period, specifically, on August, 25, 28, and 29, 2012. In addition, a "virtual meeting" was available online between September 10 and October 10, 2012. The Final EIR for the LAX SPAS Project was published on January 25, 2013. The Final EIR for the LAX SPAS Project incorporates and responds to comments received on the Draft EIR and includes corrections and additions to the Draft EIR, as well as other Final EIR material. The EIR was prepared in accordance with CEQA, Public Resources Code §21000 et seq. and in compliance with CEQA Guidelines Title 14 California Code of Regulations §15000 et seq., as well as with the City of Los Angeles CEQA Guidelines. LAWA, the Board of Airport Commissioners (BOAC), and other decision-makers will use the Final EIR to inform their decisions on the LAX SPAS Project, as CEQA requires.

#### **IV. Environmental Impacts and Findings**

Pursuant to Public Resources Code §21081 and CEQA Guidelines §15091, no public agency shall approve or carry out a project for which an EIR has been certified which identifies one or more significant effects on the environment that would occur if the project is approved or carried out unless the public agency makes one or more of the following findings with respect to each significant impact:

1. Changes or alterations have been required in, or incorporated into, the project which mitigate or avoid the significant effects on the environment.
2. Those changes or alterations are within the responsibility and jurisdiction of another public agency and have been, or can and should be, adopted by that other agency.
3. Specific economic, legal, social, technological, or other considerations, including considerations for the provision of employment opportunities for highly trained workers, make infeasible the mitigation measures or alternatives identified in the environmental impact report.

BOAC has made one or more of these specific written findings regarding each significant impact associated with the Project. Those findings are presented below, along with a presentation of facts in support of the findings. Concurrent with the adoption of these findings, the BOAC adopts the Mitigation Monitoring and Reporting Program (CEQA Guidelines §15097(a)).

##### **A. Findings on Less than Significant Impacts**

Based on the issue area assessment in the EIR, the BOAC has determined that the LAWA Staff-Recommended Alternative (as described above and with implementation of applicable LAX Master Plan commitments and mitigation measures identified in the SPAS Final EIR) will have less than significant impacts for several issues as summarized in the **Table SF-4** below. For each of the impacts set forth below, the BOAC adopts and incorporates by reference the discussion of each of the impacts in the detailed issue area analyses in Chapter 4 of the SPAS Draft EIR and Section 2.3 of Part II of the SPAS Final EIR and the cumulative impacts discussed in Chapter 5 of the SPAS Draft EIR and Section 2.4 of Part II of the SPAS Final EIR as the rationale for the conclusion that there would be no impact or less than significant impacts.

**California Environmental Quality Act Findings – LAX SPAS Project**

**Table SF-4**

**Less Than Significant Impacts - LAWA Staff-Recommended Alternative**

Environmental Impacts	Impact Determination	Mitigation Measures	Impacts after Mitigation
<b>AESTHETICS</b>			
Cause the direct or indirect introduction of features that would detract from the existing valued aesthetic quality of a neighborhood, community, or localized area by conflicting/contrasting with important aesthetic elements or the quality of the area (such as a theme, style, setbacks, density, massing, etc.) or cause an inconsistency with applicable design guidelines	Less than significant	Implementation of LAX Master Plan Commitments DA-1, DA-2, LU-2, and LU-4, and Master Plan Mitigation Measure MM-DA-1; no new mitigation specific to SPAS is required	Less than significant
Cause the direct or indirect removal of one or more features that contribute to the valued aesthetic character or image of the neighborhood, community, or localized area such as demolition of structures, street trees, a strand of trees, or other landscape features that contribute positively to the valued visual image of a community.	Less than significant	Implementation of LAX Master Plan Commitments DA-1, DA-2, LU-2, and LU-4, and Master Plan Mitigation Measure MM-DA-1; no new mitigation specific to SPAS is required	Less than significant
With respect to light emissions and glare, a significant impact would occur if the direct and indirect changes in the environment that may be caused by the LAWA Staff-Recommended Alternative would result in one of the following future conditions: <ul style="list-style-type: none"> <li>◆ A change in lighting or lighting intensity such that light would spill off the project site and affect light-sensitive areas; or</li> <li>◆ A substantial new source of glare, or a change in the built environment, which would adversely affect day or nighttime views in adjacent areas sensitive to glare.</li> </ul>	Less than significant	Implementation of LAX Master Plan Commitments LI-2, LI-3 and DA-1, and LAX Master Plan Mitigation Measure MM-DA-1; no new mitigation specific to SPAS is required	Less than significant
<b>BIOLOGICAL RESOURCES</b>			
Cause the direct or indirect conflict with the provisions of an adopted HCP, Natural Communities Conservation Plan, or other approved local, regional, or state habitat conservation plan	Less than significant	No mitigation is required	Less than significant
Cause the direct or indirect substantial adverse effect on the El Segundo Blue butterfly, its habitat, or the substantial loss of individuals or the substantial reduction of existing habitat of a locally-designated species or a substantial reduction in a locally-designated natural habitat or plant community within the study area.	Less than significant	Implementation of LAX Master Plan Mitigation Measures MM-BC-1, MM-ET-3 and MM-ET-4; no new mitigation specific to SPAS is required	Less than significant
Cause the direct or indirect substantial interference with wildlife movement/migration corridors.	Less than significant	No mitigation is required	Less than significant
Cause the direct or indirect conflict with any local policies or ordinances protecting biological resources, such as the City of Los Angeles Protected Tree Ordinance.	Less than significant	Implementation of LAX Master Plan Mitigation Measure MM-BC-3; no new mitigation specific to SPAS is required	Less than significant
<b>HUMAN HEALTH RISK ASSESSMENT</b>			
Cause the direct or indirect increase in incremental cancer risk greater than, or equal to, 10 in one million (10 x 10 <sup>-6</sup> ) for potentially exposed off-site workers, residents, or school	Less than significant	Implementation of LAX Master Plan Mitigation Measures and Community Benefits Agreement Measures described in Sections 4.2.5 and	Less than significant and beneficial

**California Environmental Quality Act Findings – LAX SPAS Project**

**Table SF-4**

**Less Than Significant Impacts - LAWA Staff-Recommended Alternative**

<b>Environmental Impacts</b>	<b>Impact Determination</b>	<b>Mitigation Measures</b>	<b>Impacts after Mitigation</b>
children.		4.7.1.5 of the SPAS Draft EIR; no new mitigation specific to SPAS is required	
Cause the direct or indirect total incremental chronic hazard index greater than, or equal to, one for any target organ system at any receptor location.	Less than significant	Implementation of LAX Master Plan Mitigation Measures and Community Benefits Agreement Measures described in Sections 4.2.5 and 4.7.1.5 of the SPAS Draft EIR; no new mitigation specific to SPAS is required	Less than significant
Cause the direct or indirect exceedance of Permissible Exposure Limits - Time Weighted Average or Threshold Limit Values for workers.	Less than significant	Implementation of LAX Master Plan Mitigation Measures and Community Benefits Agreement Measures described in Sections 4.2.5 and 4.7.1.5 of the SPAS Draft EIR; no new mitigation specific to SPAS is required	Less than significant
<b>SAFETY</b>			
Cause the direct or indirect construction of runways within 10,000 feet of a solid waste landfill.	Less than significant	No mitigation is required	Less than significant
Cause the direct or indirect construction of facilities or implementation of operational conditions that would serve as attractants to birds.	Less than significant	No mitigation is required	Less than significant
Cause a direct or indirect compromise in aviation safety or an aviation safety hazard for people in the project area.	Less than significant	No mitigation is required	Less than significant
<b>HAZARDOUS MATERIALS</b>			
Cause a direct or indirect contamination of soil or groundwater or interference with clean up of sites that are currently undergoing soil or groundwater remediation.	Less than significant	Implementation of LAX Master Plan Commitments HM-1 and HM-2; no new mitigation specific to SPAS is required	Less than significant
Cause direct or indirect unsafe exposure of workers to hazardous materials from contaminated soils and/or groundwater encountered during construction.	Less than significant	Implementation of LAX Master Plan Commitments HM-1 and HM-2; no new mitigation specific to SPAS is required	Less than significant
Cause a direct or indirect impairment of the effective implementation of emergency response activities.	Less than significant	Implementation of LAX Master Plan Commitments C-1, ST-9, ST-12, ST-14, ST-17, ST-18, ST-19, ST-21, and ST-22; no new mitigation specific to SPAS is required	Less than significant
<b>HYDROLOGY/WATER QUALITY</b>			
Cause a direct or indirect substantial alteration of the existing drainage pattern of the site in a manner which would result in substantial erosion or siltation on- or off-site.	Less than significant	Implementation of existing regulatory requirements; no new mitigation specific to SPAS is required	Less than significant
Cause a direct or indirect increase load of a pollutant of concern delivered to a receiving water body by surfacewater runoff ( <i>Dry Weather Flows</i> )	Less than significant	No mitigation is required	Less than significant
Cause a direct or indirect increase load of a pollutant of concern delivered to a receiving water body by surfacewater runoff. ( <i>Construction Impacts</i> )	Less than significant	No mitigation is required	Less than significant
<b>LAND USE AND PLANNING – PLAN CONSISTENCY</b>			

**California Environmental Quality Act Findings – LAX SPAS Project**

**Table SF-4**

**Less Than Significant Impacts - LAWA Staff-Recommended Alternative**

<b>Environmental Impacts</b>	<b>Impact Determination</b>	<b>Mitigation Measures</b>	<b>Impacts after Mitigation</b>
Cause a direct or indirect conflict with any applicable land use plan, policy, or regulation (including, but not limited to, the general plan, specific plan, local coastal program or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect.	Less than significant	Implementation of LAX Master Plan Commitments LU-2 and RBR-1, and Master Plan Mitigation Measures MM-RBR-1 and MM-RBR-2, as well as the necessary plan amendments associated with the project approval; no new mitigation specific to SPAS is required	Less than significant
<b>AIRCRAFT NOISE – NIGHTTIME AWAKENINGS</b>			
Cause a direct or indirect substantial increase in the probability of nighttime awakenings.	Less than significant	No mitigation is required	Less than significant
<b>ROAD TRAFFIC NOISE</b>			
Cause direct or indirect roadway traffic from a SPAS alternative that causes the ambient noise level measured at the property line of affected uses to increase by 3 dBA or more in CNEL.	Less than significant	No mitigation is required	Less than significant
<b>CONSTRUCTION TRAFFIC NOISE</b>			
Cause direct or indirect construction traffic that causes the ambient noise level measured at the property line of affected uses to increase by 3 dBA or more in CNEL.	Less than significant	Implementation of LAX Master Plan Commitments ST-16, ST-18, and ST-22; no new mitigation specific to SPAS is required	Less than significant
<b>TRANSIT NOISE AND VIBRATION</b>			
Cause direct or indirect transit operations, associated with the APM, that causes the ambient noise level measured at the affected noise-sensitive uses to increase by 3 dBA or more in CNEL.	Less than significant	No mitigation is required	Less than significant
Cause direct or indirect vibration or ground-borne noise levels to exceed the FTA recommended maximum acceptable level threshold of 72 VdB for residences and buildings where people normally sleep, including hotels.	Less than significant	No mitigation is required	Less than significant
<b>LAW ENFORCEMENT</b>			
Cause a direct or indirect increase in on-airport population that would require a substantial increase in law enforcement services to maintain adequate services or would require new or expanded facilities without providing adequate mechanisms for addressing these additional needs, related to airfield improvements, terminal improvements, and construction.	Less than significant	Implementation of LAX Master Plan Commitments LE-1 and LE-2; no new mitigation specific to SPAS is required	Less than significant
Cause direct or indirect changes, through increased traffic congestion, changes in circulation, expansion of airport property, or the location of new land uses, and increase in emergency response times beyond the limits required by applicable jurisdictions within the study area related to airfield improvements, terminal modifications, and construction.	Less than significant	Implementation of LAX Master Plan Commitments C-1, ST-9, ST-12, ST-14, ST-17, ST-18, ST-19, ST-21, and ST-22; no new mitigation specific to SPAS is required	Less than significant
<b>FIRE PROTECTION</b>			
Cause a direct or indirect change that would result in restricted emergency access, increased response times, or extended station response distances beyond the standards maintained by the agencies serving LAX and the surrounding communities.	Less than significant	Implementation of LAX Master Plan Commitments FP-1, PS-1, PS-2, C-1, ST-9, ST-12, ST-14, ST-17, ST-18, ST-19, ST-21, and ST-22; no new mitigation specific to SPAS is required	Less than significant
Cause a direct or indirect need for a new fire station or the expansion, consolidation, or	Less than significant	Implementation of LAX Master Plan Commitments FP-1, PS-1, PS-2, C-1,	Less than significant

## California Environmental Quality Act Findings – LAX SPAS Project

Table SF-4

Less Than Significant Impacts - LAWA Staff-Recommended Alternative

Environmental Impacts	Impact Determination	Mitigation Measures	Impacts after Mitigation
relocation of an existing facility to maintain adequate service levels.		ST-9, ST-12, ST-14, ST-17, ST-18, ST-19, ST-21, and ST-22; no new mitigation specific to SPAS is required	
<b>ON-AIRPORT TRANSPORTATION: PARKING</b>			
Cause the airport's future (2025) parking supply to not be sufficient to accommodate the airport's estimated future (2025) public parking demand for the alternative.	Less than significant	No mitigation is required	Less than significant
<b>ENERGY</b>			
Cause a direct or indirect exceedance in regional electricity or natural gas supplies due to project-related electricity and natural gas demand.	Less than significant	Implementation of LAX Master Plan Commitment E-1; no new mitigation specific to SPAS is required	Less than significant
Cause a direct or indirect substantial increase in project-related fuel consumption relative to available supply.	Less than significant	Implementation of LAX Master Plan Commitment E-1; no new mitigation specific to SPAS is required	Less than significant
<b>SOLID WASTE</b>			
Cause a direct or indirect net increase in project-related solid waste generation that could not be accommodated by existing or permitted regional landfills or other disposal facilities.	Less than significant	Implementation of LAX Master Plan Commitment SW-1; no new mitigation specific to SPAS is required	Less than significant
Cause direct or indirect conflicts with solid waste policies and objectives intended to help achieve state or local waste diversion goals.	Less than significant	Implementation of LAX Master Plan Commitment SW-1; no new mitigation specific to SPAS is required	Less than significant
<b>WASTEWATER GENERATION</b>			
Cause a direct or indirect exceedance in the capacities of regional wastewater treatment facilities due to project-related wastewater generation.	Less than significant	Implementation of LAX Master Plan Commitment W-2; new no mitigation specific to SPAS is required	Less than significant
<b>WATER SUPPLY</b>			
Cause a direct or indirect exceedance of regional water supply due to project-related water demand.	Less than significant	Implementation of LAX Master Plan Commitments W-1 and W-2; no new mitigation specific to SPAS is required	Less than significant
<b>CUMULATIVE IMPACTS</b>			
<b>Aesthetics: Light and Glare</b>	Not cumulatively considerable	No mitigation is required	Not cumulatively considerable
<b>Coastal Resources</b>	No impact	No mitigation is required	No impact
<b>Human Health Risk Assessment - Cancer Risk and Chronic Non-Cancer Health Hazard</b>	Not cumulatively considerable	No mitigation is required	Not cumulatively considerable
<b>Land Use and Planning: Plan Consistency</b>	Not cumulatively considerable	No mitigation is required	Not cumulatively considerable
<b>Aircraft Noise – Nighttime Awakenings</b>	Not cumulatively considerable	No mitigation is required	Not cumulatively considerable
<b>Transit Noise and Vibration</b>	Not cumulatively considerable	No mitigation is required	Not cumulatively considerable
<b>Fire Protection</b>	Not cumulatively considerable	No mitigation is required	Not cumulatively considerable
<b>Law Enforcement</b>	Not cumulatively considerable	No mitigation is required	Not cumulatively considerable
<b>Energy</b>	Not cumulatively considerable	No mitigation is required	Not cumulatively considerable
<b>Wastewater Generation</b>	Not cumulatively considerable	No mitigation is required	Not cumulatively considerable
<b>Water Supply</b>	Not cumulatively considerable	No mitigation is required	Not cumulatively considerable

Findings: Based on substantial evidence in the administrative record, including Chapter 4 of the SPAS Draft EIR and Section 2.3 of Part II of the SPAS Final EIR, and the cumulative impacts discussed in Chapter 5 of the SPAS Draft EIR and Section 2.4 of Part II of the SPAS Final EIR, the BOAC hereby finds and determines that the aforementioned impacts associated with Aesthetics, Biological Resources, Human Health Risk Assessment, Safety, Hazardous Materials, Hydrology, Land Use and Planning: Plan Consistency, Aircraft Noise – Nighttime Awakenings, Road Traffic Noise, Construction Traffic Noise, Transit Noise and Vibration, On-Airport Transportation: Parking, Fire Protection, Energy, Solid Waste, Wastewater Generation, and Water Supply are less than significant.

Based on substantial evidence in the administrative record, including Chapter 5 of the SPAS Draft EIR and Section 2.4 of Part II of the SPAS Final EIR, the BOAC hereby finds and determines that there are no cumulative impacts associated with Coastal Resources and that the Project's contribution to cumulative impacts associated with Aesthetics: Light and Glare, Human Health Risk – Cancer Risk and Chronic Non-Cancer Hazard, Land Use and Planning: Plan Consistency, Aircraft Noise – Nighttime Awakenings, Transit Noise and Vibration, Fire Protection, Law Enforcement, Energy, Wastewater Generation, and Water Supply are less than cumulatively considerable.

Because these impacts are less than significant and the Project's contribution to cumulative impacts is less than cumulatively considerable, mitigation beyond that already required and approved as part of the LAX Master Plan, which will be included in the Mitigation Monitoring and Reporting Program for the Project, is not required.

Additionally, the Initial Study included in the October 2010 LAX SPAS EIR Notice of Preparation (NOP), included as Appendix A, *Notice of Preparation/Scoping*, of the SPAS Draft EIR, determined that effects on the following resource areas would result in no impact, or less than significant impacts: agricultural resources, geology and soils, mineral resources, population/housing, and recreation. The BOAC finds that these impacts either would not occur or are less than significant and adopts the analysis contained in the NOP as the rationale for this finding.

**B. Findings on Impacts that Will be Reduced to Below the Level of Significance with Project-Specific Mitigation**

The BOAC finds that the following environmental impacts can and will be mitigated to below a level of significance based upon the implementation of the SPAS (Project-specific) mitigation measures in the EIR. These findings are based on the discussion of impacts in the detailed issue area analyses in Chapter 4 of the SPAS Draft EIR and Section 2.3 of Part II of the SPAS Final EIR, and the cumulative impacts discussed in Chapter 5 of the SPAS Draft EIR and Section 2.4 of Part II of the SPAS Final EIR. An explanation of the rationale for each finding is presented below.

**1) Aesthetic Resource**

Impact: Cause a direct or indirect obstruction, interruption, or diminishment of a valued focal or panoramic view or view from any designated scenic highway, corridor, or parkway.

Description of Effects: As discussed in Section 4.1 of the SPAS Draft EIR and Section 2.3.1 of Part II of the SPAS Final EIR, with the exception of the development of the APM within the CTA, which has the potential to result in significant impacts to views of the Theme Building within the CTA, and with implementation of LAX Master Plan Commitments, improvements associated with the LAWA Staff-Recommended Alternative would not occur in areas of high aesthetic quality and would not remove features that would change the aesthetic character of the area. The addition of the APM within the CTA, while it would be visually noticeable, would introduce a new, modern feature within the CTA that would be consistent with the airport's image as a Gateway to the City

of Los Angeles. However, views of the Theme Building are valued focal views within the CTA. The APM within the CTA, although conceptual, may impact valued focal views of the Theme Building from different vantage points within the CTA. Mitigation Measure MM-HA (SPAS)-2, Preservation of Historic Resources: Theme Building and Setting (detailed in Section 2.3.1.2 of Part II of the SPAS Final EIR), requires that, consistent with the Secretary of the Interior's Standards for the Treatment of Historic Properties, the historic character of the Theme Building and Setting be retained and preserved. Therefore, any changes to the Theme Building or to features and spatial relationships of the CTA that could alter the Setting of the Theme Building that contribute to its eligibility will be avoided, protected, and maintained in a manner consistent with the Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitation. Therefore, with implementation with MM-HA (SPAS)-2, impacts to views associated with the APM within the CTA will be reduced to a level that is less than significant.

#### Cumulative Aesthetic Impacts

Regarding cumulative impacts as discussed in Section 5.5.1 of the SPAS Draft EIR and Section 2.4.1 of Part II of the SPAS Final EIR, with the exception of the Airport Metro Connector Project, the cumulative projects would not affect views from a designated scenic highway, corridor, or parkway, or obstruct/diminish other valued focal or panoramic views. Elevated elements related to the Airport Metro Connector Project could affect views of the Theme Building within the CTA. Although the Airport Metro Connector Project may contribute to a cumulatively significant impact on views of the Theme Building, in general, improvements within the CTA under the LAWA Staff-Recommended Alternative would take place on the airfield and north of Sky Way, and would not obstruct or degrade views of the Theme Building. In addition, with implementation of Mitigation Measure MM-HA (SPAS)-2, Preservation of Historic Resources: Theme Building and Setting, the contribution of the LAWA Staff-Recommended Alternative to cumulative impacts will not be cumulatively considerable.

Findings: Based on substantial evidence in the administrative record, including Section 4.1 of the SPAS Draft EIR and Sections 2.3.1 and 2.4.1 of Part II of the SPAS Final EIR, the BOAC hereby finds and determines that changes or alterations have been required in, or are incorporated into, the project which avoid or substantially lessen the aforementioned significant environmental effects related to aesthetics, as may occur from implementation of the LAX SPAS Project. Specifically, with implementation of commitments and mitigation already required by the LAX Master Plan, as well as LAX SPAS Project-specific Mitigation Measure MM-HA (SPAS)-2, Preservation of Historic Resources: Theme Building and Setting, the Project will not affect views from a designated scenic highway, corridor, or parkway or obstruct/diminish other valued focal or panoramic views, impacts on views will be less than significant, for the reasons explained above.

With the mitigation described above, the Project's contribution to cumulative impacts to the aforementioned views will be less than cumulatively considerable.

Rationale: Implementation of Project-specific Mitigation Measure MM-HA (SPAS)-2, Preservation of Historic Resources: Theme Building and Setting, includes consultation with a qualified historic preservation consultant to review the compatibility of new design and construction components adjacent to the Theme Building for conformance with Secretary of the Interior's Standards that provide guidelines for sensitively and respectfully managing changes to the defining characteristics of a historic property's site and environment. Therefore, implementation of Project-specific Mitigation Measure MM-HA (SPAS)-2 will reduce impacts to views associated with the APM within the CTA to a level that is less than significant, and will also reduce the Project's contribution to cumulative impacts to less than cumulatively considerable.

## **2) Biological Resources**

Impact: Significant impacts to biological resources, including endangered, rare, or threatened species of flora and fauna, would occur if direct and indirect changes in the environment, which

may be caused by the LAWA Staff-Recommended Alternative, result in one or more of the following future conditions:

- ◆ A substantial reduction in federally-designated critical habitat, locally-designated natural communities including state-designated sensitive habitats, Environmentally Sensitive Habitat Areas (ESHAs), and habitat preservation areas designated pursuant to local ordinances, including a substantial reduction in the Los Angeles/EI Segundo Dunes, including the Habitat Restoration Area (designated as such by City of Los Angeles Ordinance 167,940 and the Los Angeles Airport/EI Segundo Dunes Specific Plan).
- ◆ Interference with habitat (e.g., from the introduction of noise, light) such that normal species behaviors are disturbed to a degree that results in substantial adverse impacts to sensitive species.
- ◆ A substantial adverse effect, through the loss of individuals or the reduction of existing habitat, on a state- or federally-listed endangered, threatened, rare, protected, or candidate species; sensitive or special status species in local or regional plans, policies or regulations; species that meet the criteria for endangered, rare or threatened under State CEQA Guidelines Section 15380(b); or a SSC.
- ◆ Substantial interference with nesting during the breeding season (March 15 to August 15) for any avian species afforded protection under MBTA or Fish and Game Code Sections 3503 or 3503.5.
- ◆ Conflict with any local policies or ordinances protecting biological resources, such as the City of Los Angeles Protected Tree Ordinance.

Description of Effects: As discussed in Section 4.3 of the SPAS Draft EIR and Section 2.3.3 of Part II of the SPAS Final EIR, and summarized below, habitat/vegetation associations, sensitive plant species, and wildlife have the potential to exist at the Project site.

### Habitat/Vegetation Associations

Construction of the north airfield improvements under the LAWA Staff-Recommended Alternative would result in the permanent loss of 2.69 acres of Disturbed Southern Dune Scrub, which is a state-designated sensitive habitat with a global ranking of G1 and a state ranking of S1.1, indicating that there are less than 2,000 acres throughout both its global and state range, and that it is very threatened. However, the Disturbed Southern Dune Scrub associated with the north airfield occurs in a long, narrow strip covering approximately 2.69 acres along Westchester Parkway, is surrounded by developed and ruderal areas, and is highly disturbed, having been previously developed for residential use. Because this area is highly disturbed, isolated, colonized by invasive, non-native species, and provides greatly diminished habitat value relative to the Disturbed Southern Dune Scrub in the Dunes, it is not consistent with the definition of the state-designated sensitive habitat (i.e., Southern Dune Scrub), despite the presence of indicator species. Nevertheless, this impact is considered significant. To address this impact, Mitigation Measure MM-BIO (SPAS)-14, Replacement of Habitat Units, described in Section 4.3.7 of the Draft EIR and Section 2.3.3.2 of Part II of the Final EIR, is proposed. This measure will provide compensatory mitigation for this loss of habitat. With implementation of Mitigation Measure MM-BIO (SPAS)-14, impacts to Disturbed Southern Dune Scrub habitat in this area will be less than significant.

Under the LAWA Staff-Recommended Alternative, relocation of navigational aids and construction of new service roads would result in permanent impacts to 0.89 acre of undeveloped area within the Los Angeles/EI Segundo Dunes, including impacts to 0.54 acre of Disturbed Southern Fore-dune, and 0.35 acre of ruderal. Southern Fore-dune is a state-designated sensitive habitat with a global ranking of G2 and a state ranking of S2.1, indicating that there are 2,000-10,000 acres throughout both its global and state range, and that it is very threatened. Permanent loss of 0.54 acre of Disturbed Southern Fore-dune would occur in two locations: within the Habitat Restoration Area (0.19 acre) and north of the Habitat Restoration Area (0.35 acre).

Given the relative rarity of Southern Foredune, and because these areas are contiguous with other habitat, thus providing better habitat quality and connectivity than isolated patches, the permanent loss of 0.54 acre of Disturbed Southern Foredune constitutes a substantial reduction in state-designated sensitive habitat, and would be a significant impact. Moreover, temporary impacts associated with minor grading and construction-related access roads would occur within Disturbed Southern Foredune and would be significant. The permanent loss of 0.35 acre of ruderal vegetation for new navigational aids and associated service roads, as well as additional temporary construction impacts, would not be significant, as ruderal vegetation is not a state- or locally-designated sensitive habitat. To address impacts to state-designated habitats associated with the relocation of navigational aids within the Dunes, Mitigation Measure MM-BIO (SPAS)-1, Replacement of State Designated Habitats, described in Section 4.3.7 of the Draft EIR and Section 2.3.3.2 of Part II of the Final EIR, is proposed. This measure will provide for restoration of habitat within the Dunes. With implementation of Mitigation Measure MM-BIO (SPAS)-1, impacts to sensitive habitats will be less than significant.

The LAWA Staff-Recommended Alternative would result in the loss of 21.06 habitat units (refer to Table SRA-2.3.3-3 of Part II of the Final EIR). In accordance with the LAX Master Plan mitigation program for biological resources, specifically, LAX Master Plan Mitigation Measure MM-BC-8, Replacement of Habitat Units, the loss of habitat units will be mitigated through a habitat replacement program. Mitigation Measure MM-BIO (SPAS)-14, Replacement of Habitat Units, described in Section 4.3.7 of the Draft EIR and Section 2.3.3.2 of Part II of the Final EIR, outlines the habitat replacement program as it would apply to the LAWA Staff-Recommended Alternative. Pursuant to this program, a habitat value of 0.8 would apply to the replacement acreage. Therefore, 26.33 acres would be required to mitigate the loss of habitat units and will reduce impacts to habitat/vegetation associations to less than significant.

#### *Sensitive Plants*

As discussed in Section 4.3 of the Draft EIR and Section 2.3.3 of Part II of the Final EIR, six sensitive plant species are either known to occur or have potential to occur in the biological resources study area, within the navigational aids relocation area and/or construction staging areas under the LAWA Staff-Recommended Alternative. The sensitive plant species assumed to have the potential to occur within the Project site are as follows: Lewis' evening primrose; California spineflower; south coast branching phacelia; a subspecies of mesa horkelia; a variety of Orcutt's pincushion; and, southern tarplant. The relocation of navigational aids under the LAWA Staff-Recommended Alternative, the construction of improvements in the north airfield, and the disturbance associated with the Construction Staging Areas B, C, and D would result in habitat alteration or removal and may result in a significant impact to these species, depending on the total population size present on-site and the percentage of the population that would be affected. As the number and distribution of the species varies from year to year and these fluctuations can be extreme, and the presence or absence of some species was not able to be determined during preparation of the EIR, it is assumed that significant impacts to sensitive plant species would occur as a result of construction of the LAWA Staff-Recommended Alternative. To address impacts to sensitive plant species, a series of mitigation measures that detail requirements specific to each species is proposed, as described in Section 4.3.7 of the Draft EIR and Section 2.3.3.2 of Part II of the Final EIR, including MM-BIO (SPAS)-2, Conservation of Floral Resources: South Coast Branching Phacelia, MM-BIO (SPAS)-3, Conservation of Floral Resources: Lewis' Evening Primrose, MM-BIO (SPAS)-4, Conservation of Floral Resources: California Spineflower, MM-BIO (SPAS)-5, Conservation of Floral Resources: Mesa Horkelia, MM-BIO (SPAS)-6, Conservation of Floral Resources: Orcutt's Pincushion, and MM-BIO (SPAS)-7, Conservation of Floral Resources: Southern Tarplant. With implementation of these mitigation measures, impacts to sensitive plants will be less than significant.

### *Sensitive Wildlife*

Six sensitive wildlife species have been detected in and around the biological resources study area during surveys conducted for the LAX Master Plan EIR: Riverside fairy shrimp, El Segundo blue butterfly, western spadefoot toad, loggerhead shrike, western burrowing owl, and San Diego black-tailed jackrabbit. Riverside fairy shrimp and western spadefoot toad are believed extirpated from the biological resources study area, as discussed in Section 4.3.3.2 of the Draft EIR, and are not discussed further in these findings.

Relocation of navigational aids in the Los Angeles/El Segundo Dunes associated with implementation of the LAWA Staff-Recommended Alternative would result in permanent impacts to at least 0.89 acre of undeveloped area in the Los Angeles/El Segundo Dunes, of which approximately 0.54 acre consists of state-designated sensitive habitat (Disturbed Southern Dune Scrub), and additional temporary impacts associated with project construction. The undeveloped areas in the Los Angeles/El Segundo Dunes support several species of sensitive arthropods and gastropods, silvery legless lizard, and coast horned lizard. Construction activities could result in the loss of individuals through direct take of sensitive arthropod and gastropod species, the silvery legless lizard, and the coast horned lizard, which is considered to be a significant impact. Various detection methods are available to locate individuals and would be used to find and relocate them, in order to reduce the level of take. With implementation of Mitigation Measure MM-BIO (SPAS)-8, Conservation of Faunal Resources: Sensitive Reptiles, Arthropods, and Gastropods, as described in Section 4.3.7 of the Draft EIR and Section 2.3.3.2 of Part II of the Final EIR, impacts to these sensitive wildlife species will be less than significant.

Loggerhead shrike may occasionally visit or forage in the AOA, but is not expected to nest within the AOA. If loggerhead shrikes were to nest within a construction or staging area, implementation could have a significant impact on this species through interference with nesting activity. With implementation of Mitigation Measure MM-BIO (SPAS)-9, Conservation of Faunal Resources: Loggerhead Shrike, described in Section 4.3.7 of the Draft EIR and Section 2.3.3.2 of Part II of the Final EIR, impacts to this sensitive wildlife species associated with use of construction or staging areas will be less than significant.

Burrowing owl may occasionally occur on the edges of the AOA as wintering individuals. If burrowing owls are present in areas associated with construction, including the construction staging areas, Argo Drainage Channel, the AOA east of Pershing Drive, or the navigational aids relocation area in the Los Angeles/El Segundo Dunes, project implementation would have a significant impact on this species. With implementation of Mitigation Measure MM-BIO (SPAS)-10, Conservation of Faunal Resources: Burrowing Owl, described in Section 4.3.7 of the Draft EIR and Section 2.3.3.2 of Part II of the Final EIR, impacts to this sensitive wildlife species will be less than significant.

Use of proposed Construction Staging Areas B, C, D, and F under the LAWA Staff-Recommended Alternative would have the potential to result in the removal of mature trees used for nesting by raptors or birds. Such removal would have the potential to result in impacts to nesting birds or raptors protected under the MBTA and/or California Fish and Game Code Sections 3503, 3503.5, 3511, and 3513. The LAX Master Plan Final EIR concluded that removal of any mature ornamental trees would be a significant impact requiring replacement with native trees at a 2:1 ratio because the trees may provide nesting sites for raptors. A majority of the ornamental trees in the study area are not the types typically preferred by common raptor species in Southern California, with the exception of eucalyptus trees, which may be used by red-tailed and red-shouldered hawks, and palm trees, which may be used by American kestrels. If mature trees in the study area are documented to support nesting, removal of mature trees would be a significant impact. Under the LAWA Staff-Recommended Alternative, construction activities may result in substantial interference with nesting during the breeding season (March 15 to August 15) through either close proximity of construction activity or removal of vegetation that supports avian species afforded protection under the MBTA or Fish and Game Code 3503 or 3503.5. Such

impacts would be significant. With implementation of Mitigation Measures MM-BIO (SPAS)-11, Conservation of Faunal Resources: Mature Tree Replacement - Nesting Raptors, and MM-BIO (SPAS)-12, Conservation of Faunal Resources: Nesting Birds/Raptors, described in Section 4.3.7 of the Draft EIR and Section 2.3.3.2 of Part II of the Final EIR, impacts to nesting birds and raptors will be less than significant.

The following 13 Project-specific mitigation measures (detailed in Section 2.3.3.2 of Part II of the SPAS Final EIR) will address the potential significant impacts to state-designated sensitive habitats; habitat units; sensitive plants; and sensitive wildlife, including nesting birds/raptors and mature trees utilized by nesting raptors, associated with the LAWA Staff-Recommended Alternative:

- ◆ MM-BIO (SPAS)-1. Replacement of State-Designated Sensitive Habitats.
- ◆ MM-BIO (SPAS)-2. Conservation of Floral Resources: South Coast Branching Phacelia.
- ◆ MM-BIO (SPAS)-3. Conservation of Floral Resources: Lewis' Evening Primrose.<sup>6</sup>
- ◆ MM-BIO (SPAS)-4. Conservation of Floral Resources: California Spineflower.
- ◆ MM-BIO (SPAS)-5. Conservation of Floral Resources: Mesa Horkelia.
- ◆ MM-BIO (SPAS)-6. Conservation of Floral Resources: Orcutt's Pincushion.
- ◆ MM-BIO (SPAS)-7. Conservation of Floral Resources: Southern Tarplant.
- ◆ MM-BIO (SPAS)-8. Conservation of Faunal Resources: Sensitive Reptiles, Arthropods, and Gastropods.<sup>7</sup>
- ◆ MM-BIO (SPAS)-9. Conservation of Faunal Resources: Loggerhead Shrike.<sup>8</sup>
- ◆ MM-BIO (SPAS)-10. Conservation of Faunal Resources: Burrowing Owl.<sup>9</sup>
- ◆ MM-BIO (SPAS)-11. Conservation of Floral Resources: Mature Tree Replacement - Nesting Raptors.
- ◆ MM-BIO (SPAS)-12. Conservation of Faunal Resources: Nesting Birds/Raptors.
- ◆ MM-BIO (SPAS)-14. Replacement of Habitat Units.

Operation and maintenance of the facilities associated with the LAWA Staff-Recommended Alternative will not result in significant impacts to biological resources.

#### *Cumulative Biological Resources Impacts*

With implementation of mitigation described in Section 4.3.7 of the Draft EIR and Section 2.3.3.2 of Part II of the Final EIR, cumulative impacts to sensitive wildlife species, including nesting birds/raptors, and mature trees utilized by nesting raptors, as a result of the LAWA Staff-Recommended Alternative in combination with cumulative projects identified in Chapter 5, *Cumulative Impacts*, of the Draft EIR, will not be cumulatively considerable and therefore less than significant.

Findings: Based on substantial evidence in the administrative record, including Section 4.3 of the SPAS Draft EIR and Section 2.3.3 of Part II of the SPAS Final EIR, the BOAC hereby finds and determines that changes or alterations have been required in, or are incorporated into, the project

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<sup>6</sup> For purposes of the LAWA Staff-Recommended Alternative, this measure satisfies the intent of LAX Master Plan Mitigation Measure MM-BC-2.

<sup>7</sup> For purposes of the LAWA Staff-Recommended Alternative, this measure satisfies the intent of relevant portions of LAX Master Plan Mitigation Measure MM-BC-9.

<sup>8</sup> For purposes of the LAWA Staff-Recommended Alternative, this measure satisfies the intent of relevant portions of LAX Master Plan Mitigation Measure MM-BC-9.

<sup>9</sup> For purposes of the LAWA Staff-Recommended Alternative, this measure satisfies the intent of relevant portions of LAX Master Plan Mitigation Measure MM-BC-9.

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which avoid or substantially lessen the significant environmental effects identified in the SPAS Final EIR. Specifically, with implementation of mitigation already required by the LAX Master Plan as well as LAX SPAS Project-specific Mitigation Measures MM-BIO (SPAS)-1 through MM-BIO (SPAS)-12 and MM-BIO (SPAS)-14, the Project will not have significant impacts to biological resources, for the reasons explained above.

Rationale: Implementation of Project-specific Mitigation Measures MM-BIO (SPAS)-1 through MM-BIO (SPAS)-12 and MM-BIO (SPAS)-14, include habitat and species-specific requirements and consultation with qualified restoration biologists. Implementing these measures will avoid or substantially lessen the significant environmental effects to biological resources to a level that is less than significant.

Impact: With respect to wetlands, a significant impact would occur if direct and indirect changes in the environment, which might be caused by the LAWA Staff-Recommended Alternative, could result in one or more of the following future conditions:

- ◆ A substantial alteration of the flow, bed, channel, or bank of rivers, streams, or lakes as defined in Section 1600 of the State Fish and Game Code.
- ◆ A substantial adverse effect on federally-protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruptions, or other means.
- ◆ A substantial adverse effect on state-protected wetlands and waters as defined by the State Water Resources Control Board pursuant to the Porter-Cologne Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruptions, or other means.
- ◆ A substantial adverse effect on an existing wetland habitat as defined by California Public Resources Code Section 30121, or as classified under the Cowardin system by USFWS or CDFG.

Description of Effects: As discussed in Section 4.3 of the SPAS Draft EIR and Section 2.3.3 of Part II of the SPAS Final EIR, and summarized below, the LAWA Staff-Recommended Alternative would have an impact on all USACOE and CDFG jurisdictional areas associated with the Argo Drainage Channel by structurally covering the Channel in order to relocate Runway 6L/24R 260 feet north of its current location. Impacts to USACOE jurisdictional areas would include 3.78 acres, of which 1.33 acres consists of wetlands vegetated with California Bulrush Marsh (1.31 acres) and Sandbar Willow Thicket (0.02 acre), and 2.45 acres consists of non-wetland waters of the U.S. vegetated with the ruderal (Argo Drainage Channel) association. Impacts to CDFG jurisdictional areas would include 3.97 acres, of which 2.45 acres consist of streambed and banks vegetated with the ruderal (Argo Drainage Channel) association, and 1.52 acres consist of vegetated riparian habitat (0.21 acre of Sandbar Willow Thicket and 1.31 acres of California Bulrush Marsh). These impacts would constitute a substantial alteration of the flow, bed, channel, or bank of rivers, streams, or lakes as defined in Section 1600 of the State Fish and Game Code and a substantial adverse effect on federally-protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruptions, or other means, and would be significant. With the consultation associated with implementation of Mitigation Measure MM-BIO (SPAS)-13, Replacement of Jurisdictional Aquatic Features, described in Section 4.3.7 of the Draft EIR and Section 2.3.3.2 of Part II of the Final EIR, impacts relating to USACOE and CDFG jurisdictional areas will be less than significant.

### Cumulative Jurisdictional Aquatic Features

Regarding cumulative impacts, there are no other projects that would result in impacts within the Argo Drainage Channel, nor are there any reasonably foreseeable projects within the geographic scope of analysis that would impact jurisdictional aquatic features. Nevertheless, given the historical loss of jurisdictional aquatic features in the vicinity, including at Playa Vista, cumulative

impacts to jurisdictional aquatic features are considered significant. With implementation of the mitigation measure described in Section 4.3.7 of the Draft EIR and Section 2.3.3.2 of Part II of the Final EIR, the contribution of the LAWA Staff-Recommended Alternative to this significant cumulative impact will not be cumulatively considerable.

Findings: Based on substantial evidence in the administrative record, including Section 4.3 of the SPAS Draft EIR and Section 2.3.3 of Part II of the SPAS Final EIR, the BOAC hereby finds and determines that changes or alterations have been required in, or are incorporated into, the project which avoid or substantially lessen the significant environmental effects identified in the SPAS Final EIR. Specifically, with implementation of mitigation already required by the LAX Master Plan as well as LAX SPAS Project-specific Mitigation Measure MM-BIO (SPAS)-13, the Project will not have significant impacts to wetlands, for the reasons explained above.

Rationale: Implementation of Project-specific Mitigation Measure MM-BIO (SPAS)-13 requires LAWA to consult with USACOE, CDFG and LARWQCB, as applicable, to obtain a determination of the jurisdictional area subject to those agencies' purview and requirements, potential for impacts, and mitigation (if applicable), should additional mitigation for impacts be required beyond those addressed in the Final EIR. In addition, Mitigation Measure MM BIO (SPAS)-13 also requires that, if a mitigation site is required and if a site at LAX is selected, site selection shall be conducted in consultation with LAWA's USDA Wildlife Hazard Biologist and be consistent with FAA Advisory Circular No. 150/5200-33B "Hazardous Wildlife Attractants on or Near Airports" and LAWA's "LAX Wildlife Hazard Management Plan" to avoid increasing wildlife hazards to aircraft. Implementation of this mitigation measure will lessen any potential significant environmental effects to jurisdictional aquatic features to a level that is less than significant.

### **3) Coastal Resources**

Impact: A significant impact to coastal resources would occur if the direct and indirect changes in the environment that may be caused by the LAWA Staff-Recommended Alternative would result in one or more of the following future conditions:

- ◆ Damage to the overall quality of the coastal zone environment and its natural and artificial resources.
- ◆ Inhibition of orderly, balanced utilization and conservation of coastal zone resources.

Description of Effects: As discussed in Section 4.4 of the SPAS Draft EIR and Section 2.3.4 of Part II of the SPAS Final EIR, and summarized below, Project elements that would be located within the Dunes have the potential to impact coastal resources.

The LAWA Staff-Recommended Alternative would require changes to navigational aids currently located within the Dunes, including instrument landing light systems and other navigational aids, which must be in alignment with their respective runways. Existing navigational aids would be replaced with new facilities, which would be installed to align with proposed runway configurations. Specifically, new Runway 6L/24R navigational aids would be located 260 feet north of the existing landing lights. A new localizer antenna, MTI radar reflector, and middle marker would also be located to the north of their current locations. Because the landing threshold for Runway 6L would be in the same longitudinal location, the navigational aids would not move east or west. A new service road would be developed to access the navigational aids associated with Runway 6L/24R. The new service road would be similar to existing service roads (i.e., existing paved roads would be used where feasible and new road surface would be graded and graveled to minimize erosion). New navigational aids associated with Runway 6R/24L would be located 104 feet to the east to accommodate the easterly shift in the Runway 6R landing threshold. The middle marker would also be shifted 104 feet east. The localizer antennae would not need to be replaced. As navigational aids associated with Runway 6R/24L would be situated laterally, new navigational aids could be accessed by the existing service road.

The planned facilities would be similar to existing facilities, which include navigational aids in the Dunes and on the north airfield. The Dunes are considered an ESHA. California Coastal Act (CCA) coastal resource planning and management policies state that ESHAs shall be protected against any significant disruption of habitat values, and only uses dependent on those resources shall be allowed within these areas. Navigational aids are not a use that is dependent on the Dunes resources. In connection with approval of the LAX Master Plan, the FAA previously determined that the installation of new navigational aids and associated service roads at LAX associated with implementation of the LAX Master Plan was consistent, to the maximum extent practicable, with the California Coastal Management Program, pursuant to the requirements of the Coastal Zone Management Act and the CCA. An additional consistency determination or certification from California Coastal Commission may be required to permit implementation of the LAWA Staff-Recommended Alternative. In addition, the new navigational aids would require a Coastal Development Permit.

The placement of navigational aids and an associated service road within the Dunes would not damage the overall quality of the coastal zone environment or its natural or artificial resources. The impacts on biological resources as a result of the installation of navigational aids and an associated service road within the Dunes are addressed above under *Biological Resources*, which concludes that such impacts would be less than significant with implementation of existing LAX Master Plan and proposed SPAS mitigation measures, and that the Dunes would be protected from any significant disruption of habitat values. Implementation of LAX Master Plan Mitigation Measures MM-BC-1, MM-ET-3, and MM-ET-4, and SPAS Project-specific mitigation measures MM-BIO (SPAS)-1, MM-BIO (SPAS)-2, MM-BIO (SPAS)-3, MM-BIO (SPAS)-4, MM-BIO (SPAS)-5, MM-BIO (SPAS)-6, MM-BIO (SPAS)-8, MM-BIO (SPAS)-9, and MM-BIO (SPAS)-10, detailed in Section 2.3.3.2 of Part II of the SPAS Final EIR, will ensure that impacts to sensitive resources within the coastal zone associated with the LAWA Staff-Recommended Alternative will be less than significant.

Findings: Based on substantial evidence in the administrative record, including Section 4.4 of the SPAS Draft EIR and Section 2.3.4 of Part II of the SPAS Final EIR, the BOAC hereby finds and determines that changes or alterations have been required in, or are incorporated into, the project which avoid or substantially lessen the significant environmental effects to coastal resources, as may occur from implementation of the LAX SPAS Project. Specifically, with implementation of mitigation already required by the LAX Master Plan, including Master Plan Mitigation Measures MM-BC-1, MM-ET-3, and MM-ET-4, as well as LAX SPAS Project-specific Mitigation Measures MM-BIO (SPAS)-1, MM-BIO (SPAS)-2, MM-BIO (SPAS)-3, MM-BIO (SPAS)-4, MM-BIO (SPAS)-5, MM-BIO (SPAS)-6, MM-BIO (SPAS)-8, MM-BIO (SPAS)-9, and MM-BIO (SPAS)-10, the Project will not have significant impacts to coastal resources, for the reasons explained above.

Rationale: Implementation of LAX Master Plan Mitigation Measures MM-BC-1, MM-ET-3, and MM-ET-4 and SPAS Project-specific Mitigation Measures MM-BIO (SPAS)-1, MM-BIO (SPAS)-2, MM-BIO (SPAS)-3, MM-BIO (SPAS)-4, MM-BIO (SPAS)-5, MM-BIO (SPAS)-6, MM-BIO (SPAS)-8, MM-BIO (SPAS)-9, and MM-BIO (SPAS)-10, include habitat and species-specific requirements and consultation that will avoid or substantially lessen the significant environmental effects to coastal resources to a level that is less than significant.

#### **4) Cultural Resources**

Impact: A significant impact upon historical and archaeological resources would occur if the direct and/or indirect changes in the environment that may be caused by the LAWA Staff-Recommended Alternative would result in one or more of the following conditions:

- ◆ Physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of a historical resource, as defined in State CEQA Guidelines Section 15064.5(a), would be materially impaired. The significance of a historical resource is materially impaired when a project demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its

historical significance and that justify its inclusion in, or eligibility for, inclusion in the National Register, California Register, a local register, a historical resources survey meeting the requirements of Section 5024.1(g) of the Public Resources Code, or as determined by LAWA for purposes of CEQA.

- ◆ Any action, such as clearing, scraping, soil removal, mechanical excavation, or digging that would disturb, damage, or degrade a "unique archaeological resource," as defined in Public Resources Code Section 21083.2.

Description of Effects: As discussed in Section 4.5 of the SPAS Draft EIR and Section 2.3.5 of Part II of the SPAS Final EIR, and summarized below, historical and archaeological resources have the potential to exist in the Project site.

#### Historical Resources

Two eligible historical resources potentially affected by the LAWA Staff-Recommended Alternative were analyzed in the EIR: the Theme Building and Setting, and the Union Savings and Loan Building.

The contributing features of the original Theme Building structure (extant original exterior and interior features) include, but are not necessarily limited to, the base, elevator core, extant original features of the restaurant space (excluding later alterations), public viewing platform, structural arches and footings, surrounding concrete wall/grille around base, pedestrian entrance, associated original hardscape features such as pedestrian patios and planters/planting beds, and surrounding pedestrian and vehicular circulation. Contributing features of the Theme Building Setting generally include: the Central Service Facility Buildings; the Primary Axial View between the Theme Building and the 1961 Airport Traffic Control Tower; the 1961 Airport Traffic Control Tower remains recognizable; the general character of the airport setting from the 1960s and 1970s remains residually recognizable, including the site plan, horizontal forms and rectangular massing of the concourse buildings, their generally consistent scale and height, the centrally located Theme Building which remains predominant within the U-shaped concourse and circulation complex, and the exterior terminals and associated airfields located to the north and south of the concourse area, etc; mid- and long-range outward looking views from the Theme Building's 80-foot level restaurant and 360-degree views from the roof-top viewing platform including mid-range views of the concourses and terminals, long-range views of the airfields, and distant views to the surrounding neighborhoods, mountains, and Pacific Ocean, which can still be experienced as originally conceived; direct views of the Theme Building from the U-shaped vehicular and pedestrian circulation paths within the concourse complex; and, direct views of the Theme Building from the edges of the horizontal concourse levels, including views through the continuous horizontal strip windows directly facing the Theme Building from the south terminals.

The airfield and terminal improvements under the LAWA Staff-Recommended Alternative would have no direct impacts and no adverse indirect impacts on historical resources because of their design, distance, and intervening development. Furthermore, because of the height limitations of the proposed terminal improvements and the incorporation of LAX Master Plan Commitment HR-1, Preservation of Historic Resources, which supports the preservation of significant historic/architectural resources through careful review of design and development adjacent to such resources to ensure modifications are carried out consistent with the Secretary of the Interior's Standards for the Treatment of Historic Properties, the impacts on the Theme Building and Setting from terminal improvements under the LAWA Staff-Recommended Alternative would be less than significant.

The ITF, proposed to be located between 96th Street and 98th Street west of Airport Boulevard, and the future Metro LAX/Crenshaw Light Rail Transit Station at/near Century and Aviation Boulevards, would not have any direct physical impacts or indirect impacts on identified eligible or listed historical resources in the cultural resources study area due to their distance from these resources. Likewise, the relocation of Lincoln Boulevard would have no impact on identified

eligible and listed historical resources and the proposed parking improvements would not be visible from the Theme Building or the Union Savings and Loan Building. Therefore, many of the improvements associated with the LAWA Staff-Recommended Alternative would not result in direct physical impacts to historical resources.

However, the APM system that is included in the ground access improvements under the LAWA Staff-Recommended Alternative would have significant impacts on the National Register-eligible Theme Building and Setting, but no impact on the ineligible 1961 Airport Traffic Control Tower. With incorporation of Mitigation Measure MM-HA (SPAS)-2, Preservation of Historic Resources: Theme Building and Setting, described in Section 4.5.7.1 of the SPAS Draft EIR and Section 2.3.5.2.1 of Part II of the SPAS Final EIR, which requires that the design of the APM ensure that important contributing views of the north and south elevations of the Theme Building are not materially impaired, significant impacts to the Theme Building and Setting will be reduced to a less than significant level. Potential indirect impacts to the Union Savings and Loan Building from the proposed ground access improvements, specifically, an elevated APM structure along 98th Street and extending over Sepulveda Boulevard, would be less than significant due to their proposed location within or north of the 98th Street right-of-way, their distance from the eligible Union Savings and Loan Building, and the incorporation of LAX Master Plan Commitment HR-1, Preservation of Historic Resources.

### *Archeological Resources*

A description of the project site's archaeological setting is provided in section 4.5.3.3 of the SPAS Draft EIR.

The LAWA Staff-Recommended Alternative would not have any impacts on previously recorded archaeological resources. However, this alternative has the potential to disturb or destroy significant, undiscovered archaeological resources during construction excavations. However, with the exception of the north airfield and the navigational aids in the Los Angeles/El Segundo Dunes, the improvements associated with the LAWA Staff-Recommended Alternative are located in disturbed areas. The north airfield improvements and navigational aids would not require deep excavations, and the area subject to excavation for the navigational aids would be small. The lack of deep excavations reduces the potential to encounter undiscovered archaeological resources because deep excavations may encounter previously undisturbed soils conducive to retaining undiscovered archaeological resources. Shallow excavations are likely to be conducted in previously disturbed soils that are likely not conducive to retaining undiscovered archaeological resources because resources in these soils may have been destroyed or displaced from prior disturbances (e.g., rough grading or trenching, road/airstrip construction). Since improvements associated with the north airfield and navigational aids would include shallow excavations in disturbed soils, the likelihood of encountering undiscovered significant archaeological resources during construction is limited. Nevertheless, the potential for construction to affect previously unidentified archaeological resources is a significant impact. Mitigation Measure MM-HA (SPAS)-4, Conformance with LAX Master Plan Archaeological Treatment Plan (ATP) (as described in Section 4.5.7.2 of the SPAS Draft EIR and Section 2.3.5.2.2 of Part II of the SPAS Final EIR), is proposed to address significant impacts to previously unidentified archaeological resources by requiring construction activities to be undertaken in conformance with the ATP. In the event subsurface deposits are encountered, the ATP provides for evaluation and treatment of archaeological resources consistent with the Secretary of the Interior's Standards and Guidelines for Archaeological Documentation and other applicable guidance. Requirements outlined in the ATP include specific procedures for archaeological monitoring, identifying and assessing the significance of resources, and for the recovery and curation of resources when warranted. For example, an archaeological excavation program to remove the resources may be implemented, if deemed necessary. In addition, the ATP includes guidance on retaining a Native American monitor if Native American cultural resources are encountered. If human remains are found, LAWA will need to comply with the State Health and Safety Code regarding the appropriate treatment of those remains as outlined in the ATP. Finally, the ATP details the reporting

requirements to document the archaeological monitoring effort and provides guidance as to the proper curation and archiving of artifacts in accordance with industry and federal standards. The procedures outlined in the ATP would reduce potentially significant impacts to previously unidentified archaeological resources associated with this alternative to a less than significant level.

The following two Project-specific mitigation measures (detailed in Section 2.3.5.2 of Part II of the SPAS Final EIR) provide specific methods to ensure that alteration of the surrounding setting of the Theme Building in connection with the LAWA Staff-Recommended Alternative is undertaken in accordance with the Secretary of the Interior's Standards and will ensure compliance with the ATP, which incorporates the requirements of LAX Master Plan Mitigation Measures MM-HA-4 through MM-HA-10:

- ◆ MM-HA (SPAS)-2. Preservation of Historic Resources: Theme Building and Setting.
- ◆ MM-HA (SPAS)-4. Conformance with LAX Master Plan Archaeological Treatment Plan.

#### Cumulative Cultural Resources Impacts

Regarding cumulative impacts, as addressed in Section 5.5.5 of the SPAS Draft EIR and Section 2.4.5 of Part II of the SPAS Final EIR, with the exception of the Airport Metro Connector Project, the cumulative projects in the CTA would be compatible with the historic materials, features, size, scale and proportion, and massing of the Theme Building and Setting and would protect the integrity of the historical resource and its environment. Although implementation of the Airport Metro Connector Project may contribute to a cumulatively significant impact on the Theme Building and Setting, with height limitations, design, and distance of the proposed improvements and the incorporation of LAX Master Plan Commitment HR-1, Preservation of Historic Resources, the contribution of the LAWA Staff-Recommended Alternative would not be cumulatively considerable. In light of Mitigation Measure MM-HA (SPAS)-2, Preservation of Historic Resources: Theme Building and Setting, the contribution of the LAWA Staff-Recommended Alternative to cumulative impacts on the Theme Building and Setting would not be cumulatively considerable.

Regarding cumulative impacts, impacts associated with the disturbance or destruction of undiscovered archaeological resources during construction of the LAWA Staff-Recommended Alternative would be less than significant with implementation of Mitigation Measure MM-HA (SPAS)-4, Conformance with LAX Master Plan Archaeological Treatment Plan. However, the potential for cumulative projects to disturb or destroy undiscovered resources would be cumulatively significant when viewed in combination with the progressive cumulative loss of archaeological resources associated with other past, present, and reasonably anticipated future projects. Even though regulatory controls and project-level mitigation measures would reduce these effects, there would be a cumulatively significant impact to undiscovered archaeological resources associated with cumulative projects. With the exception of the navigational aids in the Los Angeles/El Segundo Dunes, the improvements associated with the LAWA Staff-Recommended Alternative are located in disturbed areas. The navigational aids would not require deep excavations. Therefore, the likelihood of encountering undiscovered significant archaeological resources during construction would be limited. Moreover, construction activities would be subject to Mitigation Measure MM-HA (SPAS)-4, Conformance with LAX Master Plan Archaeological Treatment Plan. For these reasons, the contribution of the LAWA Staff-Recommended Alternative to cumulative impacts would not be cumulatively considerable.

Findings: Based on substantial evidence in the administrative record, including Sections 4.5 and 5.5.5 of the SPAS Draft EIR and Sections 2.3.5 and 2.4.5 of Part II of the SPAS Final EIR, the BOAC hereby finds and determines that changes or alterations have been required in, or are incorporated into, the project which avoid or substantially lessen the significant environmental effects related to historical and archaeological resources, as may occur from implementation of the SPAS Project. Specifically, with implementation of mitigation already required by the LAX

Master Plan Commitment HR-1 would ensure that impacts to the Union Savings and Loan Building associated with the LAWA Staff-Recommended Alternative would be less than significant. Therefore, no mitigation specific to SPAS is required for the LAWA Staff-Recommended Alternative relative to the Union Savings and Loan Building. However, even with implementation LAX Master Plan Commitment, HR-1 there would be a significant impact to the Theme Building and Setting as a result of the implementation of the APM under the LAWA Staff-Recommended Alternative. The implementation of LAX SPAS Project-specific Mitigation Measure MM-HA (SPAS)-2, Preservation of Historic Resources: Theme Building and Setting will reduce this impact to a less than significant level.

In addition, LAX SPAS Project-specific Mitigation Measure MM-HA (SPAS)-4, Conformance with LAX Master Plan Archaeological Treatment Plan, will be implemented to ensure compliance with the ATP, which incorporates the requirements of LAX Master Plan Mitigation Measures MM-HA-4 through MM-HA-10, is proposed to mitigate potential impacts to archaeological resources.

With the mitigation described above, the Project's contribution to cumulative impacts to cultural resources will be less than cumulatively considerable.

Rationale: The focus of Mitigation Measure MM-HA (SPAS)-2 is to provide specific guidance to ensure that alteration of the surrounding setting of the Theme Building in connection with the LAWA Staff-Recommended Alternative is undertaken in accordance with the Secretary of the Interior's Standards. Therefore, the Project will not have significant impacts to cultural resources, for the reasons explained above. Compliance with the ATP, as ensured by SPAS Mitigation Measure MM-HA (SPAS)-4 would reduce impacts to previously unidentified archaeological resources that may be discovered during construction of the LAWA Staff-Recommended Alternative. Implementation of these mitigation measures will avoid or substantially lessen the significant environmental effects to cultural resources to a level that is less than significant, and will also reduce the Project's contribution to cumulative impacts to less than cumulatively considerable.

## **5) Hydrology/Water Quality**

### **Hydrology**

Impact: A significant hydrology impact would occur if the direct and indirect changes in the environment that may be caused by the LAWA Staff-Recommended Alternative would result in the following future condition:

- ◆ An increase in runoff that would cause or exacerbate flooding with the potential to harm people or damage property.

Description of Effects: As discussed in Section 4.8 of the SPAS Draft EIR and Section 2.3.8 of Part II of the SPAS Final EIR, under the LAWA Staff-Recommended Alternative, the total impervious area within the HWQSA would increase by approximately 92 acres as compared to baseline conditions of 3,082 acres. Since much of the area surrounding the airport in both the Santa Monica Bay and Dominguez Channel watersheds is developed (i.e., impervious) under baseline conditions, this change would represent a marginal increase (3.0 percent) in regional impervious area. The changes in impervious area would not be evenly distributed between the Santa Monica Bay and Dominguez Channel watersheds when compared to baseline conditions. The impervious area within the Santa Monica Bay Watershed would increase 32 acres or 1.6 percent, occurring primarily within the Argo sub-basin due to the runway and taxiway improvements, while the impervious area within the Dominguez Channel Watershed would increase by 61 acres or 5.5 percent. The increase in impervious surface in the portion of the HWQSA tributary to Santa Monica Bay, which includes both the Argo and Imperial sub-basins, is 1.6 percent, which would result in a very small net increase in peak flow rates to be conveyed by the drainage systems serving these areas. It is possible that this increase could cause one or more existing on-site or off-site storm drains to reach or exceed the design capacity, which would be a significant impact. Also the increase in impervious surface in the portion of the HWQSA

tributary to Dominguez Channel is 5.5 percent, which would result in a net increase in peak flow rates to be conveyed by the drainage systems serving these areas. As previously noted, the Dominguez Channel is currently over capacity off-site and downstream from LAX; therefore, a 5.5 percent increase in peak flow rates from LAX, which represents a portion of the total tributary area to the Dominguez Channel, would add to the capacity deficiency, which would be a significant impact.

LAWA would continue to implement applicable recommendations resulting from LAX Master Plan Commitment HWQ-1, Conceptual Drainage Plan, including improvements designed to address deficiencies, if any, in the drainage system that would occur at buildout of the LAX Master Plan. Such improvements would reduce flooding impacts associated with development of the LAWA Staff-Recommended Alternative; however, given that those recommended improvements were designed based on the approved LAX Master Plan development program, flooding impacts of the LAWA Staff-Recommended Alternative would be significant. As described in Section 4.8.7 of the SPAS Draft EIR and Section 2.3.8.2 of Part II of the SPAS Final EIR, Mitigation Measure, MM-HWQ (SPAS)-1, Conceptual Drainage Plan Revision and Update, is proposed to tailor the Conceptual Drainage Plan recommendations to the specific characteristics of the LAWA Staff-Recommended Alternative. With implementation of Mitigation Measure MM-HWQ (SPAS)-1, the hydrology impacts associated with the LAWA Staff-Recommended Alternative would be less than significant.

### *Cumulative Hydrology Impacts*

The cumulative impacts analysis focuses on development projects located in the watersheds within which the SPAS improvements are located (i.e., those projects with the greatest potential to have impacts to hydrology that could combine with impacts of the LAWA Staff-Recommended Alternative). In particular, the two projects at LAX with the potential to contribute to significant cumulative hydrology impacts are LAX Northside and the West Aircraft Maintenance Area, both of which would convert existing largely vacant land to future urban/airport development. LAX Northside is proposed to include a mix of retail uses, hotels, offices, educational and community facilities, and open space. The development of LAX Northside would result in conversion of largely vacant property to other land uses, such as commercial uses and roads. The future development of urban uses on the site would increase the volumes and velocity of surface runoff due to the addition of impervious surfaces due to urban activities (e.g., traffic, parking, landscape maintenance, washing of surfaces) and building surfaces (i.e., roof/siding materials). The hydrology impacts from development of LAX Northside would occur within the Argo sub-basin, which drains to the Santa Monica Bay. The West Aircraft Maintenance Area is proposed to be located on a 60-acre site on the west end of the airport. Development of the site would result in a land use conversion from airport open space to airport operations, which would increase the volumes and velocity of surface runoff due to the addition of impervious surfaces. The hydrology impacts associated with implementation of the West Aircraft Maintenance Area project would occur within the Pershing sub-basin which drains to the Santa Monica Bay. Additionally, construction activities associated with future development would pose the potential for temporary increases in erosion and sedimentation.

As discussed above, the impacts of the LAWA Staff-Recommended Alternative would include both the Argo sub-basin and the Pershing sub-basin. As such, there would be cumulative drainage impacts within the Argo sub-basin area from the combination of LAX Northside development and the LAWA Staff-Recommended Alternative, and cumulative drainage impacts within the Pershing sub-basin area from the combination of the West Aircraft Maintenance Area project and the LAWA Staff-Recommended Alternative (the two sub-basins do not share a common storm drain system, consequently cumulative drainage impacts would only be from the combination of the LAWA Staff-Recommended Alternative and each of the other projects within their respective sub-basins). The combination of these projects would not result in cumulative hydrology impacts related to the Dominguez Channel because neither LAX Northside or the West Aircraft Maintenance Area project drain to the Dominguez Channel sub-basin.

The LAX Master Plan Final EIR includes LAX Master Plan Commitment HWQ-1, which required preparation of the LAX Conceptual Drainage Plan (CDP) to identify the drainage system improvements and Best Management Practices (BMPs) necessary to avoid significant hydrology impacts from LAX Master Plan projects. While implementation of the current CDP would serve to mitigate hydrology impacts from future development within the LAX Master Plan area, within which all three projects - LAX Northside, West Aircraft Maintenance Area, and the LAWA Staff-Recommended Alternative - are located, the overall development characteristics of the combined projects would not be the same as the LAX Master Plan assumed during preparation of the CDP. As such, the cumulative hydrology impacts of the combined projects are considered to only be partially mitigated through implementation of LAX Master Plan Commitment HWQ-1, Conceptual Drainage Plan, and the remaining impact would be significant without additional mitigation. The contribution of the LAWA Staff-Recommended Alternative to this cumulatively significant impact would be cumulatively considerable.

As detailed in Section 2.3.8.2 of Part II of the SPAS Final EIR, Mitigation Measure MM-HWQ (SPAS)-1, Conceptual Drainage Plan Revision and Update, is recommended to revise and update the current CDP to account for changes in the development assumptions of SPAS alternatives, as compared to those of the LAX Master Plan, as well as other existing or proposed improvement projects at LAX. That revision and update of the CDP would serve to achieve the same level of mitigation intended by LAX Master Plan Commitment HWQ-1, that is, to reduce hydrology impacts to a level that is less than significant. Given that LAX Northside, the West Aircraft Maintenance Area project, and the LAWA Staff-Recommended Alternative would be accounted for through implementation of Mitigation Measure MM-HWQ (SPAS)-1, the cumulative hydrology impacts of these projects would be less than significant, and the LAWA Staff-Recommended Alternative would no longer have a cumulatively considerable contribution.

Findings: Based on substantial evidence in the administrative record, including Sections 4.8 and 5.5.8 of the SPAS Draft EIR and Sections 2.3.8 and 2.4.8 of Part II of the SPAS Final EIR, the BOAC hereby finds and determines that changes or alterations have been required in, or are incorporated into, the project which avoid or substantially lessen the significant environmental effects related to hydrology, as may occur from implementation of the LAX SPAS Project. Specifically, with implementation of mitigation already required by the LAX Master Plan as well as LAX SPAS Project-specific Mitigation Measure MM-HWQ (SPAS)-1, Conceptual Drainage Plan Revision and Update, the Project will not have significant impacts to, or a cumulatively considerable contribution to cumulative impacts associated with, hydrology, for the reasons explained above.

Rationale: Implementation of Project-specific Mitigation Measure MM-HWQ (SPAS)-1, Conceptual Drainage Plan Revision and Update, is proposed to tailor the Conceptual Drainage Plan recommendations, including BMPs, to the specific characteristics of the LAWA Staff-Recommended Alternative. As part of the update to the existing Conceptual Drainage Plan for LAX, LAWA would integrate the applicable BMP requirements related to SUSMP and the City's LID Ordinance. Additionally, the existing source control BMPs currently employed by LAWA as identified in the LAX SWPPP would also serve to decrease the potential for additional pollutant loading as a result of intensification of airport activities. Routine maintenance such as sweeping and inspections would be performed more frequently and in direct proportion to the increase in frequency of airport activities. Implementation of this mitigation measure will avoid or substantially lessen any potential significant environmental effects to hydrology to a level that is less than significant and would also reduce the Project's contribution to cumulative impacts to less than cumulatively considerable.

### *Storm Water Pollutant Loads*

Impact: A significant water quality impact would occur if the direct and indirect changes in the environment that may be caused by the LAWA Staff-Recommended Alternative would result in the following future condition:

- ◆ An increased load of a pollutant of concern delivered to a receiving water body by surface water runoff.

Description of Effects: As discussed in Section 4.8 of the SPAS Draft EIR and Section 2.3.8 of Part II of the SPAS Final EIR, under the LAWA Staff-Recommended Alternative, the estimated annual total pollutant load generated within the HWQSA would increase for most constituents compared to baseline conditions. Specifically, greater estimated loads are predicted for all constituents except for total suspended solids, 5-day Biochemical Oxygen Demand (BOD<sub>5</sub>), and fecal enterococcus bacteria when compared to baseline conditions. The increases in estimated loads would range from 0.3 percent for total Kjeldahl Nitrogen to 4.9 percent for copper and oil and grease.

With respect to debris loads, activities within airfield improvement areas are not a significant generator of debris compared to the potential load generated within ground access improvement areas (e.g., parking lots). Within the airport improvement areas, there is no public access to these areas so sources of debris are minimal compared to public access areas. Additionally, debris sources are minimized as a result of implementation of source control measures conducted by LAWA and its tenants under the SWPPP. The LAWA Staff-Recommended Alternative does include ground access improvements which could potentially increase debris loads. The complete model results are presented in Table 6 in Appendix H, *Hydrology and Water Quality*, of the SPAS Draft EIR. The increases in pollutant loads would be a significant impact.

LAWA would continue to implement applicable recommendations resulting from LAX Master Plan Commitment HWQ-1, Conceptual Drainage Plan, including BMPs to address water quality impacts associated with increased pollutant loads from buildout of the LAX Master Plan. Such BMPs would reduce the water quality impacts associated with development of the LAWA Staff-Recommended Alternative; however, given that those recommended improvements were designed based on the approved LAX Master Plan development program, pollutant load increases associated with the LAWA Staff-Recommended Alternative are assumed to be significant. As detailed in Section 2.3.8.2 of Part II of the SPAS Final EIR, Project-specific Mitigation Measure, MM-HWQ (SPAS)-1, Conceptual Drainage Plan Revision and Update, is proposed to tailor the CDP recommendations to the specific characteristics of the LAWA Staff-Recommended Alternative. With implementation of Mitigation Measure MM-HWQ (SPAS)-1, the water quality impacts associated with the LAWA Staff-Recommended Alternative would be less than significant.

### *Cumulative Water Quality Impacts*

Similar to hydrology, the potential for cumulative impacts focuses on development projects located in the watersheds within which the SPAS improvements are located (i.e., those projects with the greatest potential to have impacts to hydrology and water quality that could combine with impacts of the LAWA Staff-Recommended Alternative). In particular, the two projects at LAX with the potential to contribute to significant cumulative hydrology impacts are LAX Northside and the West Aircraft Maintenance Area, both of which would convert existing largely vacant land to future urban/airport development. The future development of urban uses on the site would change the water quality characteristics within the runoff due to urban activities (e.g., traffic, parking, landscape maintenance, washing of surfaces) and building surfaces (i.e., roof/siding materials). The West Aircraft Maintenance Area development of the site would result in a land use conversion from airport open space to airport operations, which would change the water quality characteristics within runoff. The change in water quality would occur from the replacement of existing vacant/disturbed ground, which generates mostly sediments and

suspended solids within runoff, to aircraft apron/ramp area where aircraft would be parked or taxiing, introducing a source of pollutants such as oils and grease, metals, and particulate matter (e.g., tire particles).

As discussed above, implementation of the LAWA Staff-Recommended Alternative would result in an increase in impervious surface area and an increase in several types of water quality pollutants, although there would be reductions in total suspended solids, 5-day Biochemical Oxygen Demand (BOD<sub>5</sub>), and fecal enterococcus bacteria. The impacts of the LAWA Staff-Recommended Alternative would include both the Argo sub-basin and the Pershing sub-basin. As such, cumulative water quality impacts would occur from the combination of all three of the projects given that both affected sub-basins drain to Santa Monica Bay. The combination of these projects would not result in cumulative water quality impacts related to the Dominguez Channel because neither LAX Northside nor the West Aircraft Maintenance Area project drain to the Dominguez Channel sub-basin. The LAX Master Plan Final EIR includes LAX Master Plan Commitment HWQ-1, which required preparation of the LAX Conceptual Drainage Plan (CDP) to identify the drainage system improvements and Best Management Practices (BMPs) necessary to avoid significant hydrology and water quality impacts from LAX Master Plan projects. While implementation of the current CDP would serve to mitigate water quality impacts from future development within the LAX Master Plan area, within which all three projects - LAX Northside, West Aircraft Maintenance Area, and the LAWA Staff-Recommended Alternative - are located, the overall development characteristics of the combined projects would not be the same as the LAX Master Plan assumed during preparation of the CDP. As such, the cumulative water quality impacts of the combined projects are considered to only be partially mitigated through implementation of LAX Master Plan Commitment HWQ-1, Conceptual Drainage Plan, and the remaining impact would be significant without additional mitigation. The contribution of the LAWA Staff-Recommended Alternative to this cumulatively significant impact would be cumulatively considerable. Implementation of Mitigation Measure MM-HWQ (SPAS)-1, Conceptual Drainage Plan Revision and Update, is recommended to revise and update the current CDP to account for changes in the development assumptions of SPAS alternatives, as compared to those of the LAX Master Plan, as well as other existing or proposed improvement projects at LAX. That revision and update of the CDP would serve to achieve the same level of mitigation intended by LAX Master Plan Commitment HWQ-1, that is, to reduce water quality impacts to a level that is less than significant. Given that LAX Northside, the West Aircraft Maintenance Area project, and the LAWA Staff-Recommended Alternative would be accounted for through implementation of Mitigation Measure MM-HWQ (SPAS)-1, the cumulative water quality impacts of these projects would be less than significant, and the LAWA Staff-Recommended Alternative would no longer have a cumulatively considerable contribution.

**Findings:** Based on substantial evidence in the administrative record, including Section 4.8 of the SPAS Draft EIR and Sections 2.3.8 and 2.4.8 of Part II of the SPAS Final EIR, the BOAC hereby finds and determines that changes or alterations have been required in, or are incorporated into, the project which avoid or substantially lessen the significant environmental effects identified in the SPAS Final EIR. Specifically, with implementation of mitigation already required by the LAX Master Plan as well as LAX SPAS Project-specific Mitigation Measure MM-HWQ (SPAS)-1, Conceptual Drainage Plan Revision and Update, the Project will not have significant impacts to, or a cumulatively considerable contribution to cumulative impacts associated with, water quality, for the reasons explained above.

**Rationale:** Implementation of Project-specific Mitigation Measure MM-HWQ (SPAS)-1, Conceptual Drainage Plan Revision and Update, is proposed to tailor the Conceptual Drainage Plan recommendations, including BMPs, to the specific characteristics of the LAWA Staff-Recommended Alternative. As part of the update to the existing Conceptual Drainage Plan for LAX, LAWA would integrate the applicable BMP requirements related to SUSMP and the City's LID Ordinance. Additionally, the existing source control BMPs currently employed by LAWA as identified in the LAX SWPPP would also serve to decrease the potential for additional pollutant

loading as a result of intensification of airport activities. Routine maintenance such as sweeping and inspections would be performed more frequently and in direct proportion to the increase in frequency of airport activities. Implementation of this mitigation measure will avoid or substantially lessen any potential significant environmental effects to water quality to a level that is less than significant and will also reduce the Project's contribution to cumulative impacts to less than cumulatively considerable.

#### **6) Law Enforcement**

Impact: A significant impact on law enforcement services would occur if the direct and indirect changes in the environment that may be caused by the LAWA Staff-Recommended Alternative would result in one or more of the following conditions:

- ◆ An increase in on-airport population that would require a substantial increase in law enforcement services to maintain adequate services or would require new or expanded facilities without providing adequate mechanisms for addressing these additional needs.
- ◆ Through increased traffic congestion, changes in circulation, expansion of airport property, or the location of new land uses, an increase in emergency response times beyond the limits required by applicable jurisdictions within the study area.

Description of Effects: As discussed in Section 4.11.2 of the SPAS Draft EIR and Section 2.3.11.2 of Part II of the SPAS Final EIR, the LAWA Staff-Recommended Alternative contains various features that are particularly relevant to the analysis of law enforcement impacts. These features include airfield facility and terminal improvements, ground access improvements and parking, and removal and relocation of a future LAWAPD facility. The impacts to law enforcement services and facilities due to airfield improvements, terminal modifications, and ground access improvements and parking under the LAWA Staff-Recommended Alternative were determined to be less than significant with implementation of LAX Master Plan commitments.

#### *Removal of Existing Facilities*

Under the LAWA Staff-Recommended Alternative, the existing LAWAPD station and associated facilities located at West 96th Street would be removed. LAWA is planning a future LAX Public Safety Building and Supporting Facilities independent of SPAS. The site for this planned facility is still under consideration. The future LAX Public Safety Building and Supporting Facilities would consolidate existing facilities and personnel under one roof, creating a larger, more modern and efficient facility that would result in an improvement and expansion of LAWAPD facilities. In addition, the new facility would be sited to ensure that adequate response times are maintained. The LAX Public Safety Building and Supporting Facilities is proposed to occur within approximately the next 5 years and is considered in this EIR as a cumulative project (see Chapter 5, Cumulative Impacts, of the SPAS Draft EIR). Although LAX Master Plan Commitments PS-1, Fire and Police Facility Relocation Plan, and PS-2, Fire and Police Facility Space and Siting Requirements, would reduce impacts associated with removal of the LAWAPD facilities, because the location, timing, and characteristics of the replacement LAX Public Safety Building and Supporting Facilities have yet to be determined, and these factors as well as gaps in service could occur and degrade service and response times, impacts on LAWAPD facilities would be significant. With implementation of Mitigation Measure MM-LE (SPAS)-1, LAWAPD Replacement Facilities (detailed in Section 2.3.11.2.2 of Part II of the SPAS Final EIR), impacts to law enforcement associated with the LAWA Staff-Recommended Alternative would be less than significant.

To the extent that implementation of Mitigation Measure MM-LE (SPAS)-1, LAWAPD Replacement Facilities, requires interim facilities to temporarily accommodate displaced LAWAPD facilities, secondary or indirect environmental impacts may occur under the LAWA Staff-Recommended Alternative. Such facilities would not be required if the LAX Public Safety Building and Supporting Facilities is constructed prior to the need to remove the existing LAWAPD station and facilities. It should also be noted that, if/when such temporary facilities are

required, the discretionary approval(s) associated with such activity would be subject to CEQA compliance, at which time additional CEQA review specific to the proposed activity would be completed. If interim facilities are required, it is expected that such facilities would be housed within existing available building space and/or would consist of temporary structures, such as trailers and modular buildings. Functions such as patrols and emergency response would have to be located in relatively close proximity to the existing LAWAPD facilities in order to provide adequate response times and distances to the uses served by the existing facilities. Administrative functions could be housed in a separate location, which could include the western portion of the airport, LAX Northside, or another location. As potential temporary sites at or near LAX are highly developed and are surrounded by urban uses, impacts associated with the temporary facilities would be limited. Interim facilities would not be expected to change transportation patterns at or around the airport, nor would such facilities be located in an aesthetically sensitive area, as the airport and its environs are highly developed. As the interim facilities would be housed in existing building space and/or trailers and modular buildings, construction activities, if any, would be limited and construction-related impacts, such as noise and air quality, would be less than significant.

*Cumulative Law Enforcement Impacts*

As described in Section 5.5.11.2 of the SPAS Draft EIR and 2.4.11.2 of Part II of the SPAS Final EIR, the types of development projects at or adjacent to LAX that have the potential to result in cumulative impacts on law enforcement include various airside, terminal, land development, infrastructure, security, and transportation projects. The LAWA Staff-Recommended Alternative would alter demand for law enforcement services. Many of the components of the LAWA Staff-Recommended Alternative, such as airfield and ground access improvements, would enhance safety at the airport and improve response times, thereby reducing demand for law enforcement services. However, development of new terminal areas and new ground access facilities would increase demand for law enforcement services. Implementation of LAX Master Plan commitments LE-1, LE-2, PS-1, PS-2, C-1, ST-9, ST-12, ST-14, ST-17, ST-18, ST-19, ST-21, and ST-22 would ensure that impacts to law enforcement services, facilities, and response times would be less than significant in most instances. The removal of the LAWAPD station and associated facilities on West 96th Street would result in a significant impact to law enforcement if the planned LAX Public Safety Building and Supporting Facilities is not completed prior to removal of these facilities. Project-specific Mitigation Measure MM-LE (SPAS)-1, LAWAPD Replacement Facilities, would ensure that adequate law enforcement facilities are maintained. Therefore, impacts to law enforcement services and facilities would be less than significant. Cumulative on-airport projects that are independent from SPAS include airfield and terminal safety improvements, installation of security fencing and lighting, construction of the Airport Response Coordination Center (ARCC) and the LAX Public Safety Building and Supporting Facilities, LAX Northside, and various other safety, infrastructure, and security upgrades. Many of the cumulative projects, including those related to maintenance, signage, and infrastructure upgrades, would have no impact on law enforcement. Other projects, such as the Airfield Operating Area (AOA) Perimeter Fence Enhancements and the ARCC, would improve overall safety at the airport and reduce the potential demand for law enforcement services and facilities. In particular, the LAX Public Safety Building and Supporting Facilities would consolidate existing facilities and personnel under one roof, creating a larger, more modern and efficient facility that would result in an improvement and expansion of LAWAPD facilities. The new facility would be sited to ensure that adequate response times are maintained. On-airport cumulative projects that would increase passenger-serving areas, provide new maintenance or cargo facilities, or add new development, such as the Bradley West Project, Midfield Satellite Concourse (MSC), North and South Terminals Improvements, West Maintenance Area, and LAX Northside, in combination with the LAWA Staff-Recommended Alternative, have the potential to increase demands for law enforcement services. The majority of projects that would contribute to this cumulative impact are related to the LAX Master Plan, and would be subject to LAX Master Plan commitments and regulatory requirements that would ensure that cumulative impacts from airport-related

development would be less than significant. The LAX Northside project would also add new development that would have the potential to increase demand for law enforcement services. With review of project plans by LAWAPD and LAPD, implementation of the security features referenced in the development requirements for the LAX Northside Sub-Area in the LAX Specific Plan, provision of a police station within the area, and fulfillment of LAX Master Plan commitments, impacts on law enforcement services associated with LAX Northside would be less than significant. With implementation of LAX Master Plan commitments, regulatory requirements, and planned upgrades such as the LAX Public Safety Building and Supporting Facilities, cumulative impacts associated with airport-related development would be less than significant.

Regarding cumulative off-airport projects, the development of the Metro Crenshaw/LAX Transit Corridor Project and Airport Metro Connector Project would introduce new rail systems in the airport vicinity and within the CTA, with a corresponding potential increase in demand for law enforcement services. However, Metro would be responsible for implementing System Safety Program Plans and System Security Plans for Metro projects, which would address the safety and security of transit commuter operations, mitigate accidents, and support compliance with state regulations. These safety measures have been established to provide employee and passenger safety, crime prevention, adequate emergency response, and emergency procedures. In addition, the proposed stations would be designed to avoid obstructions to visibility or observation and would be adequately lit and monitored by security personnel. The Metro Crenshaw/LAX Transit Corridor would have a beneficial effect on the regional transportation network compared to existing conditions and is expected to have a beneficial effect on the regional transportation network. This reduced traffic congestion would reduce the potential for degradation of response times adjacent to LAX. In addition, the removal of remaining residences within the Manchester Square and Belford areas through implementation of LAWA's residential acquisition program would reduce the overall demand for law enforcement services in the LAX area.

In light of planned improvements to law enforcement facilities, LAX Master Plan commitments and Project-specific mitigation measures, design features, and regulatory compliance, improvements under the LAWA Staff-Recommended Alternative in combination with cumulative projects would not require a substantial increase in law enforcement services to maintain adequate services or require new or expanded facilities without providing adequate mechanisms for addressing these additional needs. Moreover, cumulative development would not increase emergency response times beyond the limits required by applicable jurisdictions. Therefore, cumulative impacts on law enforcement services under the LAWA Staff-Recommended Alternative would be less than significant.

Findings: Based on substantial evidence in the administrative record, including Sections 4.11.2 and 5.5.11.2 of the SPAS Draft EIR and Sections 2.3.11.2 and 2.4.11.2 of Part II of the SPAS Final EIR, the BOAC hereby finds and determines that changes or alterations have been required in, or are incorporated into, the project which avoid or substantially lessen the significant environmental effects related to law enforcement, as may occur from implementation of the LAX SPAS Project. Specifically, with implementation of mitigation already required by the LAX Master Plan as well as LAX SPAS Project-specific Mitigation Measure MM-LE (SPAS)-1, the Project will not have significant impacts to law enforcement, for the reasons explained above.

Rationale: To address the potential significant impacts to law enforcement services as a result of the removal and relocation of the LAWAPD station and facilities located at West 96th Street associated with the LAWA Staff-Recommended Alternative, Mitigation Measure MM-LE (SPAS)-1, LAWAPD Replacement Facilities, would require a completed transition plan to the planned LAX Public Safety Building and Supporting Facilities, or interim facilities in the event the LAX Public Safety Building and Supporting Facilities is not yet completed. The existing LAWAPD station and facilities shall not be removed unless and until adequate emergency response times and distances can be achieved without it, as determined in consultation with LAWAPD. Therefore, implementation of Mitigation Measure MM-LE (SPAS)-1, LAWAPD Replacement

Facilities, will avoid or substantially lessen impacts to law enforcement facilities associated with the LAWA Staff-Recommended Alternative to a level that is less than significant.

**C. Findings on Significant and Unavoidable Impacts**

**1) Air Quality**

Impact: A significant air quality impact would occur if the estimated incremental increase in construction-related emissions attributable to the LAWA Staff-Recommended Alternative would be greater than the daily construction emission South Coast Air Quality Management District's (SCAQMD's) thresholds, as well if the estimated incremental increase in operational emissions attributable to the LAWA Staff-Recommended Alternative would be greater than the SCAQMD's operational daily emission thresholds.

Description of Effects: As discussed in Sections 4.2 and 5.5.2 of the SPAS Draft EIR and Sections 2.3.2 and 2.4.2 of Part II of the SPAS Final EIR, implementation of the LAWA Staff-Recommended Alternative has the potential to have a significant impact on air quality, as well as a cumulatively considerable contribution to cumulative air quality impacts.

*Construction Emissions*

The vast majority (80 percent or more) of the construction emissions for the LAWA Staff-Recommended Alternative would be associated with the airfield and terminal improvements. Such improvements include moving Runway 6L/24R 260 feet north and completing related improvements such as covering the Argo Drainage Channel and realigning Lincoln Boulevard, lengthening Runways 6L/24R and 6R/24L, various taxiway and taxilane improvements, and terminal improvements. Under the LAWA Staff-Recommended Alternative, peak daily emissions of SO<sub>2</sub> would not exceed the SCAQMD construction emission thresholds; however, peak daily emissions of CO, VOC, NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> would exceed the SCAQMD construction emissions thresholds. Therefore, the LAWA Staff-Recommended Alternative construction emissions of CO, VOC, NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> would be significant.

*Construction Concentrations*

Construction concentrations for the LAWA Staff-Recommended Alternative would exceed the 1-hour NO<sub>2</sub> CAAQS and NAAQS. In addition, PM<sub>10</sub> concentrations would exceed the 24-hour and annual CEQA thresholds set by SCAQMD. Therefore, the LAWA Staff-Recommended Alternative construction concentrations would be significant for NO<sub>2</sub> and PM<sub>10</sub>. Off-airport peak NO<sub>2</sub> construction-related concentrations are estimated to occur at the western property line of the airport north of the Hyperion Treatment Plant, based on the assumption that much of the construction support equipment/operations would occur in the western portion of the airport south of World Way West, as has been the case for several major construction projects at LAX, such as the South Airfield Improvement Project, the Crossfield Taxiway Project, and the Bradley West Project. Key construction support equipment/operations are assumed to include a concrete/asphalt batch plant(s) and rock crusher, and associated equipment such as loaders and concrete/materials transfer trucks, and construction delivery/haul staging. These facilities and activities would contribute the majority of the NO<sub>2</sub> emissions that drive the peak emissions, while the NO<sub>2</sub> emissions associated with overall construction activities in the north airfield (i.e., runway and taxiway improvements) would be a secondary contributor to the peak NO<sub>2</sub> concentrations. The peak 24-hour and annual PM<sub>10</sub> concentrations are estimated to occur just east of the CTA, near the intersection of Century Boulevard and Sepulveda Boulevard. The sources contributing to this peak concentration would include the construction of the proposed APM, north airfield improvements and north concourse improvements along with the bridge and roadway modifications at the entrance to the CTA. The LAWA Staff-Recommended Alternative construction concentrations would be less than significant for CO, SO<sub>2</sub>, and PM<sub>2.5</sub>.

Sections 2.3.2.1.1 and 2.3.2.1.2 of Part II of the SPAS Final EIR detail the construction emissions and concentrations, respectively, anticipated for the LAWA Staff-Recommended Alternative. With

respect to all construction-related impacts from air emissions associated with the SPAS project, including the LAWA Staff-Recommended Alternative, LAWA is committed to mitigating temporary construction-related emissions to the maximum extent feasible and has established some of the most aggressive construction emissions reduction measures in Southern California, particularly with regard to requiring construction equipment to be equipped with emissions control devices. The framework identified in the Mitigation Plan for Air Quality (MPAQ) for reducing air emissions associated with construction of the Master Plan and the specific means for implementing the mitigation measures described in Section 4.2.5 of the SPAS Draft EIR, as well as all of the measures identified in Table 4.2-8 of the SPAS Draft EIR, would be used to reduce air emissions associated with implementation of the SPAS project. Also, the addition of a new Project-specific mitigation measure, MM-AQ (SPAS)-1, Additional Measures to Supplement the LAX Master Plan Mitigation Plan for Air Quality – Construction-Related Mitigation Measures, as identified in Section 2.3.2.2 and Chapter 5 of Part II of the SPAS Final EIR, which expands the existing LAX Master Plan Mitigation Plan for Air Quality Construction-Related Mitigation Measures, would further reduce construction-related air quality impacts associated with the LAWA Staff-Recommended Alternative. These mitigation measures establish a commitment and process for incorporating all technically feasible air quality mitigation measures into each component of the SPAS project as each element of that project is constructed. At a programmatic level, this provides the most comprehensive means of ensuring air emissions will be reduced to the maximum extent feasible. In addition, the *LAWA Sustainable Airport Planning, Design and Construction Guidelines* encourages contractors to implement a number of voluntary measures that would reduce criteria pollutant and greenhouse gas emissions. Through the sustainability program, contractors are encouraged to implement such measures as: further reduce vehicle and equipment idling times; comply with Tier 4 emission standards for non-road diesel equipment; retrofit existing diesel equipment with particulate filters and oxidation catalysts; replace aging equipment with new low-emission models; and consider the use of alternative fuels for construction equipment. There are no feasible measures that could be adopted at this time to reduce air emissions further. Therefore, no additional project-specific mitigation measures are recommended in connection with SPAS.

### *Cumulative Air Quality - Construction*

Construction air quality impacts tend to be primarily local in nature (i.e., impacts such as fugitive dust and construction equipment emissions are mostly realized in the immediate area around a construction site), although construction-related air pollutant emissions also contribute incrementally to degradation of regional ambient air quality. Cumulative projects with the most notable potential to contribute to cumulative construction air quality impacts, adding to the construction-related impacts associated with the LAWA Staff-Recommended Alternative, would be those under construction at the same time and in the same general vicinity as the LAWA Staff-Recommended Alternative. As such, the geographic study area for evaluation of cumulative construction air quality impacts is focused primarily on projects at LAX and the immediate surroundings. It should be noted, however, that the basis used in this EIR for determining significant air quality impacts, whether project-specific or cumulative, are the thresholds established by the SCAQMD. The SCAQMD is the regional air pollution control agency for the South Coast Air Basin, which includes all of Orange County and the urban portions of Los Angeles, Riverside and San Bernardino counties, and sets forth regulations, policies, and programs designed to address air quality on a regional (Basin-wide) basis.

As described in Section 5.3 of the SPAS Draft EIR, numerous past, present, and reasonably foreseeable development projects are located at and around LAX. Past and present projects involving substantial construction activities include the South Airfield Improvement Project, Taxiway R, the Bradley West Project including Taxiways S and T, and the Central Utility Plant (CUP) Replacement Project. Construction of these projects has been, or is anticipated to be, completed prior to start of construction of SPAS improvements in 2015. There are also several other smaller projects described in Section 5.3 of the SPAS Draft EIR that have been, or would

be, completed prior to 2015 (see anticipated timeframes within the description of each project). Reasonably foreseeable projects involving substantial construction activities between 2015 and 2025, concurrent with construction of SPAS improvements, include the Midfield Satellite Concourse (MSC) and associated taxiways and passenger processor, LAX Northside, and the Metro Crenshaw/LAX Transit Corridor and Station. Additional smaller development projects anticipated to occur during this time period are described in Section 5.3 of the SPAS Draft EIR, as are several other projects for which construction schedules have not yet been determined but would nevertheless contribute to cumulative construction air quality impacts at some point.

According to the SCAQMD, if an individual project results in air emissions of criteria pollutants that exceed the SCAQMD's recommended daily thresholds for project-specific impacts, then the project would also result in a cumulatively considerable net increase of these criteria pollutants. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.

Construction of the past, present, and reasonably foreseeable future projects described above, along with the improvements proposed under the LAWA Staff-Recommended Alternative, would collectively exceed the SCAQMD thresholds of significance; hence, there would be significant cumulative impacts to air quality. As indicated in Sections 2.3.2.1.1 and 2.3.2.1.2 of Part II of the SPAS Final EIR, estimated emissions from construction of the LAWA Staff-Recommended Alternative would exceed the SCAQMD thresholds of significance for CO, VOC, NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>, and concentrations of criteria pollutants from construction would exceed the SCAQMD thresholds of significance for NO<sub>2</sub> and PM<sub>10</sub>. The contribution of the LAWA Staff-Recommended Alternative to cumulative emissions and concentrations of these specific pollutants would, therefore, be cumulatively considerable.

Construction emission and concentration impacts of SO<sub>2</sub> and construction concentration impacts of CO and PM<sub>2.5</sub> would not exceed the SCAQMD thresholds of significance under the LAWA Staff-Recommended Alternative and, therefore, would not be cumulatively considerable relative to these specific pollutants.

Overall, based on the above, construction of the LAWA Staff-Recommended Alternative would result in a cumulatively considerable impact on air quality.

### *Operational Emissions*

Operational emissions for the LAWA Staff-Recommended Alternatives were determined by calculating total airport emissions in 2025 after implementation of the alternative (using a worst case scenario), then subtracting the baseline (2009) emissions. The incremental project emissions for the LAWA Staff-Recommended Alternative were then compared to the significance thresholds for operations. Section 2.3.2.1.3 of Part II of the SPAS Final EIR details the operational emissions anticipated for the LAWA Staff-Recommended Alternative. Many of the pollutant emissions associated with the LAWA Staff-Recommended Alternative are shown as negative values, indicating that the emissions associated with each alternative in 2025 would be lower than the existing emissions in the baseline (2009) conditions. In most cases, these negative values are due primarily to reductions in emissions from on-road motor vehicles (cars and trucks carrying passengers and cargo to and from the airport). As emission standards for motor vehicles continue to become more stringent over time, and the motor vehicle fleet is replaced with newer, less-polluting cars and trucks, the daily emissions from these sources decrease substantially when compared to baseline (2009) conditions. The reduction in motor vehicle emissions occurs even though the total VMT for airport-related trips increases between the baseline (2009) period and 2025. This emissions reduction more than compensates for the growth in emissions from aircraft and APUs for all gaseous pollutants except SO<sub>2</sub>. Fuel sulfur content for motor vehicle fuels, as well as for aircraft fuel, does not change between the baseline (2009) condition and 2025; therefore, SO<sub>2</sub> emissions would increase relative to the baseline (2009) condition as noted above. In addition, fugitive road dust emission factors are assumed to remain constant between 2009 and 2025; thus, PM<sub>10</sub> and PM<sub>2.5</sub> emissions would increase

relative to the growth in vehicle trips between 2009 and 2025. The incremental aircraft emissions associated with the LAWA Staff-Recommended Alternative in 2025 (i.e., buildout year) are measured against the existing aircraft emissions in the baseline (2009) condition. As such, the incremental aircraft emissions of the LAWA Staff-Recommended Alternative include both the growth in aircraft activity anticipated to occur between 2009 and 2025 and the changes in aircraft operations that are attributable to the proposed airfield configuration specific to the LAWA Staff-Recommended Alternative. The majority of emissions that would increase in the future under the LAWA Staff-Recommended Alternative would be from aircraft. If one were to consider airfield emissions (aircraft, APU, and GSE) alone under the LAWA Staff-Recommended Alternative, the thresholds of significance would be exceeded for all criteria pollutants, except PM10; however, based on total emissions compared to baseline (2009) conditions, only the emissions of SO<sub>2</sub>, PM10, and PM2.5 would exceed the daily operational thresholds and cause a significant impact. Therefore, the LAWA Staff-Recommended Alternative operational emissions of SO<sub>2</sub>, PM10, and PM2.5 would be significant relative to baseline (2009) conditions.

Daily operational thresholds would not be exceeded for total emissions of CO, VOC, and NO<sub>x</sub>. These pollutant emissions would not exceed their respective thresholds mainly because of ongoing implementation of more stringent motor vehicle emissions standards and cleaner future fleet mixes in the future, as described above in the introduction to the operational emissions impacts analysis. These anticipated reductions in future motor vehicle emissions would more than offset the estimated increases in other types of emissions, such as from aircraft, APU, and GSE.

### *Operational Concentrations*

Section 2.3.2.1.4 of Part II of the SPAS Final EIR details the operational concentrations anticipated for the LAWA Staff-Recommended Alternative. Ambient concentrations resulting from operations, including background concentrations, for CO, NO<sub>2</sub>, and SO<sub>2</sub> under the LAWA Staff-Recommended Alternative were compared to the appropriate NAAQS and CAAQS. Since the project is located in a nonattainment area for PM10 and PM2.5, the project concentrations are compared against the SCAQMD significance thresholds for short term and annual PM10 and PM2.5, instead of the NAAQS or CAAQS. The estimated operational concentrations indicate that, with the exception of the 1-hour NO<sub>2</sub> CAAQS and NAAQS, all other NAAQS or CAAQS for CO, NO<sub>2</sub>, and SO<sub>2</sub> would not be exceeded. The project incremental concentrations of PM10 would exceed the SCAQMD significance thresholds, and incremental concentrations of PM2.5 would not exceed the thresholds. Implementation of the LAWA Staff-Recommended Alternative would exceed the 1-hour NAAQS for NO<sub>2</sub>, the 1-hour CAAQS for NO<sub>2</sub>, and the SCAQMD significance thresholds for PM10; therefore, the LAWA Staff-Recommended Alternative operational concentrations would be significant for NO<sub>2</sub> and PM10. Aircraft in the takeoff mode would contribute over 95 percent to the peak 1-hour NO<sub>2</sub> concentrations, and the peak 1-hour NO<sub>2</sub> impact locations would be on the LAX property line east of Runway 25R. Emissions from the parking lot and CONRAC located at Manchester Square contribute to the peak daily and annual PM10 concentrations. The peak impact location for PM10 is the northeast corner of Manchester Square.

It is estimated that the LAWA Staff-Recommended Alternative would have significant impacts relative to operational emissions of SO<sub>2</sub>, operational concentrations of NO<sub>2</sub>, and operational concentrations of SO<sub>2</sub>. As indicated in the impacts discussion above, the vast majority (over 95 percent) of the emissions contributing to those significant impacts (i.e., causing exceedances of the applicable 1-hour CAAQS and NAAQS) would occur from aircraft during takeoff. Other than potential future improvements in aircraft engine technology and associated reductions in air pollutant emissions, there are no feasible means to mitigate emissions during aircraft takeoff because the only measures are related to aircraft operational options, such as reduced thrust take-off, which are at the sole discretion of the pilot. However, as noted above, LAWA is committed to mitigating operational air quality impacts to the maximum extent feasible. The LAX Master Plan mitigation measures (i.e., MM-AQ-3, Transportation-Related Mitigation Measures,

and MM-AQ-4, Operations-Related Mitigation Measures) described in Section 4.2.5 of the SPAS Draft EIR, and Section 2.3.2.2 of Part II of the SPAS Final EIR, would also be applied to the SPAS project. Also, the addition of two new Project-specific mitigation measures, MM-AQ (SPAS)-2, Additional Measures to Supplement the LAX Master Plan Mitigation Plan for Air Quality – Transportation-Related Mitigation Measures and MM-AQ (SPAS)-3, Additional Measures to Supplement the LAX Master Plan Mitigation Plan for Air Quality – Operations-Related Mitigation Measures, as identified in Section 2.3.2.2 and in Chapter 5 of Part II of the SPAS Final EIR, which would expand the LAX Master Plan Mitigation Plan to address transportation-related and operations-related emissions, would further reduce operational air quality impacts associated with the LAWA Staff-Recommended Alternative. Although these measures would not mitigate operational impacts to a level that is less than significant, they would reduce impacts associated with the LAWA Staff-Recommended Alternative to the maximum extent feasible. When the specific elements of the SPAS project are implemented, additional project-specific mitigation measures may be identified to further reduce air quality impacts.

### *Cumulative Air Quality Impacts - Operation*

Operational emissions associated with past, present, and reasonably foreseeable future projects such as those described in Section 5.3 of the SPAS Draft EIR would contribute to cumulative criteria pollutant emissions in excess of SCAQMD thresholds of significance; therefore, significant cumulative impacts would occur. Such operational emissions would be both localized, occurring at each project site, and regional in nature relative to mobile source emissions associated with vehicle travel to and from each site. According to the SCAQMD, if an individual project results in air emissions of criteria pollutants that exceed the SCAQMD's recommended daily thresholds for project-specific impacts, then the project would also result in a cumulatively considerable net increase of these criteria pollutants.

Operational emissions and concentrations associated with past, present, and reasonably foreseeable future projects, along with the LAWA Staff-Recommended Alternative, would contribute to cumulative criteria pollutant emissions in excess of SCAQMD thresholds of significance; therefore, significant cumulative impacts would occur. As discussed in Section 2.3.2.1.3 of Part II of the SPAS Final EIR, operational emissions associated with the LAWA Staff-Recommended Alternative would exceed the SCAQMD's threshold for SO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>. The SO<sub>2</sub> exceedance is primarily due to aircraft emissions during takeoff and to auxiliary power units (APUs). Although SO<sub>2</sub> emissions from other cumulative projects would be much more limited, given that the vast majority of non-aviation fuel types are subject to existing regulatory requirements that limit sulfur content to very low levels (i.e., no more than 15 parts per million), the impact of the LAWA Staff-Recommended Alternative relative to SO<sub>2</sub>, which exceeds the SCAQMD threshold of significance, would be a cumulatively considerable contribution to a significant impact for that pollutant. Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> would, under the LAWA Staff-Recommended Alternative, exceed the SCAQMD thresholds of significance due primarily to off-airport vehicle travel, which would also occur with many of the other cumulative projects. The contribution of the LAWA Staff-Recommended Alternative to cumulative impacts for those pollutants would be cumulatively considerable. As discussed in Section 2.3.2.1.4 of Part II of the SPAS Final EIR, concentrations of NO<sub>2</sub> would exceed the SCAQMD's threshold of significance, due primarily to pollutant emissions associated with aircraft takeoffs, and concentrations of PM<sub>10</sub> would also exceed the SCAQMD thresholds of significance. The LAWA Staff-Recommended Alternative would, therefore, also have a cumulatively considerable impact relative to those pollutants. As discussed in Section 2.3.2.2 of Part II of the SPAS Final EIR, mitigation measures would be implemented to address operational impacts; however, no feasible mitigation measures are available to reduce those impacts to a level that is less than significant. Operational emission impacts of CO, VOC, and NO<sub>x</sub>, and operational concentration impacts of CO, PM<sub>2.5</sub>, and SO<sub>2</sub> would not be significant under the LAWA Staff-Recommended Alternative and, therefore, would not be cumulatively considerable relative to those pollutants. Overall, based on the above,

operation of the LAWA Staff-Recommended Alternative would result in a cumulatively considerable impact on air quality.

**Findings:** Based on substantial evidence in the administrative record, including Sections 4.2 and 5.5.2 of the SPAS Draft EIR and Sections 2.3.2 and 2.4.2 of Part II of the SPAS Final EIR, the BOAC hereby finds that changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant construction and operational air quality impact identified in the SPAS Final EIR, including as related to the Project's contribution to cumulative air quality impacts.

LAWA is committed to mitigating temporary construction-related emissions to the maximum extent feasible and has established some of the most aggressive construction emissions reduction measures in Southern California, particularly with regard to requiring construction equipment to be equipped with emissions control devices. Specifically, At least 15 construction-related Master Plan mitigation measures have been identified and establish a commitment and process for incorporating all technically feasible air quality mitigation measures into each component of the SPAS project as each element of that project is constructed. Also, the addition of a new Project-specific mitigation measure, MM-AQ (SPAS)-1, Additional Measures to Supplement the LAX Master Plan Mitigation Plan for Air Quality – Construction-Related Mitigation Measures, as identified in Section 2.3.2.2 and Chapter 5 of Part II of the SPAS Final EIR, will further reduce construction-related air quality and cumulative air quality impacts associated with the LAWA Staff-Recommended Alternative. At a programmatic level, this provides the most comprehensive means of ensuring air emissions will be reduced to the maximum extent feasible. In addition, the *LAWA Sustainable Airport Planning, Design and Construction Guidelines* encourages contractors to implement a number of voluntary measures that will reduce criteria pollutant and greenhouse gas emissions. Through the sustainability program, contractors are encouraged to implement such measures as: further reduce vehicle and equipment idling times; comply with Tier 4 emission standards for non-road diesel equipment; retrofit existing diesel equipment with particulate filters and oxidation catalysts; replace aging equipment with new low-emission models; and consider the use of alternative fuels for construction equipment. There are no feasible measures that could be adopted at this time to reduce air emissions further. Therefore, no additional project-specific mitigation measures are recommended in connection with SPAS.

LAWA is committed to mitigating operational air quality impacts to the maximum extent feasible. The LAX Master Plan mitigation measures (i.e., MM-AQ-3, Transportation-Related Mitigation Measures, and MM-AQ-4, Operations-Related Mitigation Measures) described in Section 4.2.5 of the SPAS Draft EIR would also be applied to the SPAS project. Also, the addition of two new Project-specific mitigation measures, MM-AQ (SPAS)-2, Additional Measures to Supplement the LAX Master Plan Mitigation Plan for Air Quality – Transportation-Related Mitigation Measures and MM-AQ (SPAS)-3, Additional Measures to Supplement the LAX Master Plan Mitigation Plan for Air Quality – Operations-Related Mitigation Measures, as identified in Section 2.3.2.2. and Chapter 5 of Part II of the SPAS Final EIR, will further reduce operational air quality and cumulative air quality impacts associated with the LAWA Staff-Recommended Alternative. Although these measures would not mitigate operational impacts to a level that is less than significant, they will reduce impacts associated with the LAWA Staff-Recommended Alternative to the maximum extent feasible. When the specific elements of the SPAS project are implemented, additional project-specific mitigation measures may be identified to further reduce air quality impacts.

Despite incorporation of these measures, the BOAC hereby finds this impact will remain significant and unavoidable and that specific economic, legal, social, technological, or other considerations make additional mitigation measures or project alternatives infeasible.

**Rationale:** With respect to all construction-related impacts associated with air emissions and concentrations associated with the SPAS project, there are no feasible measures that could be

adopted at this time to reduce air emissions further because the identified mitigation measures already incorporate all technically feasible mitigation. LAWA already has some of the most aggressive construction emissions reduction measures in Southern California, particularly with regard to requiring construction equipment to be equipped with emissions control device (see Section 2.3.2.2 of Chapter 2 of the Final EIR) and will further expand the construction emissions control and reduction requirements through the addition of Mitigation Measure MM-AQ (SPAS)-1. With respect to operational impacts associated with air emissions and concentrations associated with the SPAS project, the vast majority (over 95 percent) of the emissions contributing to those significant impacts would occur from aircraft during takeoff. Other than potential future improvements in aircraft engine technology and associated reductions in air pollutant emissions, there are no feasible means to mitigate emissions during aircraft takeoff because the only measures are related to aircraft operational options, such as reduced thrust take-off, which are at the sole discretion of the pilot and outside of BOAC's control. Nevertheless, as noted above, LAWA is committed to mitigating operational air quality impacts to the maximum extent feasible. Therefore, no additional project-specific mitigation measures are recommended in connection with SPAS.

## **2) Greenhouse Gases**

Impact: A significant impact relative to GHG emissions would occur if the annual GHG emissions per passenger at buildout of the LAWA Staff-Recommended Alternative (i.e., at 78.9 MAP) are not at least 16 percent less than the annual GHG emissions per passenger at baseline conditions (i.e., 56.5 MAP).

Description of Effects: As discussed in Section 4.6 of the SPAS Draft EIR and Section 2.3.6 of Part II of the SPAS Final EIR, implementation of the LAWA Staff-Recommended Alternative would have a significant impact on GHG emissions.

SCAQMD recommends that amortized GHG construction emissions (i.e., total construction emissions divided by the lifetime of the project, assumed to be 30 years) be added to operational emissions to evaluate significance. As a result, construction-related significance is not determined on an individual basis for GHG emissions; rather, the significance of the combined construction-related and operations-related GHG emissions for the LAWA Staff-Recommended Alternative was evaluated.

Operational GHG emissions, plus amortized construction GHG emissions, for the LAWA Staff-Recommended Alternative at buildout of the alternative in 2025, as well as operational GHG emissions for Alternative 4 for comparative purposes (discussed below), compared the per capita (per passenger) emissions for baseline conditions with the LAWA Staff-Recommended Alternative per capita emissions. The determination of per capita emissions is based on 56.5 MAP for baseline (2009) conditions and 78.9 MAP for future (2025) baseline conditions. Where the per capita GHG emissions are not at least 16 percent less than those of baseline conditions, a significant impact is identified. Incremental changes in GHG emissions associated with the LAWA Staff-Recommended Alternative, compared to baseline conditions (detailed in Sections 4.6 and 5.5.6 of the SPAS Draft EIR and Sections 2.3.6 and 2.4.6 of Part II of the SPAS Final EIR), indicated that the majority of increases in GHG emissions compared to baseline conditions would be from aircraft operations, which is entirely attributable to the anticipated growth in airport activity levels that is common to 2025 buildout of any and all of the alternatives, including the LAWA Staff-Recommended Alternative. Although there would be a notable increase in aircraft emissions compared to baseline conditions, the airfield improvements under the LAWA Staff-Recommended Alternative would actually reduce GHG emissions for future conditions if no airfield improvements were implemented. This can be seen in comparing the aircraft emissions between the LAWA Staff-Recommended Alternative and 4, the latter of which includes no airfield improvements other than safety-related improvements. Under the LAWA Staff-Recommended Alternative, aircraft emissions in 2025 would be approximately one percent less than would otherwise occur if no airfield improvements were implemented. Under federal law, LAWA has no

direct control over aircraft operations relative to GHG emissions; however, the airfield improvements proposed by LAWA and the ability of those improvements to enable aircraft to operate more efficiently (i.e., reduce the amount of time that aircraft are operating in the taxi/idle mode) would serve to reduce GHG emissions.

With regards to other increases in GHG emissions under the LAWA Staff-Recommended Alternative compared to baseline conditions, there would be an approximately 30 percent increase in GSE emissions and 36 percent increase in APU emissions, again being attributable to the projected growth in airport activity by 2025 independent of the alternatives. Vehicle-related GHG emissions at buildout of the LAWA Staff-Recommended Alternative would be slightly more than those of baseline conditions. Although the volume of airport-related traffic would increase substantially by 2025, compared to baseline conditions, due the aforementioned projected growth in airport activity, the ongoing implementation of motor vehicle emission control and fuel mileage standards in new vehicles along with the gradual transition to newer, cleaner, and more fuel efficient vehicles over time would result in reduced GHG emissions per vehicle by 2025. The amount of per vehicle GHG emission reductions would largely offset the increase in the volume of vehicles projected to occur between the baseline year and 2025. In comparing the 2025 GHG emissions for the LAWA Staff-Recommended Alternative to those of Alternative 4 (i.e., the alternative with minimal improvements), the vehicle-related emissions of the LAWA Staff-Recommended Alternative would be less. This is primarily due to the improved parking infrastructure that would reduce the number of off-airport roadway trips. Stationary source GHG emissions for the LAWA Staff-Recommended Alternative, as well as all other alternatives, are anticipated to be greater than baseline conditions because of the additional airfield/terminal and ground access components.

On a per capita (per passenger) basis, the GHG emissions associated with implementation of the LAWA Staff-Recommended Alternative would be approximately 14.68 percent less than the per capita (per passenger) GHG emissions for baseline conditions. Notwithstanding that reduction in per capita GHG emissions would be a substantial improvement over baseline conditions, the reduction is less than the 16 percent targeted reduction reflected in the AB 32 Scoping Plan, which is the basis for the threshold of significance in this analysis; hence, the GHG emissions associated with the LAWA Staff-Recommended Alternative would be significant.

The LAWA Staff-Recommended Alternative includes mitigation measures to reduce construction equipment operations/duration, as described in the individual resource sections. Additionally, GHG emissions associated with the LAWA Staff-Recommended Alternative would be reduced directly or indirectly through compliance with LAWA's Sustainable Airport Planning, Design and Construction Guidelines and/or the requirements of the City of Los Angeles Green Building Ordinance. The addition of a new Project-specific mitigation measure, MM-AQ (SPAS)-1, Additional Measures to Supplement the LAX Master Plan Mitigation Plan for Air Quality – Construction-Related Mitigation Measures, as identified in Section 2.3.2.2 and Chapter 5 of Part II of the SPAS Final EIR, would also help reduce construction-related GHG emissions associated with the LAWA Staff-Recommended Alternative. There are no other feasible mitigation measures to reduce construction-related GHG emissions other than those already identified above in Section C.1) relative to Air Quality.

For operational impacts, the LAWA Staff-Recommended Alternative would comply with the requirements of the City of Los Angeles Green Building Ordinance and with LAWA policies and programs related to sustainability and reducing GHG emissions that are implemented on project-specific and on an airport-wide basis. As noted in OPR's Technical Advisory on CEQA and Climate Change, LAWA's programmatic efforts to address GHG emissions agency-wide can be a more effective approach than mitigating GHG emissions at a project level. A comprehensive list of suggested mitigation measures for new development projects throughout the state of California prepared by the California Office of the Attorney General relative to addressing GHG emissions and climate change impacts within an EIR is presented in Table SRA-2.3.6-3 in Section 2.3.6 of Part II of the SPAS Final EIR. The list prepared by OPR is presented in Table SRA-2.3.6-4 in

Section 2.3.6 of Part II of the SPAS Final EIR and presents examples of measures that have been used by some public agencies to reduce GHG emissions.

### *Cumulative GHG Impacts*

The analysis of GHG, by its nature, considers cumulative conditions in that it evaluates the contributions of the LAWA Staff-Recommended Alternative in the context of global changes in the concentrations of atmospheric pollutants and their cumulative impact on global climate change. Due to the global nature of GHG emissions and their potential effects, GHG emissions are typically addressed in a cumulative impacts analysis. As indicated in Section 5.5.6 of the SPAS Draft EIR and Section 2.4.6 of Part II of the SPAS Final EIR, construction and operation of the LAWA Staff-Recommended Alternative would result in a significant impact relative to GHG emissions, primarily related to construction activities, aircraft operations, GSE, APU, and motor vehicle operations, when compared to baseline conditions. Cumulative development in the region, and at LAX specifically, would also result in increased GHG emissions as a result of construction and operational activity. As mentioned above, the LAWA Staff-Recommended Alternative would result in lower GHG emissions from aircraft operations, which is the primary source of GHG emission increases compared to baseline conditions, than would otherwise occur in 2025 without the project. The LAWA Staff-Recommended Alternative would comply with requirements of the City of Los Angeles Green Building Code, which includes a number of measures that serve to reduce GHG emissions. On a per capita (per passenger) basis, implementation of the LAWA Staff-Recommended Alternative would result in approximately 14.7 percent less GHG emissions than the per capita GHG emissions associated with baseline conditions. The California Assembly Bill (AB) 32 Scoping Plan indicates that at least a 16 percent reduction in GHG emissions is necessary to achieve the goal of reducing GHG emissions projected to occur in California by 2020 under "business as usual" down to levels that occurred in the state in 1990. Meeting this GHG reduction goal statewide is intended to address cumulative GHG emissions within the state. Given that the LAWA Staff-Recommended Alternative cannot achieve a 16 percent reduction in GHG emissions, on a per capita basis compared to baseline conditions, the resultant significant GHG emissions impact would be cumulatively considerable.

**Findings:** Based on substantial evidence in the administrative record, including Sections 4.6 and 5.5.6 of the SPAS Draft EIR and Sections 2.3.6 and 2.4.6 of Part II of the SPAS Final EIR, the BOAC hereby finds that changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant GHG impact identified in the SPAS Final EIR. Specifically, the LAWA Staff-Recommended Alternative includes mitigation measures to reduce construction equipment operations/duration (described under each resource). The proposed addition of a new Project-specific mitigation measure, MM-AQ (SPAS)-1, Additional Measures to Supplement the LAX Master Plan Mitigation Plan for Air Quality – Construction-Related Mitigation Measures, as identified in Section 2.3.2.2 and Chapter 5 of Part II of the SPAS Final EIR, will also help reduce construction-related GHG emissions associated with the LAWA Staff-Recommended Alternative. Furthermore, GHG emissions associated with the LAWA Staff-Recommended Alternative will be reduced directly or indirectly through compliance with LAWA's Sustainable Airport Planning, Design and Construction Guidelines and/or the requirements of the City of Los Angeles Green Building Ordinance. There are no other feasible mitigation measures to reduce construction-related GHG emissions other than those already identified in Section 4.6.5 and in Section 4.2, Air Quality, of the SPAS Draft EIR and Section 2.3.2 of Part II of the SPAS Final EIR.

For operational impacts, the LAWA Staff-Recommended Alternative will comply with the requirements of the City of Los Angeles Green Building Ordinance and with LAWA policies and programs related to sustainability and reducing GHG emissions that are implemented on project-specific and on an airport-wide basis, as well as suggested mitigation measures for new development projects throughout the state of California as identified by the California Office of the Attorney General and OPR. The proposed addition of two new Project-specific mitigation measures, MM-AQ (SPAS)-2, Additional Measures to Supplement the LAX Master Plan

Mitigation Plan for Air Quality – Transportation-Related Mitigation Measures and MM-AQ (SPAS)-3, Additional Measures to Supplement the LAX Master Plan Mitigation Plan for Air Quality – Operations-Related Mitigation Measures, as identified in Section 2.3.2.2 and Chapter 5 of Part II of the SPAS Final EIR, will also help to reduce operational GHG emissions associated with the LAWA Staff-Recommended Alternative.

As discussed above, the LAWA Staff-Recommended Alternative will result in a significant cumulative impact with respect to GHGs. The LAWA Staff-Recommended Alternative will result in lower emissions from aircraft operations and comply with requirements of the City of Los Angeles Green Building Code. However, because the LAWA Staff Recommended Alternative will not achieve a 16 percent reduction in GHG emissions, on a per capita basis compared to baseline conditions, the significant GHG emissions impact would be cumulatively considerable.

Despite incorporation of these measures, the BOAC hereby finds this impact will remain significant and unavoidable and that specific economic, legal, social, technological, or other considerations make additional mitigation measures or project alternatives infeasible.

Rationale: Continued implementation of LAWA's existing practices and programs that promote sustainability and reduction in GHG emissions, along with compliance with the City of Los Angeles Green Building Ordinance, plus the proposed addition of the three new Project-specific mitigation measures described above, would help reduce GHG emissions associated with the LAWA Staff-Recommended Alternative; however, the GHG emissions associated with the LAWA Staff-Recommended Alternative will remain significant and unavoidable. Although these measures would not mitigate operational impacts to a level that is less than significant, they would reduce impacts associated with the LAWA Staff-Recommended Alternative to the maximum extent feasible, and are responsive to the applicable GHG reduction measures and strategies set forth by the California Office of the Attorney General and the Governor's Office of Planning and Research (see Tables 4.6-7 and 4.6-8 in the SPAS Draft EIR). When the specific elements of the SPAS project are implemented, additional project-specific mitigation measures may be identified to further reduce air quality impacts.

### **3) Human Health Risk Assessment**

Impact: A significant incremental impact to human health would occur if changes in airport operations following implementation of the LAWA Staff-Recommended Alternative would result in the following future condition:

- ◆ A total incremental acute hazard index greater than, or equal to, one for any target organ system at any receptor location.

Description of Effects: As discussed in Sections 4.7.1 and 5.5.7.1 of the SPAS Draft EIR and Sections 2.3.7.1 and 2.4.7.1 of Part II of the SPAS Final EIR, incremental health impacts associated with inhalation of TAC released during construction and during airport operations following implementation of the LAWA Staff-Recommended Alternative. As described below, only acute non-cancer health hazards were determined to be significant and unavoidable, and would also likely be cumulatively considerable if other regional projects contribute positively to the total regional acute hazards.

#### *Acute Non-Cancer Health Hazards*

Acrolein and formaldehyde are the only TAC of concern in emissions from LAX that might be present at concentrations approaching the threshold for acute effects. Acrolein is responsible for the majority of all predicted acute non-cancer health hazards associated with LAX SPAS operations and is primarily associated with aircraft emissions. (For a detailed discussion of uncertainties regarding the presence of acrolein in aircraft emissions, see Section 7.3 of Technical Report S-9a of the LAX Master Plan Final EIR.) Acute exposures to acrolein may result in mild irritation of eyes and mucous membranes. Primary sources of formaldehyde are emissions from gasoline and diesel powered equipment. Acute effects for exposure to

formaldehyde would typically include irritation to the eye and respiratory system and possibly adverse effects to the immune system. Maximum acute non-cancer health hazards associated with exposure to acrolein and formaldehyde from LAX SPAS operations under the LAWA Staff-Recommended Alternative are summarized in Tables SRA-2.3.7.1-3 and SRA-2.3.7.1-4 of Part II of the SPAS Final EIR. Acute non-cancer health hazards for TAC other than acrolein and formaldehyde are orders of magnitude below 1 and below the acute non-cancer health hazards estimated for short-term exposure to acrolein and formaldehyde.

SPAS-related maximum acute hazard quotients for acrolein after buildout of the LAWA Staff-Recommended Alternative are estimated to be 3.0 for residents living at the peak hazard location, 1.2 for school children, 1.4 for recreational users, and 1.6 for off-site adult workers. 240 of 326 off-site grid nodes have incremental acute hazard quotients for acrolein of less than 1. Of the 86 grid nodes with incremental acute hazard quotients for acrolein greater than 1, only five of the grid nodes are greater than 2. These grid nodes are located north of Runway 6L/24R in the north airfield (grid nodes 66 to 70). The acute REL for acrolein has an uncertainty factor of 60. This factor indicates a moderate uncertainty in the REL based on specific sources of variability not addressed in the toxicological studies, such as individual variation and interspecies differences. Although the maximum acute hazard quotient for acrolein after buildout of the LAWA Staff-Recommended Alternative is greater than 1, it should be noted that the acute REL is set at or below a level at which no adverse health impacts are expected for the majority of the population. Hence, it represents the tail-end of a distribution and not a specific "bright line" beyond which adverse effects are certain; instead any adverse acute non-cancer health effects (mucous membrane irritation) would be part of a complex probabilistic process. Although the maximum acute hazard quotient estimated as 3.0 is above the threshold of significance of 1, the value is still close to the threshold for acute effects, given the uncertainty in the toxicity factor, and may represent minimal actual acute non-cancer health hazards. Thus, an acute hazard quotient of 3.0 does not mean that adverse effects would definitely occur in the receptor population; rather, it indicates that such effects cannot be ruled out on the basis of current knowledge.

SPAS-related maximum acute hazard quotients for formaldehyde under the LAWA Staff-Recommended Alternative are estimated to be 0.6 for residents living at the peak hazard location, 0.2 for school children, 0.3 for recreational users, and 0.4 for off-site adult workers.

Because maximum acute hazard quotients for acrolein for all analyzed receptors (residents, recreational users, school child, and off-site adult workers) are slightly above the threshold of significance of 1, acute non-cancer health hazard impacts under the LAWA Staff-Recommended Alternative would be significant.

#### *Cumulative Impacts Related to Acute Non-Cancer Health Hazards*

As described above, predicted concentrations of TAC released from operational activities for the LAWA Staff-Recommended Alternative suggest that slight impacts to human health may occur associated with acute non-cancer health hazards. The assessment of cumulative acute non-cancer health hazards follows the methods used to evaluate cumulative acute non-cancer health hazards presented in the LAX Master Plan Final EIR (Section 4.24.1.7 and Technical Report S-9a, Section 6.3), incorporating updated National-Scale Air Toxics Assessment (NATA) tables from 2005. USEPA-modeled emission estimates by census tract were used to estimate annual average ambient air concentrations. These census tract emission estimates are subject to high uncertainty, and USEPA warns against using them to predict local concentrations. Thus, for the analysis of cumulative acute non-cancer health hazards, estimates for each census tract within the HHRA study area were identified, and the range of concentrations was used as an estimate of the possible range of annual average concentrations in the general vicinity of the airport. This range of concentrations was used to estimate a range of acute non-cancer hazard indices using the same methods as described in the LAX Master Plan Final EIR (Section 4.24.1.7 and Technical Report S-9a, Section 6.1). This range of hazard indices was then used as a basis for comparison with estimated maximum acute non-cancer health hazards for the LAWA Staff-

Recommended Alternative. The relative magnitude of acute non-cancer health hazards calculated on the basis of the USEPA estimates and maximum hazards estimated for the LAWA Staff-Recommended Alternative were taken as a general measure of relative cumulative impacts. Emphasis must be placed on the relative nature of these estimates. Uncertainties in the analysis preclude estimation of absolute impacts.

When USEPA annual average estimates are converted to possible 1-hour maximum concentrations, acute hazard indices associated with total acrolein concentrations are estimated to range from 0.03 to 1.5, with an average of 0.4, for locations within the HHRA study area. The predicted overall maximum incremental acute non-cancer health hazard associated with acrolein for the LAWA Staff-Recommended Alternative is 3.0. USEPA modeled acute hazard indices associated with formaldehyde exposure are estimated to range from 0.1 to 2.2, with an average of 1.0, for locations within the HHRA study area. The predicted maximum acute non-cancer health hazard associated with formaldehyde for the operation of the LAWA Staff-Recommended Alternative is 0.64. Results suggest that the LAWA Staff-Recommended Alternative would add to total 1-hour maximum acrolein concentrations at some locations in the HHRA study area and, therefore, to cumulative acute non-cancer health hazards associated with exposure to acrolein.

Although no defined thresholds for cumulative health risk impacts are available, it is the policy of the SCAQMD to use the same significance thresholds for cumulative impacts as for the project-specific impacts analyzed in the EIR. If cumulative health risks are evaluated following this SCAQMD policy, the project's contribution to the cumulative cancer risk would not be cumulatively considerable since the incremental cancer risk impacts of the LAWA Staff-Recommended Alternative are all negative (i.e., beneficial) and thus below the individual cancer risk significance thresholds of 10 in one million. However, the SCAQMD policy does have different significance thresholds for project-specific and cumulative impacts for hazard indices for TAC emissions. A project-specific significance threshold is 1.0 while the cumulative threshold is 3.0. Acute non-cancer hazard indices would be at the cumulative threshold of 3.0 for the LAWA Staff-Recommended Alternative, and, therefore, also would likely be cumulatively considerable if it assumed that other planned regional projects would contribute positively to the total regional acute hazards.

Findings: Based on substantial evidence in the administrative record, including Sections 4.7.1 and 5.5.7.1 of the SPAS Draft EIR and Sections 2.3.7.1 and 2.4.7.1 of Part II of the SPAS Final EIR, the BOAC hereby finds that changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant human health risk impact identified in the SPAS Final EIR.

LAWA is committed to mitigating emissions to the maximum extent feasible from construction activities, temporary changes in operations associated with construction of the LAWA Staff-Recommended Alternative, and long-term operational activities at LAX. A comprehensive mitigation program was developed as part of the LAX Master Plan Final EIR and the specific means for implementing the mitigation measures, described in Section 4.2.5 of the SPAS Draft EIR, will also be applied to the LAWA Staff-Recommended Alternative. Also, the proposed addition of a new Project-specific mitigation measure, MM-AQ (SPAS)-1, Additional Measures to Supplement the LAX Master Plan Mitigation Plan for Air Quality – Construction-Related Mitigation Measures, as identified in Section 2.3.2.2 and Chapter 5 of Part II of the SPAS Final EIR, will further reduce construction-related air pollutant emissions associated with the LAWA Staff-Recommended Alternative. Similarly, the proposed addition of two new Project-specific mitigation measures, MM-AQ (SPAS)-2, Additional Measures to Supplement the LAX Master Plan Mitigation Plan for Air Quality – Transportation-Related Mitigation Measures and MM-AQ (SPAS)-3, Additional Measures to Supplement the LAX Master Plan Mitigation Plan for Air Quality – Operations-Related Mitigation Measures, as identified in Section 2.3.2.2 and Chapter 5 of Part II of the SPAS Final EIR, will further reduce operations-related air pollutant emissions associated with the LAWA Staff-Recommended Alternative. Although developed to address air quality impacts, this program will also reduce impacts to human health associated with exposure

to TAC, because this mitigation program establishes a commitment and process for incorporating all technically feasible air quality mitigation measures into each component of the LAWA Staff-Recommended Alternative as that element is constructed. At the programmatic level of this EIR, there are no additional feasible measures available to address acute non-cancer health hazard impacts, which would remain significant. In addition, LAWA's construction contract specifications include requirements from the LAX Master Plan Community Benefits Agreement that serve to reduce construction equipment emissions, particularly those related to diesel emissions. Such measures include: reduce vehicle and equipment idling times, comply with Tier 4 emission standards for non-road diesel equipment, retrofit existing diesel equipment with particulate filters and oxidation catalysts, replace aging equipment with new low-emission models, consider the use of alternative fuels for construction equipment. These reductions in emissions will translate into reductions in risks and hazard impacts.

The LAWA Staff-Recommended Alternative would also be at the threshold of significance for acute non-cancer hazard indices and, therefore, would also likely be cumulatively considerable if it is assumed that other planned regional project would contribute positively to the total regional acute hazards.

LAX Master Plan mitigation measures, as well as SPAS-specific mitigation measures, will reduce TAC emissions associated with the LAWA Staff-Recommended Alternative. However, even with implementation of these measures, acute non-cancer health hazards at some fence-line receptors will exceed the threshold of significance under the LAWA Staff-Recommended Alternative, compared to 2009 baseline conditions. As such, acute non-cancer health hazard impacts under the LAWA Staff-Recommended Alternative are considered to be significant and unavoidable. Despite incorporation of these measures, the BOAC hereby finds this impact will remain significant and unavoidable and that specific economic, legal, social, technological, or other considerations make additional mitigation measures or project alternatives infeasible.

Rationale: LAX Master Plan mitigation measures and SPAS Project-specific mitigation measures would reduce TAC emissions associated with the LAWA Staff-Recommended Alternative. However, even with implementation of these measures, acute non-cancer health hazards due to exposure to acrolein at some fence-line receptors would exceed the threshold of significance under the LAWA Staff-Recommended Alternative, compared to 2009 baseline conditions. The emission of acrolein is from operation of aircraft engines, which cannot be regulated or controlled by LAWA; hence, additional mitigation measures to address this impact are infeasible. As such, acute non-cancer health hazard impacts under the LAWA Staff-Recommended Alternative are considered to be significant and unavoidable, and may also result in a cumulatively considerable contribution to cumulative impacts related to acute non-cancer health hazards.

#### **4) Land Use and Planning: Aircraft Noise Exposure**

Impact: A significant land use impact would occur if the direct and indirect changes in the environment caused by the LAWA Staff-Recommended Alternative would result in the following future condition:

- ◆ Create physical incompatibility with existing land uses through increased aircraft noise exposure.

Description of Effects: As discussed in Sections 4.9 and 5.5.9 of the SPAS Draft EIR and Sections 2.3.9 and 2.4.9 of Part II of the SPAS Final EIR, the land use incompatibility analysis is focused on incompatibility associated with aircraft noise exposure. The analysis evaluates future (2025) noise levels associated with the LAWA Staff-Recommended Alternative compared to baseline (2009) conditions. However, the vast majority of the change in future conditions compared to baseline conditions is attributable to growth in aviation activity anticipated to occur at LAX by 2025. Aircraft-related noise impacts that are attributable to project-related changes in the airfield configuration are also identified in Sections 4.10.1 and 5.5.10.1 of the SPAS Draft EIR and Sections 2.3.10.1 and 2.4.10.1 of Part II of the SPAS Final EIR.

### *Changes in Overall Noise Exposure*

The environmental impacts of high noise levels on noise-sensitive land uses under the LAWA Staff-Recommended Alternative are described here. This analysis identifies significant impacts on those noise-sensitive uses newly exposed to noise levels 65 CNEL or higher, increases of 1.5 CNEL or higher within the 65 CNEL or higher noise contours, and increases in noise levels below 65 CNEL compared to 2009 baseline conditions. Compared to 2009 baseline conditions, the most notable changes under the LAWA Staff-Recommended Alternative would include an increase in noise exposure within the City of Inglewood and City of Los Angeles. The overall net change in total area (on- and off-airport) exposed to 65 CNEL or higher noise levels in 2025 would increase by 1,450 acres compared to 2009 baseline conditions. Compared to 2009 baseline conditions, the overall number of incompatible land uses would be increased by 4,370 dwelling units, 13,160 residents, and 43 non-residential noise-sensitive facilities by 2025.

### *Newly Exposed Areas*

Under the LAWA Staff-Recommended Alternative, 4,918 dwelling units, 13,445 residents, and 44 non-residential noise-sensitive facilities would be newly exposed in 2025 compared to 2009 baseline conditions (see Table SRA-2.3.9-2 in Part II of the SPAS Final EIR). Impacts on these noise-sensitive uses would be considered incompatible under Title 21. Also considered incompatible under Title 21 are all residential areas having habitable exterior areas including balconies, patios, and yards exposed to noise levels of 75 CNEL or higher (even if interior noise levels are reduced to 45 CNEL). This outdoor noise standard is also referenced in a more limited fashion under the 14 CFR Part 150 Land Use Compatibility Guidelines. As stated in 14 CFR Part 150, certain outdoor land uses, such as parks, that are exposed to noise levels above 75 CNEL may be considered incompatible. These standards recognize that high noise levels have the potential to affect outdoor speech and the quality of outdoor activities. Under this alternative, two parks and 4.07 acres (41 units) of residential uses would be newly exposed to noise levels of 75 CNEL or higher compared to 2009 baseline conditions. No schools would be newly exposed to these noise levels. Although exposure of non-residential noise-sensitive facilities to outdoor noise levels in the 65 to 75 CNEL range is not considered to be a significant impact under CEQA, areas exposed to these noise levels would still have some impact on outdoor speech and the quality of outdoor activities. With implementation of LAX Master Plan Mitigation Measure MM-LU-1, these impacts would be less than significant with the exception of interim impacts prior to completion of noise insulation or land recycling, and impacts on residential uses with outdoor private habitable areas, or parks that would be newly exposed to noise levels of 75 CNEL or higher. These residual impacts would remain significant.

### *Increases in 1.5 CNEL*

Some noise-sensitive uses would experience a noise increase of 1.5 CNEL or higher within the 65 CNEL or higher noise contours in 2025. The number of residential units, population, and non-residential noise-sensitive facilities experiencing this level of noise increase within the 65 CNEL contour in 2025 compared to 2009 baseline conditions includes 5,296 dwelling units, 13,608 residents, and 48 non-residential noise-sensitive facilities would experience substantial noise level increases in 2025. With implementation of LAX Master Plan Mitigation Measure MM-LU-1, these impacts would be less than significant with the exception of interim impacts prior to completion of noise insulation or land recycling, and impacts on residential uses with outdoor private habitable areas, or parks that would be newly exposed to noise levels of 75 CNEL or higher. These residual impacts would remain significant.

### *Increase In Noise Levels Below 65 CNEL*

As presented in Section 2.3.10.1 of Part II of the SPAS Final EIR, under the LAWA Staff-Recommended Alternative, two non-residential noise-sensitive facilities (places of worship) would be exposed to increases of 3 CNEL between 60 and 65 CNEL. Both of these uses are located in the City of Los Angeles in the Westchester community. However, such increases would not rise

to the level of being a significant impact. No noise-sensitive uses would be exposed to increases of 5 CNEL or higher below 60 CNEL.

*Cumulative Aircraft Noise Impacts*

As indicated above, implementation of the LAWA Staff-Recommended Alternative would result in significant aircraft noise impacts to noise-sensitive uses around the airport. These impacts can be reduced through implementation of LAX Master Plan commitments and mitigation measures, compliance with Title 24 requirements, and review of certain projects located within the airport influence area by the Airport Land Use Commission (ALUC) for compliance with the Los Angeles County Airport Land Use Plan (ALUP), but interim impacts prior to implementation of mitigation measures or certain residential uses with outdoor private habitable areas or parks that are newly exposed to outdoor noise levels of 75 CNEL or higher would be significant and unavoidable. In light of such impacts, implementation of the LAWA Staff-Recommended Alternative would have a cumulatively considerable contribution to significant future aircraft noise impacts on existing and potential future noise-sensitive uses within the 65 CNEL and higher noise contours.

Findings: Based on substantial evidence in the administrative record, including Sections 4.9 and 5.5.9 of the SPAS Draft EIR and Sections 2.3.9 and 2.4.9 of Part II of the SPAS Final EIR, the BOAC hereby finds that changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant land use and planning – aircraft noise exposure impact identified in the SPAS Final EIR. Specifically, Master Plan Mitigation Measure MM-LU-1 and other measures described in SPAS Draft EIR Sections 4.9.3.3 and 4.10.1.5 will be incorporated into the Project's design.

Despite incorporation of mitigation, the BOAC hereby finds this impact will remain significant and unavoidable and that specific economic, legal, social, technological, or other considerations make additional mitigation measures or project alternatives infeasible.

Rationale: Implementation of LAX Master Plan Mitigation Measure MM-LU-1, as well as the other measures described in SPAS Draft EIR Sections 4.9.3.3 and 4.10.1.5 would reduce, but not eliminate, aircraft noise impacts on residential uses and non-residential noise-sensitive facilities newly exposed to noise levels of 65 CNEL or higher associated with the LAWA Staff-Recommended Alternative. No additional mitigation measures are available to address aircraft noise.

**5) Aircraft Noise**

Impact: A significant aircraft noise impact would occur if the direct and indirect changes to aircraft operations patterns in the environment that may be caused by the LAWA Staff-Recommended Alternative would result in the following future condition:

- ◆ Noise-sensitive areas are exposed to 65 CNEL or greater with at least a 1.5 CNEL increase.

Description of Effects: As discussed in Sections 4.10.1 and 5.5.10.1 of the SPAS Draft EIR and Sections 2.3.10.1 and 2.4.10.1 of Part II of the SPAS Final EIR, the impacts analysis provides a discussion of operational conditions assumed as part of the LAWA Staff-Recommended Alternative and a comparison of the future (2025) aircraft noise levels of the LAWA Staff-Recommended Alternative to the baseline (2009) noise levels with respect to CNEL noise exposure contours.

The evaluation of aircraft noise impacts includes a comparison of aircraft noise levels associated with completion of the LAWA Staff-Recommended Alternative by 2025 to the aircraft noise levels associated with baseline (2009) conditions. Passenger activity levels at LAX between 2009 and 2025 are forecast to increase from approximately 56.5 MAP to 78.9 MAP for all SPAS alternatives, including the LAWA Staff-Recommended Alternative, which would be accompanied by an increase in the number of daily flights at LAX, as well as an anticipated change in the fleet mix (i.e., size and types of aircraft) during that time. The number of average annual daily aircraft

operations is forecasted to increase from 1,493 in 2009 to 1,937 in 2025. The number of heavy (aircraft weighing over 300,000 pounds, identified as "SWB" (Small Wide-Body Aircraft), "LWB" (Large Wide-Body Aircraft), and "NLA" (New Large Aircraft) jet operations in 2025 is projected to increase to 441 on an average day from 239 in 2009, while the number of non-jet (i.e., propeller) aircraft operations in 2025 is projected to decrease to 148 on an average day from 158 in 2009. The proportion of light jets in the fleet mix would shrink slightly in 2025 as compared to 2009.

The improvements to the north airfield under the LAWA Staff-Recommended Alternative, operating in conjunction with the existing configuration of the south airfield, along with the forecasted growth in activity at LAX by 2025 would change the airport's 2009 noise exposure pattern. A general increase in the overall size of the LAWA Staff-Recommended Alternative noise exposure contour in 2025, as compared to 2009 conditions, would result in more total noise energy being generated within the airport environs on an average day with an increase in aircraft operations, and particularly heavy jet aircraft operations. The 260 feet northward relocation of Runway 6L/24R for landings on Runway 24R is expected to change the arrival and landing noise 260 feet north compared to 2009 conditions. The relocation of the high-speed runway exits for landings on Runway 24R would provide additional exits for heavy aircraft to use when landing on Runway 24R, as the current locations of the exits preclude heavy aircraft from using them. This change is not expected to increase the overall size of the CNEL noise exposure contours, because aircraft would be able to exit with reduced reverse thrust. The Runway 24L extension of 1,250 feet to the east is expected to move start-of-takeoff roll noise levels to the northwest and northeast behind the runway end, and slightly increase due to the additional small wide-body departures from Runway 24L. With the extension, the enhanced balance of small wide-body aircraft departures between the south and north airfields is expected to decrease start-of-takeoff roll noise from Runway 25R to the east.

The most notable change from the baseline (2009) conditions to the LAWA Staff-Recommended Alternative conditions is attributable to the projected growth in aircraft activity from 2009 to 2025. As the number of aircraft operations grows, it is expected that the area exposed to significant levels of aircraft noise will grow as well. While the noise exposure contours for the LAWA Staff-Recommended Alternative are larger in comparison to baseline (2009) conditions, the overall shape of the contours remains similar. With the 260-foot shift of Runway 6L/24R to the north, the 65 CNEL noise exposure contour for the north airfield is expected to expand more to the north than to the south, particularly with respect to the north side along the arrival path to Runway 6L/24R.

### *Affected Noise-Sensitive Uses*

The LAWA Staff-Recommended Alternative scenario would result in a net increase of the land area within the 65 CNEL noise exposure contours, as well as increase in the number of dwellings, population, and non-residential noise-sensitive facilities located within the 65 CNEL (or higher) noise exposure contours. Specifically, an additional 13,160 people, 4,370 additional dwelling units, and 43 additional non-residential noise-sensitive facilities are expected to be exposed to 65 CNEL or higher noise exposure levels, compared to baseline (2009) conditions. These noise-sensitive uses would be exposed to 65 CNEL or greater with at least a 1.5 CNEL increase as compared to baseline (2009) conditions, and therefore impacts would be significant. The significant impacts would be located principally along the approach to the north and south airfield. Within this area are an estimated 5,296 dwellings and 13,608 residents, as well as 48 non-residential noise-sensitive facilities, including 19 schools, 19 places of worship, 9 parks, and 1 convalescent hospital (these values include both noise sensitive receptors that would be newly exposed to 65 CNEL or greater with at least a 1.5 CNEL increase and also include those sensitive receptors that are currently/already exposed to 65 CNEL or greater and would experience at least a 1.5 CNEL increase). While there would also be increases in existing noise levels in areas beyond the 65 CNEL contour (i.e., areas with exterior noise levels less than 65 dBA CNEL), such increases would not rise to the level of being a significant impact.

As discussed in Section 4.10.1.7 of the SPAS Draft EIR, the abatement and mitigation of aircraft noise may be accomplished in two general ways: 1) by reducing the loudness of the noise source or increasing the distance of the noise source from the receptor on the ground or 2) by modifying the receptor to make it less affected by noise. The LAWA Staff-Recommended Alternative would entail a northbound shift of the centerlines of Runways 6L/24R. Relocated Runway 6L/24R is planned 260 feet north of the existing Runway 24R centerline. The noise abatement measures and classroom disruption and children's ability to learn presented in Section 4.10.1.5 of the SPAS Draft EIR would continue to be implemented, as would all other current measures. Land use measures to mitigate noise impacts, that are not related to classroom disruption are identified and discussed in Section 4.9.3.3 of the SPAS Draft EIR, as amended by Chapter 5 of Part II of the SPAS Final EIR (i.e., the addition of LAX Master Plan Mitigation Measures MM-LU-3 and MM-LU-4). To continue noise abatement techniques, new/replacement procedures are assumed for westerly departures from each relocated runway end to ensure that aircraft reach the coastline before making turns. Although LAX Master Plan Commitment N-1 and LAX Master Plan Mitigation Measure MM-N-4 would reduce aircraft noise impacts compared with conditions that would exist without those measures, they cannot fully mitigate the noise impacts associated with implementation of the LAWA Staff-Recommended Alternative. Further, no other operational noise abatement measures are available to fully mitigate the noise impacts of the LAWA Staff-Recommended Alternative. Also, because the land use mitigation measures would take several years to fully implement, it is possible that significant noise impacts would be experienced in the area after implementation of the LAWA Staff-Recommended Alternative but before the mitigation measures are fully implemented.

### *Cumulative Aircraft Noise Impacts on Sensitive Receptors*

For the purpose of calculating the LAWA Staff-Recommended Alternative's contribution to cumulative impacts, a comparison of the future (2025) aircraft noise levels to the future (2025) aircraft noise levels that would otherwise occur without such improvements was performed. The potential for cumulative aircraft noise impacts is defined primarily by past, present, and reasonably foreseeable future operations at LAX. Although there are other airports in the nearby area, such as Hawthorne Municipal Airport approximately five miles southeast of LAX and Compton Airport approximately ten miles southeast of LAX, they are primarily small municipal airports with relatively few daily operations compared to LAX and flight paths separate from the primary arrivals and departure routes for LAX. Commercial airports, such as Bob Hope International Airport approximately 20 miles northeast of LAX and Long Beach International Airport approximately 15 miles southeast of LAX, have higher daily operations than the aforementioned local airports and may share some of the same regulated air space routes as operations at LAX; however, such common use of regulated air space would occur at higher altitudes that would not contribute appreciably to cumulative noise levels on the ground in the vicinity of LAX.

The aircraft noise impacts analysis presented in Section 2.3.10.1 of Part II of the SPAS Final EIR, accounts for present operations at LAX (i.e., baseline [2009] conditions) and reasonably foreseeable future operations at LAX (i.e., future [2025] conditions). In general, aircraft noise conditions have improved over the past two decades at most major airports in the U.S. with the federally-mandated phase-out of older noisier (FAR Part 36 Stage 2) aircraft. This is evidenced by the fact that the 65 CNEL contours for LAX under current and future conditions are generally smaller than the 65 CNEL for LAX from two decades ago.

Implementation of the LAWA Staff-Recommended Alternative would result in significant aircraft noise impacts at buildout in 2025, compared to baseline conditions. Although LAX Master Plan Commitment N-1 and LAX Master Plan Mitigation Measure MM-N-4 would reduce aircraft noise impacts, they cannot fully mitigate the noise impacts associated with implementation of the LAWA Staff-Recommended Alternative. Further, no other operational noise abatement measures are available to fully mitigate the noise impacts of the LAWA Staff-Recommended Alternative. Based

on the above, implementation of the LAWA Staff-Recommended Alternative would have a cumulatively considerable contribution to significant future aircraft noise impacts.

**Findings:** Based on substantial evidence in the administrative record, including Sections 4.10.1 and 5.5.10.1 of the SPAS Draft EIR and Sections 2.3.10.1 and 2.4.10.1 of Part II of the SPAS Final EIR, the BOAC hereby finds that changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant aircraft noise impact identified in the SPAS Final EIR. Specifically, LAX Master Plan Commitment N-1 and LAX Master Plan Mitigation Measure MM-N-4, as well as the other measures described in SPAS Draft EIR Sections 4.9.3.3 and 4.10.1.5, will be incorporated into the Project's design.

Despite incorporation of these measures, the BOAC hereby finds this impact will remain significant and unavoidable and that specific economic, legal, social, technological, or other considerations make additional mitigation measures or project alternatives infeasible.

**Rationale:** In general, aircraft noise conditions have improved over the past two decades at most major airports in the U.S. with the federally-mandated phase-out of older noisier (FAR Part 36 Stage 2) aircraft. Although LAX Master Plan Commitment N-1 and LAX Master Plan Mitigation Measure MM-N-4 would reduce aircraft noise impacts, they cannot fully mitigate the noise impacts associated with implementation of the LAWA Staff-Recommended Alternative. Further, no other operational noise abatement measures are available to fully mitigate the noise impacts of the LAWA Staff-Recommended Alternative. Also, because the land use mitigation measures would take several years to fully implement, it is possible that significant noise impacts would be experienced in the area after implementation of the LAWA Staff-Recommended Alternative but before the mitigation measures are fully implemented. In addition, as further discussed in Section 2.3.9 of Part II of the SPAS Final EIR, certain residential uses with outdoor private habitable areas, or parks would be newly exposed to noise levels of 75 CNEL or higher. These noise impacts would also be significant and unavoidable.

**Impact:** A significant impact relative to classroom disruption is considered to occur when:

- ◆ Schools are newly exposed to exterior noise levels during school hours sufficient to result in interior noise levels of 55 dBA  $L_{max}$ , which can cause momentary disruption of speech intelligibility in classroom teaching situations (an assumed distance between the speaker and listener of 20 feet), and an interior noise level of 65 dBA  $L_{max}$ , which can momentarily disrupt speech intelligibility in small group and one-on-one teaching situations (assumed to be at 6 feet). In each case, exposure is measured as having a time above the threshold noise level of three seconds or more during the school day. At LAX, the thresholds of significance for speech interference at schools equate to exterior single event maximum noise levels of 84 dBA for general classroom teaching and 94 dBA for small group learning occurring during school hours, defined as between 8:00 a.m. and 4:00 p.m.
- ◆ Schools are newly exposed to exterior noise levels during school hours sufficient to result in sustained interruption of classroom teaching through interior noise levels in excess of 35  $L_{eq(h)}$  during an hour. At LAX, the threshold of significance equates to an exterior hourly noise level during school hours of 64 dBA of  $L_{eq(h)}$ .

**Description of Effects:** As discussed in Section 4.10 of the SPAS Draft EIR and Section 2.3.10.1.1.2.2 of Part II of the SPAS Final EIR, baseline (2009) conditions related to school facilities and classroom disruption is provided in Tables 4.10.1-4, 4.10.1-5, and 4.10.1-6 of the SPAS Draft EIR and Tables SRA-2.3.10.1-6, SRA-2.3.10.1-7, and SRA-2.3.10.1-8 of Part II of the SPAS Final EIR. The numbers of schools that would exceed the thresholds of significance for classroom disruption under the LAWA Staff-Recommended Alternative as compared to baseline (2009) conditions is one additional school projected to be newly exposed at the 55 interior dBA ( $L_{max}$ ), which relates to momentary disruption of speech intelligibility, and the overall number of individual noise events at schools would increase. The school, Jefferson Elementary School,

would be newly exposed to average number of daily events and duration above 55 interior dBA, as compared to baseline (2009) conditions, and impacts would therefore be significant.

No schools would be newly exposed above 65 interior dBA ( $L_{max}$ ) speech interference Levels.

The assessment of the number of schools that would experience interior dBA  $L_{eq(h)}$  levels equal to or higher than 35 dBA  $L_{eq(h)}$  in the classroom indicates that under the LAWA Staff-Recommended Alternative, seven public schools and one private school would be newly exposed to this level as compared to baseline (2009) conditions, and therefore impacts would be significant.

The LAWA Staff-Recommended Alternative would entail a northbound shift of the centerlines of Runways 6L/24R. Relocated Runway 6L/24R is planned 260 feet north of the existing Runway 24R centerline. The LAX Master Plan mitigation measures related to noise abatement measures and classroom disruption and children's ability to learn, including MM-LU-1, MM-LU-3, and MM-LU-4, presented in Section 4.9.5 of the SPAS Draft EIR, as amended in Chapter 5 of Part II of the SPAS Final EIR, would continue to be implemented, as would all other current measures. Specifically, as described in Section 2.3.9, *Land Use and Planning*, of Part II of the SPAS Final EIR, LAX Master Plan Mitigation Measure MM-LU-1, Implement Revised Aircraft Noise Mitigation Program, would incorporate all eligible dwellings and non-residential noise-sensitive facilities that are newly exposed to noise levels 65 CNEL or higher into the Aircraft Noise Mitigation Program (ANMP) to mitigate the significant noise impacts. Also, LAX Master Plan Mitigation Measures MM-LU-3, Conduct Study of the Relationship Between Aircraft Noise Levels and the Ability of Children to Learn, and MM-LU-4, Provide Additional Sound Insulation for Schools Shown by MM-LU-3 to be Significantly Impacted by Aircraft Noise, would ultimately serve to mitigate adverse noise impacts on schools.

Together, the LAX Master Plan noise and land use mitigation measures are intended to fully mitigate the significant noise impacts that would be caused by the LAWA Staff-Recommended Alternative once implemented. Because the land use mitigation measures would take several years to fully implement, it is possible that significant noise impacts would be experienced in the area after implementation of the LAWA Staff-Recommended Alternative but before the mitigation measures are fully implemented. Thus, significant and unavoidable interim noise impacts would be experienced over an indeterminate period of time.

Findings: Based on substantial evidence in the administrative record, including Section 4.10.1 of the SPAS Draft EIR and Section 2.3.10.1 of Part II of the SPAS Final EIR, the BOAC hereby finds that changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant aircraft noise exposure impact to schools. Specifically, LAX Master Plan Commitment N-1 and LAX Master Plan Mitigation Measures MM-N-4, MM-LU-1 and MM-LU-3 would reduce aircraft noise impacts to less than significant once implemented. However, because the land use mitigation measures would take several years to fully implement, it is possible that significant noise impacts would be experienced in the area after implementation of the selected SPAS alternative but before the mitigation measures are fully implemented. Thus, significant and unavoidable interim noise impacts would be experienced over an indeterminate period of time.

Further, no other operational noise abatement measures are available to fully mitigate the noise impacts of the LAWA Staff-Recommended Alternative.

Despite incorporation of mitigation, the BOAC hereby finds this impact will remain significant and unavoidable and that specific economic, legal, social, technological, or other considerations make additional mitigation measures or project alternatives infeasible.

Rationale: Implementation of LAX Master Plan Commitment N-1 and LAX Master Plan Mitigation Measures MM-N-4, MM-LU-1 and MM-LU-3 would reduce impacts. However, because they would take several years to fully implement, it is possible that significant noise impacts would be experienced in the area after implementation of the selected SPAS alternative but before the

mitigation measures are fully implemented. No additional mitigation measures are available to address this noise impact.

#### **6) Construction Equipment Noise**

Impact: A significant construction equipment noise impact would occur if the direct and indirect changes in the environment that may be caused by the LAWA Staff-Recommended Alternative would result in the following future condition:

- ◆ Construction activities lasting more than ten days in a three month period would exceed baseline ambient exterior noise levels by 5 dBA or more at a noise-sensitive use; or
- ◆ Construction activities would exceed the ambient exterior noise level by 5 dBA at a noise-sensitive use between the hours of 9:00 p.m. and 7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or at any time on Sunday.

Description of Effects: As discussed in Sections 4.10.3 and 5.5.10.3 of the SPAS Draft EIR and Sections 2.3.10.3 and 2.4.10.3 of Part II of the SPAS Final EIR, the analysis of construction equipment noise impacts addresses impacts associated with the airfield/terminal improvements and the ground access improvements under the LAWA Staff-Recommended Alternative. The construction equipment noise impacts addressed below discuss various noise-sensitive receptors which are considered representative of other nearby noise-sensitive receptors, described in Section 4.10.3 of the SPAS Draft EIR, and the related LAWA Staff-Recommended Alternative proposed improvements that have a potential to create a significant impact, and to result in a cumulatively considerable contribution to cumulative construction noise impacts.

#### *Airfield Improvements*

Due to the distance from the proposed airfield improvements, the following sensitive receptors could experience a significant construction equipment noise impact from the LAWA Staff-Recommended Alternative:

- ◆ Saint Bernard High School
- ◆ Residential Uses Along Southern Edge of Westchester
- ◆ Park West Apartments Northwest on Lincoln Boulevard South of La Tijera Boulevard

#### *Ground Transportation*

Due to the distance from the proposed ground transportation system improvements, the following sensitive receptors could experience a significant construction equipment noise impact from the LAWA Staff-Recommended Alternative:

- ◆ Remaining Residences Within Belford
- ◆ Noise Sensitive Uses Within Manchester Square
- ◆ Animo Leadership Charter High School<sup>10</sup>

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<sup>10</sup> At the publication time of the Notice of Preparation for the SPAS Draft EIR, October 2010 (i.e., the baseline year for the EIR impacts analysis), the Animo Leadership Charter High School was located at the northeast corner of Aviation Boulevard and Arbor Vitae Street, across from Manchester Square. This school, however, has subsequently moved to a new location in Lennox, approximately 2.5 miles from the current site (see [http://www.dailybreeze.com/news/ci\\_21358340/animo-leadership-has-new-lennox-campus-and-new](http://www.dailybreeze.com/news/ci_21358340/animo-leadership-has-new-lennox-campus-and-new), accessed on December 10, 2012). In order to provide a consistent basis of comparison, the impacts discussion for the LAWA Staff-Recommended Alternative contained herein assumes the location of the Animo Leadership Charter High School to be at its former location at the northeast corner of Aviation Boulevard and Arbor Vitae Street, across from Manchester Square.

*Construction Staging Area A*

Due to the distance from Construction Staging Area A, the following sensitive receptors could experience a significant construction equipment noise impact from the LAWA Staff-Recommended Alternative:

- ◆ Saint Bernard High School
- ◆ Park West Apartments Northwest on Lincoln Boulevard South of La Tijera Boulevard

*Construction Staging Area E*

- ◆ Remaining Residences Within Belford

*Construction Staging Area F*

- ◆ Noise Sensitive Uses Within Manchester Square
- ◆ Animo Leadership Charter High School<sup>11</sup>

*Cumulative Impacts*

The geographic scope of analysis for cumulative construction equipment noise impacts generally encompasses the land uses immediately north, east, and south of the airport; specifically, the southern edges of Playa del Rey and Westchester, the northeastern edges of Inglewood and Lennox, and the northern edges of Del Aire and El Segundo. Such areas contain noise-sensitive uses that could be exposed to combined construction equipment noise from local development projects and from improvements proposed under the LAWA Staff-Recommended Alternative.

Based on the nature and location of local development projects and the improvements proposed under the LAWA Staff-Recommended Alternative, relative to the locations of noise-sensitive receptors nearby, the LAWA Staff-Recommended Alternative would have a cumulatively considerable contribution to significant construction equipment noise impacts at the following noise-sensitive receptors:

- ◆ Saint Bernard High School
- ◆ Residential uses along the southern edge of Westchester
- ◆ Park West Apartments
- ◆ Belford and Manchester Square, if residential uses are still present
- ◆ Animo Leadership Charter School<sup>12</sup>

LAX Master Plan Commitments ST-16, ST-18, and ST-22 and LAX Master Plan Mitigation Measures MM-N-7 through MM-N-10 would reduce construction equipment noise impacts. However, at this level of planning, it cannot be concluded that the construction equipment noise impacts described above would be fully mitigated; hence, the impacts above for the LAWA Staff-Recommended Alternative are considered at this time to be significant.

Findings: Based on substantial evidence in the administrative record, including Section 4.10.3 and 5.5.10.3 of the SPAS Draft EIR and Section 2.3.10.3 and 2.4.10.3 of Part II of the SPAS Final

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<sup>11</sup> Ibid.

<sup>12</sup> At the publication time of the Notice of Preparation for the SPAS Draft EIR, October 2010 (i.e., the baseline year for the EIR impacts analysis), the Animo Leadership Charter High School was located at the northeast corner of Aviation Boulevard and Arbor Vitae Street, across from Manchester Square. This school, however, has subsequently moved to a new location in Lennox, approximately 2.5 miles from the current site (see [http://www.dailybreeze.com/news/ci\\_21358340/animo-leadership-has-new-lennox-campus-and-new](http://www.dailybreeze.com/news/ci_21358340/animo-leadership-has-new-lennox-campus-and-new), accessed on December 10, 2012). In order to provide a consistent basis of comparison, the impacts discussion for the LAWA Staff-Recommended Alternative contained herein assumes the location of the Animo Leadership Charter High School to be at its former location at the northeast corner of Aviation Boulevard and Arbor Vitae Street, across from Manchester Square.

EIR, the BOAC hereby finds that changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant construction equipment noise impacts identified in the SPAS Final EIR. Specifically, LAX Master Plan Commitments ST-16, ST-18, and ST-22 and LAX Master Plan Mitigation Measures MM-N-7 through MM-N-10 would reduce construction equipment noise impacts. However, at this level of planning, it cannot be concluded that the construction equipment noise impacts described above would be fully mitigated; hence, the impacts above for the LAWA Staff-Recommended Alternative are considered at this time to be significant.

Despite incorporation of mitigation, the BOAC hereby finds this impact will remain significant and unavoidable and that specific economic, legal, social, technological, or other considerations make additional mitigation measures or project alternatives infeasible.

Rationale: Implementation of LAX Master Plan Commitments ST-16, ST-18, and ST-22 and LAX Master Plan Mitigation Measures MM-N-7 through MM-N-10 would reduce, but not eliminate, construction equipment noise impacts on sensitive receptors. No additional mitigation measures are available to address this noise impact.

**7) Combined SPAS Aircraft, Road Traffic, Construction Traffic and Equipment, and Transit Noise Impacts**

Impact: A cumulatively significant noise impact would occur if the combined SPAS aircraft, road traffic, construction traffic and equipment, and transit noise, in conjunction with noise from other projects nearby, would exceed the significance thresholds described above in the other subsections related to noise.

Description of Effects: As described in Section 5.5.10.5 of the SPAS Draft EIR, implementation of any of the SPAS alternatives would result in significant unavoidable aircraft noise exposure impacts to noise-sensitive uses, even with implementation of LAX Master Plan commitments and mitigation measures that would partially mitigate those impacts. As such, implementation of any of the SPAS alternatives would have a cumulatively considerable impact relative to combined noise levels.

Implementation of any of the SPAS alternatives is anticipated to occur between 2015 and 2025. It is likely that there would be some overlap in noise impacts from operation (including road traffic noise and transit noise) of SPAS improvements completed during that 11-year period and from ongoing construction. It would be speculative at this conceptual level of planning to estimate the timing, location, and combined noise levels of such overlapping activities. In general terms, however, it is likely that any overlap of operational noise and construction noise in Playa del Rey and the southern edge of Westchester west of Lincoln Boulevard would be primarily limited to the combination of aircraft noise and construction noise from north airfield improvements; no notable increases in SPAS-related traffic are expected to occur in that area. For residential areas along the southern edge of Westchester, east of Lincoln Boulevard, construction noise associated with north airfield improvements, including realignment of Lincoln Boulevard under the Staff-Recommended Alternative would potentially combine with increased aircraft noise and road traffic noise along Lincoln Boulevard and Sepulveda Boulevard. Relative to construction of the ground access improvements east of the CTA (i.e., the APM and ITF under the Staff-Recommended Alternative), potential combined construction, aircraft, and road traffic noise impacts to noise-sensitive receptors would generally be limited to residences, if any, remaining in Belford and Manchester Square, Animo Leadership Charter High School, and residential uses in Inglewood (although to a lesser degree than the other areas, based on distance from construction areas and the intervening I-405 Freeway). Such overlaps in operational noise and construction noise would potentially overlap and are therefore considered cumulatively considerable contributions to significant cumulative impacts at nearby noise-sensitive uses.

Findings: Based on substantial evidence in the administrative record, including Section 5.5.10.5 of the SPAS Draft EIR, the BOAC hereby finds that changes or alterations have been required in,

or incorporated into, the Project which avoid or substantially lessen the combined APAS aircraft, road traffic, construction traffic and equipment, and transit noise impacts associated with the proposed project. Specifically, LAX Master Plan Commitment N-1 and LAX Master Plan Mitigation Measures MM-LU-1, MM-LU-3, MM-LU-4, and MM-N-4 will reduce aircraft noise impacts, and LAX Master Plan Commitments ST-16, ST-18, and ST-22 and LAX Master Plan Mitigation Measures MM-N-7 through MM-N-10 will reduce construction equipment noise impacts.

Despite incorporation of mitigation, the BOAC hereby finds this impact will remain significant and unavoidable and that specific economic, legal, social, technological, or other considerations make additional mitigation measures or project alternatives infeasible.

Rationale: Implementation of the LAX Master Plan commitments and mitigation measures identified immediately above would reduce, but not eliminate, aircraft and construction noise impacts, which alone or in combination with other SPAS-related noise impacts, such as roadway traffic noise and transit noise, would result in cumulatively considerable combined noise impacts on sensitive receptors. No additional mitigation measures are available to address this noise impact.

#### **8) On-Airport Transportation: Curbsides, Intersections, and Roadways**

Impact: An impact to signalized intersections and roadway links is considered to be significant if one of the following thresholds is met or exceeded:

- ◆ The LOS is C, its final V/C ratio is 0.701 to 0.800, and the project-related increase in V/C is 0.040 or greater, or
- ◆ The LOS is D, its final V/C ratio is 0.801 to 0.900, and the project-related increase in V/C is 0.020 or greater, or
- ◆ The LOS is E or F, its final V/C ratio is 0.901 or greater, and the project-related increase in V/C is 0.010 or greater.

Description of Effects: As discussed in Section 4.12.1.2 of the SPAS Draft EIR and Section 2.3.12.1 of Part II of the SPAS Final EIR, traffic-related impacts pertaining to SPAS alternatives, including the LAWA Staff-Recommended Alternative, were assessed by conducting the following comparisons: (1) the baseline (2009) conditions with addition of the SPAS alternative measured against baseline (2009) conditions without the alternative; and (2) future (2025) conditions with addition of the SPAS alternative measured against the future (2025) conditions without the alternative to calculate the SPAS alternatives' contribution to cumulative impacts. The thresholds described in Section 4.12.1.4 of the SPAS Draft EIR and reiterated above were used to determine the significance of impacts. The following presents the results of those comparisons for the LAWA Staff-Recommended Alternative.

##### *Project Impacts*

#### **Curbside Impacts**

As indicated in Table SRA-2.3.12.1-1 of Part II of the SPAS Final EIR, implementation of the LAWA Staff-Recommended Alternative would not result in significant impacts to the airport's arrivals or departures level curbsides.

#### **CTA Intersection Impacts**

As shown in Table SRA-2.3.12.1-2 of Part II of the SPAS Final EIR, implementation of the LAWA Staff-Recommended Alternative would not result in significant impacts to on-airport intersections.

#### **CTA Roadway Link Impacts**

As shown in Table SRA-2.3.12.1-3 of Part II of the SPAS Final EIR, implementation of the LAWA Staff-Recommended Alternative would not result in significant impacts to on-airport roadway links.

### *Cumulative Impacts*

This comparison focuses upon the project's contribution to cumulative impacts by calculating the change in traffic for the Future (2025) With Alternative traffic conditions compared to the Future (2025) Without Alternative traffic conditions. This analysis addresses whether the change in future (2025) conditions with implementation of the LAWA Staff-Recommended Alternative would exceed the thresholds defined in Section 4.12.1.4 of the SPAS Draft EIR (i.e., whether the alternative's contributions would be cumulatively considerable). These cumulative scenarios were also compared against baseline conditions.

### **Curbside Impacts**

As shown in Table SRA-2.3.12.1-4 of Part II of the SPAS Final EIR, implementation of the LAWA Staff-Recommended Alternative, in conjunction with other cumulative projects, would not result in a change to the volume to capacity levels at the airport's departures or arrivals level curbsides that exceeds the aforementioned thresholds, with the exception of the TBIT arrivals level inner curbsides. The cumulative impact at the TBIT inner curbside is considered to be significant, and the contribution of the LAWA Staff-Recommended Alternative would be cumulatively considerable. Mitigation Measure MM-ST (OA) (SPAS)-1, defined in Section 4.12.1.10.2 of the SPAS Draft EIR and Section 2.3.12.1.2 of Part II of the SPAS Final EIR is proposed to mitigate this impact to less than significant.

### **CTA Intersection Impacts**

As shown in Table SRA-2.3.12.1-5 of Part II of the SPAS Final EIR, implementation of the LAWA Staff-Recommended Alternative, in conjunction with other cumulative projects, would not result in a change to the volume to capacity levels of on-airport intersections that exceeds the aforementioned thresholds, with the exception of the World Way South and Center Way intersection (Intersection #9) during the arrivals level peak hour. The cumulative impact to this intersection is considered to be significant, and the contribution of the LAWA Staff-Recommended Alternative to this cumulative impact would be cumulatively considerable. This impact is unavoidable as potential measures to mitigate this impact are infeasible, as described in detail within Section 4.12.1.10.2 of the SPAS Draft EIR. As explained therein, in order to mitigate the anticipated impacts, one additional through lane would be required on the eastbound approach to the intersection. In addition, the east leg of the intersection would need to be widened to allow for the additional eastbound through lane. The separation distance between the existing support columns for the departures level recirculation roadway is insufficient to allow for an additional eastbound through lane without demolishing and reconstructing the departures level recirculation roadway. If an additional lane were to be added to the airport's exit roadway, the bridge spanning Sepulveda Boulevard would also require widening to accommodate an additional lane so that an exclusive acceleration/deceleration lane for the ramps connecting to Sepulveda Boulevard can be maintained. Further, the addition of a fifth eastbound lane on the bridge spanning Sepulveda Boulevard would require, at a minimum, a partial reconstruction of the ramps to and from Sepulveda Boulevard to accommodate a reduced turning radius for each ramp. To implement this proposed mitigation measure, at least one of the two existing support columns for the departures level recirculation roadway would need to be relocated. This would require an extended closure of the departures level recirculation roadway for the demolition and reconstruction of the affected upper level span. This extended closure would impact upper level vehicles recirculating to either the departures level or vehicles such as commercial vehicles traveling to the arrivals level curbsides or exiting the CTA northbound on Sky Way. Based on existing physical constraints, the additional environmental impacts associated with demolition and reconstruction, implementation of improvements necessary to mitigate the impact at this intersection is not feasible.

**CTA Roadway Link Impacts**

As shown in Table SRA-2.3.12.1-6 of Part II of the SPAS Final EIR, implementation of the LAWA Staff-Recommended Alternative, in conjunction with other cumulative projects, would not result in a change to the volume to capacity levels of on-airport roadway links that exceeds the aforementioned thresholds, with the exception of Link "LF" on the arrivals level outer curbside adjacent to Terminal 1. The cumulative impact to this roadway link is considered to be significant and the contribution of the LAWA Staff-Recommended Alternative to this cumulative impact would be cumulatively considerable. Mitigation Measure MM-ST (OA) (SPAS)-2, defined in Section 4.12.1.10.2 of the SPAS Draft EIR and Section 2.3.12.1.2 of Part II of the SPAS Final EIR, is proposed to mitigate this impact to less than significant.

Findings: Based on substantial evidence in the administrative record, including Section 4.12.1 of the SPAS Draft EIR and Section 2.3.12.1 of Part II of the SPAS Final EIR, the BOAC hereby finds that changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant on-airport transportation impacts to curbsides and roadway links resulting from implementation of LAWA Staff-Recommended Alternative. Specifically, SPAS Mitigation Measures MM-ST (OA) (SPAS)-1 and MM-ST (OA) (SPAS)-2 will be incorporated into the Project's design.

Despite incorporation of these measures, the BOAC hereby finds the impact to Intersection #9 will remain significant and unavoidable and that specific economic, legal, social, technological, or other considerations make additional mitigation measures or project alternatives infeasible.

Rationale: Potentially significant impacts to the inner curbside at the TBIT arrivals will be reduced to a level that is less than significant through implementation of MM-ST(OA)(SPAS)-1 by moving the taxi staging zone further downstream to the vacant area between TBIT and Terminal 4, thereby freeing-up more public curbside area on the inner curbside at the TBIT arrivals. Potentially significant impacts to Roadway Link "LF" will be reduced to a level that is less than significant through implementation of MM-ST(OA)(SPAS)-2, which will provide operational changes to commercial modes based on options such as changing hotel and rental car shuttle operations from their current dual loop operation to a single loop operation on the departures and arrivals level curbsides respectively, while the employee shuttle operation could be changed from its existing single level operation on the departures level to a dual loop operation. Such operational changes will reduce traffic volumes at, and impacts to, Roadway Link "LF." There are not, however, any feasible mitigation measures to further reduce the cumulative traffic impacts at the intersection of World Way South and Center Way (Intersection #9), based on the physical constraints around that intersection as described above.

**9) On-Airport Transportation: Construction Traffic**

Impact: A significant on-airport surface transportation impact would occur during construction if the direct and indirect changes in the environment by the LAWA Staff-Recommended Alternative would cause substantial congestion or substantial inconvenience to motorists on a regular or frequent basis.

Description of Effects: As discussed in Section 4.12.1 of the SPAS Draft EIR and Section 2.3.12.1 of the SPAS Final EIR, construction activities and related construction vehicle trips associated with the LAWA Staff-Recommended Alternative would impact on-airport traffic conditions including those related to existing curbside, intersection, and roadway link operations. At this programmatic level of planning and analysis, there are not yet any particular construction plans or construction schedules for the LAWA Staff-Recommended Alternative. It would be speculative at this time to estimate the numbers, locations, and timing of construction-related trips for the LAWA Staff-Recommended Alternative and quantify the on-airport transportation system impacts. In general terms, it is anticipated that construction-related traffic generated within the CTA, such as that associated with terminal modifications, realignment of Sky Way, construction of the west end of the APM segment within the CTA, would add to existing traffic volumes within the

CTA, which, in turn, could adversely affect curbside operations, intersection movements, and roadway link flows. To the extent that LAWA Staff-Recommended Alternative-related construction within the CTA requires temporary lane closures and detours, on-airport traffic conditions could be impacted. The above types of construction-related impacts to the on-airport surface transportation system could result in substantial congestion and substantial inconvenience to motorists on a regular or frequent basis.

Similar to projects currently under construction within the CTA, such as the replacement of the CUP, any LAWA Staff-Recommended Alternative-related project that affects the normal operation of ground transportation in the CTA would be required, pursuant to LAX Master Plan Commitment ST-18, to submit a Construction Traffic Management Plan (CTMP) for review and approval by LAWA staff prior to starting work. Depending on the extent and duration of construction, the CTMP may be in multiple phases. To maintain appropriate traffic flow at all times within the CTA, project construction may be limited by LAWA to certain hours of the day, days of the week, and/or times of year. CTMPs may include but not be limited to changeable message signs, arrow boards, temporary striping, detours, signal timing and phasing changes, pedestrian re-routing, temporary relocation of commercial curb zones and construction, and regulatory and wayfinding signs. In addition, LAWA would alert passengers of more extensive construction activity on its website and through other social media. Other LAX Master Plan commitments and mitigation measures described in Section 4.12.1.5 of the SPAS Draft EIR would also serve to avoid or reduce construction-related impacts to the on-airport transportation system. In the current absence of specific construction plans, schedules, and approaches for the LAWA Staff-Recommended Alternative, which would be determined during more detailed planning and design stages in the future, it is not possible to conclude whether the on-airport transportation system construction impacts would be fully mitigated by the aforementioned measures. As such, construction impacts to the on-airport transportation system are considered at this time to be significant.

#### *Cumulative Impacts*

Construction activities associated with past, present, and reasonably foreseeable future projects within the CTA, along with the improvements proposed under the LAWA Staff-Recommended Alternative, pose the potential for cumulative impacts to the on-airport transportation system.

Projects, in conjunction with the improvements associated with the LAWA Staff-Recommended Alternative, that pose the potential for cumulative on-airport transportation system impacts include the Bradley West Project, the Midfield Satellite Concourse new passenger processor, the North Terminals Improvements, the South Terminals Improvements, Miscellaneous Terminal Improvements, the Central Utility Plant Replacement Project, the "New Face" of the Central Terminal Area Improvements/Enhancements, Replacement of Elevators and Escalators, the CTA Second Level Roadway Expansion Joint and Deck Repairs, the LAX Sign District, and, depending upon the alternative selected, the Airport Metro Connector Project. To the extent that construction activities within the CTA overlap between these projects, both in terms of timing and location, significant impacts related to traffic congestion and delays within the CTA roadway system could occur. All of these projects would require the preparation of traffic control plans and implementation of other measures to reduce construction traffic impacts, as described in Section 4.12.1.5 of the SPAS Draft EIR. In the current absence of detailed construction plans for most of these projects, many of which are still in the conceptual stages of planning such as the LAWA Staff-Recommended Alternative, it is not possible to conclude that cumulative construction-related impacts to the on-airport surface transportation system would be reduced to a level that is less than significant with implementation of such measures. Therefore, cumulative impacts to the on-airport transportation system associated with construction would be significant. Based on the anticipated schedules for the above projects, implementation of the improvements associated with the LAWA Staff-Recommended Alternative would result in a cumulatively considerable contribution to those impacts.

**Findings:** Based on substantial evidence in the administrative record, including Section 4.12.1 of the SPAS Draft EIR and Section 2.3.12.1 of the SPAS Final EIR, the BOAC hereby finds that changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant construction-related on-airport transportation impacts associated with the LAWA Staff-Recommended Alternative. Specifically, LAX Master Plan commitments and mitigation measures ST-2, ST-9, ST-18, ST-19, MM-ST-1, MM-ST-2, and MM-ST-3 will be incorporated into the Project's construction requirements.

Despite incorporation of these measures, the BOAC hereby finds this impact will remain significant and unavoidable and that specific economic, legal, social, technological, or other considerations make additional mitigation measures or project alternatives infeasible.

**Rationale:** Potential construction traffic impacts will be reduced through implementation of existing Master Plan commitments and mitigation measures ST-2, ST-9, ST-18, ST-19, MM-ST-1, MM-ST-2, and MM-ST-3, which include provisions to limit construction deliveries to non-peak hours and regulate lane closures, require construction management plans, restricts closures of existing roadways, require construction vehicles to use designated lanes, require additional signage when appropriate, and develop designated stops for labor buses. In the current absence of specific construction plans, schedules, and approaches for the LAWA Staff-Recommended Alternative, which would be determined during more detailed planning and design stages in the future, it is not possible to conclude whether the on-airport transportation system construction impacts would be fully mitigated by the aforementioned measures. The same is true relative to many of the other projects proposed in or near the CTA that, in conjunction with the LAWA Staff-Recommended Alternative, would contribute to cumulative construction traffic impacts.

#### **10) Off-Airport Transportation: Intersections and CMP Facilities**

**Impact:** Each study intersection was evaluated for potential significant traffic impacts using the significant traffic impact criteria utilized in the jurisdiction of the intersection. Intersections lying on the boundary of multiple jurisdictions were evaluated using the more conservative criteria. For CMP facilities, the guidelines set forth in the 2010 Congestion Management Program for Los Angeles provided the basis for determining significant impacts. A description of the significant impact criteria for each jurisdiction and for CMP facilities is presented in Section 4.12.2.4 of the Draft EIR.

**Description of Effects:** As discussed in Section 4.12.2 of the SPAS Draft EIR and Section 2.3.12.2 of Part II of the SPAS Final EIR, off-airport traffic-related impacts pertaining to operation of the LAWA Staff-Recommended Alternative were assessed in two ways; one by comparing Baseline (2010) With Alternative scenarios against Baseline (2010) Without Alternative scenarios, and the other by comparing the Future (2025) With Alternative scenarios against the Future (2025) Without Alternative scenarios which provides the cumulative analysis. The comparison of Future (2025) scenarios involves holding the airport-related trip generation at current levels and evaluates it against the LAWA Staff-Recommended Alternative with the airport at 2025 trip generation levels. This growth in trip generation is expected to occur with or without the SPAS and therefore yields a conservative analysis. The following summarizes the results of the analyses.

##### *Baseline (2010) Impacts*

#### **Intersections**

Table SRA-2.3.12.2-2 in Part II of the SPAS Final EIR delineates the intersection impacts of the LAWA Staff-Recommended Alternative by comparing the Baseline (2010) With Alternative scenario and the Baseline (2010) Without Alternative scenario. As indicated in Table SRA-2.3.12.2-2, five of the 200 intersections would be significantly impacted in one or more peak hours. This includes Intersections 9, 36, 71, 85, and 96.

**CMP Facilities**

Section 4.12 and Table 5 in Appendix K2-7 of the SPAS Draft EIR, and Section 2.3.12.2.1.1 in Part II of the SPAS Final EIR delineate the impacts of the LAWA Staff-Recommended Alternative to the 15 arterial monitoring stations by comparing the Baseline (2010) With Alternative scenario and the Baseline (2010) Without Alternative scenario. For this alternative, no CMP arterial monitoring stations would be significantly impacted.

Table 14 in Appendix K2-7 of the SPAS Draft EIR delineates the impacts of the LAWA Staff-Recommended Alternative to the 30 CMP freeway monitoring stations by comparing the Baseline (2010) With Alternative scenario and the Baseline (2010) Without Alternative scenario. As indicated in Table 14, no CMP freeway monitoring stations would be significantly impacted.

With regard to CMP transit analysis, transit demand is not expected to increase when comparing the Baseline (2010) With Alternative scenario and the Baseline (2010) Without Alternative scenario; therefore, no impact is identified.

*Future (2025) Impacts*

**Intersections**

Table SRA-2.3.12.2-4 in Part II of the SPAS Final EIR delineates the intersection impacts of the LAWA Staff-Recommended Alternative by comparing the Future (2025) With Alternative scenario and the Future (2025) Without Alternative scenario. As indicated in Table SRA-2.3.12.2-4, 58 of the 200 intersections would be significantly impacted in one or more peak hours. This includes Intersections 6, 7, 9, 10, 11, 12, 14, 17, 25, 26, 27, 34, 35, 36, 37, 38, 46, 51, 57, 58, 60, 62, 63, 64, 66, 71, 76, 77, 85, 86, 87, 88, 90, 93, 95, 96, 102, 109, 110, 115, 119, 125, 139, 143, 147, 149, 154, 156, 159, 162, 164, 165, 169, 172, 173, 188, 197.

**CMP Facilities**

Section 4.12 and Table 10 in Appendix K2-7 of the SPAS Draft EIR and Section 2.3.12.2.1.1 in Part II of the SPAS Final EIR delineate the impacts of the LAWA Staff-Recommended Alternative to the 14 arterial monitoring stations by comparing the Future (2025) With Alternative scenario and the Future (2025) Without Alternative scenario. For this alternative, the following CMP arterial monitoring station would be significantly impacted:

- ◆ 164. Manchester Avenue and Crenshaw Boulevard (CMP ID #24)

Section 4.12 and Table 18 in Appendix K2-7 of the SPAS Draft EIR and Section 2.3.12.2.1.1 in Part II of the SPAS Final EIR delineate the impacts of the LAWA Staff-Recommended Alternative to the 30 CMP freeway monitoring stations by comparing the Future (2025) With Alternative scenario and the Future (2025) Without Alternative scenario. As indicated in Table 18, the following three CMP freeway monitoring stations would be significantly impacted (without LAX Master Plan Commitment ST-24, Fair Share Contribution to CMP Improvements):

- ◆ Route 405, at postmile 0.40, north of Route 22
- ◆ Route 405, at postmile 8.02, Santa Fe Avenue
- ◆ Route 405, at postmile 11.90, south of Route 110

Table 4.12.2-6 of the SPAS Draft EIR shows the total incremental estimated transit demand due to airport-related growth under each alternative, including the LAWA Staff-Recommended Alternative,<sup>13</sup> and Table SRA-2.3.12.2-5 in Part II of the SPAS Final EIR indicates the resulting impact on the utilization of the major north/south and east/west CMP transit corridors in the LAX vicinity. As indicated in Table SRA-2.3.12.2-5, implementation of the LAWA Staff-Recommended

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<sup>13</sup> The LAWA Staff-Recommended Alternative in Table 4.12.2-6 of the SPAS Draft EIR is designated as "Alternative 9."

Alternative would increase transit system utilization by approximately 1.23 percent in the a.m. peak hour and 1.32 percent in the p.m. peak hour, which would not represent a substantial increase in transit demand. At this level of increase, impacts to the regional transit system would be considered less than significant.

**Mitigation Measures**

Potential intersection improvements were identified and evaluated for all intersections identified in Table SRA-2.3.12.2-1 and Table SRA-2.3.12.2-3 as being significantly impacted. Such improvements include the addition of, or improvements to, travel lanes and turn lanes, traffic signal enhancements, and intersection restriping. Locations where additional right-of-way may be required are noted. The proposed and/or adopted pedestrian and bike plans<sup>14</sup> from the local jurisdictions in the SPAS off-airport transportation study area were evaluated to ensure the feasibility of the proposed mitigation measures such that these mitigation measures would not affect nor conflict with the proposed pedestrian or bike facilities as shown in the adopted plans. In some cases, it was determined that the improvements would not be feasible and that the impact would be significant and unavoidable. In other cases, it would be feasible to implement the mitigation under consideration. For all locations where jurisdiction is shared with agencies other than the City of Los Angeles, or which lie wholly outside of the City of Los Angeles, review and approval by the responsible agencies would be required. The discussion below presents both those improvements that were considered but determined to be infeasible, as well as those improvements that would be feasible and are thereby included in the recommended mitigation program for the LAWA Staff-Recommended Alternative, which is also presented below.

**1. Identification and Evaluation of Mitigation Measures**

The following discussion evaluates the feasibility of mitigation measures, for significant impacts identified above.

**Baseline (2010) with Alternatives**

**Intersection Improvements**

◆ **9. Airport Boulevard and Manchester Avenue.**

The potential improvement that would fully mitigate the project impact at this location would be to restripe the eastbound approach to provide one left-turn lane, two through lanes, and a shared through/right-turn lane. Implementation of this improvement would entail removal of three parking spaces on the south side of Manchester Avenue west of Belford Avenue, and two parking spaces on the south side of Manchester Avenue east of Belford Avenue would need to be restricted during the p.m. peak period. However, the proposed restriping of the eastbound approach would conflict with the City of Los Angeles's vision for future bicycle lanes on this segment of Manchester Avenue, and therefore is considered infeasible. No other feasible improvements were identified. This impact would be significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **36. La Cienega Boulevard and Century Boulevard.**

The potential improvements evaluated at this location for the LAWA Staff-Recommended Alternative involves modifying each of the alternatives' assumptions for lane configuration to the following: the northbound and southbound lane configurations from one left-turn lane, two

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<sup>14</sup> The adopted and proposed bike plans in the SPAS off-airport transportation study area include the following documents: Draft Culver City Bicycle & Pedestrian Master Plan, October 2010, Available: <http://ccwalkbike.org/documents/>; City of Los Angeles, Department of City Planning, 2010 Bicycle Plan, adopted March 1, 2011, Available: <http://cityplanning.lacity.org/cwd/gnlpln/transelt/NewBikePlan/Txt/LA%20CITY%20BICYCLE%20PLAN.pdf>; County of Los Angeles Bicycle Master Plan, Final Plan, March 2012, Available: <http://dpw.lacounty.gov/pdd/bikepath/bikeplan/>; and South Bay Bicycle Coalition, South Bay Bicycle Master Plan, August 2011, Available: <http://www.southbaybicyclecoalition.org/pass-the-plan-action-plan/south-bay-bicycle-master-plan-review-copy/>.

through lanes, and two right-turn lanes to two left-turn lanes, two through lanes, one shared through/right-turn lane, and one right-turn lane; the eastbound lane configuration from one left-turn lane, three through lanes, and one right-turn lane to two left-turn lanes, three through lanes, and two right-turn lanes; and the westbound lane configuration from one left-turn lane, three through lanes, and one shared through/right-turn lane to two left-turn lanes, four through lanes, and two right-turn lanes with a westbound right-turn overlap phase.

The proposed physical improvements for the LAWA Staff-Recommended Alternative cannot be accommodated within the existing right-of-way. They would require removal of existing business (economic and policy infeasibility) and create additional environmental impacts associated with demolition and construction, such as noise, air quality, etc., and therefore are considered infeasible.

The impact at this location could be reduced through increased service levels of the airport employee TDM/Vanpool program. This program would improve intersection operations; however, it would only partially mitigate the significant impact at this location. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative. Additional details regarding infeasibility are provided in Part II of the SPAS Final EIR, Response to Comment SPAS-AL00008-35.

◆ **71. Sepulveda Boulevard and Imperial Highway.**

Potential improvements evaluated at this location are to modify the traffic signal to include a northbound right-turn overlap phase and to restripe the northbound approach on Sepulveda Boulevard to provide one left-turn lane, three through lanes, and two right-turn lanes. Implementation of these improvements would fully mitigate the impact at this location under the LAWA Staff-Recommended Alternative.

◆ **85. La Brea Avenue and Manchester Boulevard.**

The potential improvement evaluated at this location is to restripe the northbound approach to provide a separate right-turn lane, resulting in one left-turn lane, two through lanes, and one right-turn lane. This improvement would require removal of up to approximately six metered parking spaces. This improvement would fully mitigate the impact under the LAWA Staff-Recommended Alternative.

◆ **96. La Cienega Boulevard and Southbound I-405 Ramps (North of Century Boulevard).**

The potential mitigation evaluated at this location under the LAWA Staff-Recommended Alternative involves widening the I-405 Freeway southbound off-ramp (the westbound approach) to provide one left-turn lane, one shared left-turn/through lane, one shared through/right-turn lane and widening the northbound approach to provide two left-turn lanes, one through lane, one shared through/right-turn lane, and one right-turn lane. The proposed physical improvements would not be sufficient to mitigate the identified impact under the LAWA Staff-Recommended Alternative. No other feasible improvement is available to fully mitigate the project impact under Baseline (2010) with the LAWA Staff-Recommended Alternative scenario.

## **Future (2025) with Alternatives**

### **Intersection Improvements**

◆ **6. Airport Boulevard and Arbor Vitae Street/Westchester Parkway.**

The potential improvement for this location is to restripe the northbound approach and departure to provide a third through lane so that the resulting northbound lane configuration would be one left-turn lane, two through lanes, and one shared through/right-turn lane. Implementation of this improvement alone would partially mitigate the significant impact identified at this location under the LAWA Staff-Recommended Alternative.

To provide full mitigation for the LAWA Staff-Recommended Alternative impacts, the improvement evaluated is to reconfigure the northbound approach and departure to provide a third through lane, and widen the eastbound and westbound approaches to add a third through lane in each direction. The proposed improvements for the north approach could be accommodated within the existing right-of-way; however, widening of the east and west legs could not be accommodated within the existing right-of-way and would require removal of existing business (economic and policy infeasibility) and create additional environmental impacts associated with demolition and construction, such as noise, air quality, etc. The Westchester Community Plan, an element of the City's General Plan, includes policies to improve Airport Boulevard between La Tijera Boulevard and Century Boulevard to six through lanes and to improve Arbor Vitae Street between Airport Boulevard and Aviation Boulevard to six through lanes. Given the uncertainty of the implementation plan for the Westchester Community Plan, the widening of the eastbound and westbound approaches may not be feasible.

Therefore, the LAWA Staff-Recommended Alternative can only be partially mitigated with the proposed improvements for the northbound approach and departure (which is to provide a third through lane so that the resulting northbound lane configuration would be one left-turn lane, two through lanes, and one shared through/right-turn lane). No other feasible improvements are available to fully mitigate the project impact under the LAWA Staff-Recommended Alternative. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **7. Airport Boulevard and Century Boulevard.**

Potential improvements evaluated at this location are to reconfigure the traffic signal to add a southbound right-turn overlapping phase, and reconfigure the northbound approach to provide additional left-turn capacity. The resulting northbound approach would provide one left-turn lane, one shared through/left-turn lane, one through lane, and one right-turn lane. The impact at this location could be reduced through increased service levels of the airport employee TDM/Vanpool program. This program would improve intersection operations; however, it would only partially mitigate the significant impact at this location. The combined effect of the physical improvement and the employee vanpool program would only partially mitigate the identified impact. No other feasible improvements have been identified to fully mitigate the project impact at this location. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **9. Airport Boulevard and Manchester Avenue.**

The potential improvements evaluated at this location are to restripe the eastbound and westbound approach to provide one left-turn lane, two through lanes, and a shared through/right-turn lane. These improvements would partially mitigate the identified impact under the LAWA Staff-Recommended Alternative.

Implementation of this improvement would entail removal of three parking spaces on the south side of Manchester Avenue west of Belford Avenue, and two parking spaces on the south side of Manchester Avenue east of Belford Avenue would need to be restricted during the p.m. peak period. However, the proposed restriping of the eastbound approach would conflict with the City of Los Angeles's vision for future bicycle lanes on this segment of Manchester Avenue; therefore, this improvement is considered infeasible. No other feasible improvements were identified. This impact would be significant and unavoidable.

◆ **10. Arbor Vitae Street and Aviation Boulevard.**

The mitigation measure at this location is to widen the eastbound approach to the intersection of Arbor Vitae Street and Aviation Boulevard to provide a separate right-turn lane, resulting in one left-turn lane, two through lanes and one right-turn lane. Implementation of this

improvement can be accomplished within the existing right of way and would fully mitigate the significant impacts under the LAWA Staff-Recommended Alternative.

◆ **11. Arbor Vitae Street and Inglewood Avenue.**

The mitigation measure for this location under the LAX Master Plan is to restripe the southbound approach to provide a separate right-turn lane, which would require removal of two parking stalls on the west side of Inglewood Avenue north of Arbor Vitae Street. Implementation of this improvement would fully mitigate the significant impact identified at this location under the LAWA Staff-Recommended Alternative.

◆ **12. La Brea Avenue and Arbor Vitae Street.**

The impact at this location could be mitigated through fair share contribution to the City of Inglewood's ITS improvement program. The contribution to the system would be equivalent to a 0.10 reduction in volume/capacity. This would fully mitigate the impacts under the LAWA Staff-Recommended Alternative.

◆ **14. Aviation Boulevard and Century Boulevard.**

The potential improvement evaluated at this location is to widen the northbound, southbound, and westbound approaches, resulting in northbound two left-turn lanes, three through lanes, and one right-turn lane; southbound two left-turn lanes, two through lanes, and one shared through/right-turn lane; and westbound two left-turn lanes, four through lanes, and one right-turn lane. Implementation of these improvements would improve the intersection operations; however, they would only partially mitigate the significant impact at this location and the proposed physical improvement conflicts with the City of Los Angeles' vision for a planned bike lanes on Aviation Boulevard, which may result in policy infeasibility and impacts to alternative modes of transportation. Therefore, the proposed improvements are considered infeasible. The impact at this location could be reduced through increased service levels of the airport employee TDM/Vanpool program. This program would improve intersection operations; however, it would only partially mitigate the significant impact at this location. No other feasible improvements have been identified to fully mitigate the project impact. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **17. Aviation Boulevard/Florence Avenue and Manchester Avenue.**

The potential improvement evaluated at this location involves restriping both the eastbound and westbound lane configurations from one left-turn lane, two through lanes, and one right-turn lane to one left-turn lane, two through lanes, and one shared through/right-turn lane. This improvement would require the elimination of parking on the south side of Manchester Boulevard east of Aviation Boulevard and on the north side of Manchester Boulevard west of Aviation Boulevard in order to provide appropriate merging distances. This improvement would fully mitigate the identified project impact under the LAWA Staff-Recommended Alternative.

◆ **25. La Brea Avenue and Centinela Avenue.**

The potential improvement evaluated at this location is to restripe the northbound and southbound approaches to provide separate right-turn lanes. The resulting lane configuration would be northbound one left-turn lane, two through lanes, and one right-turn lane; and southbound one left-turn lane, two through lanes, and one right-turn lane. Implementation of this improvement would fully mitigate the identified project impact at this location.

◆ **26. La Cienega Boulevard and Centinela Avenue.**

The potential improvement evaluated at this location is to modify the southbound approach to provide dual left-turn lanes. This improvement would require modification of the raised median on La Cienega Boulevard north of Centinela Avenue. The resulting configuration would be two left-turn lanes, two through lanes, and one shared through/right-turn lane.

Implementation of this improvement would fully mitigate the significant impact at this location under the LAWA Staff-Recommended Alternative.

◆ **27. La Tijera Boulevard and Centinela Avenue.**

The addition of a second southbound left-turn lane would fully mitigate the project impact at this location. However, this improvement could not be accommodated within the existing right-of-way and would require narrowing of existing sidewalks on La Tijera Boulevard, which would result in policy infeasibility and impacts to alternative modes of transportation. No other feasible improvements have been identified to fully mitigate the project impact. Therefore, this impact would remain significant and unavoidable.

It is noted that a recent study conducted for SCAG developed grade separation concept designs for the adjacent intersection of La Cienega Boulevard at Centinela Avenue, La Tijera Boulevard, and Fairview Boulevard. If this grade separation concept becomes feasible, LAWA can provide fair share contribution, subject to FAA approval, to this improvement to fully mitigate the project impact at the adjacent intersection of La Cienega Boulevard at Centinela Avenue. This would then reduce the project traffic passing through the intersection of La Tijera Boulevard and Centinela Avenue and reduce the project impact at this location. In addition, if permitted by the FAA, LAWA will also make a monetary contribution to upgrading the County's ITS system at this intersection to partially mitigate the alternative's contribution to the cumulative impacts. Because the County does not have a method to quantify the benefits of this improvement, no quantitative V/C reduction has been taken for this location.

◆ **34. La Brea Avenue/Hawthorne Boulevard and Century Boulevard.**

To fully mitigate the project impact at this location under the LAWA Staff-Recommended Alternative would require the fair share contribution to Inglewood's ITS improvement program (the contribution to the system would be equivalent to a 0.10 reduction in volume/capacity), increased service levels of the airport employee TDM/Vanpool program, and physical roadway improvements such as additional through lanes on the northbound, southbound, eastbound, and westbound approaches. However, these physical improvements could not be accommodated within the existing right-of-way and would require removal of existing business on Hawthorne Boulevard and narrowing of existing sidewalks on Century Boulevard, which may result in impacts to alternative modes of transportation. Therefore, the physical improvements are considered infeasible. No feasible improvements have been identified to fully mitigate the project impact at this location under the LAWA Staff-Recommended Alternative. This impact could be partially mitigated through contribution to the ITS program and the TDM/Vanpool program at the airport. Therefore, the impact at this location would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **35. Inglewood Avenue and Century Boulevard.**

The impact at this location could be mitigated through fair share contribution to the City of Inglewood's ITS improvement program. The contribution to the system would be equivalent to a 0.10 reduction in volume/capacity. This would fully mitigate the impacts under the LAWA Staff-Recommended Alternative.

◆ **36. La Cienega Boulevard and Century Boulevard.**

The potential improvements evaluated at this location for the LAWA Staff-Recommended Alternative involves modifying the LAWA Staff-Recommended Alternative assumptions for lane configuration to the following: the northbound and southbound lane configurations from one left-turn lane, two through lanes, and two right-turn lanes to two left-turn lanes, two through lanes, one shared through/right-turn lane, and one right-turn lane; the eastbound lane configuration from one left-turn lane, three through lanes, and one right-turn lane to two left-turn lanes, three through lanes, and two right-turn lanes; and the westbound lane

configuration from one left-turn lane, three through lanes, and one shared through/right-turn lane to two left-turn lanes, four through lanes, and two right-turn lanes with a westbound right-turn overlap phase.

The physical improvements proposed above for the LAWA Staff-Recommended Alternative could not be accommodated within the existing right-of-way. They would require removal of existing business and therefore are considered infeasible.

The impact at this location could be reduced through increased service levels of the airport employee TDM/Vanpool program. This program would improve intersection operations; however, it would only partially mitigate the significant impact at this location. In addition, if permitted by the FAA, LAWA will also make a monetary contribution to upgrading the County's ITS system at this intersection to partially mitigate the alternative's contribution to the cumulative impacts. Because the County does not have a method to quantify the benefits of this improvement, no quantitative V/C reduction has been taken for this location. No other feasible improvements have been identified to fully mitigate the project impact under the LAWA Staff-Recommended Alternative. Therefore, the impact at this location would remain significant and unavoidable under the LAWA Staff-Recommended Alternative. Additional details regarding infeasibility are provided in Part II of the SPAS Final EIR, Response to Comment SPAS-AL00008-35.

◆ **37. Prairie Avenue and Century Boulevard.**

The impact at this location could be mitigated through fair share contribution to the City of Inglewood's ITS improvement program. The contribution to the system would be equivalent to a 0.10 reduction in volume/capacity. This would fully mitigate the impacts under the LAWA Staff-Recommended Alternative.

◆ **38. Sepulveda Boulevard and Century Boulevard.**

The potential improvement evaluated at this location is to restripe the westbound approach to allow triple left turns from Century Boulevard westbound to southbound Sepulveda Boulevard. The westbound configuration would be two left turns, one shared left-turn/through/right-turn lane, and one right-turn lane. This would require removal of the raised median island on the westbound departure, which is considered physically feasible. Implementation of this physical improvement would fully mitigate the impacts for the LAWA Staff-Recommended Alternative.

◆ **46. Douglas Street and El Segundo Boulevard.**

The potential improvements that would fully mitigate the project impact at this location would involve widening of the northbound approach to provide two left-turn lanes, two through lanes, and one shared through/right-turn lane; and widening of the eastbound approach to provide an additional eastbound through lane. Both improvements could not be accommodated within the existing right-of-way and would require removal of off-street surface parking spaces of existing businesses, and are therefore considered infeasible. Therefore, this impact would be significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **51. Hawthorne Boulevard and El Segundo Boulevard.**

To fully mitigate the project impact at this location, the southbound configuration would need to provide one right-turn lane, four through lanes, and two left-turn lanes. However, this improvement is not feasible due to physical constraints such as removal of recently constructed streetscape improvements and on-street parking on the southbound departure. No feasible improvements have been identified. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **57. La Brea Avenue and Florence Avenue.**

The potential improvement evaluated at this location is to restripe the northbound approach to provide a separate right-turn lane, resulting in one left-turn lane, two through lanes, and one right-turn lane. This improvement would fully mitigate the identified impact under the LAWA Staff-Recommended Alternative.

◆ **58. La Cienega Boulevard and Florence Avenue.**

Potential improvements evaluated at this location are to modify the north/south split phasing to Protected-Variable and to restripe the southbound approach to provide two left-turn lanes, one through lane, and one shared through/right-turn lane. Implementation of these improvements would partially mitigate the identified project impact under the LAWA Staff-Recommended Alternative. To fully mitigate the intersection would require the following configuration: northbound one left-turn lane, three through lanes, and one right-turn lane; southbound two left-turn lanes, three through lanes, and two right-turn lanes; eastbound two left-turn lanes, one through lane, and one shared through/right-turn lane; and westbound two left-turn lanes, one through lane, and one shared through/right-turn lane. These improvements would require obtaining right-of-way from the adjoining freeway and would conflict with the planned Metro LAX/Crenshaw light rail line, resulting in policy infeasibility and impacts to alternative modes of transportation. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **60. Sepulveda Boulevard and Grand Avenue.**

The mitigation measure for this location is to restripe the westbound approach to provide additional left-turn capacity by restriping a through lane to a shared through/left-turn lane. Minor changes to the lane assignment signage would also be necessary. The resulting westbound lane configuration would be two left-turn lanes, one shared through/left-turn lane, one through lane and one right-turn lane. This improvement would be a full mitigation for project impacts.

◆ **62. Hawthorne Boulevard and Imperial Avenue.**

The potential improvement evaluated at this location is to restripe the southbound approach to provide a separate right-turn lane, resulting in one left-turn lane, three through lanes, and one right-turn lane. Implementation of this improvement would only partially mitigate the identified impact under the LAWA Staff-Recommended Alternative. To fully mitigate the impact at this location under the LAWA Staff-Recommended Alternative would require the provision of additional eastbound and westbound through lanes. This physical improvement could not be accommodated within the existing right-of-way and would require removal of existing businesses (economic and policy infeasibility) and create additional environmental impacts associated with demolition and construction, such as noise, air quality, etc., and therefore is considered infeasible. No other feasible improvements are available to fully mitigate the project impact under the LAWA Staff-Recommended Alternative. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **63. Hawthorne Boulevard and Lennox Boulevard.**

The potential improvement evaluated at this location is to restripe the southbound approach to provide an additional left-turn lane and one additional through lane, which would require removal of the raised center median on Hawthorne Boulevard. The resulting southbound configuration would be two left-turn lanes, three through lanes, and one shared through/right-turn lane. This improvement would fully mitigate the identified impact; however, it could not be accommodated within the existing right-of-way and would require removal of existing business on Hawthorne Boulevard (economic and policy infeasibility) and create additional environmental impacts associated with demolition and construction, such as noise, air quality, etc. Therefore, this improvement is considered infeasible. If permitted by the FAA, LAWA

will make a monetary contribution to upgrading the County's ITS system at this intersection to partially mitigate the alternative's contribution to the cumulative impacts. Because the County does not have a method to quantify the benefits of this improvement, no quantitative V/C reduction has been taken for this location. No other feasible improvements have been identified to fully mitigate the project impact. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative. Additional details regarding infeasibility are provided in Part II of the SPAS Final EIR, Response to Comment SPAS-AL00008-36.

◆ **64. Highland Avenue/Vista del Mar and Rosecrans Avenue.**

The addition of a second westbound right-turn lane or a free westbound right-turn lane would fully mitigate the project impact at this location; however, it would require removal of off-street parking space and disrupt the existing business at the northeast corner of the intersection. Therefore, due to the existing right-of-way constraints on Highland Avenue, the proposed mitigation is infeasible. No other feasible improvements have been identified to fully mitigate the project impact. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **66. Inglewood Avenue and Imperial Highway.**

The potential improvement evaluated at this location is to restripe the southbound approach to provide additional through capacity, resulting in one left-turn lane, one through lane, and one shared through/right-turn lane. This improvement would partially mitigate the identified impact under the LAWA Staff-Recommended Alternative. No other feasible improvements have been identified to fully mitigate the project impact under the LAWA Staff-Recommended Alternative. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **71. Sepulveda Boulevard and Imperial Highway.**

Potential improvements evaluated at this location are to modify the traffic signal to include a northbound right-turn overlap phase, restripe the westbound approach to provide a second right-turn lane, and restripe the northbound approach on Sepulveda Boulevard to provide one left-turn lane, three through lanes, and two right-turn lanes. The improvement to the westbound approach can be accommodated within the existing right-of-way, but would require relocation of the existing bike lane to south of the dual right-turn lanes. Implementation of these improvements would fully mitigate the impact at this location under the LAWA Staff-Recommended Alternative.

◆ **76. Inglewood Avenue and Lennox Boulevard.**

The addition of a second through lane on both the northbound and southbound approaches would fully mitigate the project impact at this location, however this widening of the northbound and southbound approaches would require narrowing of existing sidewalk on Inglewood Avenue, resulting in policy infeasibility and impacts to alternative modes of transportation. If permitted by the FAA, LAWA will make a monetary contribution to upgrading the County's ITS system at this intersection to partially mitigate the alternative's contribution to the cumulative impacts. Because the County does not have a method to quantify the benefits of this improvement, no quantitative V/C reduction can be taken for this location. No other feasible improvements have been identified. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative. Additional details regarding infeasibility are provided in Part II of the SPAS Final EIR, Response to Comment SPAS-AL00008-37.

◆ **77. Inglewood Avenue and Manchester Boulevard.**

The addition of a third eastbound through lane would fully mitigate the project impact at this location; however, it would require removing of existing mature landscaped raised median and removal of off-street surface parking spaces on existing business properties, and

- therefore is considered infeasible. No other feasible improvements have been identified to fully mitigate the project impact. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.
- ◆ **85. La Brea Avenue and Manchester Boulevard.**

The impact at this location could be mitigated through fair share contribution to the City of Inglewood's ITS improvement program. The contribution to the system would be equivalent to a 0.10 reduction in volume/capacity. This would fully mitigate the impacts under the LAWA Staff-Recommended Alternative.
  - ◆ **86. La Brea Avenue/Overhill Avenue and Stocker Street.**

The potential improvement evaluated at this location would modify the southbound approach to provide additional through capacity by converting the southbound free right-turn lane to a shared through/right-turn lane, resulting in two left-turn lanes, two through lanes, and one shared through/right-turn lane. Implementation of this improvement could be accomplished within the existing right-of-way, but would remove the raised island on the northwest corner of the intersection. Because this improvement would only partially mitigate the project impact in certain peak hours but would worsen conditions in others, it is not recommended. To fully mitigate the impact at this location would require the provision of a southbound through lane, which is not feasible within the existing right-of-way and would require narrowing sidewalks on La Brea Avenue, which would result in policy infeasibility and impacts to alternative modes of transportation. If permitted by the FAA, LAWA will make a monetary contribution to upgrading the County's ITS system at this intersection to partially mitigate the alternative's contribution to the cumulative impacts. Because the County does not have a method to quantify the benefits of this improvement, no quantitative V/C reduction has been taken for this location. No other feasible improvements have been identified to fully mitigate the project impact. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative. Additional details regarding infeasibility are provided in Part II of the SPAS Final EIR, Response to Comment SPAS-AL00008-38.
  - ◆ **87. La Brea Avenue and Slauson Avenue.**

The potential improvement evaluated at this location is to restripe the southbound approach to provide one left-turn lane, two through lanes, and one shared through/right-turn lane and to eliminate the existing southbound right-turn overlap phase. Implementation of this improvement would partially mitigate the project impact at this location. If permitted by the FAA, LAWA will also make a monetary contribution to upgrading the County's ITS system at this intersection to partially mitigate the alternative's contribution to the cumulative impacts. Because the County does not have a method to quantify the benefits of this improvement, no quantitative V/C reduction has been taken for this location. No other feasible improvements have been identified to fully mitigate the project impact. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.
  - ◆ **88. La Cienega Boulevard and La Tijera Boulevard.**

Due to right-of-way and physical constraints at this intersection, no feasible improvements have been identified. It is noted that a recent study conducted for SCAG developed grade separation concept designs for La Cienega Boulevard at Centinela Avenue, La Tijera Boulevard, and Fairview Boulevard. Pending further study of these concepts to determine their feasibility, however, this impact would remain significant and unavoidable. If this grade separation concept becomes feasible, LAWA can provide fair share contribution, subject to FAA approval, to this improvement to fully mitigate the project impact at this location.
  - ◆ **90. La Cienega Boulevard and Manchester Boulevard.**

The improvement for this location included in the LAX Master Plan involves changing the north/south split phasing from split to protected and restriping La Cienega Boulevard from north of Florence Avenue to south of Olive Street in order to reconfigure the southbound

approach to provide two left-turn lanes, one through lane, and one shared through/right-turn lane. Implementation of this improvement would only partially mitigate the identified project impact under the LAWA Staff-Recommended Alternative. To fully mitigate the impact at this location for the LAWA Staff-Recommended Alternative would require the provision of a second eastbound left-turn lane, a second westbound left-turn lane, and an additional northbound through lane. These additional improvements would require removal of an existing retaining wall on the eastside of La Cienega Boulevard and would require widening of the Manchester Boulevard Bridge over the I-405 Freeway. These additional improvements would require further engineering study and Caltrans review and approval, and therefore may not be feasible. No feasible improvements have been identified to fully mitigate the project impact at the LAWA Staff-Recommended Alternative.

Although the partial mitigation of changing the north/south split phasing from split to protected and restriping the southbound approach to provide two left-turn lanes, one through lane, and one shared through/right-turn lane is physically feasible; therefore, the project impact at this location would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **93. La Cienega Boulevard and Stocker Street.**

Due to right-of-way and physical constraints at this intersection, no feasible improvements have been identified. It is noted that a recent study conducted for SCAG developed a grade separation concept design for La Cienega Boulevard at Stocker Street. Pending further study of these concepts to determine their feasibility, however, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative. If this grade separation concept becomes feasible, LAWA can provide fair share contribution to this improvement, subject to FAA approval, to fully mitigate the project impact at this location. If permitted by the FAA, LAWA will also make a monetary contribution to upgrading the County's ITS system at this intersection to partially mitigate the alternative's contribution to the cumulative impacts. Because the County does not have a method to quantify the benefits of this improvement, no quantitative V/C reduction can be taken for this location and the impact is considered to be significant and unavoidable. Additional details regarding infeasibility are provided in Part II of the SPAS Final EIR, Response to Comment SPAS-AL00008-39.

◆ **95. La Cienega Boulevard and 120th Street.**

The addition of a second southbound left-turn lane would fully mitigate the project impact at this location. However, this improvement could not be accommodated within the existing right-of-way, but would require removal of existing business on the east side La Cienega Boulevard (economic and policy infeasibility) and create additional environmental impacts associated with demolition and construction, such as noise, air quality, etc. Therefore, this improvement is considered infeasible. If permitted by the FAA, LAWA will make a monetary contribution to upgrading the County's ITS system at this intersection to partially mitigate the alternative's contribution to the cumulative impacts. Because the County does not have a method to quantify the benefits of this improvement, no quantitative V/C reduction can be taken for this location. No feasible improvements have been identified that would fully mitigate the identified impact. Therefore, this impact would remain significant and unavoidable. Additional details regarding infeasibility are provided in Part II of the SPAS Final EIR, Response to Comment SPAS-AL00008-40.

◆ **96. La Cienega Boulevard and Southbound I-405 Ramps (north of Century Boulevard).**

The potential improvement evaluated at this location involves widening of the I-405 Freeway southbound off-ramp (the westbound approach) to provide one left-turn lane, one shared left-turn/through lane, and one shared through/right-turn lane. This proposed improvement would only partially mitigate the impact under the LAWA Staff-Recommended Alternative. Full mitigation of the impacts under the LAWA Staff-Recommended Alternative would also require widening the northbound approach to provide two left-turn lanes, one through lane, one

shared through/right-turn lane, and one right-turn lane. The proposed physical improvements are considered feasible and would fully mitigate the project impacts at this location under Future (2025) with the LAWA Staff-Recommended Alternative scenario.

◆ **102. Northbound I-405 Ramps and La Tijera Boulevard.**

A potential improvement that would fully mitigate the project impact at this location is the addition of a second eastbound left-turn lane from La Tijera Boulevard onto the I-405 northbound on-ramp and the widening of the westbound approach of La Tijera Boulevard from four to five through lanes plus a westbound right-turn lane. This improvement is identified as a potential improvement in the Coastal Corridor Specific Plan, but is subject to additional feasibility analysis and is not considered feasible at this time.

The impact at this location could be reduced through increased service levels of the airport employee TDM/Vanpool program. This program would improve intersection operations; however, it would only partially mitigate the significant impact at this location. No other feasible improvements have been identified to fully mitigate the project impact under the LAWA Staff-Recommended Alternative.

If the widening of the La Tijera Boulevard Bridge becomes feasible, LAWA can provide fair share contribution to this improvement, subject to FAA approval, to fully mitigate the project impact at this location.

◆ **109. Lincoln Boulevard and Venice Boulevard.**

The addition of one northbound through lane would fully mitigate the project impact at this location. However, this improvement could not be accommodated within the existing right-of-way and would require narrowing sidewalks on Lincoln Boulevard, which would result in policy infeasibility and impacts to alternative modes of transportation.

The impact at this location could be reduced through increased service levels of the airport employee TDM/Vanpool program. This program would improve intersection operations; however, it would only partially mitigate the significant impact at this location. No other feasible improvements have been identified to fully mitigate the project impact under the LAWA Staff-Recommended Alternative. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **110. Lincoln Boulevard and Washington Boulevard.**

The addition of a southbound through lane would fully mitigate the project impact at this location. However, adding a southbound through lane would require widening of the southbound approach and departure, which would require removal of existing business on the west side of Lincoln Boulevard (economic and policy infeasibility) and create additional environmental impacts associated with demolition and construction, such as noise, air quality, etc., and therefore is considered infeasible. The impact at this location could be reduced through increased service levels of the airport employee TDM/Vanpool program. This program would improve intersection operations; however, it would only partially mitigate the significant impact at this location. No other feasible improvements have been identified to fully mitigate the project impact under the LAWA Staff-Recommended Alternative. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative. Additional details regarding infeasibility are provided in Part II of the SPAS Final EIR, Response to Comment SPAS-AL00001-1.

◆ **115. Ash Avenue and Manchester Avenue.**

The potential improvement evaluated at this location is to restripe the northbound approach to provide additional left-turn capacity, resulting in two left-turn lanes and one shared through/right-turn lane. Implementation of this improvement would partially mitigate the impact at this location under the LAWA Staff-Recommended Alternative. No other feasible improvements have been identified to fully mitigate the project impact under the LAWA Staff-

Recommended Alternative. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **119. Ocean Avenue/Via Marina and Washington Boulevard.**

The potential improvement for this location would be restriping the westbound approach to provide a separate right-turn lane. Because it would not fully mitigate the project impact and because it would entail removal of approximately six on-street parking spaces, this improvement is not considered feasible. To fully mitigate the project impact at this location would require the provision of additional eastbound and westbound through lanes.

However, these improvements would require widening of the eastbound and westbound approaches and departures, which would require removal of existing business on Washington Boulevard (economic and policy infeasibility) and create additional environmental impacts associated with demolition and construction, such as noise, air quality, etc., and therefore are considered infeasible. If permitted by the FAA, LAWA will make a monetary contribution to upgrading the County's ITS system at this intersection to partially mitigate the alternative's contribution to the cumulative impacts. Because the County does not have a method to quantify the benefits of this improvement, no quantitative V/C reduction can be taken for this location. No feasible improvements have been identified to fully mitigate the project impact. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative. Additional details regarding infeasibility are provided in Part II of the SPAS Final EIR, Response to Comment SPAS-AL00008-41.

◆ **125. Sepulveda Boulevard and Rosecrans Avenue.**

Addressing the significant impact at this location would require widening of the northbound approach to provide two left-turn lanes, five through lanes, and one right-turn lane. This physical improvement could not be accommodated within the existing right-of-way and would require removal of existing business (economic and policy infeasibility) on Sepulveda Boulevard and create additional environmental impacts associated with demolition and construction, such as noise, air quality, etc., and therefore is considered infeasible.

The impact at this location could be reduced through increased service levels of the airport employee TDM/Vanpool program. This program would improve intersection operations; however, it would only partially mitigate the significant impact at this location. No other feasible improvements have been identified to fully mitigate the project impact under the LAWA Staff-Recommended Alternative. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative. Additional details regarding infeasibility are provided in Part II of the SPAS Final EIR, Response to Comment SPAS-AL00004-20.

◆ **139. Sepulveda Boulevard and I-105 Westbound Ramps (North of Imperial Avenue).**

The addition of a fourth northbound through lane would fully mitigate the project impact at this location. However, the proposed improvement could not be accommodated within the existing right-of-way and would require relocation of existing supporting structures of the I-105 Freeway and modification to the I-105 westbound off-ramp at Sepulveda Boulevard, which would require further engineering study and may not be acceptable to Caltrans. In addition, the merge from four lanes to the existing three lanes in the Sepulveda Tunnel north of this intersection could not be achieved using Caltrans standards.

The impact at this location could be reduced through increased service levels of the airport employee TDM/Vanpool program. This program would improve intersection operations; however, it would only partially mitigate the significant impact at this location. No other feasible improvements have been identified to fully mitigate the project impact under the LAWA Staff-Recommended Alternative. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **143. Vicksburg Avenue and 96th Street.**

The potential improvement evaluated at this location is to widen the westbound approach to provide dual right-turn movements from Vicksburg Avenue to 96th Street Bridge, resulting in the following westbound configuration: one left-turn lane, one through lane, and two right-turn lanes. Implementation of this improvement would fully mitigate the project impact under the LAWA Staff-Recommended Alternative.

◆ **147. Crenshaw Boulevard and Century Boulevard.**

The addition of a fourth southbound through lane would fully mitigate the project impact at this location. However, the proposed improvements could not be accommodated within the existing right-of-way and would require removal of existing business on the west side of Crenshaw Boulevard, which would result in economic and policy infeasibility, and therefore is considered infeasible. The impact at this location could be reduced through increased service levels of the airport employee TDM/Vanpool program. This program would improve intersection operations; however, it would only partially mitigate the significant impact at this location. No other feasible improvements have been identified to fully mitigate the project impact under the LAWA Staff-Recommended Alternative. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **149. Crenshaw Boulevard and Imperial Highway.**

The addition of one through lane in both the eastbound and westbound directions would fully mitigate the project impact at this location. However, the proposed improvement could not be accommodated within existing right-of-way and would require removal of existing business on Imperial Highway, which would result in economic and policy infeasibility, and therefore is considered infeasible. No feasible improvements have been identified to fully mitigate the project impact. This impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **154. Overland Avenue and Sawtelle Boulevard.**

This stop-controlled intersection meets the standard traffic signal warrants<sup>15</sup> recommended in the Federal Highway Administration Manual on Uniform Traffic Control Devices and associated State guidelines and the criteria for installation of a traffic signal under existing conditions. Installation of a signal would improve the traffic operations at this location and could fully mitigate the project impact. However, installation of a traffic signal at this location would be the responsibility of Culver City. No other feasible improvements have been identified to fully mitigate the project impact. Therefore, the impact at this location would remain significant and unavoidable under the LAWA Staff-Recommended Alternative. If installation of the signal becomes feasible, LAWA would provide a fair share contribution, subject to FAA approval, to this improvement, which would fully mitigate the project impact at this location.

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<sup>15</sup> This analysis is intended to examine the general correlation between the planned level of future development and the need to install new traffic signals. It estimates future development-generated traffic compared against a sub-set of the standard traffic signal warrants recommended in the Federal Highway Administration Manual on Uniform Traffic Control Devices and associated State guidelines. This analysis should not serve as the only basis for deciding whether and when to install a signal. To reach such a decision, the full set of warrants should be investigated based on field-measured, rather than forecast, traffic data and a thorough study of traffic and roadway conditions by an experienced engineer. Furthermore, the decision to install a signal should not be based solely upon the warrants, since the installation of signals can lead to certain types of collisions. The responsible local agency should undertake regular monitoring of actual traffic conditions and accident data, and timely re-evaluation of the full set of warrants in order to prioritize and program intersections for signalization.

◆ **156. Walgrove Avenue and Washington Boulevard.**

This stop-controlled intersection meets the standard traffic signal warrants<sup>16</sup> recommended in the Federal Highway Administration Manual on Uniform Traffic Control Devices and associated State guidelines and the criteria for installation of a traffic signal under existing conditions. Installation of a signal would improve the traffic operations at this location and could fully mitigate the project impact. However, installation of a traffic signal at this location would be the responsibility of Culver City and, given the close proximity to upstream/downstream signals, may not be acceptable to Culver City. No other feasible improvements have been identified to fully mitigate the project impact. Therefore, the impact at this location would be significant and unavoidable under the LAWA Staff-Recommended Alternative. If installation of a signal becomes feasible at this location, LAWA would provide a fair share contribution, subject to FAA approval, to this improvement, which would fully mitigate the project impact at this location.

◆ **159. Hindry Avenue and Manchester Boulevard.**

The potential improvement evaluated at this location is to reconfigure the eastbound approach to provide a separate right-turn lane, resulting in one left-turn lane, two through lanes, and one right-turn lane. Implementation of this improvement would require removal of approximately seven metered parking spaces. This improvement would fully mitigate the project impact under Alternative 4 and partially mitigate the project impact under the LAWA Staff-Recommended Alternative. No feasible improvements have been identified to fully mitigate the project impact for the LAWA Staff-Recommended Alternative. Therefore, the impact at this location would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **162. Sepulveda Boulevard and Manhattan Beach Boulevard.**

The addition of a second northbound left-turn lane would fully mitigate the project impact at this location. Implementation of this improvement would require removal of the raised median on Sepulveda Boulevard and would require narrowing of existing sidewalk on the east side of Sepulveda Boulevard, which would result in policy infeasibility and impacts to alternative modes of transportation. Therefore, this improvement is considered infeasible due to right-of-way and physical constraints. The impact at this location could be reduced through increased service levels of the airport employee TDM/Vanpool program. This program would improve intersection operations; however, it would only partially mitigate the significant impact at this location. No other feasible improvements have been identified to fully mitigate the project impact under the LAWA Staff-Recommended Alternative. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **164. Manchester Avenue and Crenshaw Boulevard.**

The addition of one through lane in the eastbound and westbound directions would fully mitigate the project impact at this location. Implementation of this improvement would require additional right-of-way and would require removal of the raised median and on-street parking on Manchester Boulevard, and therefore is considered infeasible. No other feasible improvements have been identified to fully mitigate the impact at this location. Therefore, this

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<sup>16</sup> This analysis is intended to examine the general correlation between the planned level of future development and the need to install new traffic signals. It estimates future development-generated traffic compared against a sub-set of the standard traffic signal warrants recommended in the Federal Highway Administration Manual on Uniform Traffic Control Devices and associated State guidelines. This analysis should not serve as the only basis for deciding whether and when to install a signal. To reach such a decision, the full set of warrants should be investigated based on field-measured, rather than forecast, traffic data and a thorough study of traffic and roadway conditions by an experienced engineer. Furthermore, the decision to install a signal should not be based solely upon the warrants, since the installation of signals can lead to certain types of collisions. The responsible local agency should undertake regular monitoring of actual traffic conditions and accident data, and timely re-evaluation of the full set of warrants in order to prioritize and program intersections for signalization.

impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **165. La Cienega Boulevard and Rodeo Road.**

The project impact at this location would be fully mitigated with the addition of a separate southbound right-turn lane to serve the channelized free right-turn lane that exists at the intersection. Extending the southbound right-turn lane would require additional right-of-way and would significantly disrupt the existing business on the northwest corner of the intersection, which would result in economic and policy infeasibility; and is therefore determined to be infeasible. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

In addition, it is noted that a recent study conducted for SCAG developed a grade separation concept designs for La Cienega Boulevard at Rodeo Road. Pending further study of this concept to determine its feasibility, this impact, however, would remain significant and unavoidable. If this grade separation concept becomes feasible, LAWA can provide fair share contribution, subject to FAA approval, to this improvement to fully mitigate the project impact at this location.

◆ **169. Prairie Avenue and Manchester Boulevard.**

The potential improvement evaluated at this location is to reconfigure the eastbound approach to provide dual left-turn lanes. This improvement would require removing the raised center median and restriping the westbound departure lanes northward in the existing right-of-way. The resulting eastbound approach would provide two left-turn lanes, two through lanes, and one shared through/right-turn lane. This improvement would only partially mitigate the project impact under the LAWA Staff-Recommended Alternative. No other feasible improvements have been identified to fully mitigate the project impacts under the LAWA Staff-Recommended Alternative. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **172. Western Avenue and Manchester Avenue.**

The project impact at this location would be fully mitigated with the addition of westbound dual left-turn lanes. However, this improvement would require additional right-of-way acquisition from private properties on the west side of Western Avenue and would significantly disrupt those existing business due to loss of off-street parking spaces, which would result in economic and policy infeasibility; and is therefore determined to be infeasible. No feasible improvements are available to fully mitigate the project impact. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **173. Western Avenue and Imperial Highway.**

The addition of a separate eastbound right-turn lane would fully mitigate the project impact at this location. However, this improvement would require additional right-of-way acquisition from private property on the southwest corner of this intersection, and would significantly disrupt that existing business due to loss of off-street parking spaces, which would result in economic and policy infeasibility. Therefore, this improvement is determined to be infeasible. If permitted by the FAA, LAWA will make a monetary contribution to upgrading the County's ITS system at this intersection to partially mitigate the alternative's contribution to the cumulative impacts. Because the County does not have a method to quantify the benefits of this improvement, no quantitative V/C reduction can be taken for this location. No feasible improvements are available to fully mitigate the project impact. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative. Additional details regarding infeasibility are provided in Part II of the SPAS Final EIR, Response to Comment SPAS-AL00008-42.

◆ **188. Prairie Avenue and El Segundo Boulevard.**

The project impact at this location would be fully mitigated with the addition of separate eastbound and westbound right-turn lanes. However, these improvements would require additional right-of-way acquisition from the private property on the southwest corner of this intersection and public space from Hawthorne Memorial Park, which would result in economic and policy infeasibility. No other feasible improvements have been identified to fully mitigate the project impact at this location. Therefore, this impact would remain significant and unavoidable under the LAWA Staff-Recommended Alternative.

◆ **197. Prairie Avenue and Lennox Boulevard.**

The potential improvement evaluated at this location is to restripe the eastbound approach to provide one left-turn lane, one shared through/left-turn lane, and one right-turn lane. This improvement would only partially mitigate the project impact under the LAWA Staff-Recommended Alternative. No other feasible improvements have been identified to fully mitigate the project impact under the LAWA Staff-Recommended Alternative. Therefore, this impact would remain significant and unavoidable for the LAWA Staff-Recommended Alternative.

**Freeway Segment Improvements**

No feasible improvements have been identified for the three freeway segments that could be significantly impacted under the LAWA Staff-Recommended Alternative:

- ◆ Route 405, at postmile 0.40, north of Route 22
- ◆ Route 405, at postmile 8.02, Santa Fe Avenue
- ◆ Route 405, at postmile 11.90, south of Route 110

To fully mitigate the project impact at these locations would require the construction of an additional northbound travel lane at each location and an additional southbound travel lane on I-405 south of Route 110. Due to right-of-way and physical constraints, such as existing bridge structures and auxiliary lane and ramp configurations, the addition of travel lanes at these locations is not feasible. Therefore, impacts would remain significant and unavoidable.

**Recommended Mitigation Program**

Based on the information provided above, the following mitigation measures are proposed to address off-airport transportation impacts to intersections and CMP facilities that may result from the LAWA Staff-Recommended Alternative:

**Intersection Mitigation Measures**

◆ **MM-ST (SPAS)-1. Transportation Demand Management Program.**

To reduce the impacts associated with the LAWA Staff-Recommended Alternative, LAWA will provide additional vanpool services to airport employees. This would reduce vehicular trips on the major roadways that provide direct access to and from the airport facilities (e.g., Sepulveda Boulevard, Lincoln Boulevard, Century Boulevard, La Tijera Boulevard, Aviation Boulevard, and La Cienega Boulevard). The upgrades to the existing vanpool program would entail providing sufficient vehicles to accommodate up to 500 employees that would shift from driving to the airport to the program.

The increased vanpool service will result in removal of approximately 740 daily vehicular trips to and from the airport parking facilities on a typical weekday. The net effect of this program would result in partial mitigation of project impacts at multiple locations associated with the LAWA Staff-Recommended Alternative.

◆ **MM-ST (SPAS)-2. Modify the Intersection of Airport Boulevard and Arbor Vitae Street/ Westchester Parkway (Intersection 6).**

The mitigation measure for this location is to restripe the northbound approach and departure to provide a third through lane so that the resulting northbound lane configuration would be one left-turn lane, two through lanes, and one shared through/right-turn lane. This would be a partial mitigation for the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-3. Modify the Intersection of Airport Boulevard and Century Boulevard (Intersection 7).**

The mitigation measure for this location is to reconfigure the traffic signal to add a southbound right-turn overlapping phase, and reconfigure the northbound approach to provide additional left-turn capacity. The resulting northbound approach would provide one left-turn lane, one shared through/left-turn lane, one through lane, and one right-turn lane. The impact at this location could be reduced through increased service levels of the airport employee TDM/Vanpool program. This program would improve intersection operations; however, the combined effect of the physical improvement and the employee vanpool program would partially mitigate the identified impact under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-4. Modify the Intersection of Arbor Vitae Street and Inglewood Avenue (Intersection 11).**

The mitigation measure for this location is to restripe the southbound approach to provide a separate right-turn lane. This improvement would be a full mitigation for the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-5. La Brea Avenue and Arbor Vitae Street (Intersection 12).**

The mitigation involves Fair share contribution to the City of Inglewood's ITS improvement program for this intersection. Implementation of the ITS improvement would be full mitigation for the project impact under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-8. Modify the Intersection of Aviation Boulevard/Florence Avenue and Manchester Avenue (Intersection 17).**

The mitigation measure for this location is to restripe both the eastbound and westbound lane configurations from one left-turn lane, two through lanes, and one right-turn lane to one left-turn lane, two through lanes, and one shared through/right-turn lane. This would be a full mitigation for the project impacts under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-9. Modify the Intersection of La Brea Avenue and Centinela Avenue (Intersection 25).**

The mitigation measure for this location is to restripe the northbound and southbound approaches to provide separate right-turn lanes. The resulting lane configuration would be northbound one left-turn lane, two through lanes, and one right-turn lane; and southbound one left-turn lane, two through lanes, and one right-turn lane. This would be a full mitigation for the project impacts under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-10. Modify the Intersection of La Cienega Boulevard and Centinela Avenue (Intersection 26).**

The mitigation measure for this location is to modify the southbound approach to provide dual left-turn lanes. This improvement would require modification to the raised median on La Cienega Boulevard north of Centinela Avenue. The resulting configuration would be two left-turn lanes, two through lanes, and one shared through/right-turn lane. This improvement

- would be a full mitigation for project impacts identified at this location under the Future (2025) With the LAWA Staff-Recommended Alternative scenario. This would also be the mitigation for this impacted CMP arterial intersection.
- ◆ **MM-ST (SPAS)-12. La Brea Avenue/Hawthorne Boulevard and Century Boulevard (Intersection 34).**

The mitigation involves fair share contribution to the City of Inglewood's ITS improvement program for this intersection. Implementation of the ITS improvement would be partial mitigation for the project impact under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.
  - ◆ **MM-ST (SPAS)-13. Inglewood Avenue and Century Boulevard (Intersection 35).**

The mitigation involves fair share contribution to the City of Inglewood's ITS improvement program for this intersection. Implementation of the ITS improvement would be provide full mitigation for the project impact under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.
  - ◆ **MM-ST (SPAS)-14. Prairie Avenue and Century Boulevard (Intersection 37).**

The mitigation involves fair share contribution to the City of Inglewood's ITS improvement program for this intersection. Implementation of the ITS improvement would provide full mitigation for the project impact under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.
  - ◆ **MM-ST (SPAS)-15. Modify the Intersection of Sepulveda Boulevard and Century Boulevard (Intersection 38).**

The mitigation measure for this location is to restripe the westbound approach to provide two left-turn lanes, one shared left-turn/through/right-turn lane, and one right-turn lane. This improvement would be a full mitigation for the Future (2025) With the LAWA Staff-Recommended Alternative scenario.
  - ◆ **MM-ST (SPAS)-17. Modify the Intersection of La Brea Avenue and Florence Avenue (Intersection 57).**

The mitigation measure for this location is to restripe the northbound approach to provide a separate right-turn lane, resulting in one left-turn lane, two through lanes, and one right-turn lane. This improvement would be a full mitigation for project impacts identified at this location under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.
  - ◆ **MM-ST (SPAS)-18. Modify the Intersection of La Cienega Boulevard and Florence Avenue (Intersection 58).**

The mitigation measure for this location is to modify the north/south split phasing to Protected-Variable and restripe the southbound approach to provide two left-turn lanes, one through lane, and one shared through/right-turn lane. This improvement would be a partial mitigation for the project impacts under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.
  - ◆ **MM-ST (SPAS)-19. Modify the Intersection of Sepulveda Boulevard and Grand Avenue (Intersection 60).**

The mitigation measure for this location is to restripe the westbound approach to provide additional left-turn capacity by restriping a through lane to a shared through/left-turn lane. Minor changes to the lane assignment signage would also be necessary. The resulting westbound lane configuration would be two left-turn lanes, one shared through/left-turn lane, one through lane and one right-turn lane. This improvement would be a full mitigation for project impacts under the Future (2025) With Alternatives 1-2, 8, and 9 scenarios.

◆ **MM-ST (SPAS)-20. Modify the Intersection of Hawthorne Boulevard and Imperial Avenue (Intersection 62).**

The mitigation measure for this location is to restripe the southbound approach to provide a separate right-turn lane, resulting in one left-turn lane, three through lanes, and one right-turn lane. This improvement would be a partial mitigation for project impacts under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-21. Modify the Intersection of Inglewood Avenue and Imperial Highway (Intersection 66).**

The mitigation measure for this location is to restripe the southbound approach to provide additional through capacity, resulting in one left-turn lane, one through lane, and one shared through/right-turn lane. This improvement would be a partial mitigation for impacts under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-23. Modify the Intersection of Sepulveda Boulevard and Imperial Highway (Intersection 71).**

The mitigation measure for this location is to modify the traffic signal to include a northbound right-turn overlap phase, restripe the westbound approach to provide a second right-turn lane, and restripe the northbound approach on Sepulveda Boulevard to provide one left-turn lane, three through lanes, and two right-turn lanes. These would be a full mitigation for the project impacts under the Baseline (2010) with the LAWA Staff-Recommended Alternative scenario and also those impacts under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-25. Modify the Intersection of La Brea Avenue and Manchester Boulevard (Intersection 85).**

The mitigation involves fair share contribution to the City of Inglewood's ITS improvement program for this intersection. Implementation of the ITS improvement would provide full mitigation for the project impact found Baseline (2010) With the LAWA Staff-Recommended Alternative and under the Future (2025) With the LAWA Staff-Recommended Alternative.

◆ **MM-ST (SPAS)-26. Modify the Intersection of La Brea Avenue and Slauson Avenue (Intersection 87).**

The mitigation measure for this location is to restripe the southbound approach to provide one left-turn lane, two through lanes, and one shared through/right-turn lane and to eliminate the existing southbound right-turn overlap phase. This would be a partial mitigation for the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-27. Modify the Intersection of La Cienega Boulevard and Manchester Boulevard (Intersection 90).**

The mitigation measure for this location is to change the north/south split phasing from split to protected and restripe La Cienega Boulevard from north of Florence Avenue to south of Olive Street in order to reconfigure the southbound approach to provide two left-turn lanes, one through lane, and one shared through/right-turn lane. This would be a partial mitigation for project impacts under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-28. Modify the intersection of La Cienega Boulevard and Southbound I-405 Ramps (north of Century Boulevard) (Intersection 96).**

The mitigation measure for this location is to widen the I-405 Freeway southbound off-ramp (the westbound approach) to provide one left-turn lane, one shared left-turn/through lane, and one shared through/right-turn lane.

Full mitigation of the impacts under Future (2025) with the LAWA Staff-Recommended Alternative would also require widening the northbound approach to provide two left-turn lanes, one through lane, one shared through/right-turn lane, and one right-turn lane.

◆ **MM-ST (SPAS)-31. Modify the Intersection of Ash Avenue and Manchester Avenue (Intersection 115).**

The mitigation measure for this location is to restripe the northbound approach to provide additional left-turn capacity, resulting in two left-turn lanes and one shared through/right-turn lane. This would be a partial mitigation for the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-32. Vicksburg Avenue and 96th Street (Intersection 143).**

The mitigation measure for this location is to widen the westbound approach to provide dual right-turn movements from Vicksburg Avenue to 96th Street Bridge, resulting in the following westbound configuration: one left-turn lane, one through lane, and two right-turn lanes. This would be a full mitigation for the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-34. Modify the Intersection of Hindry Avenue and Manchester Boulevard (Intersection 159).**

The mitigation measure for this location is to reconfigure the eastbound approach to provide a separate right-turn lane, resulting in one left-turn lane, two through lanes, and one right-turn lane. This would partially mitigate the impacts under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-35. Modify the Intersection of Prairie Avenue and Manchester Boulevard (Intersection 169).**

The mitigation measure for this location is to reconfigure the eastbound approach to provide dual left-turn lanes. This improvement would require removing the raised center median and restriping the westbound departure lanes northward in the existing right-of-way. The resulting eastbound approach would provide two left-turn lanes, two through lanes, and one shared through/right-turn lane. This would partially mitigate the impacts under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-36. Modify the Intersection of Prairie Avenue and Lennox Boulevard (Intersection 197).**

The mitigation measure for this location is to restripe the eastbound approach to provide one left-turn lane, one shared through/left-turn lane, and one right-turn lane. This improvement would partially mitigate the project impact under the Future (2025) With the LAWA Staff-Recommended Alternative scenario.

◆ **MM-ST (SPAS)-37. Modify the Intersection of Arbor Vitae Street and Aviation Boulevard (Intersection 10).**

The mitigation measure for this location is to widen the eastbound approach to provide a separate right-turn lane, resulting in one left-turn lane, two through lanes, and one right-turn lane. This improvement would fully mitigate the project impact under the Future (2025) With the LAWA Staff-Recommended Alternative.

◆ **MM-ST (SPAS)-38. Modify the Intersection of La Tijera Boulevard and Centinela Avenue (Intersection 27).**

The mitigation measure for this location is to provide a fair share contribution to the improvement of this intersection as part of a grade separation project that would also affect the adjacent section of La Cienega Boulevard, subject to FAA approval and should the grade separation project be found to be feasible and implementation pursued by the affected local agencies. In addition, if permitted by the FAA, LAWA will make a monetary contribution to

- upgrading the County's ITS system at this intersection to partially mitigate the alternative's contribution to the cumulative impacts. Because the County does not have a method to quantify the benefits of this improvement, no quantitative V/C reduction has been taken for this location. Because the grade separation project is in the early design and conceptual planning stages, however, it is not fully defined nor adopted at this time and the impact at this location would remain significant and unavoidable.
- ◆ **MM-ST (SPAS)-40. Fair Share Contribution to a Traffic Signal at the Intersection of Overland Avenue and Sawtelle Boulevard (Intersection 154).**

The mitigation measure for this location is to provide a fair share contribution to the installation of a traffic signal, subject to FAA approval and should it be implemented by the City of Culver City. Because it is uncertain that it will be implemented, however, the impact at this location would remain significant and unavoidable.
  - ◆ **MM-ST (SPAS)-41. Fair Share Contribution to a Traffic Signal at the Intersection of Walgrove Avenue and Washington Boulevard (Intersection 156).**

The mitigation measure for this location is to provide a fair share contribution to the installation of a traffic signal, subject to FAA approval and should it be implemented by the City of Culver City. Because it is uncertain that it will be implemented, however, the impact at this location would remain significant and unavoidable.
  - ◆ **MM-ST (SPAS)-42. Contribute to ITS (Intelligent Transportation Systems) Improvements at 11 Study Intersections within the Jurisdiction of Los Angeles County (Intersections 27, 36, 52, 63, 76, 86, 87, 93, 95, 119, and 173).**

Los Angeles County Department of Public Works staff determined that improvements to the County's intelligent transportation systems (ITS) equipment would improve traffic operations where no feasible physical mitigation measures have been identified. As partial mitigation for the identified cumulative impacts, LAWA will make a monetary contribution to upgrading the County's ITS system at these intersections, if permitted by the FAA. Because the contribution to Los Angeles County is conditional pending approval by FAA and because the County does not have a method to quantify the benefits of this improvement, no quantitative V/C reduction has been taken for this location and these impacts would remain significant and unavoidable.

As described, several types of improvements to the off-airport transportation system are recommended to mitigate the impacts associated with the LAWA Staff-Recommended Alternative. Such improvements include the addition of, or improvements to, travel and turn lanes, and traffic signal phasing modifications, fair share contribution to improve the computer-controlled traffic signal control systems in the City of Inglewood, and provision of additional vanpool services to LAWA, airport and cargo employees to and from the airport.

The potential environmental impacts associated with the proposed improvements to the off-airport transportation system would depend on the specific nature, location, and extent of such improvements. For example, the addition or improvement of travel and/or turn lanes that is accomplished by restriping of lanes within existing roadway segments would, in general, have a low potential for significant environmental effects other than improvement in traffic flows. The addition of lanes accomplished by the removal or modification of existing raised medians would have some level of environmental impacts such as construction-related noise, air quality impacts, temporary lane closures, and visual impacts if the removed median is currently landscaped. The addition of lanes accomplished with elimination of on-street parking could impact nearby off-street parking areas and/or remaining on-street parking areas to the extent that the affected parking redistributes to such areas. The addition of lanes accomplished by the physical widening of roadway segments could result in the types of potential environmental impacts described above relative to the removal or modification of raised medians, and could also result in the reduction of

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the widths of sidewalks or parkways, possibly impacting trees, utilities, or other existing improvements, if any, located within the needed rights-of-way.

**Findings:** Based on substantial evidence in the administrative record, including Section 2.3.12.2 of Part II of the SPAS Final EIR, the BOAC hereby finds that changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant off-airport traffic impacts related to intersections and CMP facilities that may result from the proposed project. Specifically, LAX SPAS Project-specific Mitigation Measures MM-ST (SPAS)-1 through MM-ST (SPAS)-5, MM-ST (SPAS)-8 through MM-ST (SPAS)-10, MM-ST (SPAS)-12 through MM-ST (SPAS)-15, MM-ST (SPAS)-17 through MM-ST (SPAS)-21, MM-ST (SPAS)-23, MM-ST (SPAS)-25 through MM-ST (SPAS)-28, MM-ST (SPAS)-31 through MM-ST (SPAS)-32, MM-ST (SPAS)-34 through MM-ST (SPAS)-38, and MM-ST (SPAS)-40 through MM-ST (SPAS)-42 will be incorporated into the Project's design.

There would be significant impacts to some CMP arterial monitoring intersections and freeway monitoring stations under the LAWA Staff-Recommended Alternative. Physical mitigation is available for Intersection 26 (La Cienega Boulevard and Centinela Avenue) as described above in MM-ST (SPAS)-10. No additional measures are feasible and available to address the impacts to other impacted arterial and freeway facilities.

Despite incorporation of these measures, the BOAC hereby finds this impact will remain significant and unavoidable and that specific economic, legal, social, technological, or other considerations make additional mitigation measures or project alternatives infeasible. Specifically, the intersections with significant and unavoidable impacts include Intersections 6, 7, 9, 14, 27, 34, 36, 46, 51, 58, 62, 63, 64, 66, 76, 77, 86, 87, 88, 90, 93, 95, 102, 109, 110, 115, 119, 125, 139, 147, 149, 154, 156, 159, 162, 164, 165, 169, 172, 173, 188, and 197.

Additionally, BOAC hereby finds that several of the intersections identified above where feasible mitigation measures are recommended are located outside the jurisdiction of the City of Los Angeles, and such improvements are within the responsibility and jurisdiction of another public agency other than the City of Los Angeles. Section 15091(a)(2) of the State CEQA Guidelines indicates that where this condition occurs relative to recommended mitigation measures:

"Such changes or alterations are within the responsibility and jurisdiction of another public agency and not the agency making the finding. Such changes have been adopted by such other agency or can and should be adopted by such other agency."

Relative to the recommended mitigation program presented above, the following list delineates those intersections, and corresponding SPAS Mitigation Measure numbers, that are wholly or partially outside the jurisdiction of the City of Los Angeles and within the responsibility and jurisdiction of another public agency:

<b>Int #</b>	<b>Intersection</b>	<b>Jurisdiction</b>	<b>Mit. Meas. #</b>
11	Inglewood Avenue & Arbor Vitae Street	Inglewood	MM-ST (SPAS)-4
12	La Brea Avenue & Arbor Vitae Street	Inglewood	MM-ST (SPAS)-5
17	Aviation Boulevard/Florence Avenue & Manchester Avenue	Caltrans/Inglewood	MM-ST (SPAS)-8
25	La Brea Avenue & Centinela Avenue	Inglewood	MM-ST (SPAS)-9
26	La Cienega Boulevard & Centinela Avenue	Inglewood/City of LA	MM-ST (SPAS)-10
34	La Brea Avenue/Hawthorne Boulevard & Century Boulevard	Inglewood	MM-ST (SPAS)-12
35	Inglewood Avenue & Century Boulevard	Inglewood	MM-ST (SPAS)-13
37	Prairie Avenue & Century Boulevard	Inglewood	MM-ST (SPAS)-14

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<b>Int #</b>	<b>Intersection</b>	<b>Jurisdiction</b>	<b>Mit. Meas. #</b>
38	Sepulveda Boulevard & Century Boulevard	Caltrans/City of LA	MM-ST (SPAS)-15
57	La Brea Avenue & Florence Avenue	Inglewood	MM-ST (SPAS)-17
58	La Cienega Boulevard & Florence Avenue	Inglewood	MM-ST (SPAS)-18
60	Sepulveda Boulevard & Grand Avenue	Caltrans/El Segundo	MM-ST (SPAS)-19
62	Hawthorne Boulevard & Imperial Avenue	Hawthorne	MM-ST (SPAS)-20
66	Inglewood Avenue & Imperial Highway	Hawthorne	MM-ST (SPAS)-21
71	Sepulveda Boulevard & Imperial Highway	Caltrans/El Segundo/City of LA	MM-ST (SPAS)-23
85	La Brea Avenue & Manchester Boulevard	Caltrans/Inglewood	MM-ST (SPAS)-25
87	La Brea Avenue & Slauson Avenue	La Brea Avenue & Slauson Avenue	MM-ST (SPAS)-26
90	La Cienega Boulevard & Manchester Boulevard	Caltrans/Inglewood	MM-ST (SPAS)-27
96	La Cienega Boulevard & I-405 Southbound Ramps (n/o Century Boulevard)	Caltrans/Inglewood/City of LA	MM-ST (SPAS)-28
115	Ash Avenue & Manchester Avenue	Caltrans/Inglewood	MM-ST (SPAS)-31
159	Hindry Avenue & Manchester Boulevard	Caltrans/Inglewood	MM-ST (SPAS)-34
169	Prairie Avenue & Manchester Boulevard	Inglewood	MM-ST (SPAS)-35
197	Prairie Avenue & Lennox Boulevard	Inglewood	MM-ST (SPAS)-36
10	Aviation Boulevard & Arbor Vitae Street	Inglewood/City of LA	MM-ST (SPAS)-37
27	La Tijera Boulevard & Centinela Avenue	City of LA/LA County	MM-ST (SPAS)-38
154	Overland Avenue & Sawtelle Boulevard	Culver City	MM-ST (SPAS)-40
156	Walgrove Avenue & Washington Boulevard	Culver City	MM-ST (SPAS)-41
36	La Cienega Boulevard & Century Boulevard	Inglewood/City of LA/LA County	MM-ST (SPAS)-42
52	Inglewood Avenue & El Segundo Boulevard	Hawthorne/LA County	MM-ST (SPAS)-42
63	Hawthorne Boulevard & Lennox Boulevard	LA County	MM-ST (SPAS)-42
76	Inglewood Avenue & Lennox Boulevard	LA County	MM-ST (SPAS)-42
86	La Brea Avenue/Overhill Drive & Stocker Street	LA County	MM-ST (SPAS)-42
93	La Cienega Boulevard & Stocker Street	LA County	MM-ST (SPAS)-42
95	La Cienega Boulevard & West 120th Street	LA County	MM-ST (SPAS)-42
119	Ocean Avenue/Via Marina & Washington Boulevard	LA County	MM-ST (SPAS)-42
173	Western Avenue & Imperial Highway	LA County	MM-ST (SPAS)-42

If the intersection improvements and related mitigation measures described above are implemented as recommended, the impacts would be mitigated as described above. Should the improvements that occur outside the City of Los Angeles are not implemented by the other agencies having responsibility and jurisdiction for those intersections, the residual impact will remain significant and unavoidable.

Rationale: The feasibility and effectiveness of the measures proposed to address significant impacts and the residual impacts are described in the findings above.

### **11) Off-Airport Transportation: Construction**

Impact: With regard to construction-related traffic impacts, a significant off-airport transportation impact would occur during construction if the direct and indirect changes in the environment by an alternative would potentially cause sufficient construction-related traffic to result in disruption to normal traffic flows, including substantial addition of project-generated traffic, long-term lane closures, loss of vehicular or pedestrian access to adjacent land uses, or long-term loss of bus stops or re-routing of bus lines.

Description of Effects: As discussed in Section 4.12.2.6.3 of the SPAS Draft EIR and Section 2.3.12.2.1.3 of Part II of the SPAS Final EIR, no construction plans, programs, or schedules have been formulated for any of the SPAS alternatives, including the LAWA Staff-Recommended Alternative. As such, it would be speculative to estimate construction-related vehicle trip generation and distribution onto the local roadway network in order to evaluate traffic impacts on specific streets and intersections during peak and non-peak traffic periods. The following provides a qualitative summary of the key factors that would influence construction traffic generation under the LAWA Staff-Recommended Alternative, how such traffic generation would relate, in general, to the roadway system around LAX, and which existing provisions of the LAX Master Plan would serve to reduce or avoid construction traffic impacts. Applicable LAX Master Plan commitments and mitigation measures cited below are discussed fully in Section 4.12.2.5 of the SPAS Draft EIR.

For the LAWA Staff-Recommended Alternative, construction activities at LAX would extend over the course of several years. As individual projects are underway, traffic impacts would likely be experienced in the immediate area around the active development site(s). Three key considerations that would influence potential traffic impacts of these construction activities are:

- ◆ Deliveries of various construction materials
- ◆ Provision of labor to the construction sites
- ◆ Maintenance of traffic in the immediate construction zones

Section 2.3.1.12 of the SPAS Draft EIR identifies seven potential construction staging areas that could be utilized in some combination during development of the LAWA Staff-Recommended Alternative. Four of the potential construction staging areas are located within the LAX Northside planning area, which is planned for future development independent from SPAS. Depending on the nature and timing of such future development, use of those construction staging areas for SPAS-related construction staging may be limited.

Regional access for construction-related vehicles would occur via the I-405 and I-105 freeways. Pursuant to LAX Master Plan Commitment ST-22, Designated Truck Routes, designated truck routes for construction would include Pershing Drive (Westchester Parkway to Imperial Highway); Florence Avenue (Aviation Boulevard to I-405); Manchester Boulevard (Aviation Boulevard to I-405); Aviation Boulevard (Manchester Avenue to Imperial Highway); Westchester Parkway/Arbor Vitae Street (Pershing Drive to I-405); Century Boulevard (Sepulveda Boulevard to I-405); Imperial Highway (Pershing Drive to I-405); La Cienega Boulevard (north of Imperial Highway); Airport Boulevard (Arbor Vitae Street to Century Boulevard); Sepulveda Boulevard (Westchester Parkway to Imperial Highway); I-405; and I-105. LAX Master Plan Commitment ST-17, Maintenance of Haul Routes, provides for the maintenance of haul routes.

It is anticipated that implementation of the LAWA Staff-Recommended Alternative would, from time to time, require substantial deliveries of equipment, materials, and personnel to the construction site and the hauling and return of equipment, materials (i.e., excavated soils), and personnel from the site. Potential traffic impacts associated with such deliveries, haul trips, and construction worker trips would be reduced through the use of designated truck/haul routes, as described above, and by LAX Master Plan Commitment ST-12, Designated Truck Delivery Hours, which requires such activities be scheduled to avoid peak traffic hours (i.e., avoid 7:00 a.m. to 9:00 a.m. and 4:30 p.m. to 6:30 p.m.). Additionally, LAX Master Plan Commitment ST-18, Construction Traffic Management Plan, and LAX Master Plan Mitigation Measure MM-ST-14, Ground Transportation/Construction Coordination Office Outreach Program, require each construction project to have a construction traffic management plan and coordinate with the LAX Ground Transportation/Construction Coordination Office for specific means to manage and reduce both worker-related traffic impacts and delivery/haul-related traffic impacts.

The LAWA Staff-Recommended Alternative includes major construction projects that would be substantial generators of construction traffic, including substantial numbers of truck trips for materials delivery, removal of spoil materials, and other construction functions, as well as employee trips. A large construction work force would be required, which would also generate traffic. Potential traffic impacts associated with worker trips would be reduced through several LAX Master Plan commitments and an LAX Master Plan mitigation measure. LAX Master Plan Commitment ST-14, Construction Employee Shift Hours, requires that construction worker shift hours do not coincide with the heaviest commuter traffic periods (7:00 a.m. to 9:00 a.m., 4:30 p.m. to 6:30 p.m.). LAX Master Plan Commitment ST-21, Construction Employee Parking Locations, provides that during construction of improvements at or near the eastern portion of the airport, employee parking locations be selected as close to I-405 and I-105 as possible and be accessible by employee vehicles with minimal disruption to adjacent streets. Similarly, LAX Master Plan Commitment ST-20, Stockpile Locations, provides for siting stockpile locations as close to the I-405 and I-105 as possible.<sup>17</sup> LAX Master Plan Commitment ST-18, Construction Traffic Management Plan, and LAX Master Plan Mitigation Measure MM-ST-14, Ground Transportation/Construction Coordination Office Outreach Program, described in Section 4.12.2.5 of the SPAS Draft EIR, provide additional mechanisms to manage and reduce worker-related traffic impacts.

In addition to potential disruption of local traffic conditions due to the addition of construction-related vehicle trips, there is the potential for additional disruption in the event a project-related improvement requires temporary closure of at least one lane adjacent to its site. Closures of key roadways and intersections could cause delays, except if done for short durations during periods of very low vehicular volumes. In addition to potential traffic disruption impacts, such closures could affect pedestrian access and/or bicycle lanes due to the need to temporarily close sidewalks, and transit service may be affected due to the need to temporarily relocate bus stops. The potential for, and impacts associated with, such lane closures are addressed by LAX Master Plan Commitment ST-9, Construction Deliveries, requiring that construction deliveries involving lane closures must receive prior approval from the LAX Ground Transportation/Construction Coordination Office and notification of deliveries shall be made with sufficient time to allow for any modifications to approved traffic detour plans. Additionally, LAX Master Plan Commitment ST-19, Closure Restrictions of Existing Roadways, requires that, other than short time periods during

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<sup>17</sup> The intended construction traffic mitigation benefits of LAX Master Plan Commitments ST-20 and ST-21 would be best achieved relative to Alternative 3 based on the size, nature, and location of improvements proposed at the east end of the airport under that alternative; however, those benefits would not be realized relative to the other alternatives given the comparatively smaller and fewer improvements at the east end of the airport under those alternatives. The need for, and potential traffic implications of, placing construction employee parking and construction stockpile areas at the east end of the airport would be further assessed in conjunction with the preparation of the construction traffic management plan required under LAX Master Plan Commitment ST-18 as required for all alternatives, including the LAWA Staff-Recommended Alternative.

nighttime construction, existing roadways remain open until they are no longer needed for regular traffic or construction traffic, unless a temporary detour route is available to serve the same function. The related requirements associated with LAX Master Plan Commitment ST-18, Construction Traffic Management Plan, and LAX Master Plan Mitigation Measure MM-ST-14, Ground Transportation/Construction Coordination Office Outreach Program, described above, would also help reduce potential impacts associated with construction-related lane closures.

In summary, implementation of the LAWA Staff-Recommended Alternative would result in temporary construction-related traffic impacts. Although there are a number of Master Plan commitments and a mitigation measure specifically designed to reduce such impacts, it cannot be concluded at this time that all construction-related traffic impacts would be reduced to a level that is less than significant. As such, in addition to the intersection impacts described above, construction-related traffic could, at times, result in temporary significant and unavoidable impacts on the streets surrounding LAX.

Findings: Based on substantial evidence in the administrative record, including Section 4.12.2.6.3 of the SPAS Draft EIR and Section 2.3.12.2.1.3 of Part II of the SPAS Final EIR, the BOAC hereby finds that changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant off-airport construction traffic impact associated with the Project. Specifically, implementation of LAX Master Plan Commitments ST-9, ST-12, ST-14, ST-17, ST-18, ST-19, ST-20, ST-21,<sup>18</sup> and ST-22 and LAX Master Plan Mitigation Measure MM-ST-14 would reduce construction-related off-airport transportation impacts associated with the LAWA Staff-Recommended Alternative. No additional measures are available to address construction-related off-airport transportation impacts at this stage of planning.

Despite incorporation of these measures, the BOAC hereby finds this impact will remain significant and unavoidable and that specific economic, legal, social, technological, or other considerations make additional mitigation measures or project alternatives infeasible.

Rationale: The feasibility and effectiveness of the measures proposed to address significant impacts and the residual impacts are described in the findings above.

#### **D. Findings on Impacts Related to Plan Amendments**

Chapter 6, Evaluation of Amendments to the LAX Specific Plan, of the SPAS Draft EIR describes the LAX Specific Plan amendments proposed in conjunction with completion of the SPAS process, and provides an evaluation of potential environmental impacts associated with those amendments. The analysis found that, with the exception of the proposed revision of Section 7.H of the LAX Specific Plan, the proposed LAX Specific Plan Amendments would not result in environmental impacts materially different from those addressed in detail in Chapters 4 and 5 of the SPAS Draft EIR. The proposed amendments to Section 7.H of the LAX Specific Plan include measures that could cause a shift in aircraft and passenger activity from LAX to other airports in the region. The results of the analysis found that to the extent that there is a shift in activity from LAX to other airports, there would be a potential decrease in environmental impacts at LAX and an accompanying increase in environmental impacts at the other airport(s) that receives the activity. The nature and extent of such decreases and increases in impacts would depend on the type and amount of activity that is shifted from LAX and which airport(s) exactly would receive the

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<sup>18</sup> As discussed in Section 4.12.2.6.3, the construction traffic mitigation benefits of LAX Master Plan Commitments ST-20 and ST-21, which involve locating construction worker parking and construction stockpiles at the east end of the airport, would best be realized under Alternative 3, given the size, location, and nature of improvements proposed in that area; however, the mitigation benefits and traffic implications of those measures relative to other alternatives, including the LAWA Staff-Recommended Alternative, would need to be further assessed in conjunction with development of construction traffic control plans required under ST-18.

activity. Since none of that information is currently known, it would be speculative to quantify or specifically delineate the environmental impacts associated with that shift in activity.

In conjunction with the analysis of LAX Specific Plan Amendments described above, Section 3.2 of Part II of the SPAS Final EIR addresses the potential for environmental impacts to occur from potential amendments of the LAX Plan. Should the potential LAX Specific Plan amendments associated with the LAWA Staff-Recommended Alternative be adopted by the City of Los Angeles, various administrative amendments would also be required to the LAX Plan, the City's General Plan element for LAX. The analysis of potential LAX Plan amendments found that such amendments were either administrative in nature and would not result in environmental impacts, or represent changes in the LAX Plan that would conform the LAX Plan to the specific characteristics of the selected SPAS alternative (i.e., the LAWA Staff-Recommended Alternative), with those specific characteristics being reflected in the project description of the SPAS Draft EIR, from which potential environmental impacts were addressed in the SPAS Draft and Final EIRs. As such, the specific findings for potential environmental impacts directly or indirectly associated with amendments to the LAX Specific Plan and LAX Plan are already accounted for elsewhere in this CEQA Findings document.

## **E. Findings on Other CEQA Considerations**

### **1) Significant Irreversible Environmental Changes**

Section 7.2 of the SPAS Draft EIR identifies the significant irreversible environmental changes associated with the SPAS alternatives. With regard to the LAWA Staff-Recommended Alternative, which is a combination of Alternatives 1 and 9, such impacts will include commitment of various natural, physical, human, and fiscal resources. Most of the land proposed to be used for the SPAS improvements is already dedicated to airport uses. For the LAWA Staff-Recommended Alternative, land outside the existing airport boundaries would be acquired, specifically for proposed ground transportation system improvements such as the ITF and the APM system. These acquisition areas are currently in other urban areas with developed uses, such as commercial and industrial uses, and would be converted to primarily airport-related (transportation) use.

Implementation of the LAWA Staff-Recommended Alternative would involve the consumption of building materials during construction, such as aggregate (sand and gravel), metals (e.g., steel, copper, lead) and petrochemical construction materials (e.g., plastics). This would represent the loss of non-renewable resources, which are generally not retrievable. Aggregate resources are locally constrained, but regionally available. Their use would not have a project specific adverse effect upon the availability of these resources.

Construction and operation of the LAWA Staff-Recommended Alternative would require energy resources such as electricity, natural gas, and various transportation-related fuels. This would represent the loss of non-renewable resources, which are generally not retrievable. As discussed in Section 4.13.1, Energy, these energy resources are not in short supply and their use would not have a project-specific adverse effect upon the availability of these resources. To reduce energy consumption, implementation of the LAWA Staff-Recommended Alternative would comply with the City of Los Angeles Green Building Ordinance, which includes various requirements pertaining to energy conservation. In addition, the LAWA Staff-Recommended Alternative would result in irreversible impacts to air quality from emissions of criteria pollutants, toxic air contaminants, and greenhouse gases (GHG). However, project design features and mitigation measures would be incorporated to reduce air quality and GHG impacts.

Project consumption of water during construction and operation of the LAWA Staff-Recommended Alternative is addressed in Section 2.3.13.4 of Part II of the SPAS Final EIR. LAWA would continue to implement and enhance water conservation measures at LAX in fulfillment of LAX Master Plan Commitments W-1, Maximize Use of Reclaimed Water, and W-2, Enhance Existing Water Conservation Program, which would serve to reduce water use under

the LAWA Staff-Recommended Alternative. Although the LAWA Staff-Recommended Alternative would not result in significant impacts related to water consumption, it would result in an irretrievable consumption of water, which is a limited resource.

Implementation of the LAWA Staff-Recommended Alternative would result in the conversion of open areas to developed uses. Under the LAWA Staff-Recommended Alternative, much of this open area is on the airfield and is ruderal or disturbed and, therefore, has few flora and fauna species. In addition, impacts due to the loss of small amounts of habitat in the Los Angeles/EI Segundo Dunes for the installation of new navigational aids under the LAWA Staff-Recommended Alternative would be less than significant after implementation of proposed mitigation. However, impacts from the loss of open areas would be irreversible.

## **2) Growth Inducing Impacts**

Section 7.3 of the SPAS Draft EIR addresses the potential growth inducing impacts of the project. As indicated therein, none of the SPAS alternatives, which would include the LAWA Staff-Recommended Alternative as a combination of Alternatives 1 and 9, include residential or business development or would directly induce population growth. Additionally, the projected future increase in passenger activity levels at LAX in 2025, the planning horizon year for the SPAS analysis, is the same for all alternatives, including the LAWA Staff-Recommended Alternative - 78.9 million annual passengers (MAP), which would occur at that same level even if none of the SPAS alternatives were to be implemented. This projected increase in future passenger activity levels at LAX is consistent with regional growth forecasts, including the adopted 2012 Southern California Association of Governments (SCAG) Regional Transportation Plan (RTP).

Implementation of the LAWA Staff-Recommended Alternative may directly or indirectly foster economic growth. As the international gateway to the western United States, LAX has long been a major supporter of the Southern California economy through employment and generation of taxes and other revenue, and by facilitating the efficient movement of people, goods, and services. This is particularly true relative to the role that international travel, as facilitated through LAX, plays in the regional economy. To the extent that the airfield improvements, as well as terminal and ground access improvements, proposed in the LAWA Staff-Recommended Alternative enable LAX to better accommodate and encourage increased international travel through the airport, implementation of this alternative would indirectly foster economic growth in the region.

Construction activity associated with development of improvements proposed under the LAWA Staff-Recommended Alternative would directly and indirectly foster economic growth over the multi-year construction period in terms of spending by workers and the provision of goods and services in support of construction.

Economic growth resulting from the project would result in environmental impacts related to increased vehicle travel, increased demands for public services and utilities, and impacts associated with the manufacturing/production of materials. Given the highly urbanized setting of the area around LAX, as well as throughout much of Southern California, and the diverse nature of the improvements to be constructed under the various alternatives, it is not expected that the environmental impacts associated with such economic growth would occur in any one area or be of a specific nature that could be meaningfully addressed within this document, and any further analysis would be speculative.

## **F. Findings on Project Alternatives**

### **1) Alternatives Considered but Rejected From Further Consideration**

In addition to the nine alternative that were evaluated in the SPAS Draft EIR, LAWA considered six additional alternatives, all of which were eliminated from detailed analysis in the Draft EIR either because they did not meet the basic project objectives, would fail to reduce or avoid the

significant impacts, and/or were determined at the outset to be infeasible. These alternatives are discussed below.

Description: *Alternative Location*

Findings: The BOAC hereby finds that specific economic, legal, social, technological, or other considerations make the adoption of this alternative infeasible and rejects this alternative because it would not meet the objectives of the project and would not respond to the basic purpose of the LAX Specific Plan Amendment Study.

Rationale: Implementation of any of the SPAS alternatives would not be feasible at any location other than LAX. Pursuant to the Stipulated Settlement, the SPAS will plan for the modernization and improvement of LAX. Implementing the SPAS alternatives at any other location would not accomplish this fundamental goal. The existing facilities at LAX cannot accommodate the existing demand and forecasted increase in the numbers of aircraft, cargo, and passengers without significant delays and a very poor level of service. As the existing facilities are used beyond their design capacity, the level of service provided to the user degrades. This lowering of the level of service may be demonstrated by increased congestion within the passenger terminals, the various surface roads on and around the airport, and on the airfield itself. The consequences of taking no action to solve this problem will result in a loss of air service and declining economic benefits (jobs) for the Los Angeles region. Air service and economic benefits would likely relocate to other regions both within the state of California and to other states. Therefore, any comprehensive solution to meeting the regional demand for transportation must include improvements at LAX. Under the Alternative Location scenario, the failure to address existing and anticipated problems at LAX, as summarized above, would be contrary to meeting most of the project objectives described in Section 2.2 of the SPAS Draft EIR, as reiterated above in Section II of these CEQA Findings. In particular, the Alternative Location scenario: would not provide north airfield improvements that support the safe and efficient movement of aircraft at LAX; would not improve the ground access system at LAX to better accommodate airport-related traffic, especially as related to the Central Terminal Area; would not maintain LAX's position as the premier international gateway in supporting and advancing the economic growth and vitality of the Los Angeles region; would not provide plan improvements at LAX that do not result in more than 153 passenger gates at 78.9 MAP; would not enhance safety and security at LAX; would not necessarily minimize environmental impacts on surrounding communities (i.e., as discussed in Chapter 4 of Part II of the SPAS Final EIR, the failure to make improvements to the north airfield, as in the case of Alternative 4, would result in a greater total number of homes and people being newly exposed to 65 CNEL aircraft noise levels than would otherwise occur with improvements to the north airfield); and would not produce an improvement program at LAX that is efficient, sustainable, feasible, and fiscally responsible.

Description: *Alternative Designs*

Findings: The BOAC hereby finds that specific economic, legal, social, technological, or other considerations make the adoption of this alternative infeasible and rejects the design options under this alternative because their basic design characteristics are similar to, and/or fall within the range of, the alternatives carried forth for detailed analysis in the SPAS Draft EIR. Additionally, this alternative would not avoid or substantially reduce any of the significant effects of the project.

Rationale: Several alternative concepts were formulated and considered during development of the nine SPAS alternatives addressed in the EIR. Chapter 5 of the SPAS Report describes the basis, nature, and characteristics of those early concepts. The SPAS Report is available for review at LAWA's Capital Programming and Planning Division, One World Way (LAX), Los Angeles or online at [www.laxspas.org](http://www.laxspas.org). Three of the airfield improvement concepts initially considered for inclusion in the Draft EIR were subsequently refined or consolidated. Specifically, an airfield improvement concept proposing to relocate Runway 6L/24R 400 feet north, which would meet all FAA standards for ADG VI aircraft, was subsequently refined to meet the basic

requirements with only a 350-foot northward move. That refined alternative is Alternative 5 in the SPAS Draft EIR, which would not avoid or substantially reduce any of the significant impacts associated with the proposed project (i.e., the LAWA Staff-Recommended Alternative). Two other airfield improvement concepts, one proposing to move Runway 6L/24R 200 feet north and the other to move the subject runway 300 feet to the north were consolidated into the 260-foot north move that is reflected in Alternative 1 in the SPAS Draft EIR, which represents the airfield and terminal improvement elements of the LAWA Staff-Recommended Alternative.

Description: *Three-Runway Airfield*

Findings: The BOAC hereby finds that specific economic, legal, social, technological, or other considerations make the adoption of this alternative infeasible and rejects this alternative from further consideration because it would not avoid or substantially reduce the significant effects of the project and would likely result in comparatively greater adverse impacts related to airfield operations and associated air quality impacts and a shift in, not avoidance/reduction of, aircraft noise impacts.

Rationale: This concept involves removing one of the two runways within the north airfield and operating LAX with a three-runway system (i.e., one runway in the north airfield along with the two existing runways in the south airfield). This concept would provide sufficient runway and/or taxiway/taxilane separation distances for ADG V and VI aircraft on the north airfield and would eliminate the existing safety hazards associated with crossing an active runway within that airfield. However, the removal of a runway in the north airfield would have adverse impacts on and around the south airfield because of the associated shift in daily aircraft activity from the north airfield to the south airfield. This shift in activity would create unbalanced and inefficient operations for arriving and departing aircraft both in the air and on the ground. Under a three-runway system, a number of aircraft gated on the north side of the CTA, that would otherwise taxi to and from the north airfield, would instead have to taxi to and from the south airfield. While this type of three-runway configuration could reduce aircraft noise exposure levels in developed areas north of the airport, it would essentially just shift aircraft noise exposure impacts to the highly populated areas south and southeast of the airport. Similarly, this geographic shift in aircraft activity would be accompanied by a southward shift in emissions of airfield-related air pollutants; moreover, there would be a net increase in overall airfield emissions because of the increased taxiing times, distances, and congestion associated with more aircraft operations being concentrated in the south airfield. To the extent that such congestion and delays associated with aircraft movements on the ground hamper the ability of air traffic control to clear runways for arriving flights, any resultant need to have inbound aircraft divert from the approach path and go into a hold pattern would increase regional air pollutant emissions, including emissions of greenhouse gases. The imbalance in aircraft operations between the north airfield and the south airfield would adversely affect the overall operational performance of the entire LAX airfield system. In light of the above, a three-runway airfield is not considered a viable concept (i.e., a SPAS alternative) and was therefore eliminated from further evaluation.

Description: *Next Generation Technology*

Findings: The BOAC hereby finds that specific economic, legal, social, technological, or other considerations make the adoption of this alternative infeasible and rejects this alternative because it is still in the development stage and, once fully developed and implemented on a large scale, would only pertain to limited aspects of LAX airfield operations.

Rationale: The Next Generation Air Transportation System, or NextGen, is currently being developed to provide a transformative change in the management and operation of how aircraft operate. The primary components of NextGen are related to technologically-advanced electronic navigational and communication systems associated with air traffic control, on-board aircraft systems, and airline operations. NextGen is designed to integrate all modes of aircraft operations including gate push-back, taxi operations, takeoffs, enroute flight, landings, and gate arrival. Once fully developed and implemented on a large scale, airports and aircraft in the National

Airspace System (NAS) will be connected to NextGen's advanced infrastructure and will continually share real-time information to provide a better travel experience.

The application of NextGen to the SPAS effort was considered by LAWA to determine if any component of NextGen could provide for a viable concept. Although NextGen systems could provide for better ground situational awareness for air traffic controllers and pilots, and it could make airfield operations more efficient, it would not increase safety-related physical separation distances on the ground to meet ADG V and VI runway and/or taxiway/taxilane separation standards and obstacle free zone requirements. Based on this evaluation, LAWA determined that no component of NextGen technology can provide a viable concept (i.e., a SPAS alternative) and, therefore, NextGen was eliminated from further consideration.

Description: *Offset Runways and Simultaneous Offset Instrument Approaches*

Findings: The BOAC hereby finds that specific economic, legal, social, technological, or other considerations make the adoption of this alternative infeasible and rejects this alternative because it would not avoid or substantially reduce any of the significant effects of the project.

Rationale: A Simultaneous Offset Instrument Approach (SOIA) is a procedure typically used to enhance airfield operational capacity by allowing simultaneous instrument approaches to closely-spaced parallel runways or to closely-spaced runways that are not parallel. This concept was considered by LAWA during the formulation of SPAS airfield improvement options for increasing the separation between the runways in the north airfield in order to meet FAA separation standards for runway and/or taxiway operations, specifically as related to ADG V and VI aircraft. Offsetting one of the runways in the north airfield could provide the required separation distance between the runways that would allow construction of a centerfield taxiway; however, any new approach to the offset runway would have adverse impacts to off-airport areas, by shifting aircraft noise impacts to newly exposed areas. Also, the use of SOIA operations inherently reduces overall airfield operational performance. Based on the above, LAWA determined that offset runways and associated SOIAs do not provide a viable concept (i.e., a SPAS alternative) and, therefore, they were eliminated from further consideration.

Description: *Dual Runway Relocations*

Findings: The BOAC hereby finds that specific economic, legal, social, technological, or other considerations make the adoption of this alternative infeasible and rejects this alternative because it would not avoid or substantially reduce any of the significant effects of the project and would likely increase impacts, particularly as related to air quality.

Rationale: Under this concept, increased separation between runways, as necessary to allow the development of a center parallel taxiway and achieve FAA runway and taxiway separation design standards for ADG V and VI aircraft, would be accomplished by moving both runways. Specifically, Runway 6L/24R would be relocated northward from its current location by, for example, 175 feet and Runway 6R/24L would be relocated southward from its current location by 175 feet, and a center taxiway would be included, to achieve a total of 350 feet of increased separation within the intervening area. There could be any number of variations to this, such as moving Runway 6L/24R northward by a lesser amount (e.g., 100 feet), and Runway 6R/24L a greater amount (e.g., 250 feet), or vice versa, in order to achieve a total of 350 feet of increased separation, but the basic idea of this concept is to split the difference in achieving an increased runway separation distance by moving both runways. Under this concept, any southward relocation of Runway 6R/24L would necessitate a corresponding southward relocation of existing Taxiway E and existing Taxilane D in order to meet the required runway and taxiway/taxilane separation distance requirements. This concept would provide a means of achieving the same design standards as other alternatives, but in a different manner. For example, Alternative 5 would provide a runway configuration that meets ADG VI design standards under both good and poor weather conditions by moving Runway 6L/24R northward by 350 feet and adding a center parallel taxiway.

Development of this alternative is considered infeasible and impractical and likely to result in environmental impacts comparable to or greater than those of the other alternatives addressed in detail within this Draft EIR. Under this concept, the southward relocations of the runway and associated taxiway and taxilane would result in the loss of aircraft gates on the ends of concourses for Terminals 1, 2, and 3, the extent of which would depend on the distance of the southward relocations. To the extent that there is a substantial loss of gates on the north side of the CTA and more gate usage would have to occur on the south side of the CTA, there would be an imbalance in aircraft taxiing and operations between the north and south airfields. Given the extent of airfield construction activities required to relocate both runways, add a center parallel taxiway, relocate Taxiway E and Taxilane D, and modify the north ends of the concourse for Terminals 1, 2, and 3, the construction duration, costs, and construction-related impacts associated with this concept, particularly as related to air quality, would be substantial, and would be comparatively greater than the other alternatives addressed in detail within this Draft EIR that yield the same airfield safety and operational benefits. In other words, the alternatives analyzed in this Draft EIR that move just one runway, instead of both, would achieve the same safety and operational benefits as the dual runway relocation concept but would be less costly, could be completed in a shorter amount of time, and would require less construction equipment activity.

Similarly, completion of dual runway and taxiway improvements would necessitate either more incremental phasing of airfield construction activities (to keep at least one of the north airfield runways operational at all time), more nighttime construction activities (to take advantage of low airfield activity levels), or complete closure of one or both runways in the north airfield for an extended period (to expedite the overall airfield improvement program).

Further, runway construction activities required for dual runway relocations are more likely to be constrained by the FAA airfield construction safety requirement that construction activities be at least 250 feet away from an active runway. For example, FAA is more likely to allow one runway to remain operational during construction while the other runway is relocated 250 feet or more than it is if the runway were moved half that distance - 125 feet. To the extent that runway closures in the north airfield are required during construction of the airfield improvements associated with this dual runway relocation concept, the demands on the other remaining runways at LAX would increase, resulting in an imbalance in operations between the north and south airfields and/or increased potential for airfield congestion and delays that would have impacts both locally and at other airports within the national airspace system.

Additionally, this alternative is within the range of alternatives already analyzed in the EIR as it would provide a means of achieving the same design standards as other alternatives, but in a different manner.

Based on the above, LAWA determined that the dual runway relocations concept was not feasible as a SPAS alternative and, therefore, it was eliminated from further consideration.

## **2) Alternatives Carried Forward for Full Evaluation in the Draft EIR**

The SPAS Draft EIR analyzed nine alternatives offering various options to the Yellow Light Projects, including one alternative that provides for implementation of the Yellow Light Projects. As indicated above, the types of improvements proposed under each alternative can be grouped into airfield improvements, terminal improvements, and ground access improvements. Alternatives 1 through 4 are "fully-integrated" alternatives and Alternatives 5 through 9 focus on variations to the certain types of improvements. As also noted above, there is some amount of interchangeability between elements of the alternatives.

The discussion and findings below summarize and reference analysis in the EIR. The BOAC adopts and incorporates by reference the relevant discussion of each of the impacts discussed below in the detailed issue area analyses in Chapter 4 of the SPAS Draft EIR and Section 2.3 of Part II of the SPAS Final EIR and the cumulative impacts discussed in Chapter 5 of the SPAS Draft EIR and Section 2.4 of Part II of the SPAS Final EIR.

*Alternative 1:*

Alternative 1, described in detail in Section 2.3.1.1 of the SPAS Draft EIR, is a fully-integrated alternative, consisting of airfield, terminal, and ground access components. The distinguishing airfield improvement feature of this alternative is the movement of Runway 6L/24R 260 feet north, along with the addition of a centerfield taxiway, the extension of Runway 6R/24L, improvements to Taxiway D and Taxiway E, and relocation of the service road. Terminal Improvements include addition of new Terminal 0, loss or modifications to concourse areas and/or gates at Terminals 1, 2, and 3, and the modification and potential northward extension of concourse area and gates at TBIT and the future MSC. Ground access improvements include modification of Sky Way; development of an Intermodal Transportation Facility (ITF) at 98th Street west of Airport Boulevard; development of an elevated/dedicated busway along 98th Street, with a bridge over Sepulveda Boulevard and stops at Manchester Square (future surface parking), the future Metro LAX/Crenshaw Light Rail Transit Station at/near Century and Aviation Boulevards, the ITF, and the CTA; and the relocation of Lincoln Boulevard, a portion of which would be below grade and/or tunneled.

Findings: In light of the analysis in the SPAS Final EIR and substantial evidence in the administrative record, the BOAC hereby accepts the airfield and terminal improvements included under Alternative 1 as elements of the LAWA Staff-Recommended Alternative, but selects the ground transportation system improvements included under Alternative 9 (i.e., the LAWA Staff-Recommended Alternative) over the ground transportation system improvements included under Alternative 1 because the ground transportation system improvements included under Alternative 1 will not substantially reduce or avoid the significant effects of the project and do not provide the operational traffic benefits within the Central Terminal Area that would occur with the LAWA Staff-Recommended Alternative.

Rationale: The airfield improvements proposed under Alternative 1 address key planning objectives related to airfield safety and efficiency. Specifically, as related to safety, the combination of improvements provided would result in an airfield configuration that would permit 99.87 percent of all aircraft operations forecasted to serve LAX in 2025 to be conducted in standardized fashion, free of restrictions and workarounds that complicate efforts to provide a safe airfield and reduce operational efficiency. In most respects, these improvements can be associated with a reduction in aircraft-related operational emissions and noise when compared to scenarios in the future that do not include improvements to the north airfield (i.e., Alternative 4). As stated in Section 1.4 of the SPAS Draft EIR, all alternatives result in significant and unavoidable operational-related SO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions; however, implementation of the airfield improvements proposed under Alternative 1 would result in a 1.1 percent decrease in SO<sub>x</sub> when compared to the scenarios without airfield reconfiguration, and even greater reductions when compared to the implementation of configuration included in the LAX Master Plan (i.e., SPAS Alternative 3). Similar to air quality emissions, the SPAS Draft EIR identified significant and unavoidable impacts related to aviation noise (prior to the implementation of noise soundproofing) primarily related to the expected increase in the number of aircraft operations regardless of whether any airfield reconfiguration takes place. In accordance with federal regulation and state law, these impacts are quantified by projecting 65 CNEL noise contours on existing surrounding land uses and populations. These projected contours reflect a reduction of 233 in the number of newly impacted dwellings, and a reduction of 1,244 in the number of newly impacted people in comparison to a scenario in 2025 that does not include a reconfigured airfield.

Under the LAWA Staff-Recommended Alternative, the ground transportation system improvements of Alternative 1 would be replaced by those identified under Alternative 9. The main differences between the ground transportation systems identified under these alternatives are that Alternative 9 includes a consolidated rental car (CONRAC) facility and parking at Manchester Square, whereas Alternative 1 only includes parking, and Alternative 9 includes an automated people mover (APM) system instead of the elevated/dedicated busway system included under Alternative 1.

The nature and extent of environmental impacts associated with the two ground transportation systems are generally comparable, although there is a tradeoff or balancing of traffic impacts between on-airport and off-airport impacts. On-airport traffic impacts related to curbsides, intersections, and roadway links would be greater/worse under Alternative 1 than under Alternative 9, as can be seen throughout the tables in Section 4.12.1 of the SPAS Draft EIR, which summarize the impact analysis included in that Section. These include Tables 4.12.1-16 and 4.12.1-17 for curbside impacts, Tables 4.12.1-18 and 4.12.1-19 for roadway links, and Tables 4.12.1-20 and 4.12.1-21 for intersections. As shown in those tables, the vast majority of the almost 200 on-airport facilities (i.e., curbside segments, roadway links, and intersections) analyzed for each alternative would operate better, as defined by lower volume to capacity [v/c] ratios and higher level of service [LOS] values), under Alternative 9 than under Alternative 1. This is reiterated in the impact tables presented as Tables 4.12.1-28 through 4.12.1-30 and Tables 4.12.1-37 through 4.12.1-39. In terms of significant impacts to on-airport traffic conditions, Alternative 1 would have three (3) roadway links with significant, but mitigable, roadway link impacts while Alternative 9 would have only one such impact. Both alternatives would have a significant, but mitigable, impact at the same curbside area (TBIT inner curb). Both alternatives would have a significant unavoidable (unmitigable) impact at the intersection of World Way South and Center Way, which is the main exit for the airport; however, the increase (i.e., worsening) of the v/c ratio at this intersection would be less under Alternative 9 than under Alternative 1 (i.e., 0.13 versus 0.15 – see Tables 4.12.1-38 and 4.12.1-29, respectively). While the on-airport traffic impacts of Alternative 9 would be slightly less than those of Alternative 1, the off-airport traffic impacts of Alternative 1 would be slightly less than those of Alternative 9. Specifically, Alternative 1 would have significant impacts at 55 off-airport intersections while Alternative 9 would have significant impacts at 57 off-airport intersections, a difference of one percent of the 200 intersections evaluated for each alternative (see Table 4.12.2-19, as corrected in Chapter 5 of Part II of the SPAS Final EIR). With implementation of feasible mitigation measures, the number of significantly impacted off-airport intersections would be reduced to 38 for Alternative 1 and 42 for Alternative 9. Based on the above, it is concluded that implementation of the ground transportation system improvements under Alternative 1 would not avoid or substantially reduce the significant traffic impacts associated with the LAWA Staff-Recommended Alternative.

There is also a tradeoff or balancing of impacts in air quality impacts associated with the differences in the ground transportation system improvements between Alternative 1 and Alternative 9. As can be seen in in Table 4.2-10 of the SPAS Draft EIR, which compares the peak daily construction emissions for ground access construction under Alternatives 1 and 9, Alternative 9 would result in greater amounts of emissions due to the fact that comparatively more ground transportation system improvements constructed would be constructed under that alternative. However, the long-term air quality benefits associated with constructing those ground access improvements under Alternative 9, compared to not constructing them under Alternative 1, are evident in Table 4.2-13 of the SPAS Draft EIR, which presents the operational emissions associated with each alternative. As evidenced in that table, the long-term operational emissions associated with on-airport parking, on-airport roadways, and off-airport roadways would be comparatively better for all pollutant categories under Alternative 9 than under Alternative 1 and Alternative 1 would not avoid or substantially reduce the air quality impacts associated with the LAWA Staff-Recommended Alternative.

The ground transportation system improvements of Alternative 9, particularly as related to the CONRAC facility and the APM system, provide certain benefits and advantages not otherwise available under Alternative 1. Specifically, the eventual use of the APM system by rental car users will allow LAWA to reassign over 1,000 feet of dedicated curb in the CTA to other uses, thereby diffusing some of the curbside demand that can reduce the level of service on the roadway and curb systems. Additionally, the ground transportation system improvements of Alternative 9 will provide an improved connection for Metro riders seeking to access the airport through either the Metrobus or Metrorail systems. That grade-separated circulator system will provide a reliable and effective service between airport and Metro facilities, removing perceived

barriers to the airport for potential transit riders. Development of the ground transportation system improvements proposed under Alternative 9 instead of those proposed under Alternative 1 is also responsive to the numerous public and agency comments received during the public review period for the SPAS Draft EIR requesting that the alternative selected for approval by LAWA include the ground transportation system improvements proposed under Alternative 9 – see comments and responses in Chapter 4 of Part II of the SPAS Final EIR.

### *Alternative 2:*

Alternative 2, described in detail in Section 2.3.1.2 of the SPAS Draft EIR, is a fully-integrated alternative, consisting of airfield, terminal, and ground access components. This alternative is distinguished by the fact that it does not propose a northerly relocation of Runway 6L/24R or a southerly relocation of Runway 6R/24L. This alternative does not include a centerfield taxiway, but does include the modification and addition of high-speed runway exits (taxiways) to enhance the safe and efficient movement of arriving aircraft. Many of the improvements associated with Alternative 2 are the same as those associated with Alternative 1, including Runway 6R/24L, Taxiway E and Taxilane D, service road relocation, terminal and gate modifications, and ground access components. Improvements associated with Runway 6L/24R under this alternative, including connecting taxiways, are different than Alternative 1. Because there would be no northerly relocation of Runway 6L/24R under Alternative 2, it does not require the modifications to the Argo Drainage Channel (other than those required under existing conditions to meet federal RSA requirements) and Lincoln Boulevard described above for Alternative 1.

Findings: In light of the analysis in the SPAS Final EIR and substantial evidence in the administrative record, the BOAC hereby rejects Alternative 2 as infeasible for the specific economic, legal, social, technological, or other considerations discussed below, and because, as compared to the LAWA Staff-Recommended Alternative, it is not as responsive to meeting the project objectives and will not effectively reduce or avoid the significant effects of the project.

Rationale: As indicated in Table 1-2 of the SPAS Draft EIR, which provides an evaluation of the relationship between the project objectives and each of the SPAS alternatives, implementation of Alternative 2 would minimally respond to the project objective of providing north airfield improvements that support safe and efficient movement of aircraft at LAX, as compared to the airfield improvements proposed under the LAWA Staff-Recommended Alternative, which include the Alternative 1 airfield improvements that largely respond to that objective. The analysis supporting those conclusions is provided in Section 4.7.2 of the SPAS Draft EIR. As further described in that section, and summarized in Table 4.7.2-16 of the SPAS Draft EIR, there are several aspects of Alternative 2 related to airfield safety and efficiency enhancements that fall far short of those included in Alternative 1 including: the ability to shift the runway protection zone (RPZ) for Runway 24R westward whereby residences and the vehicle staging area west of Sepulveda Boulevard would no longer be located within the RPZ; providing increased separation between runways and between runways and taxiways, which better enables taxiing and holding aircraft to stay clear of runway object free zone (OFZ) and runway safety area (RSA) surfaces; allowing the addition of a centerfield parallel taxiway that includes high-speed exits from Runway 6L/24R, which provides more time and options for FAA air traffic controllers to handle aircraft exiting the runway; more time and distance for the pilot of an arriving aircraft to exit the runway, slow down and hold before crossing Runway 6R/24L, and reduced potential for safety hazards/incursions; and, improving the locations and design of crossing points (i.e., 90-degree crossing angle) at Runway 6R/24L, which provides better pilot visibility down Runway 6R/24L before crossing. Additionally, as also discussed in Section 4.7.2 of the SPAS Draft EIR, several independent assessments of north airfield safety at LAX have been completed and there is consensus among the studies, including the North Airfield Safety Study (NASS) of 2012, that there are airfield safety improvements associated with increasing the separation between the existing runways and adding a centerfield parallel taxiway. Implementation of the airfield component of Alternative 1, which includes increased runway separation and the addition of a centerfield taxiway, can achieve such safety benefits, whereas Alternative 2 will not.

Additionally, because Alternative 2 would not provide north airfield improvements that support safe and efficient movement of aircraft at LAX to the same extent as Alternative 1, Alternative 2 is also less able to respond to the project objective to maintain LAX's position as the premier international gateway in supporting and advancing the economic growth and vitality of the Los Angeles region. As described in Table 1-2 of the SPAS Draft EIR and supported by the analysis in Section 4.7.2 of the SPAS Draft EIR, the limited airfield improvements proposed under Alternative 2 do not increase standardization of aircraft operations and address only some airfield hazards, whereas the airfield improvements under Alternative 1, as included in the LAWA Staff-Recommended Alternative, provide standardization of nearly all airfield operations and address all airfield hazards. As shown in Table 1-2 of the SPAS Draft EIR, the ability of each SPAS alternative to maintain LAX's position as the premier international gateway is influenced by the combination of airfield, terminal, and ground transportation system improvements. The LAWA Staff-Recommended Alternative (i.e., the combination of Alternatives 1 and 9, as described above in Section I) is fully responsive to the terminal and ground transportation aspects of that objective. Alternative 2's airfield component is much less responsive to that objective.

The airfield component of Alternative 2 is also much less responsive to the project objective of enhancing safety and security at LAX. While both Alternatives 1 and 2 respond comparably to the security aspect of that project objective, Alternative 2 responds only minimally to the safety aspect of the objective as compared to Alternative 1 (i.e., the LAWA Staff-Recommended Alternative). As indicated in Table 1-2 of the SPAS Draft EIR, the limited airfield improvements proposed under Alternative 2 do not increase standardization of aircraft operations and address only some airfield hazards. By contrast, the airfield improvements under Alternative 1, as included in the LAWA Staff-Recommended Alternative, provide standardization of nearly all airfield operations and address all airfield hazards. A more detailed summary breakdown of the deficiencies of Alternative 2 in enhancing airfield safety at LAX, as compared to Alternative 1, is presented in Table 4.7.2-16, which is described above.

Section 1.5 of the SPAS Draft EIR identified Alternative 2 as the environmentally superior alternative, in part due to the fact that it would include very limited airfield improvements which would require less construction than all of the other alternatives, except Alternative 4, and therefore would result in reduced/fewer significant construction-related impacts. However, there are no major environmental topical areas where Alternative 2 would avoid or substantially reduce significant unavoidable impacts associated with the LAWA Staff-Recommended Alternative. As evidenced in comparing the summaries of impacts by topics for Alternative 2 and for the LAWA Staff-Recommended Alternative presented in Table 1-4 of the SPAS Draft EIR and Table SRA-2.5-1 of Part II of the SPAS Final EIR, respectively, both alternatives would result in unavoidable significant impacts related to Air Quality, Greenhouse Gases, Human Health Risk Assessment, Land Use and Planning - Aircraft Noise Exposure, Aircraft Noise, Construction Traffic and Equipment Noise, On-Airport Transportation, and Off-Airport Transportation, as further discussed below.

Table 1-5 in the SPAS Draft EIR, as amended by the corrections and additions in Chapter 5 of Part II of the SPAS Final EIR, and Table SRA-2.5.2 in Part II of the SPAS Final EIR highlights the tradeoff or "balancing" in the various aspects of significant air quality impacts between Alternative 2 and the LAWA Staff-Recommended Alternative. For example, Alternative 2 has lower construction-related air pollutant emissions and concentrations than those of the LAWA Staff-Recommended Alternative due to the fact that less construction would be required under this Alternative, but nevertheless exceeds the threshold of significance for all the pollutants analyzed. Relative to long-term operations-related air quality impacts, the analysis demonstrates that the LAWA Staff-Recommended Alternative would, for the most part, result in significant unavoidable air pollutant emissions and concentrations comparable to, or in some instances lower than, those associated with Alternative 2. As indicated in comparing the significant operational emissions in Tables SRA-2.3.2-4 and SRA-2.3.2-5 of Part II of the SPAS Final EIR and Table 1-5, as corrected in Chapter 5 of Part II of the SPAS Final EIR, the differences between the LAWA Staff-

Recommended Alternative and Alternative 2 would be approximately 3.8 percent for the grand total of sulfur dioxide (SO<sub>2</sub>), and, for particulate emissions (PM), the grand total PM<sub>10</sub> emissions for the LAWA Staff-Recommended Alternative would be approximately nine percent less than those of Alternative 2, and the grand total PM<sub>2.5</sub> emissions for the LAWA Staff-Recommended Alternative would be more than 25 percent less than those of Alternative 2. Relative to significant operations-related concentrations for the two alternatives, as can be seen in comparing the significant operational emissions in Tables SRA-2.3.2-6 and SRA-2.3.2-7 of Part II of the SPAS Final EIR and Table 1-5, as corrected in Chapter 5 of Part II of the SPAS Final EIR, nitrogen dioxide (NO<sub>2</sub>) concentration for Alternative 2 would be less than those of the LAWA Staff-Recommended Alternative by between approximately two percent and 26 percent, however, PM<sub>10</sub> and PM<sub>2.5</sub> concentrations for the LAWA Staff-Recommended Alternative would be less than those of Alternative 2 by approximately 15 percent and 38 percent, respectively. Thus, implementation of Alternative 2 would not avoid or substantially reduce the significant unavoidable air quality impacts of the LAWA Staff-Recommended Alternative.

Relative to significant unavoidable impacts associated with greenhouse gas (GHG) emission, a comparison of Table 4.6-6, as corrected in Chapter 5 of Part II of the SPAS Final EIR, and Table SRA-2.3.6-2 in Part II of the SPAS Final EIR indicates that implementation of Alternative 2 would not achieve the same amount of GHG reduction as that of the LAWA Staff-Recommended Alternative (i.e., 13.47 percent reduction in GHG emissions for Alternative 2 compared to a 14.73 percent reduction for the LAWA Staff-Recommended Alternative; hence, the significant unavoidable GHG impact associated with Alternative 2 would be comparatively worse). With regard to impacts associated with the human health risk assessment, implementation of Alternative 2 would result in a slightly lower hazard value for acute non-cancer health hazard (2.2 Hazard Index versus 3.0 Hazard Index), but would still exceed the threshold of significance (1.0 Hazard Index) by 120 percent.

Similar to air quality above, a comparison of the two alternatives relative to significant unavoidable noise impacts indicates a tradeoff or "balance" between specific aspects of the noise impacts. Table 1-5 in the SPAS Draft EIR, as amended by the corrections and additions in Chapter 5 of Part II of the SPAS Final EIR, and Table SRA-2.5.2 in Part II of the SPAS Final EIR, highlight the fact that implementation of the LAWA Staff-Recommended Alternative would result in significant unavoidable temporary construction noise impacts associated with airfield improvements, ground access (transportation system) improvements, and construction staging areas, while implementation of Alternative 2 would result in significant unavoidable temporary construction noise impacts associated with ground access (transportation system) improvements, and construction staging areas. As such, the extent of significant unavoidable temporary construction noise impacts under Alternative 2 would be somewhat less than those of the LAWA Staff-Recommended Alternative. However, when comparing the long-term, significant and unavoidable, operations-related aircraft noise impacts of the two alternatives, the extent of impacts under Alternative 2 would be greater than those of the LAWA Staff-Recommended Alternative. As indicated in the tables referenced above and the analysis in the EIR, the numbers of people and homes newly exposed to 65<sub>+</sub> CNEL under Alternative 2 are 14,039 and 4,531, respectively, as compared to 13,160 and 4,370, respectively, under the LAWA Staff-Recommended Alternative. Therefore, implementation of Alternative 2 would not avoid or substantially reduce the significant unavoidable noise impacts of the LAWA Staff-Recommended Alternative.

Relative to significant unavoidable traffic impacts, both Alternative 2 and the LAWA Staff-Recommended Alternative would have the same number of such impacts on-airport (i.e., the one same intersection within the CTA that would be significantly impacted under future cumulative conditions). Significant unavoidable traffic impacts off-airport would not be appreciably different between the two alternatives, with Alternative 2 having significant unavoidable impacts at 42 of the 245 off-airport facilities evaluated in the SPAS traffic analysis (i.e., 38 of the 200 intersection evaluated would have significant unavoidable impacts and 4 of the 45 CMP facilities would have

significant unavoidable impacts), compared to 48 off-airport facilities having significant unavoidable impacts under the LAWA Staff-Recommended Alternative (i.e., 44 intersections and 4 CMP facilities). Thus, implementation of Alternative 2 would not avoid or substantially reduce the significant traffic impacts of the LAWA Staff-Recommended Alternative.

In light of the relatively moderate environmental advantages of Alternative 2 over the LAWA Staff-Recommended Alternative, coupled with the inability of Alternative 2 to meet project objectives to the same extent as the LAWA Staff-Recommended Alternatives, particularly those objectives related to airfield safety, Alternative 2 is found to be infeasible and is rejected in favor of the Staff-Recommended Alternative.

### *Alternative 3:*

Alternative 3, described in detail in Section 2.3.1.3 of the SPAS Draft EIR, is the CEQA "No Project" Alternative and represents what would reasonably be expected to occur in the foreseeable future if the LAX Master Plan (i.e., "Alternative D") and all of the LAX Master Plan improvements, including the Yellow Light Projects, were implemented as originally envisioned. Analysis of Alternative 3 was provided in the EIR to allow decision-makers and the public to compare the impacts of implementing alternatives to the LAX Master Plan with the impacts that would occur under the LAX Master Plan. Alternative 3 is a fully-integrated alternative, consisting of airfield, terminal, and ground access components. The distinguishing airfield improvement related to this alternative is the movement of Runway 6R/24L 340 feet south, along with the addition of a new centerfield taxiway, extension of Runway 6L/24R, and relocation and improvements to Taxiway E, Taxiway D, and service roads. Related terminal improvements include demolition of the concourses/gates at Terminals 1, 2, and 3 and replacement with a new linear concourse, elimination of the northernmost gates at TBIT, and replacement of the existing CTA parking structures with new passenger processing terminals. Key ground access improvements include closure of the CTA to private vehicles; development of a GTC at Manchester Square, an ITC at the area referred to as Continental City with a pedestrian bridge to the existing Metro Green Line Station, and a CONRAC at Parking Lot C; development of two APM systems to link the ITC, CONRAC, and CTA and link the GTC and CTA; construction of new on-airport roads east of and parallel to Aviation Boulevard; reconfiguration and expansion of Parking Lot E located west of La Cienega Boulevard; and construction of a West Employee Parking facility. There would be no modifications to the Argo Drainage Channel (other than those required under existing conditions to meet federal RSA requirements) or Lincoln Boulevard under this alternative.

Findings: In light of the analysis in the SPAS Final EIR and substantial evidence in the administrative record, the BOAC hereby rejects Alternative 3 as infeasible for the specific economic, legal, social, technological, or other considerations discussed below, including the fact that it will not effectively reduce or avoid the significant effects of the project, and, due to its extremely high cost, it would not respond to the project objective to produce an improvement program that is efficient, sustainable, feasible, and fiscally responsible.

Rationale: As can be seen in comparing the summaries of impacts by topics for Alternative 3 and for the LAWA Staff-Recommended Alternative presented in Table 1-4 of the SPAS Draft EIR and Table SRA-2.5-1 of Part II of the SPAS Final EIR, respectively, implementation of Alternative 3 would result in significant unavoidable impacts in all of the same environmental topic categories as those of the LAWA Staff-Recommended Alternative, with the exception of On-Airport Transportation. The reason for that difference is that, under Alternative 3, the CTA would be closed to private vehicles. Consequently, there would be minimal traffic within the CTA (i.e., only FlyAway buses, LAWA service vehicles, and police/security vehicles) and essentially no impacts to on-airport intersections. The significant impacts of the Staff-Recommended Alternative that would be avoided under Alternative 3 would be limited to intersections within the CTA.

For most other environmental topics, the magnitude and severity of significant unavoidable impacts associated with Alternative 3 would be greater than those of the LAWA Staff

Recommended Alternative, as seen by comparing the nature and extent of significant unavoidable impacts associated with Alternative 3 and the LAWA Staff-Recommended Alternative, which can be seen in Table 1-5 in the SPAS Draft EIR, as amended by the corrections and additions in Chapter 5 of Part II of the SPAS Final EIR, and Table SRA-2.5.2 in Part II of the SPAS Final EIR. This is true relative to all construction-related air pollutant emissions and concentrations, all operations-related air pollutant emissions and concentrations, with the exception of NO<sub>2</sub> 1-hour concentrations related to California Ambient Air Quality Standards, greenhouse gas emissions, and human health risk impacts related to acute non-cancer hazards.

As shown in the two tables referenced immediately above, implementation of the LAWA Staff-Recommended Alternative would result in significant unavoidable temporary construction noise impacts associated with airfield improvements, ground access (transportation system) improvements, and construction staging areas, while implementation of Alternative 3 would result in significant unavoidable temporary construction noise impacts associated with only ground access (transportation system) improvements and construction staging areas. However, when comparing the long-term, significant and unavoidable, operations-related aircraft noise impacts of the two alternatives, the extent of impacts under Alternative 3 would be greater than those of the LAWA Staff-Recommended Alternative. The aircraft noise exposure impacts of Alternative 3 would be approximately the same as the LAWA Staff Recommended Alternative relative to population newly exposed to 65 $\geq$  CNEL (13,156 people for Alternative 3 compared to 13,160 people for the LAWA Staff Recommended Alternative), but the impact of Alternative 3 relative to the number of homes newly exposed to 65 $\geq$  CNEL would be greater than that of the LAWA Staff-Recommended Alternative (i.e., 4,508 versus 4,370). Therefore, implementation of Alternative 3 would not avoid or substantially reduce the significant unavoidable noise impacts of the LAWA Staff-Recommended Alternative.

Significant unavoidable traffic impacts off-airport would not be appreciably different between the two alternatives. Alternative 3 would have significant unavoidable impacts at 42 of the 245 off-airport facilities evaluated in the SPAS traffic analysis (i.e., 37 of the 200 intersection evaluated would have significant unavoidable impacts and 5 of the 45 CMP facilities would have significant unavoidable impacts), compared to 48 off-airport facilities having significant unavoidable impacts under the LAWA Staff-Recommended Alternative (i.e., 44 intersections and 4 CMP facilities). Thus, implementation of Alternative 3 would not avoid or substantially reduce the significant unavoidable off-airport traffic impacts of the LAWA Staff-Recommended Alternative.

Implementation of Alternative 3 would be substantially more expensive than the LAWA Staff-Recommended Alternative, with the construction cost of Alternative 3 being over 3.5 times greater than that of the LAWA Staff-Recommended Alternative (see Table 8-2 in the LAX SPAS Report). A detailed discussion of the financial considerations of SPAS, which was conducted with a series of Rough Order of Magnitude (ROM) cost estimates of capital costs, is contained in Chapter 8 of the LAX Preliminary SPAS Report. The Chapter evaluates, in light of airport expected capital costs and revenues, the financial sustainability of each of the Alternatives relative to one another. That analysis indicates that the Yellow Light Projects are relatively unsustainable compared to other SPAS alternatives, including the LAWA Staff-Recommended Alternative. In particular, the implementation of the Yellow Light Project elements of the LAX Master Plan required more than \$16 billion in escalated capital costs, making them, by a large margin, the most capital intensive solutions to the problems that those projects were designed to address. (See LAX Preliminary SPAS Report, Table 8-2.) In addition, the implementation of the Yellow Light Projects was found to incur a high risk of a bond rating downgrade for the airport. (See LAX Preliminary SPAS Report, Table 8-2.) Bond rating downgrades not only call into question the ability of the airport to finance the Yellow Light Projects, but also could reduce the airport's capability to finance other capital projects that the airport may seek unrelated to SPAS, including other projects described in the cumulative impact analysis set forth in Chapter 5 of the SPAS Draft EIR, such as the Midfield Satellite Concourse.

By comparison, and as detailed in Chapter 1 of the SPAS Draft EIR (Tables 1-2 and 1-3), the Staff-Recommended Alternative provides near equivalent solutions for the same problems that the Yellow Light Projects were designed to address with nearly \$9 billion less in investment. (See LAX Preliminary SPAS Report, Table 8-1, which reports the escalated costs of the Staff-Recommended Alternative [identified as Alt. 1 with Alt. 9 ground access] at \$4,762,650 and the costs of the LAX Master Plan Yellow Light Projects [identified as Alt. 3] at \$16,791,356.) As indicated in Table 1-2 of the SPAS Draft EIR, Alternative 3, with its high cost, is the only one of the nine alternatives that would result in a high impact to LAWA finances and therefore does not respond to the project objective to produce an improvement program that is efficient, sustainable, feasible, and fiscally responsible.

In light of the fact that the magnitude and severity of significant unavoidable impacts associated with Alternative 3 would be greater than those of the LAWA Staff Recommended Alternative in most instances, the unsustainable nature of Alternative 3 from a financial perspective, and the inability of Alternative 3 to meet the project objective of producing an improvement program that is efficient, sustainable, feasible, and fiscally responsible, Alternative 3 is found to be infeasible and is rejected in favor of the Staff-Recommended Alternative.

### *Alternative 4:*

Alternative 4, described in detail in Section 2.3.1.4 of the SPAS Draft EIR, represents what would reasonably be expected to occur if all ongoing and reasonably foreseeable non-Yellow Light improvements identified in the LAX Master Plan (i.e., "Alternative D") were implemented, and none of the Yellow Light Projects or any of the identified alternatives to the LAX Master Plan Program were constructed or implemented. Analysis of Alternative 4 was provided in the EIR to allow decision-makers and the public to evaluate the impacts of simply eliminating the Yellow Light Projects from the LAX Master Plan Program. Alternative 4 is a fully-integrated alternative, consisting of airfield, terminal, and ground access components. Ongoing and reasonably-foreseeable non-Yellow Light projects that would be developed include the Bradley West Project, an extension to Runway 6R/24L for RSA improvements, the MSC and related new passenger processor and connector within the CTA, and various terminal improvements. In addition, a CONRAC at Parking Lot C would be constructed and a new parking structure would be developed at the ITC site to accommodate the public parking displaced by the CONRAC. A portion of the Argo Drainage Channel would be covered to comply with existing RSA requirements by converting a portion of the existing open unlined channel to an enclosed concrete box culvert. There would be no modifications to Lincoln Boulevard under this alternative.

Findings: In light of the analysis in the SPAS Final EIR and substantial evidence in the administrative record, the BOAC hereby rejects Alternative 4 as infeasible for the specific economic, legal, social, technological, or other considerations discussed below, including the fact that it will not fully meet most project objectives and will not effectively reduce or avoid the significant effects of the project.

Rationale: As indicated in Table 1-2 of the SPAS Draft EIR, which provides an evaluation of the relationship between the project objectives and each of the SPAS alternatives, implementation of Alternative 4 would not respond to the project objective of providing north airfield improvements that support safe and efficient movement of aircraft at LAX, as compared to the airfield improvements proposed under the LAWA Staff-Recommended Alternative, which includes the Alternative 1 airfield improvements that largely respond to that objective. The analysis supporting those conclusions is provided in Section 4.7.2 of the SPAS Draft EIR. As further described in that section, and summarized in Table 4.7.2-16 of the SPAS Draft EIR, there are several aspects of Alternative 4 related to airfield safety and efficiency enhancements that fall far short of those measures included in Alternative 1 including: the ability to shift the runway protection zone (RPZ) for Runway 24R westward whereby residences and the vehicle staging area west of Sepulveda Boulevard would no longer be located within the RPZ; providing a greater amount of runway and

taxiway facilities that meet FAA Airport Design Standards for ADG V and VI aircraft, particularly as it relates to separation requirements; reducing the need for special operations restrictions, modifications of standards, and waivers from FAA; providing increased separation between runways and between runways and taxiways, which better enables taxiing and holding aircraft to stay clear of runway object free zone (OFZ) and runway safety area (RSA) surfaces; allowing the addition of a centerfield parallel taxiway that includes high-speed exits from Runway 6L/24R, which provides more time and options for FAA air traffic controllers to handle aircraft exiting the runway; more time and distance for the pilot of an arriving aircraft to exit the runway, slow down and hold before crossing Runway 6R/24L, and reduced potential for safety hazards/incursions; improving the locations and design of crossing points (i.e., 90-degree crossing angle) at Runway 6R/24L, which provides better pilot visibility down Runway 6R/24L before crossing; realigning/straightening Taxiway D to provide a full-length parallel taxiway designed for ADG V aircraft; relocating vehicle service road adjacent to Taxiway E and Taxiway D out from between two active surfaces; providing more aircraft holding areas near the end of runways, thereby improving the ability for sequencing departures; and improving the locations for high-speed exits from Runway 6L/24R and improves crossing angles at Runway 6R/24L with better pilot visibility down Runway 6R/24L before crossing. Additionally, as also discussed in Section 4.7.2 of the SPAS Draft EIR, several independent assessments of north airfield safety at LAX have been completed and there is consensus among the studies, including the North Airfield Safety Study (NASS) of 2012, that there are airfield safety improvements associated within increasing the separation between the existing runways and adding a centerfield parallel taxiway. Implementation of Alternative 1, which includes increased runway separation and the addition of a centerfield taxiway, can achieve such safety benefits, whereas Alternative 4 will not.

Additionally, because Alternative 4 would not provide north airfield improvements that support safe and efficient movement of aircraft at LAX to the same extent as Alternative 1, Alternative 4 is also less able to respond to the project objective to maintain LAX's position as the premier international gateway in supporting and advancing the economic growth and vitality of the Los Angeles region. As described in Table 1-2 of the SPAS Draft EIR and supported by the analysis in Section 4.7.2 of the SPAS Draft EIR, the limited airfield improvements proposed under Alternative 4 do not increase standardization of aircraft operations and address very few airfield hazards, whereas the airfield improvements under Alternative 1, as included in the LAWA Staff-Recommended Alternative, provide standardization of nearly all airfield operations and address all airfield hazards. As also shown in Table 1-2 of the SPAS Draft EIR, the ability of each SPAS alternative to maintain LAX's position as the premier international gateway is influenced by the combination of airfield, terminal, and ground transportation system improvements. The LAWA Staff-Recommended Alternative (i.e., the combination of Alternatives 1 and 9, as described above in Section I) is largely responsive to the airfield aspect of that objective and is fully responsive to the terminal and ground transportation aspects, whereas Alternative 4 is completely non-responsive to the airfield and terminal aspects of that objective and only minimally responsive to the ground access aspect.

Relative to meeting the objective of improving the ground access system to better accommodate airport-related traffic, especially as related to the CTA, Alternative 4 is only minimally responsive because the only ground transportation improvement it provides is a CONRAC, whereas the LAWA Staff-Recommended Alternative, with the Alternative 9 ground transportation system improvements, is fully responsive to that objective. Relative to meeting the project objective of enhancing safety and security at LAX, evaluation of the safety aspect of that objective takes into consideration the same airfield performance characteristics described above. Given that Alternative 4 proposes no airfield improvements other than the federally-mandated runway safety improvements that would be required irrespective of SPAS, Alternative 4 does not meet the safety aspect of that objective.

As can be seen in comparing the summaries of impacts by topics for Alternative 4 and for the LAWA Staff-Recommended Alternative presented in Table 1-4 of the SPAS Draft EIR and Table

SRA-2.5-1 of Part II of the SPAS Final EIR, respectively, implementation of Alternative 4 would result in significant unavoidable impacts in all of the same environmental topic categories as those of the LAWA Staff-Recommended Alternative. Specifically, both alternatives would result in unavoidable significant impacts related to Air Quality, Greenhouse Gases, Human Health Risk Assessment, Land Use and Planning - Aircraft Noise Exposure, Aircraft Noise, Construction Traffic and Equipment Noise, On-Airport Transportation, and Off-Airport Transportation. Table 1-5 in the SPAS Draft EIR, as amended by the corrections and additions in Chapter 5 of Part II of the SPAS Final EIR, and Table SRA-2.5.2 in Part II of the SPAS Final EIR highlight the tradeoff or "balancing" in the various aspects of significant air quality impacts between Alternative 4 and the LAWA-Staff-Recommended Alternative. For example, Alternative 4 has lower construction-related air pollutant emissions and concentrations than those of the LAWA Staff-Recommended Alternative, but nevertheless exceeds the threshold of significance for emissions of NO<sub>x</sub> and PM<sub>10</sub> and concentrations of NO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>. Relative to long-term operations-related air quality impacts, the analysis demonstrates that the LAWA Staff-Recommended Alternative would result in air pollutant emissions and concentrations that are lower than those associated with Alternative 4, with the exception of NO<sub>2</sub> 1-hour concentrations related to California Ambient Air Quality Standards. Thus, implementation of Alternative 4 would not avoid or substantially reduce the significant unavoidable air quality impacts of the LAWA Staff-Recommended Alternative.

Relative to significant unavoidable impacts associated with greenhouse gas (GHG) emission, a comparison of the two tables referenced above indicates that implementation of Alternative 4 would not achieve the same amount of GHG reduction as that of the LAWA Staff-Recommended Alternative (i.e., 14.06 percent reduction in GHG emissions for Alternative 4 compared to a 14.73 percent reduction for the LAWA Staff-Recommended Alternative; hence, the significant unavoidable GHG impact associated with Alternative 4 would be comparatively worse).

With regard to impacts associated with the human health risk assessment, implementation of Alternative 4 would result in a higher hazard value (i.e., worse impact) for acute non-cancer health hazard than that of the LAWA Staff-Recommended Alternative (3.1 Hazard Index versus 3.0 Hazard Index).

A comparison of the two alternatives relative to significant unavoidable noise impacts indicates a tradeoff or "balance" between specific aspects of the noise impacts. Table 1-5 in the SPAS Draft EIR, as amended by the corrections and additions in Chapter 5 of Part II of the SPAS Final EIR, and Table SRA-2.5.2 in Part II of the SPAS Final EIR highlight the fact that implementation of the LAWA Staff-Recommended Alternative would result in significant unavoidable temporary construction noise impacts associated with airfield improvements, ground access (transportation system) improvements, and construction staging areas, while implementation of Alternative 4 would result in significant unavoidable temporary construction noise impacts associated with only ground access (transportation system) improvements and construction staging areas. However, when comparing the long-term, significant and unavoidable, operations-related aircraft noise impacts of the two alternatives, the extent of impacts under Alternative 4 would be greater than those of the LAWA Staff-Recommended Alternative. As indicated in the tables referenced above and the analysis in the EIR, the numbers of people and homes new exposed to 65<sub>≥</sub> CNEL are 14,404 and 4,603, respectively, under Alternative 4, but only 13,160 and 4,370, respectively, under the LAWA Staff-Recommended Alternative. Therefore, implementation of Alternative 4 would not avoid or substantially reduce the significant unavoidable noise impacts of the LAWA Staff-Recommended Alternative.

Relative to significant unavoidable traffic impacts, both Alternative 4 and the LAWA Staff-Recommended Alternative would have the same number of such impacts on-airport (i.e., the one same intersection within the CTA that would be significantly impacted under future cumulative conditions). Significant unavoidable traffic impacts off-airport would not be appreciably different between the two alternatives, with Alternative 4 having significant unavoidable impacts at 43 of the 245 off-airport facilities evaluated in the SPAS traffic analysis (i.e., 38 of the 200 intersection evaluated would have significant unavoidable impacts and 5 of the 45 CMP facilities would have

significant unavoidable impacts), compared to 48 off-airport facilities having significant unavoidable impacts under the LAWA Staff-Recommended Alternative (i.e., 44 intersections and 4 CMP facilities). Thus, implementation of Alternative 4 would not avoid or substantially reduce the significant unavoidable traffic impacts of the LAWA Staff-Recommended Alternative.

In light of the fact that Alternative 4 does not have significant environmental advantages over the LAWA Staff-Recommended Alternative, coupled with the inability of Alternative 4 to meet project objectives to the same extent as the LAWA Staff-Recommended Alternatives, Alternative 4 is found to be infeasible and is rejected in favor of the Staff-Recommended Alternative.

### *Alternative 5:*

Alternative 5, described in detail in Section 2.3.1.5 of the SPAS Draft EIR, provides, as noted above, a focus on airfield improvements and associated terminal improvements, as may be compared to such improvements proposed under Alternatives 1 through 4. This alternative is compatible with the ground access improvements associated with Alternatives 1 and 2, as well as the ground access improvements associated with Alternatives 8 and 9, described below. The distinguishing feature of this alternative is the movement of Runway 6L/24R 350 feet north. Similar to Alternative 1, a new centerfield taxiway would be constructed, Runway 6R/24L would be extended, Taxiway D and Taxiway E would be modified/improved, and the service road would be relocated. Under this alternative, the taxiway/taxiway improvements would meet FAA design requirements to fully accommodate ADG VI aircraft. (Under Alternatives 1, 2, and 6, the taxiway configuration would either not meet or only partially meet ADG VI design standards, which would impose certain limitations and special requirements during the operation of those aircraft.) The increased runway-taxiway separation requirements under this alternative would cause the aircraft taxiway operations area to extend farther south than under Alternatives 1, 2, and 6, which, in turn, would result in comparatively less concourse and/or gate area for the potential TBIT extension and MSC extension. Under this alternative, a greater portion of Lincoln Boulevard would be below grade and/or tunneled than under Alternative 1.

Findings: In light of the analysis in the SPAS Final EIR and substantial evidence in the administrative record, the BOAC hereby rejects the airfield and terminal improvements proposed under Alternative 5 in favor of the airfield and terminal improvements proposed under Alternative 1 (i.e., the LAWA Staff-Recommended Alternative) because the improvements proposed under Alternative 5 will not substantially reduce or avoid the significant effects related to the airfield and terminal improvements of the project. Additionally, Alternative 5 is limited in its ability to respond to the project objective of maintaining LAX's position as the premier international gateway in supporting and advancing the economic growth and vitality of the Los Angeles region.

Rationale: As can be seen in comparing the summaries of impacts by topics for Alternative 5 and for the LAWA Staff-Recommended Alternative presented in Table 1-4 of the SPAS Draft EIR and Table SRA-2.5-1 of Part II of the SPAS Final EIR, respectively, implementation of Alternative 5 would result in significant unavoidable impacts in all of the applicable environmental topic categories as those of the LAWA Staff-Recommended Alternative. Specifically, both alternatives would result in unavoidable significant impacts related to Air Quality, Greenhouse Gases, Human Health Risk Assessment, Land Use and Planning - Aircraft Noise Exposure, Aircraft Noise, and Construction Traffic and Equipment Noise. Table 1-5 in the SPAS Draft EIR, as amended by the corrections and additions in Chapter 5 of Part II of the SPAS Final EIR, and Table SRA-2.5.2 in Part II of the SPAS Final EIR highlight the fact that the range of construction-related air pollutant emissions and concentrations associated with Alternative 5 is comparable to that of the LAWA Staff-Recommended Alternative. The range of long-term operations-related air quality impacts of Alternative 5 is also comparable to that of the LAWA Staff-Recommended Alternative. Thus, implementation of Alternative 5 would not avoid or substantially reduce the significant unavoidable air quality impacts of the LAWA Staff-Recommended Alternative.

Relative to significant unavoidable impacts associated with greenhouse gas (GHG) emission, a comparison of the two tables referenced immediately above indicates that implementation of

Alternative 5 achieve a generally similar amount of GHG reduction as that of the LAWA Staff-Recommended Alternative (i.e., 12.84-14.76 percent reduction in GHG emissions for Alternative 5 compared to a 14.73 percent reduction for the LAWA Staff-Recommended Alternative).

With regard to impacts associated with the human health risk assessment, implementation of Alternative 5 would result in a hazard value for acute non-cancer health hazard that is slightly less than that of the LAWA Staff-Recommended Alternative (2.9 Hazard Index versus 3.0 Hazard Index), but would still exceed the threshold of significance (1.0) by 190 percent.

A comparison of the two alternatives relative to significant unavoidable noise impacts indicates no appreciable difference between Alternative 5 and the LAWA Staff-Recommended Alternative. Table 1-5 in the SPAS Draft EIR, as amended by the corrections and additions in Chapter 5 of Part II of the SPAS Final EIR, and Table SRA-2.5.2 in Part II of the SPAS Final EIR highlight the fact that both alternatives would result in significant unavoidable temporary construction noise impacts associated with airfield improvements and construction staging areas.

In comparing the long-term operations-related aircraft noise significant unavoidable impacts of the two alternatives, the extent of impacts under Alternative 5 would be generally comparable to, or slightly less than, those of the LAWA Staff-Recommended Alternative. As indicated in the tables referenced above and the analysis in the EIR, the numbers of people and homes new exposed to  $65 \geq$  CNEL are 12,861 and 4,315, respectively, under Alternative 5, and 13,160 and 4,370, respectively, under the LAWA Staff-Recommended Alternative, a difference of approximately 1-3 percent. Thus, implementation of Alternative 5 would not avoid or substantially reduce the significant unavoidable noise impacts of the LAWA Staff-Recommended Alternative.

Alternative 5 is limited in its ability to respond to the project objective of maintaining LAX's position as the premier international gateway in supporting and advancing the economic growth and vitality of the Los Angeles region. Based on the taxiway to runway separation requirements associated with this alternative, the building limit line and aircraft parking limit line for this alternative would be much farther south than would otherwise occur under the LAWA Staff-Recommended Alternative. This, in turn, limits the ability to extend northward the concourse at TBIT and the future Midfield Satellite Concourse, and therefore stifles the opportunity for additional terminal improvements to serve passengers, particularly relative to international travel.

In light of the fact that Alternative 5 does not avoid or substantially reduce the significant environmental impacts of the LAWA Staff-Recommended Alternative and is limited in its responsiveness to one of the key project objectives, Alternative 5 is rejected in favor of the Staff-Recommended Alternative.

*Alternative 6:*

Alternative 6, similar to Alternative 5 and as described in detail in Section 2.3.1.6 of the SPAS Draft EIR, also focuses on airfield improvements and associated terminal improvements, as may be compared to such improvements proposed under Alternatives 1 through 4. This alternative is compatible with the ground access improvements associated with Alternatives 1 and 2, as well as the improvements associated with Alternatives 8 and 9. The distinguishing feature of this alternative is the movement of Runway 6L/24R 100 feet north. Similar to Alternative 1, a new centerfield taxiway would be constructed. All other physical aspects of the airfield and terminal improvements associated with this alternative would be essentially the same as those of Alternative 1, described above, with a lesser portion of the Argo Drainage Channel requiring covering (i.e., conversion to a concrete box culvert) and a lesser portion of Lincoln Boulevard requiring tunneling.

Findings: In light of the analysis in the SPAS Final EIR and substantial evidence in the administrative record, the BOAC hereby rejects the airfield and terminal improvements proposed under Alternative 6 as infeasible for the specific economic, legal, social, technological, or other considerations discussed below, including the fact that, as compared to the LAWA Staff-

Recommended Alternative, they are not as responsive to meeting the relevant project objectives and will not effectively reduce or avoid the significant effects of the project.

Rationale: As indicated in Table 1-2 of the SPAS Draft EIR, which provides an evaluation of the relationship between the project objectives and each of the SPAS alternatives, implementation of Alternative 6 would partially respond to the project objective of providing north airfield improvements that support safe and efficient movement of aircraft at LAX, as compared to the airfield improvements proposed under the LAWA Staff-Recommended Alternative, which includes the Alternative 1 airfield improvements that largely respond to that objective. The analysis supporting those conclusions is provided in Section 4.7.2 of the SPAS Draft EIR.

Additionally, because Alternative 6 would not provide north airfield improvements that support safe and efficient movement of aircraft at LAX to the same extent as Alternative 1, Alternative 6 is less able to respond to the project objective to maintain LAX's position as the premier international gateway in supporting and advancing the economic growth and vitality of the Los Angeles region. As shown in Table 1-2 of the SPAS Draft EIR, the ability of each SPAS alternative to maintain LAX's position as the premier international gateway is influenced by the combination of airfield, terminal, and ground transportation system improvements. Both Alternative 6 and the Staff-Recommended Alternative address all airfield hazards. However, as described in Section 4.7.2 of the SPAS Draft EIR, the limited airfield improvements proposed under Alternative 6 provide improvement in standardization of airfield operations, whereas, the airfield improvements proposed under the LAWA Staff-Recommended Alternative, which are the same as those proposed under Alternative 1, provide standardization of nearly all airfield operations. A key difference between the two Alternatives is that Alternative 6 fails to standardize operations for all ADG V aircraft during bad weather conditions, and for ADG VI operations during all weather conditions. In addition, Alternative 6 fails to provide significant improvements to arriving pilots' situational awareness, a key feature included in the Staff Recommended Alternative.

Relative to airfield and terminal improvements, the LAWA Staff-Recommended Alternative is largely responsive to the airfield aspect and fully responsive to the terminal aspect, but Alternative 6 is only partially responsive to the airfield aspect although fully responsive to the terminal aspect (i.e., the extent and benefits of airfield improvements under Alternative 6 are not as great as those under the LAWA Staff-Recommended Alternative, although Alternative 6 still allows for the northward extension of the TBIT concourse and future Midfield Satellite Concourse). Because Alternative 6 focuses on only airfield and terminal improvements, which could be coupled with the ground access improvements of certain other alternatives, its relationship to the ground access aspect of the Staff-Recommended Alternative is not evaluated.

A similar relationship between Alternative 6 and the Staff-Recommended Alternative exists relative to each alternative's responsiveness to the project objective to enhance safety and security at LAX. As indicated in Table 1-2 of the SPAS Draft EIR, evaluation of the safety aspect of that objective takes into consideration the same airfield performance characteristics described above. As described above, the airfield improvements proposed under Alternative 6 do provide some improvement in standardization of aircraft operations and address all airfield hazards; however, the airfield improvements under the LAWA Staff-Recommended Alternative provide standardization of nearly all airfield operations and address all airfield hazards, which is more supportive of the safety aspect of this objective.

As can be seen in comparing the summaries of impacts by topics for Alternative 6 and for the LAWA Staff-Recommended Alternative presented in Table 1-4 of the SPAS Draft EIR and Table SRA-2.5-1 of Part II of the SPAS Final EIR, respectively, implementation of Alternative 6 would result in significant unavoidable impacts in all of the same environmental topic categories as those of the LAWA Staff-Recommended Alternative. Specifically, both alternatives would result in unavoidable significant impacts related to Air Quality, Greenhouse Gases, Human Health Risk Assessment, Land Use and Planning - Aircraft Noise Exposure, Aircraft Noise, and Construction

Traffic and Equipment Noise. Table 1-5 in the SPAS Draft EIR, as amended by the corrections and additions in Chapter 5 of Part II of the SPAS Final EIR, and Table SRA-2.5.2 in Part II of the SPAS Final EIR highlight the fact that the range of construction-related air pollutant emissions and concentrations associated with Alternative 6 would include a level of impact comparable to that of the LAWA Staff-Recommended Alternative. The range of long-term operations-related air quality impacts of Alternative 6 would also be comparable to the level of impact of the LAWA Staff-Recommended Alternative. Thus, implementation of Alternative 6 would not avoid or substantially reduce the significant unavoidable air quality impacts of the LAWA Staff-Recommended Alternative.

Relative to significant unavoidable impacts associated with greenhouse gas (GHG) emission, a comparison of the two tables referenced immediately above indicates that implementation of Alternative 6 achieve a generally similar amount of GHG reduction as that of the LAWA Staff-Recommended Alternative (i.e., 13.23-15.15 percent reduction in GHG emissions for Alternative 6 compared to a 14.73 percent reduction for the LAWA Staff-Recommended Alternative).

With regard to impacts associated with the human health risk assessment, implementation of Alternative 6 would result in a hazard value for acute non-cancer health hazard that is slightly less than that of the LAWA Staff-Recommended Alternative (2.8 Hazard Index versus 3.0 Hazard Index), but would still exceed the threshold of significance (1.0) by 180 percent.

A comparison of the two alternatives relative to significant unavoidable noise impacts indicates no appreciable difference between Alternative 6 and the LAWA Staff-Recommended Alternative. Table 1-5 in the SPAS Draft EIR, as amended by the corrections and additions in Chapter 5 of Part II of the SPAS Final EIR, and Table SRA-2.5.2 in Part II of the SPAS Final EIR highlight the fact that both alternatives would result in significant unavoidable temporary construction noise impacts associated with airfield improvements and construction staging areas.

In comparing the long-term operations-related aircraft noise significant unavoidable impacts of the two alternatives, the extent of impacts under Alternative 6 would be generally comparable to, or slightly more than those of the LAWA Staff-Recommended Alternative. As indicated in the subject tables, the numbers of people and homes new exposed to  $65 \geq$  CNEL are 13,607 and 4,462, respectively, under Alternative 6, and 13,160 and 4,370, respectively, under the LAWA Staff-Recommended Alternative. Thus, implementation of Alternative 6 would not avoid or substantially reduce the significant unavoidable noise impacts of the LAWA Staff-Recommended Alternative.

In light of the fact that Alternative 6 does not have significant environmental advantages over the LAWA Staff-Recommended Alternative and does not meet project objectives to the same extent as the Staff-Recommended Alternative, Alternative 6 is found to be infeasible and is rejected in favor of the Staff-Recommended Alternative.

*Alternative 7:*

Alternative 7, similar to Alternatives 5 and 6 and described in detail in Section 2.3.1.7 of the SPAS Draft EIR, also focuses on airfield improvements and associated terminal improvements, as may be compared to such improvements proposed under Alternatives 1 through 4. This alternative is compatible with the ground access improvements associated with Alternatives 1 and 2, as well as the improvements associated with Alternatives 8 and 9. The distinguishing feature of this alternative is the movement of Runway 6R/24L 100 feet south. Similar to Alternative 1, a new centerfield taxiway would be constructed, Runway 6R/24L would be extended, Taxiway E and Taxilane D would be modified/improved, and the service road would be relocated. The southward movement of the runway and associated southerly relocation of Taxiway E and Taxilane D would cause the aircraft taxiway operations area to extend farther south than under Alternatives 1, 2, 5, and 6, which, in turn, would result in comparatively less concourse and/or gate area for Terminal 3, potential TBIT extension, and potential MSC extension. There would be no modifications to the Argo Drainage Channel (other than those required under existing

conditions to meet federal RSA requirements) or Lincoln Boulevard under this alternative. The RPZ currently associated with Runway 6L/24R would continue to overlay existing residential uses.

**Findings:** In light of the analysis in the SPAS Final EIR and substantial evidence in the administrative record, the BOAC hereby rejects the airfield and terminal improvements proposed under Alternative 7 as infeasible for the specific economic, legal, social, technological, or other considerations discussed below, including the fact that, as compared to the LAWA Staff-Recommended Alternative, they are not as responsive to meeting the relevant project objectives and will not effectively reduce or avoid the significant effects of the project.

**Rationale:** As indicated in Table 1-2 of the SPAS Draft EIR, which provides an evaluation of the relationship between the project objectives and each of the SPAS alternatives, implementation of Alternative 7 would partially respond to the project objective of providing north airfield improvements that support safe and efficient movement of aircraft at LAX, as compared to the airfield improvements proposed under the LAWA Staff-Recommended Alternative, which includes the Alternative 1 airfield improvements that largely respond to that objective. The analysis supporting those conclusions is provided in Section 4.7.2 of the SPAS Draft EIR.

Additionally, because Alternative 7 would not provide north airfield improvements that support safe and efficient movement of aircraft at LAX to the same extent as Alternative 1, Alternative 7 is less able to respond to the project objective to maintain LAX's position as the premier international gateway in supporting and advancing the economic growth and vitality of the Los Angeles region. As shown in Table 1-2, the ability of each SPAS alternative to maintain LAX's position as the premier international gateway is influenced by the combination of airfield, terminal, and ground transportation system improvements. Both Alternative 7 and the Staff-Recommended Alternative address all airfield hazards. However, as described in Section 4.7.2 of the SPAS Draft EIR, the limited airfield improvements proposed under Alternative 7 provide improvement in standardization of airfield operations, whereas the airfield improvements proposed under the LAWA Staff-Recommended Alternative, which are the same as those proposed under Alternative 1, provide standardization of nearly all airfield operations. A key difference between the two Alternatives is that Alternative 7 fails to standardize operations for all ADG V aircraft during bad weather conditions, and for ADG VI operations during all weather conditions. In addition, Alternative 7 fails to provide significant improvements to arriving pilots' situational awareness, a key feature included in the Staff Recommended Alternative.

Relative to airfield and terminal improvements, the LAWA Staff-Recommended Alternative is largely responsive to the airfield aspect and fully responsive to the terminal aspect, but Alternative 7 is only partially responsive to the airfield aspect although fully responsive to the terminal aspect (i.e., the extent and benefits of airfield improvements under Alternative 7 are not as great as those under the LAWA Staff-Recommended Alternative, and Alternative 7 allows more limited northward extensions of the TBIT concourse and future Midfield Satellite Concourse than the LAWA Staff-Recommended Alternative). Because Alternative 7 focuses on only airfield and terminal improvements, which could be coupled with the ground access improvements of certain other alternatives, its relationship to the ground access aspect of the Staff-Recommended Alternative is not evaluated.

A similar relationship between the Alternative 7 and the Staff-Recommended Alternative exists relative to each alternative's responsiveness to the project objective to enhance safety and security at LAX. As indicated in Table 1-2 of the SPAS Draft EIR, evaluation of the safety aspect of that objective takes into consideration the same airfield performance characteristics described above. As described above, the airfield improvements proposed under Alternative 7 do provide some improvement in standardization of aircraft operations and address all airfield hazards; however, the airfield improvements under the LAWA Staff-Recommended Alternative provide standardization of nearly all airfield operations and address all airfield hazards, which is more supportive of the safety aspect of this objective.

As can be seen in comparing the summaries of impacts by topics for Alternative 7 and for the LAWA Staff-Recommended Alternative presented in Table 1-4 of the SPAS Draft EIR and Table SRA-2.5-1 of Part II of the SPAS Final EIR, respectively, implementation of Alternative 7 would result in significant unavoidable impacts in all of the same environmental topic categories as those of the LAWA Staff-Recommended Alternative. Specifically, both alternatives would result in unavoidable significant impacts related to Air Quality, Greenhouse Gases, Human Health Risk Assessment, Land Use and Planning - Aircraft Noise Exposure, Aircraft Noise, and Construction Traffic and Equipment Noise. Table 1-5 in the SPAS Draft EIR, as amended by the corrections and additions in Chapter 5 of Part II of the SPAS Final EIR, and Table SRA-2.5.2 in Part II of the SPAS Final EIR highlight the fact that the range of construction-related air pollutant emissions and concentrations associated with Alternative 7 would include a level of impact comparable to that of the LAWA Staff-Recommended Alternative. The range of long-term operations-related air quality impacts of Alternative 7 would also be comparable to the level of impact of the LAWA Staff-Recommended Alternative. Thus, implementation of Alternative 7 would not avoid or substantially reduce the significant unavoidable air quality impacts of the LAWA Staff-Recommended Alternative.

Relative to significant unavoidable impacts associated with greenhouse gas (GHG) emission, a comparison of the two tables referenced immediately above indicates that implementation of Alternative 7 achieve a generally similar amount of GHG reduction as that of the LAWA Staff-Recommended Alternative (i.e., 12.99-14.91 percent reduction in GHG emissions for Alternative 7 compared to a 14.73 percent reduction for the LAWA Staff-Recommended Alternative).

With regard to impacts associated with the human health risk assessment, implementation of Alternative 7 would result in a hazard value for acute non-cancer health hazard that is slightly less than that of the LAWA Staff-Recommended Alternative (2.4 Hazard Index versus 3.0 Hazard Index), but would still exceed the threshold of significance (1.0) by 140 percent.

A comparison of the two alternatives relative to significant unavoidable noise impacts indicates no appreciable difference between Alternative 7 and the LAWA Staff-Recommended Alternative. Table 1-5 in the SPAS Draft EIR, as amended by the corrections and additions in Chapter 5 of Part II of the SPAS Final EIR, and Table SRA-2.5.2 in Part II of the SPAS Final EIR highlight the fact that both alternatives would result in significant unavoidable temporary construction noise impacts associated with airfield improvements and construction staging areas.

In comparing the long-term operations-related aircraft noise significant unavoidable impacts of the two alternatives, the extent of impacts under Alternative 7 would be generally comparable to, or slightly more than those of the LAWA Staff-Recommended Alternative. As indicated in the subject tables, the numbers of people and homes new exposed to  $65 \geq$  CNEL are 13,891 and 4,485, respectively, under Alternative 6, and 13,160 and 4,370, respectively, under the LAWA Staff-Recommended Alternative. Thus, implementation of Alternative 7 would not avoid or substantially reduce the significant unavoidable noise impacts of the LAWA Staff-Recommended Alternative.

In light of the fact that Alternative 7 does not have significant environmental advantages over the LAWA Staff-Recommended Alternative and does not meet project objectives to the same extent as the Staff-Recommended Alternative, Alternative 7 is found to be infeasible and is rejected in favor of the Staff-Recommended Alternative.

*Alternative 8:*

Alternative 8, described in detail in Section 2.3.1.8 of the SPAS Draft EIR, focuses on ground access improvements that could be integrated in place of the improvements proposed under Alternatives 1 through 4. This alternative is compatible with the airfield and terminal improvements associated with Alternatives 1, 2, 5, 6, and 7. The distinguishing feature of this alternative is the development of a CONRAC in addition to parking at Manchester Square, and the development of parking at the Avis facility (east of Parking Lot C). All other ground access

aspects of this alternative are comparable to those of Alternatives 1 and 2, with the exception of the realignment of Lincoln Boulevard, which is only associated with the airfield improvement alternatives.

Findings: In light of the analysis in the SPAS Final EIR and substantial evidence in the administrative record, the BOAC selects the ground transportation system improvements proposed under the LAWA Staff-Recommended Alternative over the ground transportation system improvements included under Alternative 8 because the ground transportation system improvements included under Alternative 8 will not substantially reduce or avoid the significant effects of the project and do not provide the operational traffic benefits within the Central Terminal Area that would occur with the LAWA Staff-Recommended Alternative.

Rationale: As can be seen in comparing the summaries of impacts by topics for Alternative 8 and for the LAWA Staff-Recommended Alternative presented in Table 1-4 of the SPAS Draft EIR and Table SRA-2.5-1 of Part II of the SPAS Final EIR, respectively, implementation of Alternative 8 would result in significant unavoidable impacts in all of the same environmental topic categories as those of the LAWA Staff-Recommended Alternative. Specifically, both alternatives would result in unavoidable significant impacts related to Air Quality, Greenhouse Gases, Human Health Risk Assessment, Construction Traffic and Equipment Noise, On-Airport Transportation, and Off-Airport Transportation. Table 1-5 in the SPAS Draft EIR, as amended by the corrections and additions in Chapter 5 of Part II of the SPAS Final EIR, and Table SRA-2.5.2 in Part II of the SPAS Final EIR highlight the fact that the range of construction-related air pollutant emissions and concentrations associated with Alternative 8 is comparable to that of the LAWA Staff-Recommended Alternative. The range of long-term operations-related air quality impacts of Alternative 8 is also comparable to the level of impact of the LAWA Staff-Recommended Alternative. Thus, implementation of Alternative 8 would not avoid or substantially reduce the significant unavoidable air quality impacts of the LAWA Staff-Recommended Alternative.

Relative to significant unavoidable impacts associated with greenhouse gas (GHG) emission, a comparison of the two tables referenced immediately above indicates that implementation of Alternative 8 achieve a generally similar amount of GHG reduction as that of the LAWA Staff-Recommended Alternative (i.e., 14.56-15.36 percent reduction in GHG emissions for Alternative 8 compared to a 14.73 percent reduction for the LAWA Staff-Recommended Alternative).

With regard to impacts associated with the human health risk assessment, implementation of Alternative 8 would result in a hazard value for acute non-cancer health hazard of 3.0, as indicated in Table 4.7.1-7 of the SPAS Draft EIR, which is the same as that of the LAWA Staff-Recommended Alternative (3.0 Hazard Index).

A comparison of the two alternatives relative to significant unavoidable construction-related noise impacts indicates no appreciable difference between Alternative 8 and the LAWA Staff-Recommended Alternative. As evidenced by a review of the two tables referenced immediately above, both alternatives would result in significant unavoidable temporary construction noise impacts associated with ground access improvements and construction staging areas. Thus, implementation of Alternative 8 would not avoid or substantially reduce the significant unavoidable noise impacts of the LAWA Staff-Recommended Alternative.

On-airport traffic impacts related to curbsides, intersections, and roadway links would be slightly greater/worse under Alternative 8 than under Alternative 9 due to the fact that the APM system would reduce the number of vehicle trips occurring within and around the CTA as compared to what would otherwise occur under Alternative 8. The comparative differences in on-airport performance between Alternatives 8 and 9 seen in the tables in Section 4.12.1 of the SPAS Draft EIR, including Tables 4.12.1-16 and 4.12.1-17 for curbside impacts, Tables 4.12.1-18 and 4.12.1-19 for roadway links, and Tables 4.12.1-20 and 4.12.1-21 for intersections, which summarize the impact analysis included in that Section. In light of the fact that Alternative 8 does not avoid or substantially reduce the significant environmental impacts of the LAWA Staff-Recommended Alternative, Alternative 8 is rejected in favor of the Staff-Recommended Alternative.

*Alternative 9:*

Alternative 9, similar to Alternative 8 and described in detail in Section 2.3.1.9 of the SPAS Draft EIR, focuses on ground access improvements that could be integrated in place of the improvements proposed under Alternatives 1 through 4. This alternative is compatible with the airfield and terminal improvements associated with Alternatives 1, 2, 5, 6, and 7. The distinguishing features of this alternative are the development of an APM system, instead of a busway, along 98th Street, and development of a CONRAC in addition to parking at Manchester Square. The APM would be located within an elevated/dedicated corridor on the same alignment as the busway under the other alternatives. Within the CTA, the APM would be located on a new elevated guideway. All other ground access aspects of this alternative are comparable to those of Alternatives 1 and 2, with the exception of the realignment of Lincoln Boulevard, which is only associated with the airfield improvement alternatives.

Findings: In light of the analysis in the SPAS Final EIR and substantial evidence in the administrative record, the BOAC hereby accepts the ground transportation system improvements proposed under Alternative 9 as part of the LAWA Staff-Recommended Alternative.

Rationale: As indicated above in Section I, above, the LAWA Staff-Recommended Alternative includes the ground transportation system improvements proposed under Alternative 9. The ground transportation system improvements of Alternative 9, particularly as related to the CONRAC facility and the APM system, provide numerous benefits. Specifically, the eventual use of the APM system by rental car users will allow LAWA to reassign over 1,000 feet of dedicated curb in the CTA to other uses, thereby diffusing some of the curbside demand that can reduce the level of service on the roadway and curb systems. Development of the ground transportation system improvements proposed under Alternative 9 is also responsive to the numerous public and agency comments received during the public review period for the SPAS Draft EIR requesting that the alternative selected for approval by LAWA include the ground transportation system improvements proposed under Alternative 9 – see comments and responses in Chapter 4 of Part II of the SPAS Final EIR.

**G. Findings on Suggestions Included in Comments on the LAX SPAS Project Draft EIR**

Several comments on the SPAS Draft EIR suggested additional mitigation measures and/or project alternatives, or changes to the mitigation measures and alternatives identified in the Draft EIR. The SPAS Final EIR incorporates some of these mitigation measures, as explained in the responses to comments included in Chapter 4 of Part II of the SPAS Final EIR and included in Chapter 5, Corrections and Additions Related to the SPAS Draft EIR, of Part II of the Final EIR. However, where the suggestions requested minor modifications to already adequate mitigation measures, requested mitigation for impacts that the SPAS Draft EIR determined were less than significant, or requested mitigation for impacts for which the SPAS Draft EIR already identified measures that would reduce the impact to less than significant, these requests were declined for the reasons explained in the responses to comments included in Chapter 4 of Part II of the SPAS Final EIR. The BOAC adopts and incorporates by reference the specific reasons for declining such measures contained in the responses to comments in the SPAS Final EIR as its grounds for rejecting these measures.

Additionally, certain mitigation measures and/or alternatives suggested in comments would be infeasible. The BOAC finds that specific economic, legal, social, technological, or other considerations make infeasible the following mitigation measures or project alternatives identified in the Final EIR, for the reasons explained below and in response to comments in the SPAS Final EIR.

- ◆ Several comments on the SPAS Draft EIR suggested that regionalization of air travel demand in Southern California should have been included, and addressed, as a SPAS alternative in the Draft EIR. For the reasons discussed in Topical Response TR-SPAS-REG-1 (Section 4.3 of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and

specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, under the Airport Noise and Capacity Act of 1990 (commonly called "ANCA"), and its implementing regulations (14 C.F.R. Part 161), LAWA cannot force passengers or airlines to utilize one airport over the other. More specifically, federal law prohibits an airport proprietor from unilaterally imposing any restrictions on "access" to an airport by Stage 3 aircraft. Following the phase-out of most noisy Stage 2 aircraft during the 1990s, Stage 3 aircraft comprise essentially all commercial aircraft landing at any U.S. airport. Any Stage 3 restriction is subject to review and approval by the FAA based on strict regulatory criteria that limit the ability to implement any such measures. The FAA strongly discourages any operational limits imposed under Part 161 and prefers and promotes permanent solutions to operational concerns and inefficiencies through capacity improvements. Further, the federal Airline Deregulation Act of 1978 expressly preempted the ability of airport proprietors to control the "price, route or service of an air carrier." (49 USC Section 41713(b)(1).) The United States Supreme Court has interpreted this prohibition broadly to mean that airports "may not seek to impose their own public policies or theories of . . . regulation on the operations of an air carrier." (*Morales v. Trans World Airlines, Inc.* (1992) 504 US 374, 384.) For this reason, an alternative that would have required passengers or airlines to utilize another airport, even one managed by LAWA, is legally infeasible.

- ◆ Comment SPAS-AR00002-7 on the SPAS Draft EIR suggested that LAWA "Encourage or incentivize airlines to route the cleanest aircraft engines to serve the South Coast Air Basin." For the reasons discussed in Response to Comment SPAS-AR00002-7 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, as noted in Appendix IV-B of the Revised Draft 2012 Air Quality Management Plan developed by the South Coast Air Quality Management District,<sup>1</sup> state and local aircraft emission regulation is preempted by the Clean Air Act which gives that authority to the U.S. Environmental Protection Agency (USEPA) in consultation with the Federal Aviation Administration (FAA). New engine emission standards for nitrogen oxides (NOx) were recently adopted by the USEPA,<sup>2</sup> making the federal standards consistent with international aircraft engine emission standards. The new, Tier 6 NOx standard applies to newly certified engines after July 18, 2012, and represents a 12 percent reduction compared to the current, Tier 4 NOx standard. In addition, the future Tier 8 NOx standard will apply to newly certified engines in 2014. The Tier 8 standard is approximately 15 percent lower (more stringent) than the Tier 6 standard. The airline industry balances a number of constraints when routing aircraft to various cities across the country. The industry's biggest cost today is that of fuel. Because fuel cost is such a major factor in the decision-making made by airlines when making routing decisions, LAWA cannot develop an incentive policy that would effectively change those decisions to bring cleaner aircraft to LAX. However, LAWA will continue to encourage the routing of newer aircraft to LAX and other Southern California airports through its ongoing coordination with its tenants.

<sup>1</sup> South Coast Air Quality Management District. 2012. Revised Draft 2012 Air Quality Management Plan, Appendix IV-B, Control Measure No. ADV-07 (September).

<sup>2</sup> U.S. Environmental Protection Agency. 2012. Control of Air Pollution from Aircraft and Aircraft Engines; Emission Standards and Test Procedures. Final Rule. 77 FR 36341 (June 18).

- ◆ Comment SPAS-AR00002-8 on the SPAS Draft EIR suggested the installation and use of solar panels for energy. For the reasons discussed in Response to Comment SPAS-AR00002-8 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, LAWA will consider solar energy options in the project planning and design phases of any approved SPAS alternative. However, space at LAX is limited for construction of solar energy systems in a manner that does not conflict with airport operations. The general design of any solar energy systems would be addressed

in the project-level CEQA documents that will be developed to implement the programmatic SPAS alternatives.

Solar energy includes both passive (solar lighting) and active (solar panels) systems and designs. Typically, large areas are needed to install solar panels in sufficient quantity to offset the cost of installation in a reasonable time. One of the largest airports in the U.S. that operates a solar system is Denver International, which has large areas within its property line that can accommodate large solar panel arrays. Space for a solar energy system at LAX, which is in the middle of urban Los Angeles, is substantially more limited than at Denver International Airport and the effectiveness of a such system on a smaller scale is uncertain. Approximately 30 acres of space is required for solar photovoltaic panels to generate 9 MW of power. Additionally, solar energy systems at airports have been known to result in operational issues. For example, a recent solar panel installation at the Manchester-Boston Regional Airport in New Hampshire had approximately 25 percent of its panels covered with tarps to eliminate the glare in the air traffic control tower.<sup>1</sup>

LAWA will also consider passive solar design, the use of sunlight to light rooms in the daytime, in the project planning and design phases of any approved SPAS alternative. As noted above, LAWA must now comply with the Los Angeles Green Building Code,<sup>2</sup> approved in 2010. As part of LAWA's new Sustainability Guidelines, a Standard of Tier 1 has been set for all on-airport building projects with a Los Angeles Department of Building and Safety permit-valuation over \$200,000. The design criteria for passive solar lighting is located in Section A5.507.2. In summary, building designs should incorporate daylight spaces for toplighting and sidelighting indicated in the California Energy Code.

<sup>1</sup> Hayward, M., Airport controllers complain of solar panels' glare, New Hampshire Union Leader, 2012.

<sup>2</sup> City of Los Angeles, Ordinance No. 181480 An ordinance amending Chapter IX of the Los Angeles Municipal Code by adding a new Article 9 to incorporate various provisions of the 2010 California Green Building Standards Code (CALGreen Code), approved December 15, 2010.

- ◆ Comment SPAS-AR00002-30 on the SPAS Draft EIR suggested that LAWA "Require diesel particulate filters on all diesel-fueled emergency generators." For the reasons discussed in Response to Comment SPAS-AR00002-30 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the installation of diesel particulate filters on emergency power generators is not feasible. The cost effectiveness of such a measure is likely to be high given the minimal amount of emissions associated with emergency generators. However, because these generators are stationary sources, subject to SCAQMD rules and regulations, any regulations requiring the installation of filters on emergency power generators will be complied with by LAWA.
- ◆ Comments SPAS-AL00001-1 and SPAS-AL00007-34 on the SPAS Draft EIR suggested that LAWA contribute towards the SR90 Connector Road to Admiralty Way project to mitigate the significant impact of Alternatives 1-2, 4, 8, and 9 to the intersection of Lincoln Boulevard and Washington Boulevard since "Admiralty Way serves as a "relief valve" to Lincoln Boulevard when it reaches capacity." For the reasons discussed in Response to Comment SPAS-AL00001-1 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, while the traffic impact analysis was being prepared for the SPAS Draft EIR, Los Angeles County Department of Beaches and Harbors was contacted to determine the status of the extension of SR-90 and whether it was a reasonably foreseeable project that should be included in the cumulative 2025 without alternative scenario (page 4-1208 of the SPAS Draft EIR). The extension of SR-90 has been discussed for many years but has been controversial due to the need for property acquisition and other issues. The necessary approvals from Caltrans and the City of Los Angeles have not been obtained, and it is not included in the RTP, STIP or Metro's LRDP. Thus, after

consultation with Los Angeles County, the project was determined not to be reasonably foreseeable within the 2025 timeframe of the SPAS project and was not included in the cumulative scenario or as a feasible mitigation measure. It would therefore be inappropriate to offer a contribution toward its implementation, particularly in light of the additional complications and restrictions that LAWA is subject to under federal law regarding the use of airport funds. Simply contributing funds toward an unspecified future improvement would not constitute mitigation under CEQA, since there is currently no mechanism to ensure that any specific improvements addressing the specific impacts are made. As discussed in *Anderson First Coalition v. City of Anderson* (2005) 130 Cal.App. 4th 1173 and *Carson Coalition for Healthy Families v. City of Carson* (2007) 2007 WL 3408624 at page 18 [unpublished], without an actual plan and a commitment, a fair-share fee is not an adequate mitigation measure. The statement that the Costco project paid Culver City for this improvement to mitigate its traffic impact, and the fact that the Costco store has been in operation for well over a decade, suggests that its traffic impacts remain unmitigated.

- ◆ Comment SPAS-AL00004-5 on the SPAS Draft EIR suggested that LAWA commit, as either a mitigation measure or an extension of the Stipulated Settlement, to allowing designated representatives of the City of El Segundo the right to conduct, no more than four times per year, physical inspections at LAX to confirm the number of passenger gates in use beyond the year 2020, which is the current date for expiration of the gate count provisions set forth in Section IV.F of the Stipulated Settlement. The comment also requests that LAWA produce a gate position report for the public at least annually, as well as reports tied to approval/implementation of those Master Plan elements that include/impact passenger gates through 2020 and beyond. For the reasons discussed in Response to Comment SPAS-AL00004-5 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and therefore, LAWA is not required to consider it in connection with the SPAS CEQA process. As LAWA proceeds to implement any approved SPAS alternative, it would do so in compliance with all approvals issued, which limit the number of gates at LAX to 153. Note that in addition to limiting the gate count to 153, the SPAS project includes an amendment to Section 7.H of the Specific Plan (applicable to all alternatives, including the existing LAX Master Plan) that would provide opportunities for adjustments if LAX reaches 75 or 78.9 MAP earlier than expected. This amendment, set forth in detail in Chapter 7 of the Preliminary LAX SPAS Report, would address potential variations in passenger projections over time, first by requiring action to encourage further shifts in passenger and airline activity to other regional airports if the annual aviation activity analysis forecasts that the annual passengers for that year at LAX are anticipated to exceed 75 MAP, and, second, by requiring a Specific Plan Amendment Study if the annual aviation activity analysis forecasts that LAX annual passengers for that year are anticipated to exceed 79.9 MAP. Therefore, it is not necessary under CEQA to implement the measures suggested in the comment.
- ◆ Comment SPAS-AL00004-6 on the SPAS Draft EIR suggested that LAWA commit, as a mitigation measure, to produce a gate position report for the public at least annually, as well as reports tied to approval/implementation of those Master Plan elements that include/impact passenger gates. For the reasons discussed in Response to Comment SPAS-AL00004-6 (Section 4.3 of Part II of the SPAS Final EIR), the measure would not reduce or avoid impacts of the project, and therefore, LAWA is not required to consider it in connection with the SPAS CEQA process. As LAWA proceeds to implement the LAX Master Plan, it would do so in compliance with all approvals issued, including FAA approvals, all of which would limit the number of gates at LAX to 153. The gate configurations would be consistent with those depicted in Figures A through D in Attachment A to Appendix F-1 of the Preliminary LAX SPAS Report. It is not necessary to take additional steps to verify consistency with the 153 gate count on an annual basis.

- ◆ Comment SPAS-AL00004-8 on the SPAS Draft EIR suggested that LAWA include the language proposed by the commentor to require a Specific Plan Amendment Study if annual passengers are anticipated to exceed 75 million and to require that LAWA complete such study "prior to commencing construction of any Master Plan Project that is not already under construction when this obligation to commence a SPAS is triggered". For the reasons discussed in Response to Comment SPAS-AL00004-8 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, LAWA cannot be prohibited from implementing LAX Master Plan projects simply because traffic generation, aviation activity, or passenger activity levels increase to certain levels. LAWA's control over these activities is extremely limited. Under FAA rules, LAWA may not restrict access to the airport and may not impose any "cap" on aircraft operations, nor regulate or legally control in any way what operations the airlines might wish to undertake at any particular airport.<sup>1</sup> Prohibiting implementation of LAX Master Plan projects if traffic generation, aviation activity, or passenger activity levels increase to certain levels until another Specific Plan Amendment Study is complete would unnecessarily limit improvement and modernization of LAX without guaranteeing identification of any factor over which LAWA has control beyond the gate provisions (i.e., no more than 153 gates) already included in all of the SPAS alternatives. By designing all of the SPAS alternatives with no more than 153 gates, in combination with the amendment proposed in the Preliminary LAX SPAS Report to Section 7.H of the LAX Specific Plan, LAWA has identified Specific Plan amendments that plan for modernization and improvement of LAX in a manner that is designed for a practical capacity of 78.9 MAP, as required by the Stipulated Settlement. Amending the Specific Plan as recommended by the commentor is not feasible and would not reduce any significant impacts of the SPAS alternatives.

<sup>1</sup> Under the Airport Noise and Capacity Act of 1990 (commonly called "ANCA") (49 USC Sections 47521-33), and its implementing regulations (14 C.F.R. Part 161), federal law prohibits an airport proprietor from unilaterally imposing any restrictions on "access" to the airport by Stage 3 aircraft. Following the phase-out of most noisy Stage 2 aircraft during the 1990s, Stage 3 aircraft comprise essentially all commercial aircraft landing at any U.S. airport. Any Stage 3 restriction is subject to review and approval by the FAA. The FAA strongly discourages any operational limits imposed under Part 161 and prefers and promotes permanent solutions to operational concerns and inefficiencies through capacity improvements. Further, the federal Airline Deregulation Act of 1978 expressly preempted the ability of airport proprietors to control the "price, route or service of an air carrier." (49 USC Section 41713(b)(1)). The United States Supreme Court has interpreted this prohibition broadly to mean that airports "may not seek to impose their own public policies or theories of . . . regulation on the operations of an air carrier." (*Morales v. Trans World Airlines, Inc.* (1992) 504 US 374, 384.)

- ◆ Comment SPAS-AL00004-26 on the SPAS Draft EIR suggested that "Extending the [Stipulated] Settlement is thus a feasible mitigation measure (or, rather, a feasible improvement to an existing measure) that will help reduce the Project's [aircraft noise] impacts." For the reasons discussed in Response to Comment SPAS-AL00004-26 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, LAWA will continue to implement its Aircraft Noise Mitigation Program (ANMP), with the assistance of the affected jurisdictions, and shall update the entire ANMP from time to time to ensure it reasonably represents the mitigation and funding programs that are in place, being implemented, or proposed for future implementation. In addition, LAWA is committed to implementing the mitigation measures described in the SPAS Draft EIR, including the ANMP, and the LAX Master Plan Commitments and Mitigation Measures described in SPAS Draft EIR Sections 4.9.3.3 and 4.10.1.5. The ANMP described in SPAS Draft EIR Section 4.9.3.3 is being implemented pursuant to California Code of Regulations, Title 21, Subchapter 6, Section 5000 et seq. Other programs such as the LAX Master Plan Commitments and Mitigation Measures are being implemented consistent with the mitigation monitoring and reporting program (MMRP)

adopted for the LAX Master Plan (see CEQA Guidelines Section 15097; see also Board Resolution No. 21481.) The Stipulated Settlement further notes that "This funding cap under this Settlement will not affect the ability of each jurisdiction to demonstrate its ability to effectively use additional ANMP funding. LAWA will consider each of these requests on a case-by-case basis through the existing ANMP process." (Stipulated Settlement, Section VI and Exhibit A.) The suggestion in the comment would therefore be repetitive of existing requirements and would not reduce or avoid a significant impact.

- ◆ Comment SPAS-AL00007-33 on the SPAS Draft EIR suggested that the City of Los Angeles should be responsible for the installation of traffic signals at the intersections of Overland Avenue and Sawtelle Boulevard (study intersection 154) and Washington Boulevard and Walgrove Avenue (study intersection 156). As discussed in this comment, Culver City has complete jurisdiction over these intersections (i.e., there is no shared jurisdiction with the City of Los Angeles, as shown in Table 4.12.2-11), and implementation of any improvements at these locations can only be implemented by Culver City. Culver City Municipal Code ("CCMC") § 7.02.010 provides "the City Engineer is authorized to regulate the timing of traffic signals so as to permit the movement of traffic in an orderly and safe manner...and shall erect appropriate signs giving notice thereof." Similarly, CCMC § 7.02.015 provides "[u]pon the request of the City Engineer, the Public Works Director is authorized to place official traffic control devices within or adjacent to intersections..." Similar restrictions are provided for the marking of crosswalks (CCMC § 7.02.055), and pavement (CCMC § 7.02.040). All of which would be required for the signalization of these intersections. Violations of these provisions can result in an infraction (CCMC § 7.02.220) or even a misdemeanor (CCMC § 7.02.040). Furthermore, LAWA is not a property owner at these intersections and cannot apply for permits associated with such signalization. (See CCMC § 17.500.015.) For all of the reasons described in this paragraph, LAWA cannot legally be "responsible for the installation of traffic signals" at these intersections.

The comment also suggests that the City of Los Angeles should be responsible for the installation of traffic signals at the intersections of Overland Avenue and Sawtelle Boulevard (study intersection 154) and Washington Boulevard and Walgrove Avenue (study intersection 156). Based on application of the thresholds of significance and the analytical techniques described above, the SPAS off-airport transportation impacts analysis in Section 4.12.2 of the SPAS Draft EIR found that both of these unsignalized intersections would be significantly and unavoidably impacted under all SPAS alternatives. The City of Culver City has ownership of these intersections and implementation of any improvements at these locations would be implemented by Culver City. As stated on pages 4-1304 through 4-1305 of the SPAS Draft EIR, relative to the installation of a traffic signal at Washington Boulevard and Walgrove Avenue, "given the close proximity to upstream/downstream signals, may not be acceptable to Culver City." As stated on page 4-1304 of the SPAS Draft EIR, relative to Overland Avenue and Sawtelle Boulevard, "If installation of the signal becomes feasible, LAWA would provide a fair share contribution, subject to FAA approval, to this improvement, which would fully mitigate the project impact at this location."

- ◆ Comment SPAS-AL00007-46 on the SPAS Draft EIR suggested that development of traffic mitigation measures should take into consideration the "actual" traffic patterns in the surrounding communities. The comment also urged LAWA to consider additional freeway off-ramps as potential mitigation measures. For the reasons discussed in Response to Comment SPAS-AL00007-46 (Section 4.3 of Part II of the SPAS Final EIR), the suggestions would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the Los Angeles' travel demand forecasting model, described in Response to Comment SPAS-AL00007-45, was calibrated and validated for use in the SPAS Draft EIR analysis, and included both static and dynamic validation procedures to ensure that it is appropriate for SPAS. The LAX Master Plan proposed to develop a new freeway interchange on I-405 at Lennox Avenue. A new interchange on I-405 at Lennox Avenue would have the effect of redistributing traffic locally

but was not considered to be an effective mitigation measure for SPAS because it would not directly serve the most substantial traffic generating elements of the SPAS alternatives. In order for vehicles to effectively access the airport area through a new interchange (at Lennox Avenue), additional I-405 mainline improvements would be necessary. Given the congestion levels forecast in 2025, drivers are expected to look for alternate freeway and highway routes to minimize travel times. Therefore, the airport traffic-related impacts on major roadway facilities approaching the airport area with the addition of a new interchange on I-405 at Lennox Avenue are not expected to be less than those projected in the SPAS Draft EIR. Based on the above, without major additional mainline improvements, the Lennox Interchange is not considered under CEQA to be an effective mitigation measure in Section 4.12.2 of the SPAS Draft EIR. Regarding the comment on the freeway access to Manchester Square, the SPAS Alternatives 1, 2, 8, and 9 provide direct access from the I-405 Freeway southbound off-ramp to Manchester Square and take traffic off the I-405 Freeway.

- ◆ Comment SPAS-AL00008-34 on the SPAS Draft EIR suggested that the addition of a second southbound left-turn lane (which would mitigate the project impact at the intersection of La Tijera Boulevard & Centinela Avenue [Intersection 27]) is physically feasible. For the reasons discussed in Response to Comment SPAS-AL00008-34 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, this potential mitigation measure at this intersection was evaluated but was determined to be infeasible. (See SPAS Draft EIR, Section 4.12.2.7.1 ["Identification and Evaluation of Mitigation Measures."], page 4-1293.) The mitigation measure considered at this location was the addition of a second southbound left-turn lane, which would align with the dual northbound left-turn lanes. Implementation of this measure would require narrowing the sidewalk on the northbound departure of the intersection, where a bus stop and shelter are located. Because the sidewalk there is only approximately ten feet wide and includes existing transit infrastructure, it was determined that the sidewalk there could not feasibly be narrowed while maintaining the current level of pedestrian safety and if implemented would result in secondary impacts to alternative modes of transportation (pedestrian access and transit stop access).
- ◆ Comment SPAS-AL00008-35 on the SPAS Draft EIR suggested that the intersection of La Cienega Boulevard and Century Boulevard (Intersection 36) "is a critical location as far as airport accessibility is concerned. Right-of-way is constrained by large office buildings on the northeast and southwest corners, which are not constrained by buildings and where consideration should be given to opportunities presented by right-of-way acquisition from these parts of the intersection. The Cities of Inglewood and Los Angeles share this intersection." For the reasons discussed in Response to Comment SPAS-AL00008-35 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the commentor correctly notes that large office buildings constrain the ability to widen the eastbound and westbound approaches on Century Boulevard. The wording in the remainder of the comment is unclear. To the extent the commentor is suggesting right-of-way acquisition, the commentor's suggestion is considered infeasible for the reasons discussed on page 4-1294 of the SPAS Draft EIR. As discussed therein, removal of existing businesses, including two high-rise commercial buildings with multiple tenants and two gas stations, is considered economically infeasible, socially infeasible, infeasible based upon policy considerations, and infeasible due to inconsistency with the project objectives (i.e., inconsistent with the objective of advancing "economic growth and vitality of the Los Angeles region.") The physical improvement would also create secondary environmental impacts associated with demolition and construction, such as noise and air quality, and therefore is considered infeasible.
- ◆ Comment SPAS-AL00008-36 on the SPAS Draft EIR suggested that the intersection of Hawthorn Boulevard and Lennox Boulevard (Intersection 63) "has some physical constraints,

- but could potentially be improved with the removal of the north-south median, restriping with minor sidewalk adjustments, and lane width reductions. The potential for such improvements should be the subject of a more detailed evaluation, recognizing that the projected LOS D could be considered acceptable by the City." For the reasons discussed in Response to Comment SPAS-AL00008-36 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, potential mitigation was evaluated at Intersection 63 but was determined to be infeasible. (See SPAS Draft EIR, Section 4.12.2.7.1 ["Identification and Evaluation of Mitigation Measures."]) As noted therein, there are existing right-of-way constraints, and the mitigation measure would require the removal of existing one-story commercial businesses on Hawthorne Boulevard, including a car wash, a restaurant and a retail store. The intersection modifications cited in the comment were considered when mitigation options at this location were being evaluated. The existing curb lanes are currently just wide enough to allow drivers in the northbound and southbound curb lanes to pass buses at the far-side bus stops that are present in both directions. If the curb lanes were narrowed, the resulting lane widths would no longer allow drivers to readily pass by stopped buses and result in operational problems thereby increasing traffic impacts and creating safety problems, making the suggestion infeasible. Also, based on consultation between LAWA and Los Angeles County staff during the meetings that took place on December 10, 2012 and on December 18, 2012 the addition of a southbound travel lane would require the prohibition of on-street parking, which is considered by the County to be infeasible at this location due to the partial reliance of businesses in this commercial district upon street parking. Removal of the median would also create secondary environmental impacts associated with demolition and construction, such as noise, air quality, etc., and is therefore considered infeasible. Further, median landscaping and beautification improvements were made in 2012 on the segment of Hawthorne Boulevard from 104th Street to 111th Street, which includes the intersection with Lennox Avenue, and removal of the median would reduce the value of the recent investment in that corridor.
- ◆ Comment SPAS-AL00008-37 on the SPAS Draft EIR suggested that at the intersection of Inglewood Avenue and Lennox Boulevard (Intersection 76) "[i]mprovements as noted in the SPAS are physically feasible at this location, but would result in the loss of on-street parking. Since the projected performance is LOS D, these improvements are recommended if the high project contribution to this location is of concern (as determined through communications between the City and the County)." For the reasons discussed in Response to Comment SPAS-AL00008-37 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the loss of parking and potential narrowing of sidewalks on Inglewood Avenue at this location were considered when mitigation options were developed for this location but were rejected as infeasible because the sidewalk there could not feasibly be narrowed while maintaining the current level of pedestrian safety and convenience and this location is densely developed with residential and commercial uses that rely, in part, on on-street parking, thereby resulting in economic infeasibility, social infeasibility, policy infeasibility, and infeasibility based upon inconsistency with the project objectives (i.e., such a suggestion would not "Advance[ing] the Economic Growth and Vitality of the Los Angeles Region"; Section 1.2.1 of the SPAS Draft EIR). This finding was discussed further with Los Angeles County staff during meetings that took place on December 10, 2012 and on December 18, 2012, prior to the completion of the SPAS Final EIR and concurrence was reached that a lack of right-of-way and the presence of on-street parking preclude the ability to physically mitigate the significant impact at this intersection. As discussed on page 4-1288 of the SPAS Draft EIR, the physical improvements suggested by the commentor are considered infeasible because they would result in impacts to alternative modes of transportation (narrowing of existing sidewalk on Inglewood Avenue).

- ◆ Comment SPAS-AL00008-38 on the SPAS Draft EIR suggested that the five-legged intersection of La Brea Avenue/Overhill Drive and Stocker Street (Intersection 86) "is projected to operate at LOS F. An identified mitigation measure is to add a southbound through lane, which would require sidewalk modifications and potentially some right-of-way. Since this intersection is adjacent to open space, the feasibility of such an improvement should be evaluated to determine the extent of constraints to obtaining additional right-of-way." For the reasons discussed in Response to Comment SPAS-AL00008-38 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the comment references a potential mitigation for intersection 86 which was determined to be infeasible on page 4-1298 of the SPAS Draft EIR. The comment appears to be referring to the second infeasible mitigation measure discussed in the fourth sentence of page 4-1298 under Intersection 86. (See Section 4.12.2.7.1, Identification and Evaluation of Mitigation Measures, of the SPAS Draft EIR.) As discussed on page 4-1298 of the SPAS Draft EIR, to fully mitigate the impact at this location would require the provision of a southbound through lane, which is not feasible within the existing right-of-way and would require narrowing sidewalks on La Brea Avenue south of Stocker Street. Because the sidewalk there is only approximately seven feet wide, it was determined that the sidewalk there could not feasibly be narrowed while maintaining the current level of pedestrian safety and if implemented would result in secondary impacts to alternative modes of transportation (pedestrian access). Acquisition of additional right-of-way would require removal of existing one-story commercial and motel businesses on the west side of La Brea Avenue, which is considered economically infeasible, socially infeasible, infeasible based upon policy considerations, and infeasible due to inconsistency with the project objectives (i.e., inconsistent with the objective of advancing "economic growth and vitality of the Los Angeles region.") The physical improvement would also create secondary environmental impacts associated with demolition and construction, such as noise, air quality, etc., and therefore is considered infeasible.
- ◆ Comment SPAS-AL00008-39 on the SPAS Draft EIR suggested that at the intersection of La Cienega Boulevard and Stocker Street (Intersection 93) "[t]he DEIR declared improvements at this location as infeasible due to right-of-way constraints, even though there are no buildings in the vicinity. A recent SCAG study is referenced, indicating potential project participation in future improvements if and when something is identified; this should be pursued with a projected LOS F, with possibly some initial improvements identified." For the reasons discussed in Response to Comment SPAS-AL00008-39 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the comment restates the discussion of a potential mitigation measure at La Cienega Boulevard and Stocker Street (study intersection 93) on page 4-1299 of the SPAS Draft EIR, a fair-share contribution to a grade separation should it be found feasible and should the FAA approve of a contribution by LAWA, and suggests that unspecified lesser improvements in the near term may be possible. This finding was discussed further with Los Angeles County staff during meetings that took place on December 10, 2012 and on December 18, 2012, prior to the completion of the SPAS Final EIR and concurrence was reached that no short-term physical mitigation measures are feasible at this location and the proposed fair-share contribution to the grade-separation, subject to FAA approval, as stated on page 4-1299 of the SPAS Draft EIR, remains feasible to fully mitigate the project impact at this location.
- ◆ Comment SPAS-AL00008-40 on the SPAS Draft EIR suggested that at the intersection of La Cienega Boulevard and W. 120th Street (Intersection 95) "[w]hile a potentially feasible mitigation measure is identified for this location (may require some right-of-way or sidewalk adjustment), the LOS D that is forecast may be considered acceptable." For the reasons discussed in Response to Comment SPAS-AL00008-40 (Section 4.3 of Part II of the SPAS

- Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the comment states that the County considers the mitigation measure discussed for the impact at the intersection of La Cienega Boulevard and 120th Street (study intersection 95), the addition of a second southbound left-turn lane, to be potentially feasible. The comment notes, however, that the projected future operation LOS D may be considered acceptable. This intersection is within the jurisdiction of the County of Los Angeles, in the community of Del Aire. The SPAS Draft EIR concluded that the right-of-way acquisition that would be required rendered it infeasible due to economic and policy considerations. Please see pages 4-1299 and 4-1230 in Section 4.12.2.7.1 of the SPAS Draft EIR, to fully mitigate the impact at this location would require the provision of a southbound left-turn lane, which is not feasible within the existing right-of-way. This would require removal of existing one-story office and commercial buildings with multiple tenants on the east side of La Cienega Boulevard, and is considered economically infeasible, socially infeasible, infeasible based upon policy considerations, and infeasible due to inconsistency with the project objectives (i.e., inconsistent with the objective of advancing "economic growth and vitality of the Los Angeles region.") The physical improvement would also create secondary environmental impacts associated with demolition and construction, such as noise, air quality, etc., and therefore is considered infeasible.
- ◆ Comment SPAS-AL00008-41 on the SPAS Draft EIR suggested that at the intersection of Ocean Avenue/Via Marina and Washington Boulevard (Intersection 41) "[because of the physical constraints, the finding of "economic and policy infeasibility" would appear to be realistic. Mitigation would require some form of system approach for the Marina Del Rey area, with potential participation by the project." For the reasons discussed in Response to Comment SPAS-AL00008-41 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the comment states agreement with the finding of the SPAS Draft EIR that no mitigation is feasible for the intersection of Ocean Avenue/Via Marina and Washington Boulevard (study intersection 119) but suggests that LAWA should consider contributing to transportation improvements elsewhere in the Marina del Rey area. See also Response to Comment SPAS-AL00001-1 regarding unspecified transportation funding. The comment does not provide any specific information regarding the "system approach"; therefore, it is not possible to provide a more detailed response.
  - ◆ Comment SPAS-AL00008-42 on the SPAS Draft EIR suggested that at the intersection of Western Avenue and Imperial Highway (Intersection 173) "[t]he improvement identified at this location (addition of a separate eastbound right-turn lane) has the potential for a functional right turn lane, which may require some restriping and minor sidewalk adjustment. This improvement could be pursued as a means of alleviating the projected LOS E." For the reasons discussed in Response to Comment SPAS-AL00008-42 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the comment states that it may be feasible to implement the mitigation concept described for the intersection of Western Avenue and Imperial Highway (study intersection 173), the provision of additional eastbound capacity. The commentor's suggestion is different from the measure evaluated on page 4-1306 of the SPAS Draft EIR. The SPAS Draft EIR analysis assessed the potential to provide a separate eastbound right-turn lane, which would require additional right-of-way acquisition on the private property occupied by a one-story restaurant on the southwest corner of this intersection, and concluded that economic, policy, and environmental reasons made the acquisition of right-of-way infeasible. The comment suggests that roadway restriping and sidewalk narrowing could provide a narrower functional right-turn lane, instead of a standard full right-turn lane. Because the sidewalk there is only approximately 12 feet wide, it was determined that the

- sidewalk there could not feasibly be narrowed while maintaining the current level of pedestrian safety and if implemented would result in secondary impacts to alternative modes of transportation (pedestrian access). The location of this intersection is adjacent to other commercial buildings, a residential neighborhood, and a community college, each of which generates pedestrian activity. Therefore, the commentor's suggestion is considered economically infeasible, socially infeasible, infeasible based upon policy considerations, and infeasible due to inconsistency with the project objectives (i.e., inconsistent with the objective of advancing "economic growth and vitality of the Los Angeles region").
- ◆ Comment SPAS-AL00008-47 on the SPAS Draft EIR suggested that "[e]nvironmental justice requires consideration of balanced airfield operations to reduce noise impacts on the community of Lennox. As part of the Draft and Final EIR, LAWA should guarantee a semi-equal balance of north/south runway selection similar to a mitigation measure for airfield operations as a means of protecting Lennox and other unincorporated communities from even greater noise impacts. This recommendation is reinforced by the issue of environmental justice: almost 90% percent of the Lennox community, which is the only residential neighborhood around LAX having some homes within the 75 dB CNEL noise contour, is a predominantly minority community and is the most heavily impacted. It is the only community with an additional school potentially noise-impacted above baseline conditions for most SPAS alternatives. Noise protection for this community should be a priority item consistent with LAWA's commitments in the Settlement Agreement. The Draft EIR should identify noise protection for Lennox as a priority consistent with LAWA's commitments in the Settlement Agreement, as well as CEQA's requirements for lead agencies to consider whether environmental and public health burdens associated with a project might disproportionately impact certain communities." For the reasons discussed in Response to Comment SPAS-AL00008-47 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the assignment of aircraft to either the north airfield or the south airfield is at the discretion of the FAA air traffic control tower, consistent with the procedures and responsibilities set forth for air traffic controllers in FAA Order 7110.65, and is not within the jurisdiction or ability of LAWA. However, as described in Section 2.2 of the SPAS Draft EIR, one of the project objectives pertaining to the north airfield improvements is to lengthen the primary departure runway (Runway 6R/24L), which is currently too short for certain large aircraft (e.g., fully-loaded Boeing 747-400) on long-haul flights. Alternative 1, 2, 3, 5, 6, and 7 include a 1,250+ foot easterly extension of Runway 6R/24L, which can support a better balance between the north airfield and south airfield relative to operations of large heavy aircraft. As described in Section 4.9.3.3 of the SPAS Draft EIR, LAWA has an extensive aircraft noise mitigation program (ANMP), which includes homes that are subject to aircraft noise levels of 65 CNEL and above. In conjunction with the ANMP, LAWA supports the soundproofing of homes impacted by aircraft noise through provisions of the LAX Master Plan Community Benefits Agreement (Section III) and the LAX Master Plan Stipulated Settlement (Exhibit A – Additional Mitigation Measure A). Both the Community Benefits Agreement and the Stipulated Settlement specifically identify the County of Los Angeles, within which Lennox is located, as a recipient of residential soundproofing funds and other aircraft noise mitigation provisions from LAWA. None of the SPAS alternatives negate or diminish those existing commitments. As indicated in Section 4.10.1 of the SPAS Draft EIR, Jefferson Elementary School, which is located in Lennox, would be significantly impacted by aircraft noise for future (2025) conditions compared to baseline (2009) conditions. This impact would occur under any and all of the alternatives for airfield improvements (i.e., Alternatives 1 through 7), irrespective of whether there is a northward runway move (Alternatives 1, 5, and 6), a southward runway move (Alternatives 3 and 7), or no runway move (Alternatives 2 and 4). However, Jefferson Elementary School, along with other schools within the Lennox School District, is specifically included in Exhibit A of the Settlement Agreement entered into between

- LAWA and the Lennox School District in February 2005, which provides for the soundproofing of school facilities. Also, CEQA does not require an EIR to include an environmental justice analysis. CEQA is concerned with physical impacts on the environment, such as whether and where the SPAS alternatives increase noise levels. It is not concerned with the social or economic status of the affected communities, or whether low income or minority communities are disproportionately affected by noise impacts. "Economic and social changes resulting from a project shall not be treated as significant effects on the environment." (State CEQA Guidelines Section 15131(a).) "[T]he question under CEQA is whether a project will affect the environment of persons in general, not whether a project will affect particular persons." (Eureka Citizens for Responsible Government v. City of Eureka (2007) 147 Cal.App.4th 357, 377.)
- ◆ Comment SPAS-AL00008-50 on the SPAS Draft EIR suggested that "[t]he air quality mitigation plan should eliminate outdated mitigation measures and include state-of-the-art commitments, including use of a specified percentage of low emissions engines in heavy equipment to reduce off-site migration of ozone precursors and carcinogenic diesel particulate matter." For the reasons discussed in Response to Comment SPAS-AL00008-50 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. The mitigation measures that were applied to the SPAS alternatives are summarized in Section 4.2.5 of the SPAS Draft EIR. These measures included 17 mitigation actions that will be applied to construction activities and an additional 17 mitigation actions that will be applied to operational sources. The EIR also identified mitigation measures specifically for SPAS, including one that specifically limits emissions from heavy construction equipment. As discussed Section 2.3.2.2 and Chapter 5 of Part II of the Final EIR, under MM-AQ (SPAS)-1, LAWA will expand the LAX Master Plan for Air Quality Construction-Related Mitigation Measures to require, among other things, that prior to January 1, 2015, all off-road diesel-powered construction equipment greater than 50 horsepower shall meet USEPA Tier 3 off-road emissions standards. After December 31, 2014, all off-road diesel-powered construction equipment greater than 50 horsepower must meet USEPA Tier 4 off-road emissions standards. In light of MM-AQ (SPAS)-1, Where recent federal, state, or local air quality regulations have become more stringent than the mitigation measures, such as in the case of idling restrictions for heavy-duty trucks in California, where the 2008 California Air Resources Board requirement limits most idling to no more than five minutes whereas the 2004 LAX MMRP has a limit of 10 minutes, the more stringent regulations of the state will be followed. Additionally, the SPAS Draft EIR is a programmatic document. Generally speaking, program EIRs analyze broad environmental effects of the program with the acknowledgement that site-specific environmental review will be required when future development projects are proposed under the approved program. (State CEQA Guidelines Section 15168.) Mitigation measures are components of the Draft EIR and are subject to the same requirements regarding their level of detail. (See State CEQA Guidelines Section 15126.4.) An attempt to provide mitigation measures for project-level impacts would be speculative at this point given the lack of information about future site-specific development. When such development is proposed, the project level environmental document prepared will include specific enforceable measures as needed.
  - ◆ Comment SPAS-PC00005-3 on the SPAS Draft EIR suggested LAWA "buy out every home owner all the way to Manchester." Comment SPAS-PC00050-2 contained a similar suggestion to "simply buy up the rest of Playa del Rey and fly to your hearts content and we will all move on..." For the reasons discussed in Response to Comment SPAS-PC00005-3 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the first comment does not specify whether the reference is to Manchester Square, located east of the airport, or Manchester Avenue, located north of the airport. Under CEQA, impacts are only required for significant impacts,

and mitigation measures must have a rough proportionality and nexus to those impacts. (See State CEQA Guidelines Sections 15041 and 15126.4(a)(3).) Many of the areas potentially included within the scope of the commentors' suggestion are not significantly impacted by the SPAS alternatives (e.g., see Figure 4.10.1-15 of the SPAS Draft EIR for aircraft noise impacts under Alternative 1). As discussed on page 4-666 of the SPAS Draft EIR, "[d]ecisions to pursue noise insulation or acquisition are made by each jurisdiction. Sound insulation under the ANMP has been prioritized for residential land uses." As described on pages 4-664 through 4-667 in Section 4.9.3.3 of the SPAS Draft EIR, incompatible uses (including residential) located within noise impacted areas (i.e., 65 CNEL or higher noise levels) are eligible for sound insulation under the Aircraft Noise Mitigation Program (ANMP). As summarized in Section 4.9.7 of the SPAS Draft EIR, those residential uses and non-residential noise-sensitive facilities newly exposed to noise levels of 65 CNEL or higher under Alternatives 1 through 7, including those alternatives that move runway 6L/24R northward, would be eligible for sound insulation under the ANMP and through implementation of LAX Master Plan Mitigation Measure MM-LU-1. The LAX Master Plan noise and land use mitigation measures fully mitigate the significant noise impacts on interior noise levels once implemented, as defined under California Code of Regulations, Title 21, Section 5033 (see page 4-933 of the SPAS Draft EIR). Furthermore, LAWA has spent hundreds of millions of dollars for soundproofing homes, including homes in areas north of LAX. These types of decisions do not need to be revisited in every subsequent environmental document. (See *Citizens of Goleta Valley v. Board of Supervisors of Santa Barbara County* (1990) 52 Cal.3d 553.) Regarding the commentor's suggestion to "simply buy up the rest of Playa del Rey," as discussed in Response to Comment SPAS-PC00050-2, not all areas in Playa del Rey would be significantly impacted; therefore, such a measure would be out of proportion to the scope of environmental impacts and would lack a sufficient nexus. (See State CEQA Guidelines Section 15041.)

- ◆ Comments SPAS-PC00050-4 and SPAS-PC00130-939 on the SPAS Draft EIR suggested that the project include Noise Cancellation or Active Noise Control technology to reduce aircraft noise impacts. For the reasons discussed in Response to Comment SPAS-PC00050-4 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, this technology cannot be used to reduce noise levels across a broad geographic area of noise receptors. Noise travels in a spherical pattern, and while a speaker might reduce noise at one location, it would increase noise levels at other locations (i.e., constructive interference). While outdoor Active Noise Control research has been conducted at the source of the noise (i.e., the aircraft), that technology is not yet mature and useable for practical application. NASA has current research to use Active Noise Control within aircraft engines to cancel noise at its source and this technology will likely have practical use in future generations of aircraft jet engines. NASA has published research on this technology (NASA FACTS, Making Future Commercial Aircraft Quieter, FS-1999-07-003-GRC, which is available at <http://www.nasa.gov/centers/glenn/about/fs03grc.html>.) This technology is not yet mature to implement in aircraft, nor does LAWA have the legal or practical authority to set aircraft design standards, which are controlled by the FAA and the aircraft manufacturers.
- ◆ Comments SPAS-PC00078-5 and SPAS-PH300035-3 on the SPAS Draft EIR suggested evaluation of an alternative to essentially shift the existing configuration of Terminals 1, 2, and 3 southward in order to accommodate relocating Runway 6R/24L southward by 340 feet and not require the demolition of the concourses for Terminals 1, 2, and 3, as would otherwise occur under SPAS Alternative 3. This concept would allow the retention of more aircraft gates for Terminals 1, 2, and 3 and reduce the gate "imbalance" that would occur under Alternative 3 (i.e., the replacement of the pier concourses at Terminals 1, 2, and 3 with a linear concourse under Alternative 3 would result in substantially fewer gates on the north side of the CTA compared to the south side of the CTA, which, in turn, would require a lot

more taxiing of aircraft between the north airfield and gates on the south side of the CTA than would otherwise occur if more gates were on the north side of the CTA). For the reasons discussed in Response to Comment SPAS-PC00078-5 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, this alternative is considered infeasible for the following reasons. The ability to shift Terminals 1, 2, and 3, including the terminal functions, concourse areas, and airfield operations area (AOA including the gate apron/ramp areas and aircraft taxiways between the concourses), southward is substantially limited by the presence of the existing key airport operations infrastructure, such as the air traffic control tower (ATCT) and the central utility plant (CUP), and the LAX Theme Building, a historic monument, located along the central east-west axis of the CTA. The distances between the southern edge of the buildings comprising Terminals 1, 2, and 3 to the aforementioned facilities are approximately 350 feet to the CUP, 400 feet to the ATCT, and 250 feet to the Theme Building. These dimensions do not include the width of the upper (departures) and lower (arrivals) levels curbside roadways and main travel (through) lanes that front the terminals and collectively, including sidewalks and bus/shuttle passenger islands, extend approximately 125 feet southward. As such, the maximum distance that the terminal complex could be shifted southward without requiring demolition and/or relocation of one or more of the subject facilities is approximately 125 feet, which is only about one-third the distance needed to retain most, if not all, of the existing aircraft gates for Terminals 1, 2, and 3. This dimension assumes that future development of a linear bus or train system within the CTA, as suggested in the comment, would occur above the relocated upper and lower roadways, and not adjacent to them. The base of the terminals' lower level is approximately 15-20 feet below the elevation of the aircraft gate ramp/apron area, which means that a substantial amount of engineered fill would be required in order to extend the airfield operations area southward. In conjunction with shifting Terminals 1, 2, and 3 southward along with World Way North (the roadway that fronts the terminals), all of the major utilities located beneath World Way North would need to be relocated. Additionally, the southward realignment of World Way North, including both the upper level roadway and the lower level roadway, would require demolition and realignment/reconstruction of most, if not all, of the roadway ramps located to the east that connect with World Way North, including at Sepulveda Boulevard and Century Boulevard, and the airport return road. The basic nature and locations of the aforementioned improvements under this alternative occurring in the heart of the CTA suggest that construction would require numerous temporary closures of CTA facilities and roadways, and substantial disruptions to the day-to-day operation of the CTA. Also, the environmental benefits associated with this alternative concept would be very limited compared to the impacts of other alternatives addressed in the SPAS Draft EIR, and those limited benefits would be more than offset by substantially greater construction impacts than under all other alternatives. Under CEQA, an EIR must focus on alternatives that can avoid or substantially lessen a project's significant environmental effects. (State CEQA Guidelines Section 15126.6(b)). The environmental benefits of this alternative would be generally limited to reduced airfield-related operational air pollutant emissions, as compared to Alternative 3. As noted above, this concept would allow the retention of more aircraft gates for Terminals 1, 2, and 3 than would otherwise occur under Alternative 3 and would reduce the gate "imbalance." In so doing, the amount of aircraft taxiing required under this concept would be reduced, compared to Alternative 3, and could be generally comparable to that of Alternative 7, which relocates Runway 6R/24L 100 feet southward, but maintains Terminals 1, 2, and 3. As indicated in Table 4.2-13 of the SPAS Draft EIR, the airfield-related emissions associated with Alternative 7 would be less than those of Alternative 3, but generally greater than the emissions associated with Alternatives 1, 2, 5, and 6. For these reasons, the commentor's suggested alternative was not evaluated in detail in the SPAS Draft EIR.

- ◆ Comment SPAS-PC00081-4 on the SPAS Draft EIR suggested that "it may be useful to consider imposing a congestion charge on all private vehicles that enter the terminal area, to

help encourage people to use public transit or parking facilities, and pick up travelers at the transportation centers." For the reasons discussed in Response to Comment SPAS-PC00081-4 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, consideration was given to congestion pricing alternatives as part of the assessment of potential CTA access improvements presented in Option 1 on page 21 in Appendix E2-1 of the Preliminary LAX SPAS Report; however, additional delays caused by revenue collection were expected to result in increased congestion on CTA roadways and extending onto off-airport roadways.

This suggestion was also addressed in a 2008 LADOT Study ("LAX Congestion Pricing (CF 07-2671)"), which noted that "...since not all LA patrons are frequent users, it would be a challenge to get many of these users to sign-up and mount transponders inside their vehicles. This would lead to the need to employ alternative non-intrusive methods of extracting toll charges from those vehicles without the automatic transponders...In December 2004, LAWA released an internal study that estimated the effects of establishing permanent security checkpoints of vehicles entering the CT A at LAX Airport. The report addressed the feasibility of inspecting all traffic entering the CTA, including the necessary roadway modifications and resulting queue lengths. The study noted that queuing lengths are significantly impacted by relatively small changes to the rate of vehicle inspection and processing. Processing rates above ten seconds per vehicle are expected to cause queuing lengths and delays that would affect the operation of the Airport and cause gridlock conditions throughout the entire day in the vicinity of the Airport. The theoretical queuing lengths for a processing rate of 15 seconds per vehicle was estimated to be 27 lane-miles for southbound Sepulveda Boulevard, 30 lane-miles for Century Boulevard, and 33 lane-miles for northbound Sepulveda Boulevard. The extremely long queues are a result of the limited number of lanes entering the CT A and the lack of sufficient queuing distance between terminals and the public roadway system." (LADOT Study Page 4; available online at: [http://clkrep.lacity.org/onlinedocs/2007/07-2671\\_rpt\\_ladot\\_2-20-08.pdf](http://clkrep.lacity.org/onlinedocs/2007/07-2671_rpt_ladot_2-20-08.pdf).)

If congestion pricing were to be implemented in the CTA, the on-airport roadway system would need to include sufficient space to accommodate queuing vehicles waiting to pay their toll, as well as escape routes for drivers unwilling to pay to access CTA roadways. Due to space constraints within the CTA, this is infeasible. While electronic toll collection would, in theory, improve the flow of traffic entering the CTA, it is unlikely that the vast majority of motorists would purchase a transponder for their vehicle to automatically deduct their entrance fee into the CTA, resulting in delays and increased vehicle congestion accessing the CTA. Dedicated conveyance systems, such as an elevated busway provided in Alternatives 1, 2, and 8, or an APM system provided in Alternatives 3 and 9, are intended to offer passengers more time-certain travel time options to the CTA. They also seek to incentivize passengers to use these facilities by choice based on convenience rather than by imposing penalties on use of CTA roadways.

The suggestion is also infeasible within the horizon year of the project. As discussed in the 2008 LADOT LAX Congestion Pricing Study, "deployment of such a program should wait until other infrastructure improvements are constructed. Specifically, the extension of the Metro Green Line to LAX and construction of the Automated People Mover (APM) system...For a congestion pricing program to potentially be feasible at LAX, transportation infrastructure enhancements would need to be in place to provide airport-bound motorists with alternatives to driving their private vehicles into the Airport's Central Terminal Area (CTA)..." (LADOT 2008 LAX Congestion Pricing Study pages 1 and 4.) As also noted in the SPAS Draft and Final EIR, the Airport Metro Connector project is in its early environmental planning stage, has not been approved, and if approved and constructed, would not be operational until after the SPAS horizon year.

- ◆ Comment SPAS-PC00096-24 on the SPAS Draft EIR suggested evaluation of an alternative "to develop an airport where there is space for such an airport, and at the same time, build mass transit from downtown that goes directly into that airport." For the reasons discussed in Response to Comment SPAS-PC00096-24 (Section 4.3 of Part II of the SPAS Final EIR), the suggested alternative would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, Section 2.3.2.1 of the SPAS Draft EIR considered and rejected as infeasible the concept of an alternative location. The SPAS Draft EIR does not evaluate in detail an alternative calling for the development of an airport at a location with the space to avoid geographic constraints such as those at LAX and building mass transit from downtown that goes directly into that airport because such an alternative would not respond to the project objectives presented in Section 2.2 of the SPAS Draft EIR. Also, it is reasonable to anticipate that the development of such a replacement system would be highly problematic, given the limited land area for such projects in Southern California, take many years, if not decades. The operation of LAX would continue while such a replacement system is pursued and developed, and the need to address the problems at LAX that are addressed in the project objectives would remain. For these reasons, the commentor's suggested alternative was not evaluated in detail in the SPAS Draft EIR.
- ◆ Comment SPAS-PFA00001-6 on the SPAS Draft EIR suggested "The City should follow the lead of Denver and Dallas and also Sacramento, which put their airports way out in the country, but now have popular, efficient, and thriving airports that are well-used. We should do the same here." Relocation of LAX is not a feasible alternative because it fails to meet the fundamental SPAS project objectives as described in Section 2.2 of the SPAS Draft EIR. Furthermore, LAVA has invested billions of dollars over the life LAX, and it is therefore not considered economically feasible to retire the existing infrastructure. The location of LAX is not the type of decision which needs to be revisited in every subsequent environmental document. (See *Citizens of Goleta Valley v. Board of Supervisors of Santa Barbara County* (1990) 52 Cal.3d 553.) Furthermore, there would be environmental impacts associated with the construction of a new airport "way out in the county." Therefore, the suggestion is considered infeasible for economic, environmental, and policy considerations.
- ◆ Comment SPAS-PC00102-6 on the SPAS Draft EIR suggested to "adopt an "Arrival Level," in the terminals, I was thinking that this level should be equipped with moving walk-ways; and, then moving walk-ways should connect all of the terminals. This way, it would much easier for passengers to go from Terminal 1 to Terminal 6 or vice-versa." For the reasons discussed in Response to Comment SPAS-PC00102-6 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, LAX is already multi-level with arrivals on the lower level and departures on the upper level. Regarding connecting flights and terminal transfers, most airlines provide the gates nearby within the same terminals for connecting flights scheduled through that same airlines. In the event that a connecting flight requires a passenger to transfer to another terminal, LAVA provides free shuttle buses that run on a regular and frequent basis throughout the CTA stopping at each terminal. This existing system is considered to be far more effective and efficient than moving walkways in transporting passengers between terminals, especially in a situation like the example given by the commentor (i.e., transporting a passenger from Terminal 1, where Southwest Airlines operates, to Tom Bradley International Terminal (TBIT) at the other end of the CTA). In looking closer at this example, the distance between Terminal 1 and TBIT is 0.5 mile. A high-speed moving walkway such as that currently employed at Pearson International Airport in Toronto, Canada operates at a passenger entrance/exit speed of 1.2 miles per hour (mph) and accelerates to 4.3 mph. A moving walkway between Terminal 1 and TBIT would actually be three separate segments, with each segment beginning and ending at each intervening terminal (i.e., one segment between Terminals 1 and 2, a second segment between Terminals 2 and 3, and the third segment

between Terminal 3 and TBIT), given that passengers would have to exit one segment and walk across to board the next segment. Assuming an average travel speed of 3 mph, it would take approximately 10 minutes to travel by moving walkway between Terminal 1 and TBIT. This does not include any additional time that would be required for passengers to gather luggage and walk through any crowds in front of terminals when transferring from one walkway segment to the next. On the other hand, boarding a free shuttle bus at Terminal 1 and traveling at an average speed of 15-20 mph to TBIT, with one-minute stops at Terminals 2 and 3 on the way, would take less than half that amount of time (i.e., approximately 4-5 minutes). Also, the handling of luggage taking a shuttle would occur only twice; once when boarding the shuttle and once when alighting from the shuttle, as opposed to handling luggage six times when entering and exiting three segments of a moving walkway. In addition to the operational disadvantages of a moving walkway compared to a shuttle, there would be the adverse impacts associated with constructing a moving walkway system within the CTA, which would require several temporary closures and narrowing of existing walkways within the CTA during construction. Therefore, because the suggested modifications will not remedy any significant environmental impact, and decrease efficiency at LAX, they are considered infeasible and impractical.

- ◆ Comments SPAS-PC00108-4 and SPAS-PC00175-5 on the SPAS Draft EIR suggested evaluation of an alternative "close the interior parking and access roads, construct two or three north-south terminals with access by passengers from a subterranean mall, as at the airports in Atlanta or Denver. Passengers would enter the facility east of the airport at Manchester Square or the area now with derelict warehouses between the two points." For the reasons discussed in Response to Comment SPAS-PC00108-4 (Section 4.3 of Part II of the SPAS Final EIR), the suggested alternative would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the key features in the alternative recommended by the commentor are, for the most part, comparable to those in SPAS Alternative 3, whereby the CTA would be closed to private vehicles and parking, the existing CTA parking structures would be replaced by terminal/passenger processing facilities, and the main public entrance to LAX would be through the Ground Transportation Center at Manchester Square and, to a lesser extent, the Intermodal Transportation Center at Continental City. The main difference between the commentor's alternative and SPAS Alternative 3 would be that an above ground Automated People Mover (APM) system would transport passengers to and from the CTA in Alternative 3, instead of them taking access through a subterranean mall, as the comment suggests. Constructing such a subterranean mall for passenger access between the LAX CTA and Manchester Square would be logistically infeasible because it would require the demolition/removal of numerous major hotels, a major office building, parking structures, and other uses along the one-mile-long stretch of Century Boulevard and 98th Street between Manchester Square and Sepulveda Boulevard, it would require the excavation and export of approximately 4 million cubic yards of earth to create a single-level subsurface cavity approximately one mile long, 1,000 feet wide and 20 feet deep, and it would require relocation of all underground utilities within that area, and construction of new uses underground. Further, a subterranean mall would have significant construction-related air quality impacts, and would not provide as quick and efficient transport of passengers as an APM. Specifically, a passenger traveling between Manchester Square and the CTA would take approximately 20-30+ minutes to walk non-stop through a mile-long underground mall at an average walking speed of 2-3 miles per hour, compared to approximately 4-5 minutes to travel that same distance by elevated bus or APM at 20-25+ miles per hour with a short stop at the ITF, as proposed under all SPAS alternatives except Alternative 4. For these reasons, the commentor's suggested alternative was not evaluated in detail in the SPAS Draft EIR.
- ◆ Comments SPAS-PC00130-34, SPAS-PC00130-93, SPAS-PC00130-814, SPAS-PC00130-843, SPAS-PC00130-849, and SPAS-PC00130-984 on the SPAS Draft EIR suggested several elements of a SPAS alternative concept previously suggested by ARSAC in

November 2010. Those and other elements of that concept are described in an ARSAC PowerPoint presentation dated November 28, 2010, which was included as an attachment to comment SPAS-PC00130-814. For the reasons discussed in Response to Comment SPAS-PC00130-814 (Section 4.3 of Part II of the SPAS Final EIR), the suggested alternative would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the following summarizes the highlights of that alternative concept, as stated in ARSAC's presentation, and then presents LAWA's review and assessment of that concept.

In summary, six the seven main elements included in this alternative are the same or similar to elements already included in other SPAS alternatives. CEQA does not require an EIR to consider multiple variations or permutations of the alternatives analyzed in an EIR. (See, e.g., *Mira Mar Mobile Community v. City of Oceanside* (2004) 119 Cal.App.4th 477.) The seventh element, an elevated roadway system, is economically infeasible and infeasible from an engineering standpoint; an EIR need not consider alternatives (or elements of alternatives) that are infeasible (State CEQA Guidelines Section 15126.6(a)). Further, the ARSAC alternative concept is not required to be evaluated in detail in the SPAS Draft EIR because it does not avoid or substantially lessen the SPAS alternatives' significant environmental impacts. (State CEQA Guidelines Section 15126.6(a),(b).) Also, as discussed below, the ARSAC alternative concept does not offer substantial operational advantages over the SPAS alternatives evaluated in the SPAS Draft EIR.

#### **ARSAC Alternative Concept Highlights**

- ♦ Keeps Runway 6L/24R from being moved north and moves Runway 6R/24L 340 feet south
- ♦ Terminals 1, 2, 3, and part of north wing of Tom Bradley International Terminal are torn down
- ♦ Low Cost Carrier (LCC) Terminals built to replace Terminals 1, 2, and 3 and airlines are regrouped in terminals by airline alliances (e.g., SkyTeam, Star, oneworld)
- ♦ No changes to the parking garages in Central Terminal Area
- ♦ Consolidated Rent-a-car center (CONRAC) to be located in Manchester Square
- ♦ Automated People Mover to connect the CONRAC to the Central Terminal Area (CTA)
- ♦ Elevated roadways to connect the CTA to the CONRAC and the freeways

#### **LAWA Analysis of ARSAC Concept**

1. Keeps Runway 6L/24R from Being Moved North and Moves Runway 6R/24L 340 Feet South: This airfield improvement concept is no different from that in SPAS Alternative 3. ARSAC indicates that a benefit of this concept is that it moves airport and related operations away from residential communities and makes communities safer, quieter, and healthier. As demonstrated in the impacts analysis presented in Chapter 4 of the SPAS Draft EIR, that stated benefit would, at most, be limited to areas immediately north of the airport, and adverse environmental impacts to areas east of the airport and to the region would generally be worse than would otherwise occur by moving Runway 6L/24R northward and keeping Runway 6R/24L in its current location. As indicated in Table 1-16 of the SPAS Draft EIR, the number of residential units and population newly exposed to 65 dBA CNEL aircraft noise levels under Alternative 3 would be 5,056 and 13,443, respectively. The number of homes and population newly exposed to 65 CNEL under Alternative 1 (move Runway 6L/24R 260 feet north), Alternative 5 (move Runway 6L/24R 350 feet north), and Alternative 6 (move Runway 6L/24R 100 feet north) would be comparable to, or in several cases, less than those of Alternative 3. That is also the case, if not more so, relative to homes and population that would experience a 1.5 dBA CNEL increase over 65 CNEL. Although moving Runway 6R/24L south by 340 feet would shift the north airfield noise contour away from the Westchester and Playa del Rey communities located immediately north of the airport, the

changes in the overall airport noise contours including both the north and south airfields would encompass additional areas northeast and east of the airport, such as in Inglewood and unincorporated areas of the County, that are more intensely developed and more densely populated. In addition, the proposed configuration offers essentially the same safety profile of Alternative 3, which addresses many of the aviation safety objectives, except that it retains residential uses within the Runway Protection Zone (RPZ) of Runway 6L/24R.

As indicated in Tables 4.2-13 through 4.2-16 of the SPAS Draft EIR, the airfield-related (i.e., aircraft) air pollutant emissions and concentrations associated with Alternative 3 would be greater than those associated with Alternatives 1, 5, and 6 relative to carbon monoxide, volatile organic compounds, nitrogen oxides emissions (peak nitrogen dioxide concentrations would be slightly lower for Alternative 3), sulfur dioxide emissions (peak sulfur dioxide emissions concentrations related to the California Ambient Air Quality 1-hour standard would be slightly lower for Alternative 3), and particulate matter. As such, both local and regional air quality impacts would generally be worse in moving Runway 6R/24L south by 340 feet and in moving Runway 6L/24R northward.

Within the ARSAC presentation describing north airfield configurations that should be considered in the SPAS alternative airfield concepts, it was also suggested that the runway designs include runway status lights on all runways and taxiway entrances, Enhanced Final Approach Runway Occupancy Signal (eFAROS), and improved runway and taxiway lighting, signage, and striping. As described on page 4-502 of the SPAS Draft EIR, Phase 1 of installing runway status lights at LAX was completed in 2009 and Phase 2 to complete the installation is anticipated to occur with FAA approval of funding. Regarding Final Approach Runway Occupancy Signal (FAROS) and eFAROS technology, such systems are still in the testing and development phases, including at Dallas-Fort Worth International Airport (eFAROS) and Long Beach International Airport (FAROS). The FAA is currently working to publish an Advisory Circular (AC) for this system, so that any airport receiving AIP funding can procure a FAROS system and install it on the basis of the AC.<sup>1</sup> All runway and taxiway lighting, signage, and striping associated with airfield improvements under any of the SPAS alternatives would occur in compliance with FAA requirements. Such would also be the case relative to the width of runways in the north airfield, as determined in consultation with the FAA at more detailed design and engineering levels of planning.

ARSAC also recommended that the SPAS Draft EIR consider each runway concept with and without a centerline taxiway between Runways 6L/24R and 6R/24L. SPAS Alternatives 2 and 4 already reflect such a design and it is not necessary to consider each of the remaining five alternatives both with and without a centerline taxiway.

2. Terminals 1, 2, 3, and Part of North Wing of Tom Bradley International Terminal Are Torn Down: That aspect of the ARSAC alternative concept is the same as proposed under SPAS Alternative 3. Regarding terminal design described by the commentor, all elements listed by ARSAC in their LCC concept could be accommodated by SPAS Alternative 3, but some of the ARSAC-proposed design elements have operational disadvantages compared to Alternative 3.

The footprint and associated apron of the proposed north linear concourse assumed under SPAS Alternative 3 were inherited from the LAX Master Plan Alternative D concept. While ARSAC suggests that their LCC terminal design is comparable to that of John Wayne Airport (SNA) and San Jose Airport (SJC), the SNA and SJC terminal configurations were established based on narrow airport property configurations leaving minimum areas left for terminal and apron after required runway, taxiway, and landside access requirements are met. In other words, the terminal configurations for those two airports are the result of their particular physical constraints and are not indicative of them being able to specifically accommodate LCC operations.

The design of a linear concourse under Alternative 3 would result in simplified facilities, and would most definitely involve passenger conveyance through elevators and escalators, as requested in the ARSAC alternative concept. SPAS Alternative 3 provides for 20 gates with a combination of narrow and wide-body gates, only 3-4 gates less than the ARSAC alternative concept. The ARSAC configuration has more restricted gate sizing, and therefore is less flexible in providing needed wide-body gates during off-peak LCC operations.

The number of stories of the proposed North Linear Concourse would be determined during project-level design and CEQA review, should a SPAS alternative be selected for implementation. Such a concourse would be constructed following LEED standards or equivalent.

The ARSAC-suggested airside/landside terminal and concourse level stacking is typical of most existing or new terminals with the exception of the interstitial level for baggage screening and handling which often raises the passenger circulation and gate levels to unacceptable heights except for much larger (taller) wide-body aircraft.

Single-use terminals such as the one recommended by ARSAC have more restricted gate utilization from an aircraft parking standpoint than mixed-use terminals, since the flexibility of accommodating other different sized aircraft is lost during off-peak LCC time periods. Single-loaded (linear) concourses are also less efficient (with longer passenger walking distances for connecting passengers, more spread-out airline staffing) and more costly (one side of the concourse is unused) than double-loaded (aircraft gates on both sides) concourses.

3. Low Cost Carrier (LCC) Terminals Built to Replace Terminals 1, 2, and 3 and Airlines Are Regrouped in Terminals by Airline Alliances (e.g., SkyTeam, Star, oneworld): The basic physical design of the terminals proposed under the ARSAC alternative concept is essentially the same as the linear concourse proposed under SPAS Alternative 3. The details of that design would be determined in conjunction with the completion of project-level planning, design, and engineering should a SPAS alternative be selected for implementation; all of the SPAS alternatives are currently at only a program level of detail.

The ARSAC presentation indicates that their proposed terminals design provides opportunities to both LCC and alliance carriers and would allow airline locations to be arranged logically by alliances; however, such opportunities for both LCC and alliance carriers to operate together would be available under any and all of the SPAS alternatives. No assumption used in the SPAS Draft EIR gating analysis, as discussed in Section 4.3 of Appendix F-1 of the Preliminary LAX SPAS Report, would preclude LCC and alliance carriers to efficiently co-locate and/or operate at LAX. The gating approach used in the SPAS Draft EIR does not constitute or reflect a LAWA policy decision in terms of future airline assignments or agreements.

Notwithstanding the above, the ARSAC alternative concept to locate the LCCs along the linear concourse designed for that purpose, which would replace Terminals 1, 2, and 3, would be of very limited benefit to overall airport operations and, if anything, could be detrimental. In August 2011, LCC passengers represented only 24.5 percent of all passengers. Based on today's operations, converting Terminals 1, 2, and 3 into LCC-only terminals would force some international and alliance operations into already busy south CTA terminals, operations which need wide-body gates to operate. This would result in an "imbalance" between the northern and southern portions of the airport, both in terms of landside operations and relative to airside operations (i.e., larger aircraft arriving on or departing from the north airfield would have longer taxiing times and distances by being served primarily on the west and south sides of the CTA).

Common Use Terminal Equipment (CUTE) systems, as suggested in the ARSAC alternative concept, are not limited to new or particular types of airline terminals. For example, the

existing Terminal 3 could be retrofitted with CUTE services without reconstruction in the ARSAC suggested linear alternative.

Rapid aircraft turn round times can also be achieved in SPAS Alternative 3 as two narrow-body aircraft can be accommodated at once on each wide-body position depicted in Figure C in Appendix F-1 of the Preliminary LAX SPAS Report.

4. No Changes to the Parking Garages in Central Terminal Area: This element of the ARSAC alternative concept is no different than that of SPAS Alternatives 1, 2, 4, 5, 6, and 7, all of which are addressed in the SPAS Draft EIR.

5. Consolidated Rent-a-car Center (CONRAC) to be Located in Manchester Square: This element of the ARSAC alternative concept is no different than that of SPAS Alternatives 8 and 9, which are addressed in the SPAS Draft EIR.

6. Automated People Mover to Connect the CONRAC to the CTA: This element of the ARSAC alternative concept is no different than that of SPAS Alternatives 3 and 9. Although the ARSAC presentation includes several specific recommendations regarding the design of the APM, such as the alignment within the CTA, the location of stations, and whether the system has one or two tracks, such design considerations would be determined at more detailed levels of planning, design, and engineering, and CEQA review, should a SPAS alternative be selected for implementation.

7. Elevated Roadways to Connect the CTA to the CONRAC and the Freeways: The ARSAC alternative concept proposes a network of elevated roadways connecting the 405 Freeway (I-405) to the CTA. The in-bound route would extend west from I-405 at Century Boulevard to an access ramp for the CONRAC proposed at Manchester Square, then north to an access ramp connecting with Lot C on 96th Street, and then follow the 96th Street bridge alignment at Sepulveda Boulevard, then turn south to connect with the CTA at the World Way entrance bridge (i.e., relocated Sky Way). The in-bound route also envisions a built-in vehicle security screening area along the 96th Street portion the elevated roadway. The out-bound route from the CTA would extend east as an elevated roadway on piers along the grass median on the south side of Century Boulevard and then turn south at Aviation Boulevard to continue east along 102nd Street to connect with I-405. A separate elevated out-bound roadway would be constructed along Aviation Boulevard between the CONRAC at Manchester Square to connect with the main elevated roadway at 102nd Street.

This alternative concept for an elevated roadway network between I-405 and the CTA was has been reviewed and considered by LAWA, and was not carried forth into the SPAS alternatives for the reasons described below.

Implementation of this elevated roadway network would be very expensive to construct, would have construction-related traffic disruption, would be unlikely to result in substantial improvements in traffic conditions around the airport, and would not provide substantial traffic benefits over the ground transportation system improvements proposed within the current range of SPAS alternatives. Because there is no evidence that this concept would reduce any of the significant and unavoidable impacts of the SPAS alternatives analyzed in the SPAS Draft EIR, it is not necessary to analyze this alternative in detail.

Based on the alignments depicted in the ARSAC presentation, it is estimated that this elevated roadway system would be approximately five miles in length and would include two new interchanges with I-405. Although ARSAC did not provide any cost estimates for this concept, the key features of the system are somewhat analogous to elements of the SPAS alternatives transportation system improvement options for which LAWA completed rough order of magnitude (ROM) cost estimates that are presented in Appendix G of the Preliminary LAX SPAS Report. Table GA-2 in that appendix includes estimates for construction of the elevated busway, which would be a 36-foot-wide elevated platform constructed on piers primarily along existing roadways. Such a system design would be generally analogous to

the elevated roadway system identified in the ARSAC alternative concept. Based on an estimated total length of 5,300 linear feet (LF) of elevated busway at a total estimated construction cost of \$50,533,300, the cost per LF would be \$9,535. For a five-mile-long system, the total cost would be approximately \$251,724,000. Table GA-8 in Appendix G includes a ROM cost estimate of \$341,757,000 for construction of a new interchange with the I-405, as envisioned under SPAS Alternative 3. Under the ARSAC alternative concept, construction of the five-mile-long elevated busway system and two new interchanges with the I-405, the ROM estimated total cost would be approximately one billion dollars (\$935,238,000). In comparison, the ROM estimated cost of the elevated busway system associated with SPAS Alternatives 1, 2, and 8 is approximately \$98,000,000, including the bus stations along the way (see Table GA-1 in Appendix G of the Preliminary LAX SPAS Report). Based on this approximately ten-fold cost differential, the elevated roadway system is considered economically infeasible.

In addition to the very high cost of this system, the proposed locations of the new I-405 interchanges are infeasible from an engineering standpoint. For the in-bound route, the ARSAC alternative concept shows the elevated roadway near the CONRAC as having connection ramps with both the northbound lanes and southbound lanes of the I-105 just north of Century Boulevard. Although there is currently an exit from the southbound I-405 at that location, that interchange would need to be redesigned and reconstructed to allow for separation of LAX traffic going up onto the elevated roadway from local traffic staying at ground level. For the northbound I-405 ramp connecting to the elevated roadway, it is highly uncertain whether a flyover ramp going above all travel lanes on the I-405 could be constructed within any area that is not already occupied by the many existing freeway on-ramps and off-ramps at and north of Century Boulevard. There are similar major engineering and design feasibility uncertainties relative to developing both northbound and southbound freeway ramps for the outbound elevated roadway system at 102nd Street and the I-405. The existing at-grade southbound ramp at that location would need to be redesigned and reconstructed to allow for the connection of the elevated roadway, and the construction of a new flyover ramp to connect with the northbound I-405 lanes would need to extend a substantial distance above ground to pass above the existing freeway ramps at Century Boulevard or would require redesign and reconstruction of those existing ramps.

Even if this alternative concept roadway system could be successfully developed, it is not anticipated to draw a substantial amount of traffic away from other roads and access routes serving LAX. Based on traffic volumes and conditions anticipated to occur in 2025 (the planning horizon year for SPAS) on the I-405 near LAX, the vast majority of which would be regional traffic including as related to the I-105 interchange near LAX, and not necessarily airport traffic, it is likely that travelers to and from LAX may still seek alternative routes.

Another disadvantage is that construction of the elevated roadway system above numerous roadways around LAX would result in traffic disruption, delays, and detours during the construction periods.

Lastly, development of the elevated roadway system proposed under the ARSAC alternative concept would not offer a substantial traffic benefit over the systems proposed under certain SPAS alternatives. Alternatives 1, 2, and 8 include an elevated/dedicated busway system that would connect Manchester Square, which includes a CONRAC under Alternative 8, and a proposed Intermodal Transportation Facility located south of and adjacent to Lot C, and the CTA. Alternative 9 is similar to Alternative 8, but would use an APM in place of the busway. Access to the CONRAC at Manchester Square under Alternatives 8 and 9 would include integration with the existing southbound off-ramp at the I-405. Additionally, that proposed system under all of these alternatives includes a connection at the future Metro Crenshaw/LAX Transit Corridor and Station.

In summary, the ARSAC alternative ground transportation system concept was not carried forth by LAWA because it would be economically infeasible, would be infeasible from an engineering standpoint, would have substantial construction-related traffic disruption, would be unlikely to result in substantial improvements in traffic conditions around the airport, and would not provide substantial traffic benefits over the ground transportation system improvements proposed within the current range of SPAS alternatives.

For these reasons, the commentor's suggested alternative was not evaluated in detail in the SPAS Draft EIR.

<sup>1</sup> U.S. Department of Transportation, Federal Aviation Administration, Advanced Technology Development and Prototyping Group (AJP-67), Final Approach Runway Occupancy Signal (FAROS), Available: [http://www.faa.gov/about/office\\_org/headquarters\\_offices/ang/offices/ac\\_td/projects/faros/](http://www.faa.gov/about/office_org/headquarters_offices/ang/offices/ac_td/projects/faros/), accessed December 5, 2012.

- ◆ Comment SPAS-PC00042-3 on the SPAS Draft EIR suggested that passenger car traffic be routed down Center Way, which bisects the CTA on an east-west axis, and that commercial vehicles, such as shuttles, buses, and taxis, utilize World Way, which extends around the interior perimeter of the CTA. For the reasons discussed in Response to Comment SPAS-PC00042-3 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, Center Way, including Center Way North and Center Way South, is a one-way street allowing only eastbound traffic movements. It is not wide enough nor is it designed for two-way traffic. As such, in-bound (i.e., westbound) passenger traffic would still have to utilize World Way North coming into the CTA. Much of the daily passenger traffic is associated with dropping off or picking up passengers at the curbsides of the terminals, which are accessible only from World Way. Additionally, entrances to the public parking structures within the CTA are located along World Way and are not accessible from Center Way. Based on the above, implementation of the suggested change in roadway assignments is not considered to be feasible.
- ◆ Comment SPAS-PC00073-1 on the SPAS Draft EIR stated that the effect of the changes proposed under each SPAS alternative would differ depending on the sequencing of the individual project elements. "For example busses could be used first on existing streets then on new roadways." For the reasons discussed in Response to Comment SPAS-PC00073-1 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, as discussed on page 2-8 of the SPAS Draft EIR, "The nine SPAS alternatives addressed within this Draft EIR were formulated at a programmatic level of conceptual planning, and no design or engineering plans, or construction phasing plans or schedules, are available for any of the alternatives. In general, however, it is anticipated that all of the improvements proposed under each alternative would be completed by 2025, with construction beginning in 2015." As further discussed on page 2-74 of the SPAS Draft EIR, "[d]epending on the outcome of the SPAS process, additional project-level CEQA review may be required for implementation of the improvements associated with the selected SPAS alternative." A similar programmatic approach was taken with the LAX Master Plan, with project level EIRs prepared for implementing projects, such as the Bradley West Project and the Crossfield Taxiway Project (CFTP).

Section 4.12.2.6 provides analysis of off-airport transportation impacts. Section 4.12.2.6.3 of the SPAS Draft EIR discusses potential construction impacts and applicable LAX Master Plan mitigation measures and commitments, consistent with the program-level analysis presented in the SPAS Draft EIR. As discussed in that section, "The nine alternatives currently being considered for the SPAS project are only at a conceptual level of planning" The SPAS Draft EIR analyzes the traffic impacts associated with the completion of each SPAS alternative relative to Existing (2010) conditions and Future (2025) without Alternatives conditions. Similar to the Bradley West Project, any subsequent project level activities will be reviewed in

light of the SPAS Draft EIR to determine whether additional environmental documents must be prepared.

- ◆ Comments SPAS-PC00102-5 and SPAS-PH300036-4 on the SPAS Draft EIR suggested dividing vehicle traffic into five levels. For the reasons discussed in Response to Comment SPAS-PC00102-5 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, given the highly developed and constrained nature of the area within the CTA and areas immediately east of the CTA, where there are ramps and connections between the CTA roadways and surrounding roadways such as Century Boulevard and Sepulveda Boulevard, it is not logistically feasible to construct a four- or five-level roadway system as suggested by the commentor, and such construction would likely have costs out of proportion to any benefit potentially achieved. In addition to the infeasibility of constructing such a roadway system, it is also logistically infeasible to modify all of the terminals within the CTA to add two or three additional levels in order to meet/match the elevation of each roadway level. Moreover, such a multi-level roadway system is not needed to avoid or substantially reduce significant environmental impacts, nor is there any evidence that it would do so. The SPAS Draft EIR analysis of the on-airport transportation system presented in Section 4.12.1 concludes that with the exception of one intersection under future cumulative conditions and one to five roadway links (depending on the alternative) under future cumulative conditions, implementation of the SPAS alternatives would not result in significant impacts to the on-airport transportation system. For these reasons, the commentor's suggested alternative was not evaluated in detail in the SPAS Draft EIR.
- ◆ Comments SPAS-PC00130-150, SPAS-PC00130-473, SPAS-PC00130-696, and SPAS-PC00130-756 on the SPAS Draft EIR suggested the addition of a third level for buses and emergency vehicles. For the reasons discussed in Response to Comment SPAS-PC00130-150 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, construction of a third-level curbside would require significant reconfiguration of the terminals and CTA roadway system. Construction of a third level roadway and new pedestrian connections to the terminal buildings within the CTA would be infeasible. Accommodating these new facilities would require significant reconfiguration of the CTA's access and egress roadways, along with the simultaneous closures and reconstruction of portions of both the existing arrivals and departures level roadways to facilitate construction of the third level roadway support structure and deck. Additionally, development of a third level roadway and new pedestrian connections would substantially constrain potential alignment and design options for a future Automated People Mover (APM) within the CTA, which is proposed under Alternative 9 (Note: Although Alternative 3 also proposes an APM system within the CTA, the CTA roadway system under that alternative would be closed to private vehicles, therefore there would be no need/purpose for a third level roadway). LAWA's priority for landside development is to implement improvements which encourages passengers to access the CTA using high-occupancy modes via an elevated busway (SPAS Alternatives 1, 2, and 8) or an APM system (SPAS Alternatives 3 and 9) in favor of constructing additional roadway capacity for private vehicles within the CTA. Therefore, the suggestion is considered infeasible for policy reasons. Furthermore, existing physical constraints, the expectation of limited availability of capital funding, and disruptions to CTA operations are additional factors for why construction of a third-level roadway was not considered as part of the SPAS Draft EIR. Further, a third level would be just an alternative to one project component. Under CEQA, for multi-component projects like the SPAS alternatives, an EIR need not evaluate alternatives for each project component. (California Oak Foundation v. Regents of University of California (2010) 190 Cal.App.4th 227, 276-277; Big Rock Mesas Prop. Owners Ass'n v. Board of

## ***California Environmental Quality Act Findings – LAX SPAS Project***

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- Supervisors (1977) 73 Cal.App.3d 218, 277; see also *No Oil, Inc. v. City of Los Angeles* (1987) 196 Cal.App.3d 223, 235.)
- ◆ Comment SPAS-PC00130-199 on the SPAS Draft EIR suggested evaluation of a "dual runway move" alternative. For the reasons discussed in Response to Comment SPAS-PC00130-199 (Section 4.3 of Part II of the SPAS Final EIR), the suggested alternative would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, Section 2.3.2.6, Dual Runway Relocations, of the SPAS Draft EIR presents reasons why such an approach to reconfiguring the north airfield is considered infeasible, impractical, and likely to result in environmental impacts comparable or greater to the alternatives evaluated in detail in the SPAS Draft EIR. Further, Section 2.3.2.6 describes why this alternative is within the range of the alternatives that the SPAS Draft EIR evaluates in detail. An EIR need not consider multiple variations on the range of alternatives evaluated in detail. (*Village Laguna of Laguna Beach Inc. v. Board of Supervisors* (1982) 134 Cal.App.3d 1022, 1028.) Nor must an EIR consider every conceivable alternative to the project. (*In re Bay-Delta Programmatic Environmental Impact Report Coordinated Proceedings* (2008) 43 Cal.4th 1143, 1163.) Moreover, an EIR need not analyze alternatives that do not offer significant advantages over the alternatives presented in the EIR, or that constitute a different version of an alternative presented in the EIR. (*Sequoia Hills Homeowners Ass'n v. City of Oakland* (1993) 23 Cal.App.4th 7045.) For these reasons, the commentor's suggested alternative was not evaluated in detail in the SPAS Draft EIR.
  - ◆ Comment SPAS-PC00130-334 on the SPAS Draft EIR suggested that the traffic mitigation measures all relate to intersections. The comment also suggested that changeable signage could be used to "direct airport traffic onto La Cienega Boulevard to Century during the day when both streets are relatively empty." For the reasons discussed in Response to Comment SPAS-PC00130-334 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the traffic mitigation program presented in Section 4.12.2.7.2 of the SPAS Draft EIR includes a Transportation Demand Management Program (Mitigation Measure MM-ST (SPAS)-1), which provides for the promotion and expansion of LAWA's successful vanpool program to reduce airport-related traffic. At this time, there is no evidence to suggest that providing additional changeable signs farther from the airport would reduce or avoid a significant impact. As discussed in Section 4.12.2.2.1 of the SPAS Draft EIR and further described in Response to Comment SPAS-PC00130-334, La Cienega Boulevard and Century Boulevard are already two of the key roadways providing access to LAX. Static guide signs are currently posted along the major approach and departure routes in the LAX areas to assist motorists in locating LAX and the freeway network. There is also a permanent, overhead changeable message sign on westbound Century Boulevard east of Airport Boulevard. In addition, LAWA owns and operates portable changeable message signs that are deployed for various incidents, construction detours, or special events. These signs provide information regarding airport security alerts, accidents, lane closures and other unexpected traffic conditions (information that is often not well conveyed by common GPS navigation systems). Many drivers also already have access to GPS navigation systems (either mounted in the car or accessible by cell phone), which provide real time traffic conditions which enable drivers to make personalized routing decisions based upon traffic conditions. To the extent the commentor is also suggesting changeable signs in other locations, other infeasibility factors are also relevant. The commentor raised similar suggestions in 2009 on the Bradley West Project Draft EIR. As LAWA explained in Response to Comment BWP-PC00011-45, in some locations the suggestion is socially infeasible: "In 2005, the Los Angeles Department of Transportation, as part of their Westchester Intelligent Transportation System improvement project, planned to install permanent, overhead changeable message signs on the approaches to LAX. LAWA and LADOT staff discussed the possibility that LAWA could request LADOT to display

electronic messages on these signs during unique occurrences at the airport, such as airport security alerts and information regarding alternate parking locations if CTA parking was full. LADOT planned to use the signs to inform drivers of accidents, lane closures due to construction, and other unexpected traffic conditions. These signs were planned to be located away from the CTA entrances in order for drivers to have time to process the messages and change their routes accordingly. The proposed locations were southbound Lincoln Boulevard near La Tijera Boulevard, southbound Sepulveda Boulevard south of 76th Street/77th Street and westbound Century Boulevard west of Concourse Way. However, public opposition to the proposed signs, culminating with a public meeting held on January 17, 2006 at which several area residents expressed their view that the signs would lead to additional traffic through their community, resulted in LADOT withdrawing its plans to install changeable message signs on Lincoln and Sepulveda Boulevards." Nevertheless, if and when a SPAS alternative is selected, and site specific development progresses, an appropriate program of on-site and off-site signage will be developed to assist motorists consistent with LADOT's transportation planning functions (see Los Angeles Administrative Code Section 22.481(a)). Please also see Responses to Comments SPAS-PC00130-360 and SPAS-AL00004-29 regarding the programmatic nature of SPAS.

- ◆ Comments SPAS-PC00130-335 and SPAS-PC00130-480 on the SPAS Draft EIR suggested that LAWA switch from natural gas to electric and solar and wind turbine power. For the reasons discussed in Response to Comment SPAS-PC00130-480 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, as described in Section 4.13.1.3 of the SPAS Draft EIR, LAWA has an ongoing commitment to increasing energy efficiency and implementing energy conservation measures at its airports. Measures implemented to promote energy efficiency and conservation are outlined in Section 4.13.1.3. As discussed therein, "energy conservation initiatives have resulted in a 7 percent decrease in per passenger energy consumption at LAX between 2008 and 2009." Furthermore, as discussed on page 4-1331 of the SPAS Draft EIR, LAWA purchases its power from the LADWP, which generated 20 percent of its power from renewable resources in 2010, and is planning to increase this value to 33 percent by 2020. LADWP's renewable energy sources include solar, wind power, and other renewable sources described in the SPAS Draft EIR. Given that the power LAWA purchases from LADWP is from the LADWP grid system, it is not technically possible for LAWA to receive a higher proportion of energy from renewable sources than otherwise transmitted through the overall LADWP grid. Please see Response to Comment SPAS-AR00002-8 regarding on-site solar power.

LAWA does not currently have any plans to install wind turbines at LAX. As with solar power generation, wind power requires a large amount of land, as well as appropriate wind conditions. In addition, installation of low profile wind turbines near the runways would need to be consistent with FAA requirements pertaining to Runway Safety Areas, Object Free Areas, and Obstacle Free Zones. Specifically, a 1.5 megawatt (MW) wind turbine of a type frequently seen in the United States has a tower 80 meters (260 feet) high.<sup>1</sup> A 1.5 MW wind turbine, which is on the smaller side of the range of commercial wind turbines currently in operation around the world, which range from approximately 0.6 MW to 8.0 MW (based on a list of the different models of wind turbines from the top 10 wind turbine manufacturers),<sup>2</sup> would typically have a rotor diameter (i.e., the area swept by the turbine blades) of approximately 70 meters (230 feet), as in the case of a 1.5 MW GE Model 1.5i wind turbine.<sup>3</sup> As such, the total height of a 1.5 MW wind turbine would be approximately 375 feet. The base elevation of LAX is approximately 125.5 feet above mean sea level (MSL), which means that the installation of a 1.5 MW wind turbine at LAX would reach of height of approximately 500 MSL (125.5 feet MSL base elevation plus 375 feet). Figure 4.7.2-1 of the SPAS Draft EIR illustrates the Federal Aviation Regulation (FAR) Part 77 Imaginary Surfaces associated with any commercial runway, indicating the various imaginary surfaces within which any

penetration of those surfaces represents a potential concern relative to the safe operation of aircraft at and around the runway. For LAX, the transitional surfaces at the ends of the runways extend up to approximately 276 feet MSL (125.5 MSL base elevation plus 150 feet), which means that placement of such a wind turbine near the ends of the runways would penetrate that imaginary surface by more than 224 feet. Similarly, the Horizontal Surface illustrated in Figure 4.7.2-1, which extends well around the sides of LAX is also set at the 276 feet MSL elevation, which means placement of the wind turbine anywhere to the side of the runways would also penetrate that imaginary surface by 224 feet. In moving farther away from the airport and into the Conical Surface illustrated in Figure 4.7.2-1, per the Airport Master Plan Airport Layout Plan, a 500-foot tall object would have to be more than approximately 14,000 feet (2.65 miles) from the runways in order to not penetrate that surface.<sup>4</sup> Such a wind turbine placement would be well beyond the limits of the airport property.

As indicated in Section 4.13.1 6 of the SPAS Draft EIR, a sufficient supply of electricity and natural gas is expected to be available to serve the SPAS improvements.

<sup>1</sup> [http://en.wikipedia.org/wiki/Wind\\_turbine](http://en.wikipedia.org/wiki/Wind_turbine), accessed December 27, 2012.

<sup>2</sup> [http://en.wikipedia.org/wiki/Wind\\_turbine](http://en.wikipedia.org/wiki/Wind_turbine), accessed December 27, 2012.

<sup>3</sup> [http://en.wikipedia.org/wiki/Wind\\_turbine](http://en.wikipedia.org/wiki/Wind_turbine), accessed December 27, 2012.

<sup>4</sup> City of Los Angeles, Los Angeles World Airports, Airport Master Plan Airport Layout Plan, Sheet 13, FAR Part 77 Approach Surfaces, prepared by Landrum & Brown, Draft April 28, 2004.

- ◆ Comment SPAS-PC00130-374 on the SPAS Draft EIR suggested evaluation of an "off site passenger check in... for location near the 405 Freeway in Howard Hughes Center with a bus or people mover to improve the CTA. This commuter passenger option at Howard Hughes, was suggested so that their single vehicle transportation need not drive all the way from the freeway to LAX. Howard Hughes passengers would be taken by mass transit instead." For the reasons discussed in Response to Comment SPAS-PC00130-374 (Section 4.3 of Part II of the SPAS Final EIR), the suggested alternative would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the development of what would amount to a new LAX FlyAway station at the Howard Hughes Center is unlikely to draw a substantial amount of passengers/riders, given that it is only about two miles from LAX and would primarily serve areas to the north of the airport. Therefore, this suggestion was not evaluated in detail in the SPAS Draft EIR.
- ◆ Comments SPAS-PC00130-390 and SPAS-PC00130-427 on the SPAS Draft EIR suggested "a solid 20 foot block wall along the north and east side perimeters to help contain ground generated particulates within the airport flight field" and an "extra high solid fences to keep in particles generated by aircraft on the ground" respectively. For the reasons discussed in Response to Comment SPAS-PC00130-390 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, installing a solid 20-foot block wall along the north and east sides of the airport would not noticeably reduce the particulate matter concentrations in the surrounding communities. The particulate matter concentrations in these communities come from a variety of mobile and stationary sources, many of which are not associated with the airport or are not located within the confines of the airport property line. Construction of such a wall would be subject to CEQA review and could have potentially adverse impacts on aesthetics, traffic circulation, and biological resources, among others.
- ◆ Comment SPAS-PC00130-398 on the SPAS Draft EIR suggested "Why is LAX allowing so many empty buses to circulate in the CTA? Why hasn't LAX made the rental car agencies that use LAX to use only 1 consolidated vehicle every 15 minutes?" For the reasons discussed in Response to Comment SPAS-PC00130-398 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific

- economic, legal, social, technological, or other considerations make it infeasible. Specifically, since the existing car rental agencies that serve passengers in the CTA are located in separate facilities in the LAX area (Alamo/National and Advantage are located in the City of Inglewood), it is infeasible to establish a consolidated busing operation under the current configuration of the airport that would serve all the various companies. However, as indicated under the heading of "Ground Access Improvements" on pages 2-21, 2-25, 2-38, and 2-41 in Chapter 2 of the SPAS Draft EIR, SPAS Alternatives 3, 4, 8, and 9 include a Consolidated Rental Car Facility, or CONRAC, that would relocate rental car companies into a single location that would lend itself much more easily to a consolidated bus operation. As discussed on page 4-3 of the SPAS Draft EIR, the current SPAS alternatives are conceptual in nature and the Draft EIR provides a programmatic analysis. These types of operational changes will be considered, depending upon the selection of the alternatives, at a time where specific development proposals are made. It should be noted, however, that one consolidated vehicle every 15 minutes would not provide sufficient seating capacity to serve the rental car customer demand.
- ◆ Comment SPAS-PC00130-406 on the SPAS Draft EIR suggested "[w]hy hasn't LAX built a fully standard group 6 taxiway next to the northern complex? How much cheaper would the taxiway be than the moving of the runway? If ground vehicles are interfering [sic] with taxiing aircraft on nearby service roads, why not move the service road out of aircraft taxiways?" For the reasons discussed in Response to Comment SPAS-PC00130-406 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, there may be a misunderstanding as to the relationship between taxiways and vehicle service roads, in that ground vehicles are not allowed on aircraft taxiways and taxiing aircraft are not allowed on vehicle service roads; hence, that is not a problem that SPAS is attempting to resolve. The problem relates to the required safety clearance distances between taxiways and service roads. Due to limited space between Runway 6R/24L and the ends of the concourses for Terminals 1, 2, and 3 and Tom Bradley International Terminal, placement of a Group VI taxiway adjacent to that runway is not feasible without a negative impact to other taxiways/taxilanes such as Taxilane D or Taxiway E or to the vehicle service road. Alternatives 1, 2, 3, 5, 6, and 7 include moving the vehicle service road (VSR) from its current location between Taxiway E and Taxilane D to a more suitable location (i.e., typically south of Taxilane D). However, also due to the aforementioned limited space between Runway 6R/24L and the north concourses, the new location of the VSR affects the available spacing between the taxilanes, taxiways, and runway. In short, the ability to accommodate an ADG VI taxiway adjacent to Runway 6R/24L and the ability to relocate the existing vehicle service road is subject to the space constraints described above, which make such improvements infeasible.
  - ◆ Comments SPAS-PC00130-428 and SPAS-PC00130-919 on the SPAS Draft EIR suggested the installation of a berm to lessen noise pollution. For the reasons discussed in Response to Comment SPAS-PC00130-428 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, as described on page 4-29 and shown on Figure 4.1-4 (Photograph U) in Section 4.1.3.21 of the SPAS Draft EIR, LAWA has constructed 20-foot high buffers between LAX Northside and residential development to the north, consisting of 12-foot-high sound walls on the crest of 8-foot-high landscaped berms on 88th Street and 88th Place between Sepulveda Westway and the Westchester Golf Course. There are also sound walls along portions of La Tijera Boulevard which range in height from 8 to 20 feet. The purpose of these buffers and barriers is to reduce airport-related ground noise in nearby residential areas and to reduce noise impacts from traffic on adjacent roadways. Furthermore, as described on page 4-654 and shown on Figures 4.9-3, 4.9-4, and 4.9-5 of the SPAS Draft EIR, LAX Northside serves as an airport buffer zone between the airport and the Westchester community to the north. Please also

see Response to Comment SPAS-PC00130-737 for an additional description of the LAX Northside buffer area which would serve to reduce noise impacts to the north. In addition, acoustical barriers are only useful for reducing noise impact from aircraft ground activities, and their benefits are greatly affected by surface topography and wind conditions. The effectiveness of a barrier depends on the distance of the noise source from the receiver and the distance of each from the barrier itself, as well as the angle between the ends of the berm and the receiver. While noise berms and noise walls can attenuate noise, they would be largely ineffective for attenuation of aircraft overflight noise. As the noise levels at LAX are dominated by the noise of aircraft in flight, the reduction of ground noise by berms is not considered effective for noise abatement. Therefore, the installation of berms in additional locations is not expected to result in a noticeable decrease in noise at land uses located within Westchester at greater distances from the airport. Section 4.10.1.7 of the SPAS Draft EIR discusses various abatement and mitigation techniques of aircraft noise at LAX to reduce the impacts of the SPAS alternatives.

- ◆ Comment SPAS-PC00130-450 on the SPAS Draft EIR suggested that the SPAS Draft EIR include a funding mechanism to pay for cancer treatment costs and death benefits. For the reasons discussed in Response to Comment SPAS-PC00130-450 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, there are no reported impacts that require or warrant the proposed mitigation. As described in Section 4.7.1.6.5 of the SPAS Draft EIR, and Table 4.7.1-10, cancer risks, chronic non-cancer health hazards, and health effects for on-airport workers were all less than significant. Acute non-cancer health hazards were found to be significant and unavoidable. However, the impact was due to exposure to the TAC acrolein and was only found at or near the fence-line. Acute exposure to acrolein causes mild irritation of the eyes and mucous membranes. Such exposure and impact does not require the extreme measure and costs proposed by the commentor. Therefore, identification of potential sources of funding for treatments is beyond the scope of the SPAS Draft EIR. The SPAS HHRA was prepared in accordance with California Environmental Protection Agency (CalEPA) and U.S. EPA guidance. Neither of these agencies require the actions requested by the commentor. See also Response to Comment SPAS-PC00130-454. Also, cancer risks are evaluated based on an exposure duration of 70 years, and it would be highly speculative, and nearly impossible, to determine whether a specific emissions source, such as LAX, was responsible for a cancer case.
- ◆ Comment SPAS-PC00130-453 on the SPAS Draft EIR suggested "Why hasn't LAWA implemented some form of Air purification in so called "hot spots"? If taxing time for aircraft on the ground is a major source why aren't aircraft being towed by clean air vehicles? Wouldn't airlines save significant amounts of money on fuel by being towed? How much fuel is required in its entirety by taxing? Would fence line hazards be mitigated? By what agency? Who would be measuring?" For the reasons discussed in Response to Comment SPAS-PC00130-453 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Attempting to clean ambient air with an air purification system is not effective since the sources emitting pollutants will continue to impact air quality. Reducing the concentration impacts is best accomplished by measures that control emissions at the sources. Methods to reduce aircraft emissions during taxiing are being studied by various airlines and aircraft equipment manufacturers. Towing aircraft was briefly attempted by Virgin Atlantic, however potential damage to the landing gear over time has caused them to stop the practice.<sup>1</sup>
- ◆ Comment SPAS-PC00130-454 on the SPAS Draft EIR suggested "some form of mitigation that would clean the air going beyond the fence line and providing filtered face masks for all

<sup>1</sup> Deonandan, I. and Balakrishnan, H., Evaluation of Strategies for Reducing Taxi-out Emissions at Airports, American Institute of Aeronautics and Astronautics, 2010.

workers exposed." For the reasons discussed in Response to Comment SPAS-PC00130-454 (Section 4.3 of Part II of the SPAS Final EIR), the suggested measure would not reduce or avoid the impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, regarding mitigation of toxic air contaminants (TAC), many of the mitigation measures that LAWA has committed to as part of the LAX Master Plan with respect to air quality impacts, and that would be applicable to the SPAS alternatives, aim to reduce exhaust emissions from construction equipment (MM-AQ-2) and mobile sources such as aircraft and ground support equipment (MM-AQ-4), and reduce traffic congestion near the airport (MM-AQ-3). There were also a number of project-specific mitigation measures included to decrease emissions from construction and operational sources, including MM-AQ (SPAS)-1, MM-AQ (SPAS)-2, and MM-AQ (SPAS)-3. These mitigation measures focus on reducing emissions from the source before they even go beyond the fence-line rather than trying to capture and treat the air containing TAC as it passes the fence-line. Treating the source is more effective, efficient, and significantly more practical, in that such a single measure would ultimately benefit a larger number of potential receptors and reduce the amount of TAC that are emitted from LAX. In assessing any health and safety issue, the hierarchy for instituting protective measures is: elimination, substitution, engineering controls, administrative controls, and lastly personal protective equipment (PPE). Usually the higher the control in the hierarchy, the more effective it is as a control that offers protection. However, worker health and safety is regulated under the Office of Safety and Health Administration (OSHA) and workers at LAX, including contractors hired by LAWA for construction or other tasks, fall under these regulations. If exposures might exceed protective workplace levels (i.e., permissible exposure limits (PELs)) and cannot be controlled in any other way, personal protective equipment (PPE), including respiratory protection, is provided. The type of respiratory protection is dictated by TAC of concern and airborne concentrations of these TAC. Compliance with OSHA safety and health standards is necessary for airport construction and operations.

- ◆ Comment SPAS-PC00130-482 on the SPAS Draft EIR suggested the use of more fuel efficient planes, substituting solar power for other fuels, and more environmental means of expansion. For the reasons discussed in Response to Comment SPAS-PC00130-482 (Section 4.3 of Part II of the SPAS Final EIR), the suggestions would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, LAWA does not have the legal or practical authority to set aircraft design standards such as aircraft fuel efficiency, which are controlled by the federal government, the FAA, and aircraft manufacturers. Furthermore, as discussed on page 4-1330 of the SPAS Draft EIR, airplanes are becoming more fuel efficient: "New aircraft are 70% more fuel efficient than 40 years ago and 20% better than 10 years ago. Airlines are aiming for a further 25% fuel efficiency improvement by 2020. Modern aircraft achieve fuel efficiencies of 3.5 liters per 100 passenger kilometers. The [Airbus] A380 and [Boeing] B787 are aiming for 3 liters per 100 passenger kilometer [approximately 78 miles per gallon]."

The commentator also asks why solar has not been substituted for other fuels. To the extent the commentator is referring to electricity generation for use at on-site facilities, please see Responses to Comments SPAS-PC00130-480 and SPAS-AR00002-8. To the extent the commentator is referring to incorporation of solar power into airplanes, such a suggestion is infeasible to fully power multi-passenger commercial aircraft. As described in the previous paragraph, LAWA does not have the legal authority to mandate plane design, nor would solar power on passenger planes provide sufficient energy to noticeably offset fuel consumption since the weight of such panels would offset any energy they produce.

LAWA has an ongoing commitment to increasing energy efficiency and implementing energy conservation measures at its airports. Please see Response to Comment SPAS-PC00130-390 regarding programs undertaken at LAX to reduce emissions from ongoing airport activity, including converting LAWA fleet vehicles to alternative fuels, promoting electric automobile

use, and encouraging use of transit and carpools/vanpools. Please see page 4-417 of the SPAS Draft EIR and Response to Comment SPAS-AR00002-19 for discussion of LAWA's existing employee carpool/vanpool program.

- ◆ Comment SPAS-PC00130-488 on the SPAS Draft EIR suggested that a one runway alternative be considered in the SPAS Draft EIR. For the reasons discussed in Response to Comment SPAS-PC00130-488 (Section 4.3 of Part II of the SPAS Final EIR), the suggested alternative would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the concept of having only one runway in the north airfield, leaving LAX with a three-runway system is described and evaluated in Section 2.3.2.3, Three-Runway Airfield, of the SPAS Draft EIR. This section presents several operational problems associated with this alternative and indicates that it would likely result in environmental impacts comparable or greater to the alternatives evaluated in detail in the SPAS Draft EIR. Please also see Response to Comment SPAS-PC00130-1033 for additional discussion regarding operational problems and infeasibility of this airfield concept. The comment does not indicate any environmental advantages of a three-runway system relative to the alternatives evaluated in the SPAS Draft EIR. For these reasons, the commentor's suggested alternative was not evaluated in detail in the SPAS Draft EIR.
- ◆ Comments SPAS-PC00130-563 and SPAS-PC00130-564 on the SPAS Draft EIR suggested planting 1,000 new trees around a specific parking lot. For the reasons discussed in Response to Comment SPAS-PC00130-563 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, LAWA has a number of mitigation measures, which involve planting of trees, including LAX Master Plan Mitigation Measure MM-BC-3 which provides for 2:1 tree replacement ratio for 300 mature trees. Similarly, trees would be planted in compliance with the LAX Street Frontage and Landscape Development Plan Update, which includes the planting of street trees in some locations (see pages 4-11 through 4-13 of the SPAS Draft EIR). However, it is not appropriate to mechanically assign a number of trees to a specific parking lot. Size limitations would preclude planting this number of trees at the subject location. The perimeter of the Parking Lot D and the Jenny Lot is approximately 5,800 linear feet. The planting of at least 1,000 trees to "ring" the site, as requested by the commentor, would place each tree less than six feet from each other, which would not be sufficient room for the root system and branches of most trees. Additionally, the continuous lining of the perimeter of the site with trees would pose the potential for damage to adjacent sidewalk, street, and infrastructure due to root growth. Also, the subject parking lot is located east of, and in proximity to, the north runways and the placement of over 1,000 trees directly beneath the runway flight path could pose an aircraft safety concern relative to being a bird attractant. (See page 4-176 of the SPAS Draft EIR and FAA Advisory Circular 150/5200-33B.)
- ◆ Comment SPAS-PC00130-614 on the SPAS Draft EIR suggested Alternatives 8 and 9 be used as stand-alone options. For the reasons discussed in Response to Comment SPAS-PC00130-614 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, as indicated on page 2-8 in Section 2.3.1 of the SPAS Draft EIR, the ground access improvements associated with Alternatives 8 and 9 are compatible with, and could be paired with, the airfield and terminal improvements proposed under Alternatives 1, 2, 5, 6 and 7. Implementation of only the ground access improvements proposed under Alternatives 8 and 9 is not proposed and such a scenario would not respond most of the project objectives presented in Section 2.2. Specifically, such a scenario would not provide north airfield improvements that support the safe and efficient movement of aircraft at LAX, would not maintain LAX's position as the premier international gateway in supporting and advancing the economic growth and vitality of the Los Angeles region, would not plan improvements that do not result in more than 153 passenger gates at

- 78.9 MAP, and would not produce an improvement program that is efficient, sustainable, feasible, and fiscally responsible.
- ◆ Comment SPAS-PC00130-622 on the SPAS Draft EIR suggested relocating the taxi holding lot inside the CTA parking lot area. For the reasons discussed in Response to Comment SPAS-PC00130-622 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, there is insufficient space to construct a commercial vehicle holding lot within the CTA. Also, there is no evidence that relocating the commercial vehicle holding lot to the CTA would improve efficiency. As can be seen SPAS Draft EIR Figures 1-5, 1-6, 1-12, and 1-13, which delineate the location and size of the commercial vehicle holding lot proposed under SPAS Alternatives 1, 2, 8, and 9, and also depict the CTA relative to building areas (gray shading) and open areas between buildings, there is insufficient space available within the CTA to efficiently accommodate the area needed for commercial vehicles such as taxis and shuttle vans. Moreover, there is no evidence that placing the commercial vehicle holding lot within the CTA would improve the efficiency by which taxis and shuttles could get to passengers awaiting pick up, given the one-way direction of most roads within the CTA. For example, if the holding lot were to be placed in the middle of the CTA, a taxi or shuttle dispatched to pick up passengers at Terminal 1 would be required to travel west on World Way North and/or south on West Way, then east on World Way South to the airport return road at the east end of the CTA, and then circle around to stop at Terminal 1. The dispatch of a taxi or shuttle to Terminal 1 from the currently proposed commercial vehicle holding lot would simply require the vehicle to travel south on Sky Way and stop at the first terminal. Although the physical straight-line distance between Terminal 1 and a holding lot within the CTA might be comparable or even less than the straight-line distance between Terminal 1 and the holding lot associated with the SPAS alternatives, the travel distance of the former would be substantially greater (i.e., approximately 2 to 5 times greater) than the latter, due to the one-way nature of roads within the CTA. Regarding the location of existing commercial vehicle holding lots at LAX, as indicated on page 2-55 of the SPAS Draft EIR, the taxi holding lot is located northeast of the CTA, near 96th Street and Sepulveda Boulevard, as shown on Figure 2-10 of the SPAS Draft EIR. The existing shared ride van holding lot is located on Avion Drive south of Century Boulevard and the charter bus/limousine holding lot is located in the southwest corner of Jenny Street and Westchester Parkway.
  - ◆ Comment SPAS-PC00130-632 on the SPAS Draft EIR suggested that the US Airways building could be retained if LAWA would shorten the length of the runways. For the reasons discussed in Response to Comment SPAS-PC00130-632 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, as stated on page 2-56 in Section 2.3.1.10 of the SPAS Draft EIR, the US Airways Maintenance Building would be removed under Alternatives 3, 5, and 7. Removal of this building would be required due to the lateral movement of Runway 6R/24L and/or the Taxilane D and Taxiway E improvements associated with those alternatives, and is not related to runway length. As can be seen by review of Figure 2-10 in the SPAS Draft EIR, to avoid removal of that structure (Facility #20 on the figure) by reducing the existing length of the runway and still accommodate the lateral runway move and taxilane/taxiway improvements associated with those alternatives, it would be necessary to reduce the length of the runway by about 50 percent. Such a reduction would be contrary to the basic design and function of the runway and therefore would be infeasible.
  - ◆ Comment SPAS-PC00130-702 on the SPAS Draft EIR suggested that CTA access improvements, Option 3 – Tunnel under CTA Loop Roadway would provide grade separation allowing for the Sky Way approach to shift to the eastern part of Park One. For the reasons discussed in Response to Comment SPAS-PC00130-702 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific

- economic, legal, social, technological, or other considerations make it infeasible. Specifically, CTA access improvements, Option 3 -- Tunnel under CTA Loop Roadway described on page 21 of the LAX GTS Report, was determined to be infeasible due to the need to construct the roadway beneath Terminal 0, a reduction in the area available for future airside operations near Terminal 0, and the potential impacts to underground utilities. Therefore, this CTA access option was documented in the LAX GTS Report as one of the options that was preliminarily considered, but rejected for further detailed study.
- ◆ Comment SPAS-PC00130-703 on the SPAS Draft EIR suggested "Why has no option for exiting out of CTA from modified skyway been considered? Drop off in an area of Park One could be built and allow for moving sidewalk or other conveyance to terminals 0 and 1 without going through the CTA traffic and instead exiting to Sepulveda." For the reasons discussed in Response to Comment SPAS-PC00130-703 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the LAX GTS Report did consider alternatives to exit traffic out of the CTA northbound via the proposed Sky Way realignment as presented in Figure 28 on page 23 of the LAX GTS Report, but it was determined this alignment was not feasible because it would have required a new, signalized intersection to be constructed to allow traffic exiting via the airport return roadway (east of the LAWA Administration Building) to cross inbound traffic from Sepulveda and Century Boulevards. Physical constraints caused by the alignment of the airport return roadway and the existing departures level roadway support columns limited available queuing area for vehicles (mainly shuttle buses) which would exit the airport via Sky Way to only a few vehicles per signal cycle. This would result in unacceptable backups on the return roadway and likely the primary airport exit, the intersection of Center Way and World Way South. The comment also suggested that a drop off in an area of Park One could be built and allow for moving sidewalk or other conveyance to terminals 0 and 1 without going through the CTA traffic and instead exiting to Sepulveda. As indicated in Table 2-3 and discussed on page 2-55 of the SPAS Draft EIR, under Alternatives 1, 2, and 5 through 9, the existing commercial vehicle holding lot would be relocated to the eastern portion of the Park One facility. Due to the importance of this site for the efficient operation of future commercial vehicle operations within the CTA, neither the LAX GTS Report nor the SPAS Draft EIR considered the development of a new passenger drop off curb in the portion of the existing Park One lot located east of a realigned Sky Way. An EIR need not consider every conceivable alternative to the project. (In re Bay-Delta Programmatic Environmental Impact Report Coordinated Proceedings (2008) 43 Cal.4th 1143, 1163; State CEQA Guidelines Section 15126.6(a).) CEQA does not require a lead agency to conduct every test or perform all research, study, and experimentation recommended or demanded by commentors. (State CEQA Guidelines Section 15204.) The EIR was prepared with a degree of analysis sufficient to provide the decision-makers with information which enables them to make a decision which intelligently takes account of environmental consequences. (State CEQA Guidelines 15151.)
  - ◆ Comment SPAS-PC00130-749 on the SPAS Draft EIR suggested that the EIR evaluate an alternative that does not build or defers all terminal buildings and taxiways in the plan (presumably the LAX Master Plan). For the reasons discussed in Response to Comment SPAS-PC00130-749 (Section 4.3 of Part II of the SPAS Final EIR), the suggested alternative would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, this alternative would be infeasible because it would not accomplish any of the fundamental project objectives. Further, this alternative would essentially be a "no build" no project alternative calling for no further airport construction. However, LAWA has the discretion to develop a no project alternative that describes existing conditions plus "what would be reasonably be expected to occur in the foreseeable future if the project were approved, based on current plans and assumptions." (State CEQA Guidelines Section 15126.6(e)(2)). When a proposed project is the revision of a plan, the Guidelines (Section 15126,6(e)(3)(A)) specifically provide that the

- no project alternative shall be the continuation of the existing plan into the future. For these reasons, the SPAS Draft EIR designates Alternative 3, which calls for LAX Master Plan projects to be implemented as originally envisioned, as the no project alternative. For these reasons, the commentor's suggested alternative was not evaluated in detail in the SPAS Draft EIR.
- ◆ Comment SPAS-PC00130-756 on the SPAS Draft EIR suggested relocating bus and commercial vehicle drop-offs to the parking structures. For the reasons discussed in Response to Comment SPAS-PC00130-756 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, as provided in Section 4.12.1 of the SPAS Draft EIR, with the addition of Mitigation Measure MM-ST(OA) (SPAS)-1, the SPAS alternatives would have no significant impact to on-airport traffic. The commentor does not provide any evidence that relocating bus and commercial vehicle drop-off areas to the parking structures would eliminate a significant on-airport traffic impact. Further, relocating bus and commercial vehicle drop-off areas to the parking structure would have a number of disadvantages. The existing public parking structures provide a maximum vertical clearance of eight feet, two inches, which limits the commercial vehicles that could enter the structures. Low ceiling height and limited ventilation, coupled with the increase in the number of vehicles operating within the garage at any given time, would have to be considered. Additionally, relocating commercial modes to the public parking structures would increase the number of passengers who would be required to cross the arrivals level outer roadway. As part of Options 1, 2, and 4 documented in the LAX GTS Report (on pages 9, 10, and 15, respectively), consideration was also given to relocating passenger pick up by private vehicles to inside the public parking structures; however analyses showed that vehicle queues at the garage entrances would adversely impact traffic flow on the arrivals level roadway. Relocating commercial vehicle traffic to the public parking structures would require that new exits, and in some cases new entrances be constructed on the ground level of the structures. These would be necessary to allow a commercial vehicle picking up passengers within the public parking structure at one terminal to exit and then drive to the next terminal's public parking structure to pick up additional passengers. Currently, none of the public parking structures within the CTA have an exit onto either World Way North or World Way South which commercial vehicle use to circulate within the CTA.
  - ◆ Comments SPAS-PC00130-800, SPAS-PC00130-815, and SPAS-PC00130-1033 on the SPAS Draft EIR suggested a one-runway alternative. For the reasons discussed in Response to Comment SPAS-PC00130-800 (Section 4.3 of Part II of the SPAS Final EIR), the suggested alternative would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the runway configuration studied in the North Airfield Safety Study is described and evaluated in Section 2.3.2.3, Three-Runway Airfield, of the SPAS Draft EIR. This section presents several operational reasons why this alternative was considered infeasible, and was likely to result in environmental impacts comparable or greater to the alternatives evaluated in detail in the SPAS Draft EIR. For these reasons, the commentor's suggested alternative was not evaluated in detail in the SPAS Draft EIR.
  - ◆ Comment SPAS-PC00130-848 on the SPAS Draft EIR suggested that no alternative be selected as the preferred alternative until after the North Runway Safety Studies and analysis have been completed and examined. The comment also requests data from the South Airfield Improvement Program to determine the effectiveness of those improvements, such as the centerline taxiway, in reducing incursions. For the reasons discussed in Response to Comment SPAS-PC00130-848 (Section 4.3 of Part II of the SPAS Final EIR), the suggested alternative would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the SPAS Draft EIR includes a full range of airfield improvement alternatives, proposing seven different options that range from moving Runway 6L/24R 350 feet north, to moving Runway 6R/24L

340 feet south, to not moving either runway but making taxiway improvements, to not making any notable airfield improvements other than federally mandated safety improvements, and other options. As further described below and also addressed in Responses to Comments SPAS-PC00130-849 and SPAS-PC00130-850, the major elements in the additional proposals offered by ARSAC are either not feasible, do not respond to the project objectives, have environmental impacts that are similar to or worse than the alternatives addressed in the SPAS Draft EIR, and/or are already reflected in the range of alternatives addressed in the SPAS Draft EIR.

The comment does not indicate any environmental advantages of a three-runway configuration relative to the alternatives evaluated in the SPAS Draft EIR. The three-runway configuration studied in the North Airfield Safety Study is described and evaluated in Section 2.3.2.3 of the SPAS Draft EIR. This section presents several operational problems associated with this alternative and indicates that it would likely result in environmental impacts comparable or greater to the alternatives evaluated in detail in the SPAS Draft EIR. Therefore, this alternative was not evaluated in detail in the SPAS Draft EIR.

The South Airfield Improvement Program, which included the development of a centerfield taxiway, was completed in June 2008. As indicated in Table 4.7.2-7 on page 4-510 of the SPAS Draft EIR, there have been no serious runway incursions (i.e., Category A or Category B) on the south airfield since that time.

- ◆ Comment SPAS-PC00130-850 on the SPAS Draft EIR suggested that "LAWA should discuss how a "multi-airport discount rate" system could encourage the shift of flights or the addition of new flights to ONT and PMD. The "Multi-Airport Discount Rate" would give airlines that operate at LAX, ONT and PMD more favorable landing fees and terminal rents than operating solely at LAX. Airlines that operate solely at ONT and/or PMD would get even better rates for not operating to LAX. The "multi-airport discount rate" plan should be available to international carriers, as well as domestic carriers. For international flights, there would have to be parity between those international flights operated by domestic and foreign airlines. LAWA should examine changing the financing model at LAX (residual vs. compensatory) to allow for cross-subsidization of ONT and PMD to support the "multi-airport discount rate" system." For the reasons discussed in Response to Comment SPAS-PC00130-850 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, as it relates to the suggestion that LAWA should consider a "multi-airport discount rate", it is assumed the commentor is suggesting that LAWA provide discounted fees at LAX for air carriers that also offer service at ONT or PMD. Under federal regulation, an airport sponsor is required to set rates, fees, rentals, and other charges without unjust discrimination (49 U.S.C. Sec. 47107). This requirement has been interpreted to mean that an airport sponsor must charge substantially comparable rates, fees, rentals, and other charges to airlines for a similar use of their facilities. Providing discounted rates for certain carriers because they offer service at another LAWA airport could be viewed by the FAA as discriminatory, in that it offers preferential treatment for some "local benefit", similar to providing preferential treatment for carriers that also lease additional maintenance or storage space from an airport sponsor, an action prohibited by the FAA. For these reasons, LAWA will not consider "multi-airport discount rate" in connection with the SPAS process.
- ◆ Comment SPAS-PC00130-863 on the SPAS Draft EIR suggested the inclusion of two sub-options: extension of 24R west and no further extension. For the reasons discussed in Response to Comment SPAS-PC00130-863 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the design of Alternative 6 assumes no westerly extension of Runway 6L/24R and it is not necessary to carry a sub-option that assumes a westerly extension. Other alternatives, such as Alternatives 1 and 5, include a westerly extension of the runway, and are sufficient to provide

a general basis of comparison for decision-making at the program level of planning. The SPAS alternatives constitute a reasonable range of alternatives, sufficient to allow informed decision-making. (State CEQA Guidelines Section 15126.6(a); *City of Maywood v. Los Angeles Unified School District* (2012) 208 Cal.App.4th 362, 419.) The SPAS Draft EIR includes sufficient information about each alternative to allow meaningful evaluation, analysis and comparison with the proposed project. (State CEQA Guidelines Section 15126.6(a)). The commenter does not provide any evidence that the proposed "sub-options" offer any substantial environmental advantages and, therefore, no further analysis is required. (*City of Maywood v. Los Angeles Unified School District* (2012) 208 Cal.App.4th 362, 419.)

- ◆ Comment SPAS-PC00162-2 on the SPAS Draft EIR suggested a runway design alternative that would eliminate all runway exits along Runway 6L/24R except for the ones at far ends of the runway. For the reasons discussed in Response to Comment SPAS-PC00162-2 (Section 4.3 of Part II of the SPAS Final EIR), the suggested alternative would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, this design is infeasible due to the operational problems, environmental impacts, and safety issues that it would pose. Additionally, it would not respond to the project objectives related to improving the north airfield. Therefore, it was not evaluated in detail in the SPAS Draft EIR.

Under this runway design alternative, all arriving aircraft on Runway 6L/24R would be required to taxi to the end of the runway before crossing Runway 6R/24L, which is the primary departure runway in the north airfield. The implication in this concept is that arriving aircraft on Runway 6L/24R could taxi across Runway 6R/24L more safely at the end of the runway because any departing aircraft would probably be well up in the air by the time it gets to that taxiway crossing point (i.e., the taxiing arriving aircraft could cross beneath the departing aircraft). One of the many problems associated with such a concept is that no aircraft is allowed to taxi across an active runway, that is a runway where an aircraft arrival operation or an aircraft departure operation is occurring, for the entirety of the subject operation. In other words, for a departure operation, the air traffic control tower will hold all nearby aircraft from even starting to cross the departure runway until the departing aircraft has cleared the end of the runway on takeoff. There cannot be any objects, including taxiing and holding aircraft, within the FAA designated Object Free Zone (OFZ), which extends 2,600 feet past the end of the runway, as shown on Figure 4.7.2-2 of the SPAS Draft EIR. Should an aircraft taxi across a departure runway while an aircraft departure operation is occurring, thereby entering the runway in front of a departing aircraft, it would be classified as a Category A or Category B runway incursion, which are the most serious/hazardous incursion types, even if taxiing aircraft end up passing beneath the departing aircraft.

Runway approaches are always designed so that aircraft land about one thousand feet down the runway. The navigation aids (especially the glide slope) and the runway markings are designed around the one thousand foot target. A single taxiway exit at the very end would require aircraft to remain on the runway until they reach that exit. Given that the normal landing distance needed for aircraft does not put them at the very end of the runway, additional taxi distance would be required to reach the end of the runway. Although most larger ADG V and VI aircraft would finish their landing closer to the runway end, some additional taxiing on the runway would still be required. The majority of aircraft at LAX are typically smaller ADG III type aircraft (i.e., Boeing 737 or Airbus A320) and their required landing distance is much shorter; hence, having one exit taxiway at the very end would require substantially more taxiing time and distance. All of the extra taxiing on the runway would increase runway occupancy time (otherwise known as ROT) which would require increasing "in-trail" distances between aircraft on the approach to avoid "go-arounds." It should be noted that due to safety issues and concerns, it is not practical for aircraft to "land long" or taxi faster in an effort to get to the end of the runway in a shorter amount of time.

The comment also suggested that if larger aircraft need more operating space than what is currently available on the north airfield, they should simply use the south runways, such an approach is contrary to the project objective to improve airfield balance. There is currently a disproportionate amount of large aircraft departures occurring on the south airfield, at which LAWA seeks to improve the north airfield to reduce taxiing between the north and south runway complexes.

In light of the types of operational problems described above, the suggested alternative would fail to respond to the project objectives described in Section 2.2 of the SPAS Draft EIR relative to providing north airfield improvements that support the safe and efficient movement of aircraft at LAX. Additionally, the operational problems associated with this alternative would not support other project objectives. For example, it would not maintain LAX's position as the premier international gateway in supporting and advancing the economic growth and vitality of the Los Angeles region (i.e., ongoing airfield congestion and delays and airspace delays and rerouting of arriving flights could hamper LAX's ability to accommodate international flights), would not enhance safety at LAX, and would not support an improvement program that is efficient, sustainable, feasible, and fiscally responsible. For these reasons, the commentor's suggested alternative was not evaluated in detail in the SPAS Draft EIR.

- ◆ Comment SPAS-PC00170-1 on the SPAS Draft EIR suggested the installation of noise walls. For the reasons discussed in Response to Comment SPAS-PC00170-1 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, airport-related noise impacts in the Playa del Rey area are primarily from aircraft that are departing from, or approaching (under "east flow" conditions when aircraft arrive from the west and land towards the east), the north airfield. Such aircraft are typically several hundred feet up in the air when passing by Playa del Rey. Noise attenuation (reduction) associated with noise walls comes from the ability to interrupt (block) the noise path between source and receptor. As such, it is anticipated that the placement of noise walls between the airport and Playa del Rey would not reduce aircraft noise levels. Additionally, placement of noise walls may result in visual impacts to the local area. Therefore, the suggestion to install noise walls in this area is rejected because there is no evidence it would reduce significant environmental impacts and would likely have additional adverse impacts.
- ◆ Comment SPAS-PC00176-1 on the SPAS Draft EIR suggested the use of a "pod-type self-driving car" to transfer people from their cars to LAX. For the reasons discussed in Response to Comment SPAS-PC00176-1 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the comment does not indicate any environmental advantages of a "pod-type self-driving car" relative to the alternatives evaluated in the SPAS Draft EIR, nor is there any evidence that such vehicles are technologically feasible.
- ◆ Comment SPAS-PC00177-2 on the SPAS Draft EIR suggested incentives such as the removal of power poles and planting of trees. For the reasons discussed in Response to Comment SPAS-PC00177-2 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the SPAS project does not include the removal of power poles or the planting of trees for this area of Westchester. However, along the southern boundary of the area referenced by the commentor, south of 88th Place and 88th Street and east of Emerson Avenue, is LAX Northside which serves as an airport buffer zone (comprised of compatible development and landscape) between airfield operations and the Westchester community. This area is subject to use restrictions, height restrictions, setback requirements, and landscape requirements (including a 30-foot

landscaped buffer setback along 88th Street between Sepulveda Westway and Liberator Avenue).

- ◆ Comment SPAS-PFA00001-1 on the SPAS Draft EIR suggested an alternative concept for improvements to LAX with the following main components:
  1. Extend heavy-rail transit service to LAX via Metrolink, Amtrak, and High-Speed Rail (HSR). This would be accomplished via an underground rail tunnel system coming from the north along Aviation Boulevard and turning west at Century Boulevard to extend beneath the CTA, where the Metrolink and Amtrak would continue along beneath the north side of the CTA with stops at the CTA terminals, Tom Bradley International Terminal (TBIT), and the future Midfield Satellite Concourse (MSC). The HSR would continue along beneath the south side of the CTA with stops at the CTA, TBIT, MSC, and an LAX employee commuter station proposed in the western portion of the airport.
  2. Extend light-rail transit service to LAX via an extension of the Metro Green Line along Aviation Boulevard with a western branch line along Century Boulevard extending into and around the CTA. The segments of the Green Line within the CTA, Century Boulevard, and Aviation Boulevard north of Century Boulevard would be on an aerial (elevated) platform, while the segment south of Century Boulevard would be in an underground tunnel.
  3. Convert the CTA's easternmost parking garages (Parking Structures P-1 and P-7) into a municipal bus terminal, with station connecting to the Green Line, Metrolink, and Amtrak.
  4. Do not develop an Automated People Mover (APM) system at LAX.
  5. Leave the north airfield and surrounding areas essentially as they are today. Under this concept, there would be minimal airfield changes and the north airfield would be used primarily for smaller aircraft. Lincoln Boulevard would not be modified at all and there would be no development in LAX Northside.
  6. Extend the south runways east past Aviation Boulevard and place Aviation Boulevard within a tunnel between Century Boulevard and Imperial Highway. With these runway extensions, larger aircraft would operate primarily on the south airfield. Under this concept, uses within the runway extension area, as well in the areas extending north to Century Boulevard and between La Cienega Boulevard and the I-405 would be acquired by LAWA and demolished.

For the reasons discussed in Response to Comment SPAS-PFA00001-1 (Section 4.3 of Part II of the SPAS Final EIR), the suggested alternative would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, elements of the alternative concept described above for LAX improvements are similar to elements already included in the SPAS alternatives and/or do not avoid or substantially lessen significant environmental impacts that would occur under the alternatives addressed in the SPAS Draft EIR. Therefore, the alternative concept was not evaluated in detail in the SPAS Draft EIR. The reasons for this are described below, based on the same order of concept elements summarized above.

1. Heavy-Rail Transit Service to LAX: LAWA does not have any responsibility, authority, or jurisdiction to bring heavy-rail transit to LAX. Such transit services occur directly through Metrolink, Amtrak, and the California High-Speed Rail Authority. None of those agencies currently has plans or funding to extend service to or near LAX. The planned California High-Speed Rail system does not include a stop at or near LAX; however, as currently envisioned, the high-speed rail alignment would stop at Union Station in downtown Los Angeles, where passengers could board the Union Station FlyAway to reach LAX. Therefore, heavy-rail transit service to LAX is considered infeasible. Also, the construction impacts associated with development of an extensive underground tunnel network into and beneath the CTA, extending that tunnel network west beneath the airfield operations area, and development of above-ground station connections would be substantial; these impacts would far exceed

construction impacts of ground transportation system improvements, such as the elevated busway or APM system, proposed under the various SPAS alternatives.

2. Light-Rail Transit Service to LAX: LAWA does not have the responsibility or authority to bring light-rail transit service into LAX, as that service is within the jurisdiction of Metro. However, with the exception of Alternative 4, all of the SPAS alternatives include improvements to enhance connections with and use of Metro light-rail transit service at LAX. This would occur primarily through the integration of SPAS-related ground transportation system improvements with Metro light-rail transit corridors and stations, such as the connectivity between the elevated busway or APM systems proposed under Alternatives 1, 2, 8, and 9 and the future Metro Crenshaw/LAX Transit Corridor and Station, or the pedestrian walkway between the Intermodal Transportation Center (ITC) and the existing Green Line Aviation Station proposed under Alternative 3. Additionally, LAWA and Metro have been coordinating, and will continue to coordinate, on the Airport Metro Connector Project described on page 5-22 of the SPAS Draft EIR to provide light-rail transit service directly into the CTA. It is anticipated that Metro's formulation and evaluation of alternative concepts for the Airport Metro Connector Project may include the types of alignments and facilities suggested by the commenter. (See Topical Response TR-SPAS-T-1 for further discussion of transit options into LAX.)

3. Municipal Bus Terminal Within CTA: Regarding the suggested conversion of existing parking facilities at the east end of the CTA to a municipal bus terminal, having a major bus facility within the CTA would adversely affect traffic conditions within the CTA, based on the size and number of buses that would likely be added to the traffic mix within the CTA. Of particular concern would be the one intersection within the CTA that is anticipated to have unavoidable significant impacts under all of the SPAS alternatives in future (2025) conditions. That intersection, World Way South and Center Way, is one of the main exit points from the CTA and the placement of a municipal bus facility immediately adjacent to it, and addition of numerous bus trips to the intersection, would exacerbate that significant impact. Also, the bus trips within the CTA could result in additional intersections being significantly impacted, that would not otherwise occur under the current range of SPAS alternatives. The worsening of traffic conditions within the CTA would be contrary to the project objective of improving traffic conditions in the CTA, as described in Section 2.2 of the SPAS Draft EIR. In addition to the adverse impacts to CTA traffic, the placement of the municipal bus center within the CTA would not, from a bus route logistics standpoint, be as efficient as the location currently proposed by Metro, that being adjacent to the future Crenshaw/LAX Century/Aviation Station. The location proposed by Metro would enable buses to take access to and from a number of major streets in the nearby area, whereby the location within the CTA would require all buses to travel on Century Boulevard and Sepulveda Boulevard before accessing other major streets in the nearby area.

4. No APM: Although this concept suggests that all non-automobile access to and within the CTA be provided by a combination of the aforementioned heavy-rail transit and light-rail transit systems, such systems would not provide the traffic benefits of having an APM or elevated busway connect the CTA with the ITF, ITC, CONRAC, or GTC proposed under various SPAS alternatives, which would transport passengers/customers between these airport-related facilities using a dedicated route removed from the local street system. Not providing an APM would be contrary to the project objective of improving the ground access system to improve traffic conditions within the CTA.

5. No/Minimal Improvements to the North Airfield: SPAS Alternative 4 already reflects a scenario where no improvements are made to the north airfield, except for federally-mandated Runway Safety Area improvements. As described in the impacts analysis presented in Chapter 4 of the SPAS Draft EIR, implementation of this alternative would substantially reduce construction-related impacts compared to the other SPAS alternatives, but would result in greater long-term operations-related air quality and aircraft noise impacts.

However, this concept would not respond to the project objective described in Section 2.2 of the SPAS Draft EIR relative to improving the north airfield to support safe and efficient movement of aircraft. Regarding the suggestion that there be no LAX Northside development, the LAX Northside project is not part of SPAS.

6. Extend Runways in South Airfield: The concept of further improving the south airfield to better accommodate large aircraft, in lieu of improving the north airfield, not only fails to address other problems associated with the north airfield, as described in Section 2.2 of the SPAS Draft, but would exacerbate the existing imbalance between the north and south airfields relative to large aircraft. As described in Section 2.2, the inability of some large heavy aircraft to depart from Runway 6R/24L due to insufficient runway length requires them to use Runway 7L/25R, which causes an imbalance in such operations between the two airfields. Although the south airfield can already accommodate large heavy aircraft and there is not a need to lengthen the runways, as suggested under this alternative concept, any degree to which additional operations of large aircraft are shifted to the south airfield under this concept (i.e., by leaving the north airfield unimproved and discouraging large aircraft operations in that area while improving the south airfield to draw such operations), would result in greater air quality and aircraft noise impacts than would otherwise occur by leaving the south airfield in its current configuration and improving the north airfield. Adverse air quality and noise impacts associated with shifting a greater number of aircraft operations from the north airfield to the south airfield would occur due to longer taxiing times and distances for aircraft (i.e., more air pollutant emissions from aircraft engines) that are gated near the north airfield but have to use the south runway and from placing a greater number of aircraft arrivals and departures over densely populated areas east of the south airfield (higher concentrations of homes and people exposed to aircraft noise impacts). Additionally, the easterly extension of the runways would shift the aircraft noise contours for the south airfield eastward, which, in turn, would increase noise impacts on highly populated areas east of the airport. Also, the extent of land area proposed for acquisition and demolition of existing uses under this concept would substantially increase construction-related impacts as well as land use impacts (i.e., loss of existing land uses). For these reasons, the commentor's suggested alternative was not evaluated in detail in the SPAS Draft EIR.

- ◆ Comment SPAS-PFA00001-6 on the SPAS Draft EIR suggested relocating the municipal bus terminal to the CTA. For the reasons discussed in Response to Comment SPAS-PFA00001-6 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, it is assumed that by the SPAS horizon year (2025), Metro will relocate the current 96th Street Metro Bus Station, which is located between Vicksburg Avenue and Jenny Street, to a new bus center located adjacent to the planned Aviation/Century Station. Access to the CTA from the relocated bus center would be provided by the SPAS APM or dedicated busway. Relocation of the bus station to the CTA is not under consideration by either LAWA or Metro and is considered infeasible for a number of reasons. Specifically, relocating this station to the CTA would result in delays for the non-airport passengers who are believed to make up the majority of the passengers on these buses. The existing garages on the eastern end of the CTA do not have sufficient vertical clearance to accommodate Metro buses; accommodation of buses could only occur if a garage was demolished and reconstructed. Moreover, use of a garage for regional bus service would reduce the amount of on-airport parking. Finally, airport passengers arriving on Metro buses to the easternmost parking garage in the CTA could be required to walk in excess of 2,300 feet to reach their terminal or transfer to the airport's inter-terminal shuttle. Please also see Response to Comment SPAS-PFA00001-1 for additional reasons supporting the conclusion that relocating the municipal bus terminal to the CTA is considered infeasible. Additional details on the infeasibility of the commentor's suggestions are provided in Response to Comment SPAS-PFA00001-6.

- ◆ Comment SPAS-PH300034-1 on the SPAS Draft EIR suggested several features of San Francisco International Airport (SFO) that the commentor recommends for LAX. For the reasons discussed in Response to Comment SPAS-PH300034-1 (Section 4.3 of Part II of the SPAS Final EIR), the suggestion would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, regarding rail transit, such as BART having a line to SFO, Los Angeles Metro has approved development of the Crenshaw/LAX Transit Corridor and Station which will provide a new transit line near LAX, in addition to the existing Metro Green Line, and will include a station near the intersection of Aviation Boulevard and Century Boulevard. As described in Section 2.3 of the SPAS Draft EIR, Alternatives 1, 2, 8, and 9, propose an elevated busway or APM system to the CTA that can be integrated with the new Metro station. The APM system under Alternative 3 could also link to that station. Regarding the automated people mover (APM) to the consolidated rental car (CONRAC) facility at SFO, SPAS Alternatives 3 and 4 propose the same type system, and SPAS Alternative 8 provides essentially the same system using an elevated/dedicated busway instead of an APM. In summary, the very suggestions offered by the commentor are already included in the range of alternatives currently being considered for SPAS. For these reasons, the commentor's suggested alternative was not evaluated in detail in the SPAS Draft EIR.
  - ◆ Comment SPAS-PH300034-2 on the SPAS Draft EIR suggested LAX become organized like Heathrow Airport. For the reasons discussed in Response to Comment SPAS-PH300034-2 (Section 4.3 of Part II of the SPAS Final EIR), the suggested alternative would not reduce or avoid impacts of the project, and specific economic, legal, social, technological, or other considerations make it infeasible. Specifically, the comment does not describe a specific potentially feasible alternative that should have been evaluated in the SPAS Draft EIR. Many of the improvements associated with the various SPAS alternatives seek to improve efficiency and quality of service at LAX. These include airfield improvements to improve the safety and efficiency, as summarized in Table 1-12 of the SPAS Draft EIR, and ground transportation system improvements as described in Chapter 2 of the SPAS Draft EIR. While the commentor's comparisons between Heathrow International Airport and LAX suggest that it's possible to "do more with less" (i.e., Heathrow handling more passengers within a smaller footprint and with fewer runways), such simple comparisons are not necessarily a true indicator of airport efficiency. There are many factors that influence the number of passengers accommodated at an airport, not the least of which is air travel market activity. Heathrow handled more passengers in 2011 than LAX not because it was more efficient than LAX, but rather there was comparatively more market demand for air travel through Heathrow. Heathrow has long been the major international airport serving Europe. In 2011, over 97 percent of the passenger activity was international,<sup>1</sup> compared to approximately 16 percent for LAX. Another key difference between the airports is approximately 35 percent of the passenger activity at Heathrow was on connecting flights, compared to 30 percent at LAX. While Heathrow operates with fewer runways than LAX (2 at Heathrow compared to 4 at LAX), it has a greater number of aircraft gates to accommodate high volumes of passengers (203 passenger gates at Heathrow compared to 159 passenger gates at LAX). Again as noted above, however, it is not so much the physical layout of the two airports and number of facilities with each that makes the difference between the passenger activity levels at the two airports in 2011, but rather the air travel market demands specific to each airport. For these reasons, the commentor's suggested alternative was not evaluated in detail in the SPAS Draft EIR.
- <sup>1</sup> Heathrow Airport, Heathrow Facts and Figures, Available: [www.heathrowairport.com/about-us/facts-and-figures](http://www.heathrowairport.com/about-us/facts-and-figures), accessed November 30, 2012.
- ◆ A letter from Bill Rosendahl to Mr. William Roschen, President, City Planning Commission, dated January 16, 2013 suggested "a new Metrolink connection to L.A./Ontario Airport, as an effort to mitigate for traffic growth to LAX and regionalize air traffic in Southern California...This would link Santa Barbara, Palmdale, Ontario, and Palm Springs to our

regional transportation network. It's a no brainer, and it would allow international passengers to fly through Ontario and get to Downtown Los Angeles in 20 minutes, as compared to a 40-minute commute to LAX."<sup>1</sup> The suggestion is infeasible at this time as it is not reasonably foreseeable within the horizon year of the SPAS analysis and would therefore not reduce or avoid significant impacts because: (1) According to Metrolink spokesman Scott Johnson, "At our current schedule, we will not be able to provide a 20-minute route. Our schedule may be anywhere between 45 minutes to an hour but that's still faster than traveling the 60 Freeway or the 10 and 210 freeways,"<sup>1</sup> (2) such a project will require substantial consultation with Metro and SCAG, (3) such a project will require Metro and SCAG to make various policy choices to amend the RTP and related long term transportation plans which cannot be determined at this time (e.g., funding such a suggestion could potentially eliminate or delay other regional projects which may be of higher priority), (4) Metro and SCAG would have to perform additional transportation planning to determine the effectiveness of such a suggestion, (5) given the large scope of the suggested project, such planning should be done on regional level rather than based upon the needs of individual components of the transportation system such as LAX (i.e., regional planning should be based upon regional concerns, see *Citizens of Goleta Valley v. Board of Supervisors of Santa Barbara County* (1990) 52 Cal.3d 553 ["...the keystone of regional planning is consistency-between the general plan, its internal elements, subordinate ordinances, and all derivative land-use decisions...Case-by-case reconsideration of regional land-use policies, in the context of a project specific EIR, is the very antithesis of that goal."]) While such a suggestion is not considered feasible at this time, LAWA will continue to study such options with Metro and SCAG consistent with regional transportation planning requirements.

<sup>1</sup> "LA subcommittee to discuss Metrolink connection to ONT," [Inland Valley Daily Bulletin](http://www.dailybulletin.com/breakingnews/ci_22429097/la-subcommittee-discuss-metrolink-connection-ont), Liset Marquez, January 22, 2013, Available: [http://www.dailybulletin.com/breakingnews/ci\\_22429097/la-subcommittee-discuss-metrolink-connection-ont](http://www.dailybulletin.com/breakingnews/ci_22429097/la-subcommittee-discuss-metrolink-connection-ont), accessed January 28, 2013.

#### **H. Findings on Responses to Comments on the Draft EIR and Revisions to the Final EIR**

The SPAS Final EIR does not identify any new significant environmental impacts that were not already identified by the SPAS Draft EIR. No new mitigation measures were imposed on the project that could result in a new significant environmental impact. The SPAS Final EIR also does not identify any increases in the severity of any environmental impacts discussed in the SPAS Draft EIR. In addition, public comment on the SPAS Draft EIR did not identify any new alternatives to the project that are considerably different from those evaluated in the EIR and that would clearly lessen the significant environmental impacts of the project.

The environmental effects of the LAWA Staff-Recommended Alternative are the same as Alternative 1, Alternative 9, or a combination of the impacts of these alternatives, as set forth in the SPAS Draft EIR, or the impact of the LAWA Staff-Recommended Alternative falls within the low and high ends of the ranges of impacts presented in the Draft EIR. Similarly, all LAX Master Plan commitments, LAX Master Plan mitigation measures, and SPAS-specific mitigation measures that pertain to the LAWA Staff-Recommended Alternative were identified in the SPAS Draft EIR, except for those that were modified as a result of responses to comments, and added to the SPAS Draft EIR through corrections and additions to that document, as identified in Chapter 5 of Part II of the Final EIR. The LAWA Staff-Recommended Alternative would not result in any new significant environmental impact beyond those described in the SPAS Draft EIR or a substantial increase in the severity of an environmental impact described in the SPAS Draft EIR, and does not represent an alternative or mitigation measure that is considerably different from others analyzed in the SPAS Draft EIR, as amended by corrections and additions as noted above.

Responses to comments made on the SPAS Draft EIR and revisions made in the SPAS Final EIR merely clarify and amplify the analysis presented in the document and do not amount to significant new information that changes the EIR in a way that deprives the public of a meaningful opportunity to comment on a substantial adverse environmental effect of the project or a feasible

way to mitigate or avoid such an effect that LAWA has declined to implement. Therefore, the BOAC finds that recirculation of the SPAS EIR is not required pursuant to CEQA Guidelines §15088.5(b).

**I. Location and Custodian of Records**

The documents and other materials that constitute the administrative record for LAWA's actions related to the project are located at the City of Los Angeles, Los Angeles World Airports, 7301 World Way West, 3rd floor, Los Angeles, CA 90045. The LAWA Capital Programming and Planning Division is the custodian of the administrative record for the project.

**Los Angeles International Airport  
Specific Plan Amendment Study Project**

**Mitigation Monitoring and Reporting Program**

**February 2013**



## ***SPAS Project Mitigation Monitoring and Reporting Program***

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This document constitutes the Mitigation Monitoring and Reporting Program (MMRP) for the Los Angeles International Airport (LAX) Specific Plan Amendment Study (SPAS). This MMRP specifies the monitoring and reporting requirements for the SPAS Project, as related to implementation of applicable LAX Master Plan commitments and mitigation measures, applicable Bradley West Project (BWP)-specific mitigation measures (i.e., measures adopted in connection with approval of the Bradley West Project, which also pertain to, and have been considered within, the analysis completed for the SPAS EIR), and SPAS-specific mitigation measures identified in the SPAS Final EIR. Such commitments and measures include many of those set forth in the LAX Master Plan Final EIR, as well as additional new measures identified in the SPAS Final EIR. The LAX Master Plan commitments and measures and the BWP-specific measures identified below are already being implemented consistent with the MMRP adopted for the LAX Master Plan and the Bradley West Project and were considered part of the project analyzed in the SPAS EIR.

This MMRP provides the number and title of each applicable LAX Master Plan commitment, LAX Master Plan mitigation measure, Bradley West Project-specific mitigation measure, Community Benefits Agreement measure, and SPAS-specific mitigation measure, the full text of the subject commitment or mitigation measure, the SPAS impact being addressed, and the timing of implementation, monitoring frequency, and actions indicating compliance. The MMRP identifies each commitment and measure by the environmental discipline of the measure. Table 1 below lists the LAX Master Plan commitments, LAX Master Plan mitigation measure, Bradley West Project-specific mitigation measures, Community Benefits Agreement measure, and SPAS-specific mitigation measures that are applicable to environmental impacts by discipline; this table includes commitments and measures within the subject discipline, as well as applicable commitments and measures from other disciplines that address impacts within the subject discipline.

# SPAS Project Mitigation Monitoring and Reporting Program

Table 1

## LAX Master Plan Commitments, LAX Master Plan Mitigation Measures, and SPAS-Specific Mitigation Measures as Related to the LAWA Staff-Recommended Alternative

	SRA
<b>Aesthetics</b>	
<b>LAX Master Plan Commitments</b>	
DA-1. Provide and Maintain Airport Buffer Areas	X
DA-2. Update and Integrate Design Plans and Guidelines	X
LU-2. Establishment of a Landscape Maintenance Program for Parcels Acquired Due to Airport Expansion	X
LU-4. Neighborhood Compatibility Program	X
LI-2. Use of Non-Glare Generating Building Materials	X
LI-3. Lighting Controls	X
<b>LAX Master Plan Mitigation Measures</b>	
MM-DA-1. Construction Fencing	X
<b>SPAS Mitigation Measures</b>	
MM-HA (SPAS)-2. Preservation of Historic Resources: Theme Building and Setting	X
<b>Air Quality</b>	
<b>LAX Master Plan Commitments</b>	
None	
<b>LAX Master Plan Mitigation Measures<sup>1</sup></b>	
MM-AQ-1. LAX Master Plan Mitigation Plan for Air Quality, Framework	X
MM-AQ-2. LAX Master Plan Mitigation Plan for Air Quality, Construction-Related Mitigation Measures	X
MM-AQ-3. LAX Master Plan Mitigation Plan for Air Quality, Transportation-Related Mitigation Measures	X
MM-AQ-4. LAX Master Plan Mitigation Plan for Air Quality, Operations-Related Mitigation Measures	X
Community Benefits Agreement, Section X.A., Electrification of Passenger Gates <sup>1</sup>	X
Community Benefits Agreement, Section X.F., Construction Equipment <sup>1</sup>	X
Community Benefits Agreement, Section X.K., PM2.5 <sup>1</sup>	X
Community Benefits Agreement, Section X.L., Rock-Crushing Operations and Construction Materials Stockpiles <sup>1</sup>	X
Community Benefits Agreement, Section X.M., Limits on Diesel Idling <sup>1</sup>	X
Community Benefits Agreement, Section X.N., Provision of Alternative Fuel <sup>1</sup>	X
<b>SPAS Mitigation Measures</b>	
MM-AQ (SPAS)-1. Additional Measures to Supplement the LAX Master Plan for Air Quality - Construction-Related Mitigation Measures	X
MM-AQ (SPAS)-2. Additional Measures to Supplement the LAX Master Plan for Air Quality - Transportation-Related Mitigation Measures	X
MM-AQ (SPAS)-3. Additional Measures to Supplement the LAX Master Plan for Air Quality - Operations-Related Mitigation Measures	X
<b>Biological Resources</b>	
<b>LAX Master Plan Commitments</b>	
None	
<b>LAX Master Plan Mitigation Measures</b>	
MM-BC-1. Conservation of State-Designated Sensitive Habitat Within and Adjacent to the El Segundo Blue Butterfly Habitat Restoration Area	X
MM-BC-3. Conservation of Floral Resources: Mature Tree Replacement	X
MM-ET-3. El Segundo Blue Butterfly Conservation: Dust Control	X
MM-ET-4. El Segundo Blue Butterfly Conservation: Habitat Restoration	X
<b>SPAS Mitigation Measures</b>	
MM-BIO (SPAS)-1. Replacement of State-Designated Sensitive Habitats	X
MM-BIO (SPAS)-2. Conservation of Floral Resources: South Coast Branching Phacelia	X
MM-BIO (SPAS)-3. Conservation of Floral Resources: Lewis' Evening Primrose	X
MM-BIO (SPAS)-4. Conservation of Floral Resources: California Spineflower	X
MM-BIO (SPAS)-5. Conservation of Floral Resources: Mesa Horkelia	X
MM-BIO (SPAS)-6. Conservation of Floral Resources: Orcutt's Pincushion	X
MM-BIO (SPAS)-7. Conservation of Floral Resources: Southern Tarplant	X
MM-BIO (SPAS)-8. Conservation of Faunal Resources: Sensitive Reptiles, Arthropods, and Gastropods	X
MM-BIO (SPAS)-9. Conservation of Faunal Resources: Loggerhead Shrike	X
MM-BIO (SPAS)-10. Conservation of Faunal Resources: Burrowing Owl	X
MM-BIO (SPAS)-11. Conservation of Floral Resources: Mature Tree Replacement - Nesting Raptors	X
MM-BIO (SPAS)-12. Conservation of Faunal Resources: Nesting Birds/Raptors	X
MM-BIO (SPAS)-13. Replacement of Jurisdictional Aquatic Features	X

## SPAS Project Mitigation Monitoring and Reporting Program

Table 1

### LAX Master Plan Commitments, LAX Master Plan Mitigation Measures, and SPAS-Specific Mitigation Measures as Related to the LAWA Staff-Recommended Alternative

	SRA
MM-BIO (SPAS)-14. Replacement of Habitat Units	X
<b>Coastal Resources</b>	
<b>LAX Master Plan Commitments</b>	
None	
<b>LAX Master Plan Mitigation Measures</b>	
MM-BC-1. Conservation of State-Designated Sensitive Habitat Within and Adjacent to the El Segundo Blue Butterfly Habitat Restoration Area	X
MM-ET-3. El Segundo Blue Butterfly Conservation: Dust Control	X
MM-ET-4. El Segundo Blue Butterfly Conservation: Habitat Restoration	X
<b>SPAS Mitigation Measures</b>	
MM-BIO (SPAS)-1. Replacement of State-Designated Sensitive Habitats	X
MM-BIO (SPAS)-2. Conservation of Floral Resources: South Coast Branching Phacelia	X
MM-BIO (SPAS)-3. Conservation of Floral Resources: Lewis' Evening Primrose	X
MM-BIO (SPAS)-4. Conservation of Floral Resources: California Spineflower	X
MM-BIO (SPAS)-5. Conservation of Floral Resources: Mesa Horkelia	X
MM-BIO (SPAS)-6. Conservation of Floral Resources: Orcutt's Pincushion	X
MM-BIO (SPAS)-8. Conservation of Faunal Resources: Sensitive Reptiles and Arthropods	X
MM-BIO (SPAS)-9. Conservation of Faunal Resources: Loggerhead Shrike	X
MM-BIO (SPAS)-10. Conservation of Faunal Resources: Burrowing Owl	X
<b>Cultural Resources</b>	
<b>LAX Master Plan Commitments</b>	
HR-1. Preservation of Historic Resources	X
<b>LAX Master Plan Mitigation Measures</b>	
None	
<b>SPAS Mitigation Measures</b>	
MM-HA (SPAS)-2. Preservation of Historic Resources: Theme Building and Setting	X
MM-HA (SPAS)-4. Conformance with LAX Master Plan Archaeological Treatment Plan	X
<b>Greenhouse Gases</b>	
<b>LAX Master Plan Commitments</b>	
None	
<b>LAX Master Plan Mitigation Measures</b>	
MM-AQ-1. LAX Master Plan Mitigation Plan for Air Quality, Framework	X
MM-AQ-2. LAX Master Plan Mitigation Plan for Air Quality, Construction-Related Mitigation Measures	X
MM-AQ-3. LAX Master Plan Mitigation Plan for Air Quality, Transportation-Related Mitigation Measures	X
MM-AQ-4. LAX Master Plan Mitigation Plan for Air Quality, Operations-Related Mitigation Measures	X
Community Benefits Agreement, Section X.A., Electrification of Passenger Gates <sup>1</sup>	X
Community Benefits Agreement, Section X.N., Provision of Alternative Fuel <sup>1</sup>	X
<b>SPAS Mitigation Measures</b>	
MM-AQ (SPAS)-1. Additional Measures to Supplement the LAX Master Plan for Air Quality - Construction-Related Mitigation Measures	X
MM-AQ (SPAS)-2. Additional Measures to Supplement the LAX Master Plan for Air Quality - Transportation-Related Mitigation Measures	X
MM-AQ (SPAS)-3. Additional Measures to Supplement the LAX Master Plan for Air Quality - Operations-Related Mitigation Measures	X
<b>Human Health Risk Assessment</b>	
<b>LAX Master Plan Commitments</b>	
None	
<b>LAX Master Plan Mitigation Measures</b>	
MM-AQ-1. LAX Master Plan Mitigation Plan for Air Quality, Framework	X
MM-AQ-2. LAX Master Plan Mitigation Plan for Air Quality, Construction-Related Mitigation Measures	X
MM-AQ-3. LAX Master Plan Mitigation Plan for Air Quality, Transportation-Related Mitigation Measures	X
MM-AQ-4. LAX Master Plan Mitigation Plan for Air Quality, Operations-Related Mitigation Measures	X
Community Benefits Agreement, Section X.A., Electrification of Passenger Gates <sup>1</sup>	X
Community Benefits Agreement, Section X.F., Construction Equipment <sup>1</sup>	X
Community Benefits Agreement, Section X.K., PM2.5 <sup>1</sup>	X
Community Benefits Agreement, Section X.L., Rock-Crushing Operations and Construction Materials Stockpiles <sup>1</sup>	X
Community Benefits Agreement, Section X.M., Limits on Diesel Idling <sup>1</sup>	X

## **SPAS Project Mitigation Monitoring and Reporting Program**

**Table 1**

**LAX Master Plan Commitments, LAX Master Plan Mitigation Measures, and SPAS-Specific Mitigation Measures as Related to the LAWA Staff-Recommended Alternative**

	<b>SRA</b>
Community Benefits Agreement, Section X.N., Provision of Alternative Fuel <sup>1</sup>	X
<b>SPAS Mitigation Measures</b>	
MM-AQ (SPAS)-1. Additional Measures to Supplement the LAX Master Plan for Air Quality - Construction-Related Mitigation Measures	X
MM-AQ (SPAS)-2. Additional Measures to Supplement the LAX Master Plan for Air Quality - Transportation-Related Mitigation Measures	X
MM-AQ (SPAS)-3. Additional Measures to Supplement the LAX Master Plan for Air Quality - Operations-Related Mitigation Measures	X
<b>Safety</b>	
<b>LAX Master Plan Commitments</b>	
None	
<b>LAX Master Plan Mitigation Measures</b>	
None	
<b>SPAS Mitigation Measures</b>	
MM-SAF (SPAS)-1. Runway Protection Zone Reviews <sup>2</sup>	X
<b>Hazardous Materials</b>	
<b>LAX Master Plan Commitments</b>	
HM-1. Ensure Continued Implementation of Existing Remediation Efforts	X
HM-2. Handling of Contaminated Materials Encountered During Construction	X
C-1. Establishment of a Ground Transportation/Construction Coordination Office	X
ST-9. Construction Deliveries	X
ST-12. Designated Truck Delivery Hours	X
ST-14. Construction Employee Shift Hours	X
ST-17. Maintenance of Haul Routes	X
ST-18. Construction Traffic Management Plan	X
ST-19. Closure Restrictions of Existing Roadways	X
ST-21. Construction Employee Parking Locations	X
ST-22. Designated Truck Routes	X
<b>LAX Master Plan Mitigation Measures</b>	
None	
<b>SPAS Mitigation Measures</b>	
None	
<b>Hydrology/Water Quality</b>	
<b>LAX Master Plan Commitments</b>	
None	
<b>LAX Master Plan Mitigation Measures</b>	
None	
<b>SPAS Mitigation Measures</b>	
MM-HWQ (SPAS)-1. Conceptual Drainage Plan Revision and Update	X
<b>Land Use and Planning</b>	
<b>LAX Master Plan Commitments</b>	
LU-2. Establishment of a Landscape Maintenance Program for Parcels Acquired Due to Airport Expansion	X
LU-4. Neighborhood Compatibility Program	X
LU-5. Comply with City of Los Angeles Transportation Element Bicycle Plan	X
RBR-1. Residential and Business Relocation Program	X
<b>LAX Master Plan Mitigation Measures</b>	
MM-LU-1. Implement Revised Aircraft Noise Mitigation Program	X
MM-LU-3. Conduct Study of the Relationship Between Aircraft Noise Levels and the Ability of Children to Learn	X
MM-LU-4. Provide Additional Sound Insulation for Schools Shown by MM-LU-3 to be Significantly Impacted by Aircraft Noise	X
MM-RBR-1. Phasing for Business Relocations	X
MM-RBR-2. Relocation Opportunities through Aircraft Noise Mitigation Program	X
<b>SPAS Mitigation Measures</b>	
None	

## SPAS Project Mitigation Monitoring and Reporting Program

Table 1

### LAX Master Plan Commitments, LAX Master Plan Mitigation Measures, and SPAS-Specific Mitigation Measures as Related to the LAWA Staff-Recommended Alternative

	SRA
<b><u>Aircraft Noise</u></b>	
<b>LAX Master Plan Commitments</b>	
N-1. Maintenance of Applicable Elements of Existing Aircraft Noise Abatement Program	X
<b>LAX Master Plan Mitigation Measures</b>	
MM-LU-1. Implement Revised Aircraft Noise Mitigation Program	X
MM-LU-3. Conduct Study of the Relationship Between Aircraft Noise Levels and the Ability of Children to Learn	X
MM-LU-4. Provide Additional Sound Insulation for Schools Shown by MM-LU-3 to be Significantly Impacted by Aircraft Noise	X
MM-N-4. Update the Aircraft Noise Abatement Program Elements as Applicable to Adapt to the Future Airfield Configuration	X
MM-N-5. Conduct Part 161 Study to Make Over-Ocean Procedures Mandatory	X
<b>SPAS Mitigation Measures</b>	
None	
<b><u>Road Traffic Noise</u></b>	
<b>LAX Master Plan Commitments</b>	
None	
<b>LAX Master Plan Mitigation Measures</b>	
None	
<b>SPAS Mitigation Measures</b>	
None	
<b><u>Construction Traffic and Equipment Noise</u></b>	
<b>LAX Master Plan Commitments</b>	
ST-16. Designated Haul Routes	X
ST-18. Construction Traffic Management Plan	X
ST-22. Designated Truck Routes	X
<b>LAX Master Plan Mitigation Measures</b>	
MM-N-7. Construction Noise Control Plan	X
MM-N-8. Construction Staging	X
MM-N-9. Equipment Replacement	X
MM-N-10. Construction Scheduling	X
<b>SPAS Mitigation Measures</b>	
None	
<b><u>Transit Noise</u></b>	
<b>LAX Master Plan Commitments</b>	
None	
<b>LAX Master Plan Mitigation Measures</b>	
None	
<b>SPAS Mitigation Measures</b>	
None	
<b><u>Fire Protection</u></b>	
<b>LAX Master Plan Commitments</b>	
FP-1. LAFD Design Recommendations	X
PS-1. Fire and Police Facility Relocation Plan	X
PS-2. Fire and Police Facility Space and Siting Requirements	X
C-1. Establishment of a Ground Transportation/Construction Coordination Office	X
ST-9. Construction Deliveries	X
ST-12. Designated Truck Delivery Hours	X
ST-14. Construction Employee Shift Hours	X
ST-17. Maintenance of Haul Routes	X
ST-18. Construction Traffic Management Plan	X
ST-19. Closure Restrictions of Existing Roadways	X
ST-21. Construction Employee Parking Locations	X
ST-22. Designated Truck Routes	X
<b>LAX Master Plan Mitigation Measures</b>	
None	

# SPAS Project Mitigation Monitoring and Reporting Program

Table 1

## LAX Master Plan Commitments, LAX Master Plan Mitigation Measures, and SPAS-Specific Mitigation Measures as Related to the LAWA Staff-Recommended Alternative

	SRA
<b>SPAS Mitigation Measures</b>	
None	
<b>Law Enforcement</b>	
<b>LAX Master Plan Commitments</b>	
LE-1. Routine Evaluation of Manpower and Equipment Needs	X
LE-2. Plan Review	X
PS-1. Fire and Police Facility Relocation Plan	X
PS-2. Fire and Police Facility Space and Siting Requirements	X
C-1. Establishment of a Ground Transportation/Construction Coordination Office	X
ST-9. Construction Deliveries	X
ST-12. Designated Truck Delivery Hours	X
ST-14. Construction Employee Shift Hours	X
ST-17. Maintenance of Haul Routes	X
ST-18. Construction Traffic Management Plan	X
ST-19. Closure Restrictions of Existing Roadways	X
ST-21. Construction Employee Parking Locations	X
ST-22. Designated Truck Routes	X
<b>LAX Master Plan Mitigation Measures</b>	
None	
<b>SPAS Mitigation Measures</b>	
MM-LE (SPAS)-1. LAWAPD Replacement Facilities	X
<b>On-Airport Transportation</b>	
<b>LAX Master Plan Commitments</b>	
ST-2. Non-Peak CTA Deliveries	X
ST-8. Limited Short-Term Lane Closures	X
ST-9. Construction Deliveries	X
ST-18. Construction Traffic Management Plan	X
ST-19. Closure Restrictions of Existing Roadways	X
<b>LAX Master Plan Mitigation Measures</b>	
MM-ST-1. Require CTA Construction Vehicles to Use Designated Lanes	X
MM-ST-2. Modify CTA Signage	X
MM-ST-3. Develop Designated Shuttle Stops for Labor Buses and ITC-CTA Buses	X
<b>Bradley West Project Mitigation Measures</b>	
MM-ST (BWP)-2. Improve the Intersection of Center Way and World Way South	X
MM-ST (BWP)-3. Widen World Way Across from TBIT	X
<b>SPAS Mitigation Measures</b>	
MM-ST(OA) (SPAS)-1. Relocate Existing Taxi Loading Zone at TBIT	X
MM-ST(OA) (SPAS)-2. Change Departures and Arrivals Level Commercial Vehicle Curbside Operations	X
<b>Off-Airport Transportation</b>	
<b>LAX Master Plan Commitments</b>	
ST-9. Construction Deliveries	X
ST-12. Designated Truck Delivery Hours	X
ST-14. Construction Employee Shift Hours	X
ST-17. Maintenance of Haul Routes	X
ST-18. Construction Traffic Management Plan	X
ST-19. Closure Restrictions of Existing Roadways	X
ST-20. Stockpile Locations	X
ST-21. Construction Employee Parking Locations	X
ST-22. Designated Truck Routes	X
ST-24. Fair Share Contribution to CMP Improvements	X
<b>LAX Master Plan Mitigation Measures</b>	
MM-ST-14. Ground Transportation/Construction Coordination Office Outreach Program	X
<b>SPAS Mitigation Measures</b>	
MM-ST (SPAS)-1. Transportation Demand Management Program	X
MM-ST (SPAS)-2. Modify the Intersection of Airport Boulevard and Arbor Vitae Street/Westchester Parkway (Intersection 6)	X
MM-ST (SPAS)-3. Modify the Intersection of Airport Boulevard and Century Boulevard (Intersection 7)	X
MM-ST (SPAS)-4. Modify the Intersection of Arbor Vitae Street and Inglewood Avenue (Intersection 11)	X

## SPAS Project Mitigation Monitoring and Reporting Program

Table 1

### LAX Master Plan Commitments, LAX Master Plan Mitigation Measures, and SPAS-Specific Mitigation Measures as Related to the LAWA Staff-Recommended Alternative

	SRA
MM-ST (SPAS)-5. La Brea Avenue and Arbor Vitae Street (Intersection 12)	X
MM-ST (SPAS)-8. Modify the Intersection of Aviation Boulevard/Florence Avenue and Manchester Avenue (Intersection 17)	X
MM-ST (SPAS)-9. Modify the Intersection of La Brea Avenue and Centinela Avenue (Intersection 25)	X
MM-ST (SPAS)-10. Modify the Intersection of La Cienega Boulevard and Centinela Avenue (Intersection 26)	X
MM-ST (SPAS)-12. La Brea Avenue/Hawthorne Boulevard and Century Boulevard (Intersection 34)	X
MM-ST (SPAS)-13. Inglewood Avenue and Century Boulevard (Intersection 35)	X
MM-ST (SPAS)-14. Prairie Avenue and Century Boulevard (Intersection 37)	X
MM-ST (SPAS)-15. Modify the Intersection of Sepulveda Boulevard and Century Boulevard (Intersection 38)	X
MM-ST (SPAS)-17. Modify the Intersection of La Brea Avenue and Florence Avenue (Intersection 57)	X
MM-ST (SPAS)-18. Modify the Intersection of La Cienega Boulevard and Florence Avenue (Intersection 58)	X
MM-ST (SPAS)-19. Modify the Intersection of Sepulveda Boulevard and Grand Avenue (Intersection 60)	X
MM-ST (SPAS)-20. Modify the Intersection of Hawthorne Boulevard and Imperial Avenue (Intersection 62)	X
MM-ST (SPAS)-21. Modify the Intersection of Inglewood Avenue and Imperial Highway (Intersection 66)	X
MM-ST (SPAS)-23. Modify the Intersection of Sepulveda Boulevard and Imperial Highway (Intersection 71)	X
MM-ST (SPAS)-25. Modify the Intersection of La Brea Avenue and Manchester Boulevard (Intersection 85)	X
MM-ST (SPAS)-26. Modify the Intersection of La Brea Avenue and Slauson Avenue (Intersection 87)	X
MM-ST (SPAS)-27. Modify the Intersection of La Cienega Boulevard and Manchester Boulevard (Intersection 90)	X
MM-ST (SPAS)-28. Modify the intersection of La Cienega Boulevard and Southbound I-405 Ramps (north of Century Boulevard) (Intersection 96)	X
MM-ST (SPAS)-31. Modify the Intersection of Ash Avenue and Manchester Avenue (Intersection 115)	X
MM-ST (SPAS)-32. Vicksburg Avenue and 96th Street (Intersection 143)	X
MM-ST (SPAS)-34. Modify the Intersection of Hindry Avenue and Manchester Boulevard (Intersection 159)	X
MM-ST (SPAS)-35. Modify the Intersection of Prairie Avenue and Manchester Boulevard (Intersection 169)	X
MM-ST (SPAS)-36. Modify the Intersection of Prairie Avenue and Lennox Boulevard (Intersection 197)	X
MM-ST (SPAS)-37. Modify the intersection of Arbor Vitae Street and Aviation Boulevard (Intersection 10)	X
MM-ST (SPAS)-38. Modify the Intersection of La Tijera Boulevard and Centinela Avenue (Intersection 27)	X
MM-ST (SPAS)-40. Fair Share Contribution to a Traffic Signal at the Intersection of Overland Avenue and Sawtelle Boulevard (Intersection 154)	X
MM-ST (SPAS)-41. Fair Share Contribution to a Traffic Signal at the Intersection of Walgrove Avenue and Washington Boulevard (Intersection 156)	X
MM-ST (SPAS)-42. Contribute to ITS Improvements at 11 Study Intersections within the Jurisdiction of Los Angeles County (Intersections 27, 36, 52, 63, 76, 86, 87, 93, 95, 119, and 173)	X
<b><u>Energy</u></b>	
<b>LAX Master Plan Commitments</b>	
E-1. Energy Conservation and Efficiency Program	X
<b>LAX Master Plan Mitigation Measures</b>	
None	
<b>SPAS Mitigation Measures</b>	
None	
<b><u>Solid Waste</u></b>	
<b>LAX Master Plan Commitments</b>	
SW-1. Implement an Enhanced Recycling Program	X
<b>LAX Master Plan Mitigation Measures</b>	
MM SW-1. Provide Landfill Capacity <sup>3</sup>	X
<b>SPAS Mitigation Measures</b>	
None	
<b><u>Wastewater Generation</u></b>	
<b>LAX Master Plan Commitments</b>	
W-2. Enhance Existing Water Conservation Program	X
<b>LAX Master Plan Mitigation Measures</b>	
None	
<b>SPAS Mitigation Measures</b>	
None	
<b><u>Water Supply</u></b>	
<b>LAX Master Plan Commitments</b>	

## ***SPAS Project Mitigation Monitoring and Reporting Program***

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**Table 1**

**LAX Master Plan Commitments, LAX Master Plan Mitigation Measures, and SPAS-Specific Mitigation Measures as Related to the LAWA Staff-Recommended Alternative**

	<b>SRA</b>
W-1. Maximize Use of Reclaimed Water	X
W-2. Enhance Existing Water Conservation Program	X
<b>LAX Master Plan Mitigation Measures</b>	
None	
<b>SPAS Mitigation Measures</b>	
None	
<p><sup>1</sup> LAWA and the LAX Coalition for Economic, Environmental and Educational Justice (LAX Coalition) have developed and entered into an agreement, the Community Benefits Agreement (CBA), to ensure that communities adversely affected by the LAX Master Plan Program also receive benefits as a result of implementation of the Program. The benefits and mitigations included in the CBA were negotiated independently from, and are not a part of, the LAX Master Plan Mitigation Monitoring and Reporting Program. The CBA contains a number of air quality mitigation measures, of which Sections X.A., X.F., X.K., X.L., X.M., and X.N. are applicable to SPAS.</p> <p><sup>2</sup> This measure would reduce the cumulatively considerable contribution to impacts to aviation safety from building/structural penetrations of FAR Part 77 imaginary surfaces.</p> <p><sup>3</sup> This measure would address cumulatively significant impacts associated with solid waste generation and disposal.</p>	

**Mitigation Monitoring and Reporting Program  
LAX Master Plan Commitments and Mitigation Measures for the SPAS Project**

Master Plan Commitments/ Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<b>Aesthetics</b>					
<b>DA-1</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Provide and Maintain Airport Buffer Areas.</b> Along the northerly and southerly boundary areas of the airport, LAWA will provide and maintain landscaped buffer areas that will include setbacks, landscaping, screening or other appropriate view-sensitive improvements with the goals of avoiding land use conflicts, shielding lighting, enhancing privacy and better screening views of airport facilities from adjacent residential uses. Use of existing facilities in buffer areas may continue as required until LAWA can develop alternative facilities.	Avoidance of view degradation	Prior to approval of development plans for projects abutting residential and view sensitive uses along the northern & southern boundaries of airport by LAWA	Once, during plan review on a project-by-project basis	Provision of landscape buffer areas, to the extent feasible, in the development and landscape plans
<b>DA-2</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Update and Integrate Design Plans and Guidelines.</b> The following plans and guidelines will be individually updated or integrated into a comprehensive set of design-related guidelines and plans; LAX Street Frontage and Landscape Development Plan (June 1994), LAX Air Cargo Facilities Development Guidelines (April 1998; updated August 2002), and LAX Northside Design Plan and Development Guidelines (1989), including conditions addressing heights, setbacks and landscaping. The update will serve as a basis for reviewing future public and private development projects at LAX. The update will incorporate key provisions in current plans with an equivalent or	Avoidance of view degradation/ incompatible land use	Prior to issuance of any permits for first Master Plan project (excluding runways)	Once, upon approval of design-related guidelines and plans by the Board of Airport Commissioners	Board of Airport Commissioners approval of design-related guidelines and plans

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
LAX Master Plan Commitments and Mitigation Measures for the SPAS Project**

Master Plan Commitments/ Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
	greater level of compatibility and visual quality supported between LAX and adjacent land uses. <sup>1</sup>				
<b>LI-2 Monitoring Agency: LAWA</b>	<b>Use of Non-Glare Generating Building Materials.</b> Prior to approval of final plans, LAWA will ensure that proposed LAX facilities will be constructed to maximize use of non-reflective materials and minimize use of undifferentiated expanses of glass.	Avoidance of adverse glare effects on aviation and other sensitive uses	Prior to issuance of a building permit for each Master Plan project (excluding airfield projects)	Twice: Once during plan review and once during project construction, on a project-by-project basis	Sign-off on plans by LAWA prior to issuance of building permit and completion of site inspection for materials during construction
<b>LI-3 Monitoring Agency: LAWA</b>	<b>Lighting Controls.</b> Prior to final approval of plans for new lighting, LAWA will conduct reviews of lighting type and placement to ensure that lighting will not interfere with aeronautical lights or otherwise impair Airport Traffic Control Tower or pilot operations. Plan reviews will also ensure, where feasible, that lighting is shielded and focused to avoid glare or unnecessary light spillover. In addition, LAWA or its designee will undertake consultation in selection of appropriate lighting type and placement, where feasible, to ensure that new lights or changes in lighting will not have an adverse effect on the natural behavior of sensitive flora and fauna within the Habitat Restoration Area.	Avoidance of adverse light and glare effects on aviation activities and other sensitive uses	Prior to issuance of any MEP permits or B-permits which include lighting	Once, during review of lighting plans on a project-by-project basis	Approval of lighting plans by LAWA prior to issuance of MEP permits or B-permits involving lighting

<sup>1</sup> Subsequent to the approval of LAX Master Plan, the LAX Street Frontage and Landscaping Development Plan Update was completed in accordance with the provisions of LAX Master Plan Commitment DA-2.

**Mitigation Monitoring and Reporting Program  
LAX Master Plan Commitments and Mitigation Measures for the SPAS Project**

Master Plan Commitments/ Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<b>MM-DA-1</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Construction Fencing.</b> Construction fencing and pedestrian canopies shall be installed by LAWA to the degree feasible to ensure maximum screening of areas under construction along major public approach and perimeter roadways, including Sepulveda Boulevard, Century Boulevard, Westchester Parkway, Pershing Drive, and Imperial Highway west of Sepulveda Boulevard. Along Century Boulevard, Sepulveda Boulevard, and in other areas where the quality of public views are a high priority, provisions shall be made by LAWA for treatment of the fencing to reduce temporary visual impacts.	Avoidance of temporary view degradation	Prior to issuance of grading or building permits for each project along a major public approach or perimeter roadway	Once, prior to issuance of grading or building permits for each project along a major public approach or perimeter roadway	Installation of construction fencing and pedestrian canopies to the extent feasible
<b>Air Quality</b>					
<b>MM-AQ-1</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>LAX Master Plan - Mitigation Plan for Air Quality - Framework.</b> This measure provides the basic organizational structure for the full LAX MP-MPAQ. It is also intended to furnish LAWA with a clear, consistent, and convenient foundation for the implementation of the plan. With the Framework's "overarching" configuration, the individual components of the LAX MP-MPAQ (i.e., MM-AQ-2, Construction-Related Mitigation Measures; MM-AQ-3, Transportation-Related Mitigation Measures; and MM-AQ-4, Operations-Related Mitigation Measures) will be better coordinated and completed. The Framework contains the basis and background information for the LAX MP-MPAQ; it identifies the roles and responsibilities of the lead agency, its consultants and contractors; and outlines the approach for monitoring the progress of the plan. Other relevant information in the Framework includes	Overall air pollutant emissions associated with construction and operation of the LAX Master Plan	Basic LAX MP-MPAQ and the Construction-Related component have been completed. The Transportation-Related component and the Operations-Related component to be completed in conjunction with implementation of the Master Plan components that materially affect surface transportation	Twice: Once, upon confirmation of the basic LAX MP-MPAQ (i.e., basic framework of Plan) – completed; once upon confirmation of the full LAX MP-MPAQ, when all three implementation plans (one for each category of air quality mitigation measures) are complete	Annual progress reports, summarizing the nature and effectiveness of air quality mitigation measures that were implemented during the year, will be prepared

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
LAX Master Plan Commitments and Mitigation Measures for the SPAS Project**

	<b>Master Plan Commitments/ Mitigation Measures</b>	<b>SPAS Impact Being Addressed</b>	<b>Timing of Implementation</b>	<b>Monitoring Frequency</b>	<b>Actions Indicating Compliance</b>
	the overall LAX Master Plan and LAX MP-MPAQ schedules, contact information and other supporting materials. MM-AQ-1 is complete and was adopted by the Board of Airport Commissioners in December 2005, <sup>2</sup> and its policies and procedures would apply to SPAS.		emissions and operations.		
<b>MM-AQ-2</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>LAX Master Plan - Mitigation Plan for Air Quality - Construction-Related Measures.</b> The required components of the construction-related air quality mitigation measure are itemized below. These components include numerous specific actions to reduce emissions of fugitive dust and of exhaust emissions from on-road and nonroad mobile sources and stationary engines. All of these components must be in place prior to commencement of the first Master Plan construction project and must remain in place through build out of the Master Plan. An implementation plan will be developed which provides available details as to how each of the elements of this construction-related mitigation measure will be implemented and monitored. Each construction subcontractor will be responsible to implement all measures that apply to the equipment and activities under his/her control, an obligation which will be formalized in the contractual documents, with financial penalties for noncompliance. LAWA will assign one or more environmental coordinators whose responsibility it will be to ensure compliance	Construction-related air pollutant emissions	Completed. Implemented prior to issuance of grading or demolition permit for first Master Plan project.	Completed	Completion of implementation plan

<sup>2</sup> City of Los Angeles, Los Angeles World Airports, LAX Master Plan Mitigation Plan for Air Quality (MPAQ), MM-AQ-1: Framework, prepared by URS Corp. and KB Environmental Sciences, Inc., October 2005.

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LAX Master Plan Commitments and Mitigation Measures for the SPAS Project**

Master Plan Commitments/ Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p>with the construction-related measure by use of direct inspections, records reviews, and investigation of complaints with reporting to LAWA management for follow-up action. The estimated ranges of emissions reductions quantified for this mitigation measure for Alternative D are shown in Table F5-8, Estimated Ranges of Emission Reductions for Construction-Related Air Quality Mitigation Measures. Reliable emissions reductions were not able to be quantified for all of these components.</p> <p>The specific components of this construction-related air quality mitigation measure include:</p> <p>1. <u>Fugitive Dust Source Controls:</u></p> <ul style="list-style-type: none"> <li>◆ Apply non-toxic soil stabilizer to all inactive construction areas (i.e., areas with disturbed soil).</li> <li>◆ Following the addition of materials to, or removal of materials from, the surface of outdoor storage piles, said piles shall be effectively stabilized of fugitive dust emissions utilizing non-toxic soil stabilizer.</li> <li>◆ Post a publicly visible sign with the telephone number and person to contact regarding dust complaints; this person shall respond and take corrective action within 24 hours.</li> <li>◆ Prior to final occupancy, the applicant demonstrates that all ground surfaces are covered or treated sufficiently to minimize fugitive dust emissions.</li> <li>◆ All roadways, driveways, sidewalks, etc. being installed as part of project should be completed</li> </ul>				

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LAX Master Plan Commitments and Mitigation Measures for the SPAS Project**

Master Plan Commitments/ Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p>as soon as possible; in addition, building pads should be laid as soon as possible after grading.</p> <ul style="list-style-type: none"> <li>◆ Pave all construction access roads at least 100 feet on to the site from the main road.</li> </ul> <p>2. <u>On-Road Mobile Source Controls:</u></p> <ul style="list-style-type: none"> <li>◆ To the extent feasible, have construction employees work/commute during off-peak hours.</li> <li>◆ Make available on-site lunch trucks during construction to minimize off-site worker vehicle trips.</li> </ul> <p>3. <u>Nonroad Mobile Source Controls:</u></p> <ul style="list-style-type: none"> <li>◆ Prohibit staging or parking of construction vehicles (including workers' vehicles) on streets adjacent to sensitive receptors such as schools, daycare centers, and hospitals.</li> <li>◆ Prohibit construction vehicle idling in excess of ten minutes.</li> <li>◆ Utilize on-site rock crushing facility, when feasible, during construction to reuse rock / concrete and minimize off-site truck haul trips.</li> </ul> <p>4. <u>Stationary Point Source Controls:</u></p> <ul style="list-style-type: none"> <li>◆ Specify combination of electricity from power poles and portable diesel- or gasoline-fueled generators using "cleaner burning diesel" fuel and exhaust emission controls.</li> </ul> <p>5. <u>Mobile and Stationary Source Controls:</u></p> <ul style="list-style-type: none"> <li>◆ Specify combination of construction equipment using "cleaner burning diesel" fuel and exhaust emission controls.</li> <li>◆ Suspend use of all construction equipment</li> </ul>				

**Mitigation Monitoring and Reporting Program  
LAX Master Plan Commitments and Mitigation Measures for the SPAS Project**

Master Plan Commitments/ Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p>during a second-stage smog alert in the immediate vicinity of LAX.</p> <ul style="list-style-type: none"> <li>◆ Utilize construction equipment having the minimum practical engine size (i.e., lowest appropriate horsepower rating for intended job).</li> <li>◆ Require that all construction equipment working on site is properly maintained (including engine tuning) at all times in accordance with manufacturers' specifications and schedules.</li> <li>◆ Prohibit tampering with construction equipment to increase horsepower or to defeat emission control devices.</li> </ul> <p>6. <u>Administrative Controls</u></p> <ul style="list-style-type: none"> <li>◆ The contractor or builder shall designate a person or persons to ensure the implementation of all components of the construction-related measure through direct inspections, records reviews, and investigations of complaints.</li> </ul>				
<p><b>MM-AQ-3</b> <b>Monitoring Agency:</b> <b>LAWA</b></p> <p><b>LAX Master Plan - Mitigation Plan for Air Quality - Transportation-Related Measures.</b> The primary feature of the transportation-related air quality mitigation measure is the development and construction of at least eight (8) additional sites with FlyAway service similar to the service provided by the Van Nuys FlyAway currently operated by LAWA. The intent of these FlyAway sites is to reduce the quantity of traffic going to and from LAX by providing regional locations where LAX employees and passengers can pick up an LAX-dedicated, clean-fueled bus that will transport them from a FlyAway closer to their home or office into LAX and back. The reduction in vehicle miles traveled (VMT) translates directly into reduced</p>	Surface Transportation-related air pollutant emissions	Prior to issuance of building permit for ITC and within 6 months following City Council approval of the LAX Plan	Once, upon completion of implementation plan for transportation-related measures and as specified in the implementation plan	Completion of implementation plan for transportation-related measures within the LAX MP-MPAQ

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
LAX Master Plan Commitments and Mitigation Measures for the SPAS Project**

Master Plan Commitments/ Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance												
<p>air emissions, as well as a reduction in traffic congestion in the vicinity of the airport. An implementation plan will be developed which provides available details as to how each of the elements of this transportation-related mitigation measure will be implemented and monitored. The estimated emissions reductions associated with this component of the transportation-related air quality mitigation measure are shown in Table F5-9.</p> <hr/> <p style="text-align: center;"><b>Table F5-9</b></p> <p style="text-align: center;"><b>Estimated Emissions Reductions (Tons) for Eight (8) New FlyAway Terminals - 2015</b></p> <hr/> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Pollutant<sup>1</sup></th> <th style="text-align: center;">Alternative D</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">ROG</td> <td style="text-align: center;">56.0</td> </tr> <tr> <td style="text-align: center;">NOX</td> <td style="text-align: center;">82.9</td> </tr> <tr> <td style="text-align: center;">CO</td> <td style="text-align: center;">1064.5</td> </tr> <tr> <td style="text-align: center;">PM10</td> <td style="text-align: center;">152.6</td> </tr> <tr> <td style="text-align: center;">SOX</td> <td style="text-align: center;">1.7</td> </tr> </tbody> </table> <p>Note: Reductions are the combined totals from all new FlyAway capacity, and may include expansion of the existing FlyAway.</p> <p><sup>1</sup> Based on EMFAC2002 Emission Factors for Calendar Year 2015.</p> <p>Source: Camp Dresser &amp; McKee Inc., 2004.</p> <hr/>	Pollutant <sup>1</sup>	Alternative D	ROG	56.0	NOX	82.9	CO	1064.5	PM10	152.6	SOX	1.7				
Pollutant <sup>1</sup>	Alternative D															
ROG	56.0															
NOX	82.9															
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PM10	152.6															
SOX	1.7															

**Mitigation Monitoring and Reporting Program  
LAX Master Plan Commitments and Mitigation Measures for the SPAS Project**

Master Plan Commitments/ Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p>The required two (2) elements of this transportation-related air quality mitigation measure include:</p> <p>1. <u>Development of New FlyAway Capacity:</u> Additional service capacity from at least eight (8) FlyAway service terminals are required under this measure, and all eight must be operational by 2015. LAVA has already begun analyzing potential FlyAway locations. Selection of the eight general locations should be made and included in the overarching air quality mitigation program plan discussed in Mitigation Measure MM-AQ-1, LAX Master Plan Mitigation Plan for Air Quality, as well as in the implementation plan for the transportation-related measures noted above. Final selection of the sites must be completed on a schedule that allows for property acquisition or leasing, terminal design, construction, and implementation of all sites by 2015.</p> <p>The sites may include, but are not limited to the following:</p> <ul style="list-style-type: none"> <li>◆ West San Fernando Valley/Eastern Ventura County</li> <li>◆ Santa Monica/Pacific Palisades</li> <li>◆ Central Los Angeles</li> <li>◆ Long Beach/South Bay/San Pedro</li> <li>◆ East San Fernando Valley</li> <li>◆ San Gabriel Valley</li> <li>◆ Southeast Los Angeles County</li> <li>◆ North Los Angeles County</li> </ul>				

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
LAX Master Plan Commitments and Mitigation Measures for the SPAS Project**

Master Plan Commitments/ Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p>2. <u>Public Outreach Program for FlyAway Service:</u> This measure also requires a public outreach program to inform potential users of the terminals about their existence and their locations. The outreach program would be geared towards encouraging the use of the FlyAways with convenience and low cost being the primary selling points.</p> <p>Other feasible mitigation elements may be developed to ensure that the emission reductions for this transportation-related measure are achieved. These may include, for example:</p> <ul style="list-style-type: none"> <li>◆ <u>Transit Ridership measures such as:</u> <ul style="list-style-type: none"> <li>- Constructing on-site or off-site bus turnouts, passenger benches, or shelters to encourage transit system use.</li> <li>- Constructing on-site or off-site pedestrian improvements/including showers for pedestrian employees to encourage walking/bicycling to work by LAX employees.</li> </ul> </li> <li>◆ <u>Highway and Roadway Improvements measures such as:</u> <ul style="list-style-type: none"> <li>- Linking ITS (Intelligent Transportation System) with off-airport parking facilities with ability to divert/direct trips to these facilities to reduce traffic/parking congestion and associated air emissions in the immediate vicinity of the airport.</li> </ul> </li> </ul>				

**Mitigation Monitoring and Reporting Program  
LAX Master Plan Commitments and Mitigation Measures for the SPAS Project**

Master Plan Commitments/ Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<ul style="list-style-type: none"> <li>- Expanding ITS/ATCS systems, concentrating on I-405 and I-105 corridors, extending into South Bay and Westside surface street corridors to reduce traffic/parking congestion and associated air emissions in the immediate vicinity of the airport.</li> <li>- Linking LAX traffic management system with airport cargo facilities, with ability to reroute cargo trips to/from these facilities to reduce traffic/parking congestion and associate air emissions in the immediate vicinity of the airport.</li> <li>- Developing a program to minimize the use of conventional-fueled fleet vehicles during smog alerts to reduce air emissions from vehicles at the airport.</li> <li>◆ <u>Parking measures such as:</u> <ul style="list-style-type: none"> <li>- Providing free parking and preferential parking locations for ULEV/SULEV/ZEV in all (including employee) LAX lots; providing free charging stations for ZEV; including public outreach to reduce air emissions from automobiles accessing airport parking.</li> <li>- Measures to reduce air emissions of vehicles in line to exit parking lots such as pay-on-foot (before getting into car) to minimize idle time at parking check out, including public outreach.</li> <li>- Implementing on-site circulation plan in parking lots to reduce time and associated air emissions from vehicles circulating through lots looking for parking.</li> </ul> </li> </ul>				

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
LAX Master Plan Commitments and Mitigation Measures for the SPAS Project**

Master Plan Commitments/ Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<ul style="list-style-type: none"> <li>- Encouraging video conferencing and providing video conferencing capabilities at various locations on the airport to reduce VMT in associated air emissions in the vicinity of the airport.</li> <li>◆ <u>Additional Ridesharing measures such as:</u> <ul style="list-style-type: none"> <li>- Expanding the airport's ridesharing program to include all airport tenants.</li> </ul> </li> <li>◆ <u>Clean Vehicle Fleets measure such as:</u> <ul style="list-style-type: none"> <li>- Promoting commercial vehicles/trucks/vans using terminal areas (LAX and regional intermodal) to install SULEV/ZEV engines to reduce vehicle air emissions.</li> <li>- Promoting "best-engine" technology (SULEV/ZEV) for rental cars using on-airport RAC facilities to reduce vehicle air emissions.</li> <li>- Consolidating nonrental car shuttles using SULEV/ZEV engines to reduce vehicle air emissions.</li> </ul> </li> <li>◆ <u>Energy Conservation measures such as:</u> <ul style="list-style-type: none"> <li>- Covering, if feasible, any parking structures that receive direct sunlight, to reduce volatile emissions from vehicle gasoline tanks; and installing solar panels on these roofs where feasible to supply electricity or hot water to reduce power production demand and associated air emissions at utility plants.</li> </ul> </li> </ul>				

**Mitigation Monitoring and Reporting Program  
LAX Master Plan Commitments and Mitigation Measures for the SPAS Project**

<b>Master Plan Commitments/ Mitigation Measures</b>		<b>SPAS Impact Being Addressed</b>	<b>Timing of Implementation</b>	<b>Monitoring Frequency</b>	<b>Actions Indicating Compliance</b>
	These other components may require the approval of other federal, state, regional, and/or local government agencies. It should be noted that no air quality benefit (i.e., pollutant reduction) was estimated in the Final EIS/EIR for these additional components; hence, implementation of any of these other components would, in conjunction with the FlyAways described above, provide for additional air quality benefits over and above the amount of transportation-related pollutant reductions accounted for in the Final EIS/EIR.				
<b>MM-AQ-4</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>LAX Master Plan - Mitigation Plan for Air Quality – Operations-Related Measures.</b> The primary component of the operations-related air quality mitigation measures consists of one airside item, the conversion of ground support equipment (GSE) to extremely low emission technology (such as electric power, fuel cells, or other future technological developments). Due to the magnitude of the effort to convert GSE, it must be a phased program and must be completed at build out of the Master Plan in 2015. An implementation plan will be developed which provides available details as to how each of the elements of this operations-related mitigation measure will be implemented and monitored. Because this effort will apply to all GSE in use at LAX, both LAWA-owned equipment and tenant-owned equipment, the effort must begin upon City approval of the LAX Plan with a detailed inventory of the number, types, sizes, and usage history of all GSE at LAX. Because some of the tenant organizations (mainly the major domestic commercial	Operations-related air pollutant emissions	Within 6 months following City Council approval of the LAX Plan	Once, upon completion of implementation plan for operations-related measures and as specified in the implementation plan	Completion of implementation plan for operations-related measures within the LAX MP-MPAQ

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<p>airlines) have signed a memorandum of understanding (MOU) with the California Air Resources Board (CARB) that requires the signatories to replace a proportion of their GSE fleet with clean-fuel alternatives (including zero-emission equipment), it will be necessary for LAWA to evaluate the level of its commitment within the framework of the MOU. Because LAWA anticipates facilitating this component by providing incentives or tenant lease requirements, early negotiations with tenant organizations may allow LAWA to accommodate cost-sharing agreements to implement the GSE conversions in a timely manner, to make LAWA's financial commitment as cost effective as possible. LAWA will assign a GSE coordinator whose responsibility it will be to ensure the successful conversion of GSE in a timely manner. This coordinator must have adequate authority to negotiate on behalf of the City and have sufficient technical support to evaluate technical issues that arise during implementation of this measure. The estimated ranges of emissions reductions quantified for this component of the operations-related measure for Alternative D are shown in Table F5-10.</p>				

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LAX Master Plan Commitments and Mitigation Measures for the SPAS Project**

Master Plan Commitments/ Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance												
<p align="center"><b>Table F5-10</b></p> <p align="center"><b>Estimated Ranges of Emission Reductions for GSE Conversion</b></p> <table border="1"> <thead> <tr> <th align="center">Pollutant</th> <th align="center">Alternative D<sup>1</sup> (tons)</th> </tr> </thead> <tbody> <tr> <td align="center">ROG</td> <td align="center">10 - 100</td> </tr> <tr> <td align="center">NOX</td> <td align="center">300 - 400</td> </tr> <tr> <td align="center">CO</td> <td align="center">500 - 1000</td> </tr> <tr> <td align="center">PM10</td> <td align="center">1 - 10</td> </tr> <tr> <td align="center">SOX</td> <td align="center">1 - 5</td> </tr> </tbody> </table> <p><sup>1</sup> In the build-out year, 2015. Source: Camp Dresser &amp; McKee Inc., 2004.</p> <p>The successful conversion of all GSE at LAX to extremely low or zero emission equipment by 2015 is the required element of this mitigation measure.</p> <p>Consideration of other operations-related measures may include components such as contracting with commercial landscapers who operate lowest emitting equipment. Reliable emissions reductions have not been quantified for these other components.</p>	Pollutant	Alternative D <sup>1</sup> (tons)	ROG	10 - 100	NOX	300 - 400	CO	500 - 1000	PM10	1 - 10	SOX	1 - 5				
Pollutant	Alternative D <sup>1</sup> (tons)															
ROG	10 - 100															
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<p><b>LAX Master Plan CBA Measure X.A.</b><sup>3</sup></p> <p><b>Monitoring Agency:</b> <b>LAWA</b></p>	<p><b>Electrification of Passenger Gates.</b> This provision requires that all passenger gates newly constructed by LAWA shall be equipped with and able to provide grid electricity to parked aircraft (for lighting and ventilation) from and after the date of initial operation and that LAWA will ensure that all aircraft (unless exempt) use the gate-provided grid electricity in lieu of electricity provided by operation of an auxiliary or ground power unit.</p>	<p>Air quality impacts associated with aircraft parked at gates</p>	<p>In conjunction with construction or modification of passenger gates associated with SPAS</p>	<p>Upon completion of construction of new passenger gates</p>	<p>Implementation of electrification at new passenger gates constructed as part of SPAS</p>
<p><b>LAX Master Plan CBA Measure X.F.</b></p> <p><b>Monitoring Agency:</b> <b>LAWA</b></p>	<p><b>Construction Equipment.</b> LAWA shall require that all diesel-fueled equipment used for construction related to the LAX Master Plan Program be outfitted with the best available emission control devices primarily to reduce emissions of diesel particulate matter (PM), including fine PM (PM2.5), and secondarily, to reduce emissions of NO<sub>x</sub>. This requirement shall apply to diesel-fueled off-road equipment (such as construction machinery), diesel-fueled on-road vehicles (such as trucks), and stationary diesel-fueled engines (such as electric generators). The emission control devices utilized in construction equipment in the LAX Master Plan Program shall be verified or certified by CARB or USEPA for use in on-road or off-road vehicles or engines. This provision also requires the use of ultra-low sulfur diesel (ULSD) fuel in construction</p>	<p>Construction-related air pollutant emissions</p>	<p>Prior to issuance of grading or demolition permit for each SPAS project</p>	<p>Prior to initiation of construction for each SPAS project, and annually during active construction projects</p>	<p>Annual progress reports, summarizing the use of diesel-fueled construction equipment that is outfitted with best available emission control devices, will be prepared for the duration of active construction projects</p>

<sup>3</sup> LAWA and the LAX Coalition for Economic, Environmental and Educational Justice (LAX Coalition) developed and entered into an agreement, the Community Benefits Agreement (CBA), to ensure that communities adversely affected by the LAX Master Plan Program also receive benefits as a result of implementation of the Program. The benefits and mitigations included in the CBA were negotiated independently from, and are not a part of, the LAX Master Plan Mitigation Monitoring and Reporting Program. The CBA contains a number of air quality mitigation measures, of which Sections X.A., X.F., X.K., X.L., X.M., and X.N. are applicable to SPAS. These measures are included herein.

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	equipment, places limitations on the amount of idling of diesel-fueled engines, requires following manufacturer's engine maintenance recommendations, and an annual reassessment of determinations of what constitutes best available emission control devices.				
<b>LAX Master Plan CBA Measure X.K.</b>  <b>Monitoring Agency: LAWA</b>	<b>PM2.5.</b> This provision requires LAWA to assess the impacts from the emissions of fine particulate matter (PM2.5) within the context of a CEQA analysis and to mitigate such emissions that exceed applicable thresholds of significance. Since SCAQMD established thresholds of significance for PM2.5 in October 2006, this provision would apply in conjunction with construction and operations that occur as a result of SPAS.	Construction- and operations-related PM2.5 emissions	The analysis of air quality impacts presented in Section 4.2 of the SPAS Draft EIR includes evaluation of PM2.5 emissions and concentrations associated with construction and operation of SPAS alternatives.	The measure has been completed	The analysis of air quality impacts presented in Section 4.2 of the SPAS Draft EIR includes evaluation of PM2.5 emissions and concentrations associated with construction and operation of SPAS alternatives
<b>LAX Master Plan CBA Measure X.L.</b>  <b>Monitoring Agency: LAWA</b>	<b>Rock-Crushing Operations and Construction Materials Stockpiles.</b> This provision requires LAWA to locate rock-crushing operations and construction material stockpiles for all construction-related to the LAX Master Plan Program in areas away from LAX-adjacent residents to reduce impacts from emissions of fugitive dust.	Construction-related air pollutant emissions	Prior to issuance of grading or demolition permit for each SPAS project	Prior to initiation of construction for each SPAS project, and annually during active construction projects	Inclusion in specifications for SPAS projects requiring on-site construction

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<b>LAX Master Plan CBA Measure X.M.</b>  <b>Monitoring Agency: LAWA</b>	<b>Limits on Diesel Idling.</b> This provision requires LAWA to prohibit idling or queuing of diesel-fueled vehicles and equipment for more than five consecutive minutes on-site. <sup>4</sup>	Construction-related air pollutant emissions	Prior to issuance of grading or demolition permit for each SPAS project	Prior to initiation of construction for each SPAS project, and at least once annually during active construction projects	Inclusion in specifications for SPAS projects requiring on-site construction
<b>LAX Master Plan CBA Measure X.N.</b>  <b>Monitoring Agency: LAWA</b>	<b>Provision of Alternative Fuel.</b> This provision requires LAWA to ensure that on-site infrastructure for providing fuel to alternative-fuel vehicles is sufficient and available, where not operationally and/or technically infeasible, to meet all requests for alternative fuel from contractors and other users of LAX.	Construction- and operations-related air pollutant emissions	This is an ongoing program by LAWA, currently underway at LAX and would apply in conjunction with construction or modification of passenger gates that occurs as a result of implementing SPAS to provide appropriate infrastructure for electric GSE	Status of meeting this requirement is reported each year in LAWA's Community Benefits Agreement Annual Progress Report	Compliance status is documented each year in LAWA's Community Benefits Agreement Annual Progress Report

<sup>4</sup> CBA measure X.M requires a prohibition of idling or queuing for more than ten consecutive minutes on-site, unless CARB adopts a stricter standard, in which case LAWA shall enforce that standard. Subsequent to the adoption of the CBA, CARB adopted a five-minute idling limit for diesel vehicles and equipment. The CARB limit is applicable to SPAS, and has been incorporated into CBA Measure X.M for purposes of the SPAS MMRP.

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<b>Biological Resources</b>					
<b>MM-BC-1</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<p><b>Conservation of State-Designated Sensitive Habitat Within and Adjacent to the El Segundo Blue Butterfly Habitat Restoration Area.</b> FAA is responsible for conservation measures related to the relocation of navigational aids, while LAWA is responsible for all other conservation measures. All necessary steps shall be taken to ensure that the state-designated sensitive habitats within and adjacent to the Habitat Restoration Area are conserved and protected during construction, operation, and maintenance.</p> <p>These steps shall, at a minimum, include the following:</p> <p><i>Implementation of construction avoidance measures in areas where construction or staging are adjacent to the Habitat Restoration Area.</i> Prior to the initiation of construction of LAX Master Plan components to be located adjacent to the Habitat Restoration Area, a pre-construction evaluation shall be conducted to identify and flag specific areas of state-designated sensitive habitats located within 100 feet of construction areas. Subsequent to the pre-construction evaluation, a pre-construction meeting shall be conducted and written construction avoidance measures provided to be implemented in areas adjacent to state-designated sensitive habitats. Construction avoidance measures include erecting a 10-foot-high tarped chain-link fence where the construction or staging area is adjacent to state-designated</p>	Temporary construction impacts to sensitive areas and degradation of state-designated sensitive habitats	Preconstruction/construction	Once, upon completion of pre-construction evaluation and then on-going during construction if within 100 feet of the Habitat Restoration Area; Annually during operation and maintenance	Completion of pre-construction evaluation and presence of environmental monitor when construction is within 100 feet of state-designated sensitive habitat; Periodic Monitoring Report

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Master Plan Commitments/ Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p>sensitive habitats to reduce the transport of fugitive dust particles related to construction activities. Soil stabilization, watering or other dust control measures, as feasible and appropriate, shall be implemented to reduce fugitive dust emissions during construction activities within 2,000 feet of the El Segundo Blue Butterfly Habitat Restoration Area, with a goal to reduce fugitive dust emissions by 90 to 95 percent. In addition, to the extent feasible, no grading or stockpiling for construction activities should take place within 100 feet of a state-designated sensitive habitat. LAWA or its designee shall incorporate provisions for the identification of additional construction avoidance measures to be implemented adjacent to state-designated sensitive areas. All construction avoidance measures that address Best Management Practices shall be clearly stated within construction bid documents. In addition, provisions shall be included in all construction bid documents requiring the presence of a qualified environmental monitor. Construction drawings shall indicate vegetated areas within the Habitat Restoration Area as "Off-Limits Zone."</p> <p><i>Ongoing maintenance and management efforts for the El Segundo Blue Butterfly Habitat Restoration Area. LAWA or its designee shall ensure that maintenance and management efforts prescribed in the Habitat Management Plan (HMP) for the Habitat Restoration Area shall continue to be carried out as prescribed.</i></p>				

**Mitigation Monitoring and Reporting Program  
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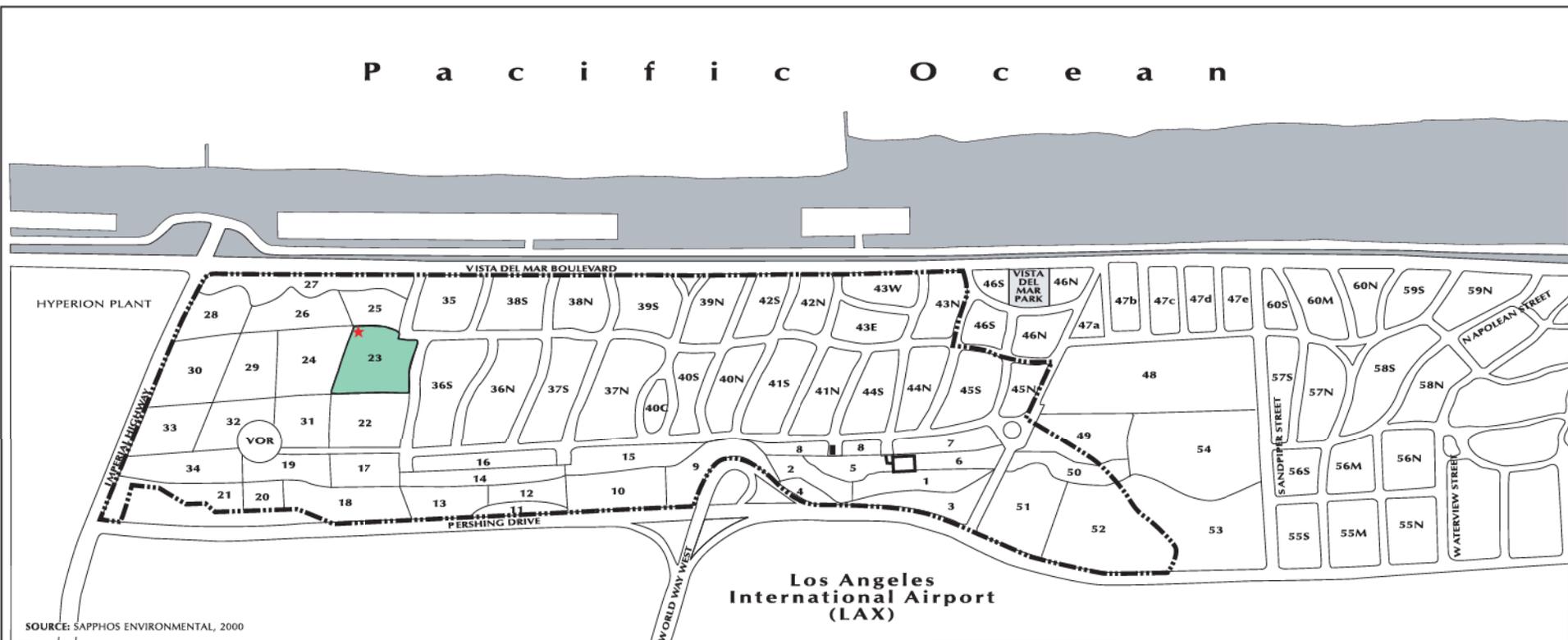
Master Plan Commitments/ Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<b>MM-BC-3</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Conservation of Floral Resources: Mature Tree Replacement.</b> LAWA or its designee shall prepare and implement a plan to compensate at a ratio of 2:1 for the loss of approximately 300 mature trees, which would occur as a result of implementation of the LAX Northside project. The plan shall include provisions to census and map all mature trees with a diameter of at least 8 inches at breast height, which may be removed due to implementation of the LAX Northside project. This information shall be gathered prior to initiation of construction. The plan shall include a program by which replacement (at a ratio of 2:1) of all impacted mature trees shall be included in plans prepared for landscape treatments within the Master Plan boundaries, which would then be implemented by LAWA. The species of newly planted replacement trees shall be local native tree species to the extent feasible. Each mitigation tree shall be at least a 15-gallon or larger specimen.	Loss of mature trees	Preparation of Replacement Plan for Mature Trees within one (1) year of City Council approval of the LAX Plan; Replanting as dictated by Replacement Plan; Preparation of survey prior to initiation of construction of LAX Northside project	As per Replacement Plan for Mature Trees	Completion of survey and preparation of Replacement Plan for Mature Trees; Periodic Monitoring Report
<b>MM-ET-3</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>El Segundo Blue Butterfly Conservation: Dust Control.</b> To reduce the transport of fugitive dust particles related to construction activities, soil stabilization, watering or other dust control measures, as feasible and appropriate, shall be implemented with a goal to reduce fugitive dust emissions by 90 to 95 percent during construction activities within 2,000 feet of the El Segundo Blue Butterfly Habitat Restoration Area. In addition, to the extent feasible, no grading or stockpiling for construction activities should take place within 100 feet of occupied habitat of the El Segundo blue butterfly.	Temporary construction impacts	Preconstruction/ construction	Once, upon execution of contracts, and periodically during construction	Inclusion of measure in construction contracts; Periodic reporting by construction monitor

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<b>MM-ET-4</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>EI Segundo Blue Butterfly Conservation: Habitat Restoration.</b> LAWA or its designee shall take all necessary steps to avoid the flight season of the EI Segundo blue butterfly (June 14 - September 30) when undertaking installation of navigational aids and associated service roads proposed under Master Plan Alternative D within habitat occupied by the EI Segundo blue butterfly. Installation of navigational aids within the Habitat Restoration Area should be required to take place between October 1st and May 31st. In conformance with the Biological Opinion, activities associated with navigational aids development shall be limited to the existing roads and proposed impacts areas as depicted in the Final EIS/EIR. Coast buckwheat shall be planted a minimum of three years prior to the impact, not only to allow for establishment of the plants, but also to ensure that the plants are mature enough to bloom. The plantings of coast buckwheat shall be located within the southwest corner of subsite 23 of the Habitat Restoration Area, as depicted in Figure F5-5, and shall encompass 1.25 acres in conformance with the Biological Opinion. Coast buckwheat plants will be planted at an initial density of 200 plants per acre to ensure the long-term planting density target (130 plants per acre). Coast buckwheat plants will be placed in clusters or groupings based on microtopographic features present within subsite 23 to better support the EI Segundo blue butterfly, which is known to prefer large clusters of plants for nectaring and shelter. As possible, depending on the location and condition of individual plants, FAA and	Loss of habitat occupied by endangered EI Segundo blue butterfly	Preparation of Habitat Restoration Plan for EI Segundo Blue Butterfly 3 years prior to construction activities within its habitat, or as approved by USFWS; Monitoring for a period of not more than 5 years	As per Habitat Restoration Plan for the EI Segundo Blue Butterfly	Preparation of Habitat Restoration Plan for EI Segundo Blue Butterfly; Periodic Monitoring Report

# P a c i f i c O c e a n

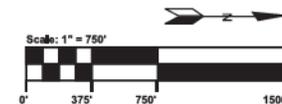


SOURCE: SAPPHOS ENVIRONMENTAL, 2000

Los Angeles International Airport (LAX)

## LEGEND

-  Habitat Restoration Area Boundary
-  Subsite 23
-  Remote Communications Site
-  Mitigation site
-  Very High Omni Range Navigation Beacon
-  Trailer



***SPAS Project Mitigation Monitoring and Reporting Program***

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<p>LAWA shall salvage existing coast buckwheat plants and any larvae on the plant or pupae in the soil below the plant that would be removed to accommodate the replacement navigational aids to further conserve this species. These plants shall be salvaged immediately prior to the installation of the replacement navigational aids outside of the butterfly flight season. These salvaged plants shall be transported in a suitable container and replanted after the onset of winter rains in subsite 23 near the restored area as described in MM-BC-13, Replacement of State-Designated Sensitive Habitats. This area shall be the designated mitigation site for planting coast buckwheat and the site to which El Segundo blue butterfly pupae shall be relocated. Gathering of coast buckwheat seed shall take place from September 15 through June 1. Propagation and planting methodologies successfully employed by LAWLA during 1984 through 1994 restoration efforts shall be employed for propagation of additional coast buckwheat plants. An existing irrigation system proximal to subsite 23 will be used to increase the success of the restoration effort. Prior to navigational aid installation, a permitted and qualified biologist shall salvage El Segundo blue butterfly larvae in coordination with the USFWS in order to minimize impacts to the butterfly. Based on LAWLA's restoration experience within the Habitat Restoration Area, occupation of restored habitat can occur within two to three years of restoration efforts. Therefore, there would be no net loss in acres or</p>				

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	<p>value of occupied habitat. Additionally, after the navigational aid system is in place and during the first subsequent flight season of the El Segundo blue butterfly, LAWA shall document El Segundo blue butterfly behavior with respect to the lighting system and submit a monitoring report to USFWS.</p> <p>Lastly, LAWA shall coordinate with the USFWS to create educational materials on the El Segundo blue butterfly for integration into LAWA's public outreach program.</p>				
<b>Construction Impacts</b>					
<p><b>C-1</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Establishment of a Ground Transportation/Construction Coordination Office.</b> Establish this office for the life of the construction projects to coordinate deliveries, monitor traffic conditions, advise motorists and those making deliveries about detours and congested areas, and monitor and enforce delivery times and routes. LAWA will periodically analyze traffic conditions on designated routes during construction to see whether there is a need to improve conditions through signage and other means.</p> <p>This office may undertake a variety of duties, including but not limited to:</p> <ul style="list-style-type: none"> <li>◆ Inform motorists about detours and congestion by use of static signs, changeable message signs, media announcements, airport website, etc.;</li> </ul>	<p>Traffic congestion and delays as they relate to the LAX Plan construction activities</p>	<p>Prior to issuance of any permits for first Master Plan project. Complete set of duties for this office will be established prior to issuance of any permit for a project that may significantly impact surface streets</p>	<p>Once, at establishment of LAWA's Construction Coordination Office</p>	<p>Establishment of Ground Transportation/Construction Coordination Office; Notification regarding duties, business hours, telephone numbers via the Internet and print media to the public</p>

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	<ul style="list-style-type: none"> <li>◆ Work with airport police and the Los Angeles Police Department to enforce delivery times and routes;</li> <li>◆ Establish staging areas;</li> <li>◆ Coordinate with police and fire personnel regarding maintenance of emergency access and response times;</li> <li>◆ Coordinate roadway projects of Caltrans, City of Los Angeles, and other jurisdictions with those of the airport construction projects;</li> <li>◆ Monitor and coordinate deliveries;</li> <li>◆ Establish detour routes;</li> <li>◆ Work with residential and commercial neighbors to address their concerns regarding construction activity; and</li> <li>◆ Analyze traffic conditions to determine the need for additional traffic controls, lane restriping, signal modifications, etc.</li> </ul>				
<b>Cultural Resources</b>					
<b>HR-1 Monitoring Agency: LAWA</b>	<b>Preservation of Historic Resources.</b> In implementing the LAX Plan and conducting ongoing activities associated with operation of the airport, LAWA will support the preservation of identified significant historic/architectural resources through careful review of design and development adjacent to those resources and by undertaking any modifications to those resources in a manner consistent with the Secretary of the Interior's Standards for the Treatment of Historic Properties. Additionally, where sound insulation is proposed for identified significant historic/architectural resources under the Aircraft	Avoiding material impairment of significant historical resources, and their historic character, identified within the Area of Potential Effects (APE)	Prior to approval of final plans for demolition of buildings within the International Airport Industrial District associated with the GTC-ITC Roadways and Century Bridge, and associated open-spaced area (for preservation	Once, at sign-off of demolition plan. (preservation) Once, at sign-off of soundproofing plan. ( sound insulation)	Plans signed off by qualified architectural historian or historic architect

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	Noise Mitigation Program, LAWA will ensure that methods are developed with the approval of a qualified architectural historian or historic architect, who meets the Secretary of the Interior's Professional Qualifications Standards, in compliance with the Secretary of the Interior's Standards for Rehabilitation.		components); In conjunction with ongoing ANMP and prior to the approval of sound proofing plan for affected historical resources (for sound insulation component)		
<b>Hazardous/Hazardous Materials- Hazardous Materials</b>					
<b>HM-1 Monitoring Agency:  LAWA</b>	<b>Ensure Continued Implementation of Existing Remediation Efforts.</b> Prior to initiating construction of a Master Plan component, LAWA will conduct a pre-construction evaluation to determine if the proposed construction will interfere with existing soil or groundwater remediation efforts. For sites currently on LAX property, LAWA will work with tenants to ensure that, to the extent possible, remediation is complete prior to the construction. If remediation must be interrupted to allow for Master Plan-related construction, LAWA will notify and obtain approval from the regulatory agency with jurisdiction, as required, and will evaluate whether new or increased monitoring will be necessary. If it is determined that contamination has migrated during construction, temporary measures will be taken to stop the migration. As soon as practicable following completion of construction in the area, remediation will be reinstated, if required by the RWQCB or another agency with jurisdiction. In such cases, LAWA will coordinate the design of the Master Plan	Potential for construction activities to interfere with existing soil or groundwater remediation efforts	Prior to initiation of construction of each Master Plan Project	Once prior to construction of each Master Plan project	Preparation of Construction Compatibility Assessment/ Plan. If remediation will be disrupted by construction, approval of the Construction Compatibility Assessment/Plan will require the necessary approvals from RWQCB, DTSC, and LAFD, as appropriate

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<b>Master Plan Commitments/ Mitigation Measures</b>		<b>SPAS Impact Being Addressed</b>	<b>Timing of Implementation</b>	<b>Monitoring Frequency</b>	<b>Actions Indicating Compliance</b>
	<p>component and the re-design of the remediation systems to ensure that they are compatible and to ensure that the proposed remediation system is comparable to the system currently in place. If it is determined during the pre-construction evaluation that construction will preclude reinstatement of the remediation effort, LAWA will obtain approval to initiate construction from the agency with jurisdiction.</p> <p>For properties to be acquired as part of the Master Plan, LAWA will evaluate the status of all existing soil and groundwater remediation efforts. As part of this evaluation, LAWA will assess the projected time required to complete the remediation activities and will coordinate with the land owner and the agency with jurisdiction to ensure that remediation is completed prior to scheduled demolition and construction activities, if possible. In cases where remediation cannot be completed prior to demolition and construction activities, LAWA will undertake the same steps required above, namely, an evaluation of the need to conduct monitoring; implementation of temporary measures to stop migration, if required; and reinstatement of remediation following completion of construction, if required.</p>				
<b>HM-2 Monitoring Agency: LAWA</b>	<p><b>Handling of Contaminated Materials Encountered During Construction.</b> Prior to the initiation of construction, LAWA will develop a program to coordinate all efforts associated with the handling of contaminated materials encountered during construction. The intent of this program will be to ensure that all contaminated soils and/or groundwater</p>	<p>Potential for encountering hazardous materials/waste during construction activities</p>	<p>Prior to initiation of construction of first Master Plan project</p>	<p>Once prior to construction of first Master Plan project</p>	<p>Preparation of Hazardous Materials/Wastes Management Plan</p>

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<p>encountered during construction are handled in accordance with all applicable regulations. As part of this program, LAWA will identify the nature and extent of contamination in all areas where excavation, grading, and pile-driving activities are to be performed. LAWA will notify the appropriate regulatory agency when contamination has been identified. If warranted by the extent of the contamination, as determined by the regulatory agency with jurisdiction, LAWA will conduct remediation prior to initiation of construction. Otherwise, LAWA will incorporate provisions for the identification, segregation, handling and disposal of contaminated materials within the construction bid documents. In addition, LAWA will include a provision in all construction bid documents requiring all construction contractors to prepare site-specific Health and Safety Plans prior to the initiation of grading or excavation. Each Health and Safety Plan would include, at a minimum, identification/description of the following: site description and features; site map; site history; waste types encountered; waste characteristics; hazards of concern; disposal methods and practices; hazardous material summary; hazard evaluation; required protective equipment; decontamination procedures; emergency contacts; hospital map and contingency plan.</p> <p>In the event that any threshold of significance listed in the Hazardous Materials section of the EIS/EIR for the LAX Master Plan is exceeded due to the discovery of soil or groundwater contaminated by hazardous materials or if previously unknown</p>				

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	contaminants are discovered during construction or a spill occurs during construction, LAWA will notify the lead agency(ies) with jurisdiction and take immediate and effective measures to ensure the health and safety of the public and workers and to protect the environment, including, as necessary and appropriate, stopping work in the affected area until the appropriate agency has been notified.				
<b>Land Use</b>					
<b>LU-2</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Establishment of a Landscape Maintenance Program for Parcels Acquired Due to Airport Expansion.</b> Land acquired and cleared for airport development will be fenced, landscaped, and maintained regularly until the properties are actually developed for airport purposes. <sup>5</sup>	Conflict with any applicable land use plan, policy, or regulation (including, but not limited to, the general plan, specific plan, local coastal program or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect	Prior to first land acquisition	On-going throughout Master Plan development	Approval of Landscape Maintenance by LAWA
<b>LU-4</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Neighborhood Compatibility Program.</b> Ongoing coordination and planning will be undertaken by LAWA to ensure that the airport is as compatible as possible with surrounding properties and neighborhoods. Measures to enforce this policy will include:	Conflict with any applicable land use plan, policy, or regulation (including, but not limited to, the general plan, specific plan, local coastal program or	Throughout Master Plan development	On-going throughout Master Plan development	Completion of LAX Plan Compliance Review, as set forth in Section 7 of the LAX Specific Plan, on a project-by-project basis

<sup>5</sup> Subsequent to the approval of the LAX Master Plan, the LAX Street Frontage and Landscape Development Plan Update was completed. In fulfillment of LAX Master Plan Commitment LU-2, the LAX Street Frontage and Landscape Development Plan Update addresses landscaping requirements for parcels acquired under the LAX Master Plan.

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	<ul style="list-style-type: none"> <li>◆ Along the northerly and southerly boundary areas of the airport, LAWA will provide and maintain landscaped buffer areas that will include setbacks, landscaping, screening or other appropriate view sensitive uses with the goal of avoiding land use conflicts, shielding lighting, enhancing privacy and better screening views of airport facilities from adjacent residential uses. Use of existing facilities in buffer areas may continue as required until LAWA can develop alternative facilities.</li> <li>◆ Locate airport uses and activities with the potential to adversely affect nearby residential land uses through noise, light spill-over, odor, vibration and other consequences of airport operations and development as far from adjacent residential neighborhoods as feasible.</li> <li>◆ Provide community outreach efforts to property owners and occupants when new development on airport property is in proximity to and could potentially affect nearby residential uses.</li> </ul>	<p>zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect</p>			
<p align="center"><b>LU-5 Monitoring Agency: LAWA</b></p>	<p><b>Comply with City of Los Angeles Transportation Element Bicycle Plan.</b> LAWA will comply with bicycle policies and plans in the vicinity of LAX, most notably those outlined in the City of Los Angeles Transportation Element Bicycle Plan<sup>6</sup> and the General Plan Framework, including Pershing Drive, Sepulveda Boulevard, and Aviation Boulevard. As a priority, a Class I bike path will be incorporated on Aviation Boulevard, as practical and feasible, per the standards identified in the City of Los Angeles Transportation</p>	<p>Conflict with any applicable land use plan, policy, or regulation (including, but not limited to, the general coastal program or zoning ordinance) adopted for the purpose of avoiding or mitigating</p>	<p>Prior to issuance of certificate of occupancy for each project that will incorporate bicycle facilities</p>	<p>Once, upon issuance of certificate of occupancy for each project that will incorporate bicycle facilities</p>	<p>Issuance of permits by LADOT, LADPW or LADBS, as appropriate</p>

<sup>6</sup> Since preparation of the LAX Master Plan Final EIR, the City's Bicycle Plan has been updated. The SPAS EIR analysis references the current 2010 City of Los Angeles Bicycle Plan.

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Element Bicycle Plan generally extending from the Inglewood City limits (Arbor Vitae Street) to the north to Imperial Highway to the south. As a primary objective, LAWA will provide maximum feasible incorporation of other bike paths and bike lanes into the design of projects that will be constructed under the LAX Master Plan program with a fundamental emphasis on ensuring safe and efficient bicycle and vehicular circulation. In addition, bicycle access and parking facilities will be provided at the GTC, ITC, and major parking lots. Bicycle facilities such as lockers and showers will also be provided where feasible to promote employee bicycle use.	an environmental effect			
<p><b>RBR-1</b> <b>Monitoring Agency:</b> <b>LAWA</b></p> <p><b>Residential and Business Relocation Program.</b> To address the acquisition of properties and relocation of businesses and residents associated with the proposed Master Plan, LAWA will prepare a Residential and Business Relocation Plan (Relocation Plan) in compliance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended, state and local regulations, and FAA Advisory Circular 150/5100-17, prior to the commencement of acquisition.<sup>7</sup> LAWA will achieve the following objectives:</p> <ul style="list-style-type: none"> <li>◆ Fully inform eligible project-area residential occupants and business owners of the nature of and procedures for obtaining relocation assistance and benefits.</li> </ul>	Conflict with any applicable land use plan, policy, or regulation (including, but not limited to, the general plan, specific plan, local coastal program or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect	Prior to commencement of relocation activities	Once, upon approval of the Relocation Plan	City Council approval of the Relocation Plan

<sup>7</sup> In fulfillment of this commitment, LAWA prepared the *LAX Master Plan Program Alternative D Draft Relocation Plan* in April 2004.

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	<ul style="list-style-type: none"> <li>◆ Determine the needs of each residential relocatee and business owner.</li> <li>◆ Provide an adequate number of referrals to comparable, decent, safe, and sanitary housing units within a reasonable time prior to relocation. No residential occupant would be required to move until comparable decent, safe, and sanitary housing is made available.</li> <li>◆ Provide at least 90 days advance written notice to vacate, as required by law. The notice period may be extended according to the needs of the affected relocatees.</li> <li>◆ Provide current and continuously updated information concerning replacement housing and business choices and opportunities.</li> <li>◆ Ensure that the relocation process does not result in different or separate treatment because of race, religion, national origin, gender, marital status, or other arbitrary circumstances.</li> <li>◆ Ensure that the unique needs of minority and low-income persons and businesses are addressed, including the provision of assistance and materials in Spanish and other languages as necessary.</li> <li>◆ Supply information concerning federal, state, city, and other governmental programs providing assistance to displaced persons or businesses.</li> </ul>				

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<ul style="list-style-type: none"> <li>◆ Assist each eligible person or business in the completion of all applications and claims for payment of benefits.</li> <li>◆ Make relocation payments in accordance with Federal Relocation Regulations, including the provisions of Last Resort Housing, where applicable.</li> <li>◆ Inform all affected occupants of LAWA's policies with regard to eviction and property management.</li> </ul> <p>Establish and maintain a formal grievance procedure for use by relocatees seeking administrative review of LAWA decisions with respect to relocation assistance.</p> <p>Although it is expected that comparable replacement housing resources are available, LAWA will take all reasonable steps to make such resources available, including but not limited to the following:</p> <ul style="list-style-type: none"> <li>◆ Provide vacated project structures to agencies that could relocate the structures to new sites and make them available for program-affected residents.</li> <li>◆ Provide funding for possible construction of replacement housing.</li> <li>◆ Provide funding for rehabilitation of housing units being sold or rented to program-affected residents.</li> </ul> <p>Consider other innovative actions to ensure the availability of replacement housing.</p>				

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<p>In addition to the above services, distinct business assistance services will include but not be limited to the following:</p> <ul style="list-style-type: none"> <li>◆ LAWA will implement a business relocation assistance program to insure prompt and equitable relocation and re-establishment of businesses displaced as a result of the proposed Master Plan. The business relocation assistance program will include: 1) a determination of the relocation needs and preferences of each business to be displaced; 2) the maintenance of listings and contacts with commercial real estate brokers, commercial lenders, and government economic development agencies to assist displaced businesses in locating suitable replacement sites; 3) the provision to displaced businesses of information on programs administered by the Small Business Administration and other federal and state programs offering assistance to displaced persons; 4) the provision of special assistance to those who wish to remain close to their current sites or close to an airport in finding such sites, including sites on the airport such as LAX Northside/Westchester Southside, or other airport-owned properties or developments; and 5) the provision of special assistance to address the specific needs of minority-owned businesses.</li> <li>◆ LAWA will coordinate with the County of Los Angeles and the cities of Inglewood,</li> </ul>				

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	<p>Hawthorne, and El Segundo to locate properties within their jurisdictions suitable for businesses displaced by the acquisition program.</p> <ul style="list-style-type: none"> <li>◆ LAWA will investigate and consider the use of the separate and ongoing ANMP to redevelop noise impacted residential areas into commercial areas suitable for businesses displaced by the Master Plan acquisition program. As part of these efforts, LAWA will coordinate with the City of Inglewood and the County of Los Angeles to identify areas east of I-405 where land acquisition and conversion to compatible land uses is contemplated under applicable plans or is otherwise deemed appropriate.</li> <li>◆ LAWA will provide opportunities for air freight, flight kitchens and other airport-related uses displaced by the acquisition program to relocate onto airport property, to the maximum extent practicable.</li> <li>◆ LAWA will, to the maximum practicable extent, develop its property in LAX Northside/Westchester Southside so as to provide relocation opportunities for businesses displaced by the acquisition program.</li> </ul> <p>With respect to any and all residential acquisition under Alternative D, LAWA will implement a housing program similar to the existing "Move On Housing Program," which is currently being implemented in conjunction</p>				

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	with the existing ANMP Relocation Plan. The Move On Housing Program is a collaborative effort between public and not-for-profit organizations to move and rehabilitate Manchester Square and Belford area structures in order to transfer housing assets to residential areas in Los Angeles County, provide reasonable housing for displaced tenants, and provide construction-related employment opportunities to community residents.				
<b>MM-LU-1 Monitoring Agency: LAWA</b>	<b>Implement Revised Aircraft Noise Mitigation Program.</b> LAWA shall expand and revise the existing ANMP in coordination with affected neighboring jurisdictions, the state, and the FAA. <sup>8</sup> The expanded Program shall mitigate land uses that would be rendered incompatible by noise impacts associated with implementation of the LAX Master Plan, unless such uses are subject to an existing aviation easement and have been provided with noise mitigation funds. LAWA shall accelerate the ANMP's timetable for achieving full compatibility of all land uses within the existing noise impact area pursuant to the requirements of the California Airport Noise Standards (California Code of Regulations, Title 21, Subchapter 6) and current Noise Variance. With the exception of a possible new interior noise level standard for schools to be established through the study required by Mitigation Measure MM-LU-3,	Create physical incompatibility with existing land uses through increased aircraft noise exposure	Initiation upon City Council approval of the LAX Plan	Annually	Submission of Annual ANMP Progress Reports and Periodic ANMP Report Updates to County of Los Angeles

<sup>8</sup> Subsequent to the approval of the LAX Master Plan, LAWA completed a revised Aircraft Noise Mitigation Program in accordance with the provisions of LAX Master Plan Mitigation Measure MM-LU-1. LAWA continues to implement the ANMP and operate under a variance to achieve compatibility of all land uses within the noise impact area. In addition, LAWA has removed the requirement for an aviation easement in most cases, and has identified places of worship eligible for soundproofing.

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<p>Conduct Study of the Relationship Between Aircraft Noise Levels and the Ability of Children to Learn, the relevant performance standard to achieve compatibility for land uses that are incompatible due to aircraft noise (i.e., residences, schools, hospitals and churches) is adequate acoustic performance (sound insulation) to ensure an interior noise level of 45 CNEL or less. As an alternative to sound insulation, incompatible property may also achieve compatibility if the incompatible use is converted to a noise-compatible use.</p> <p>LAWA shall revise the ANMP to incorporate new, or expand existing measures, including, but not necessarily limited to, the following:</p> <ul style="list-style-type: none"> <li>◆ Continued implementation of successful programs to convert existing incompatible land uses to compatible land uses through sound insulation of structures and the acquisition and conversion of incompatible land use to compatible land use.</li> <li>◆ Ongoing monitoring and provision of annual updates in support of the requirements of the current LAX Noise Variance pursuant to the California Airport Noise Standards, with the updates made available (upon request) to affected local jurisdictions, the ALUC of Los Angeles County, and other interested parties.</li> <li>◆ Continue the current pre- and post-insulation noise monitoring to ensure achievement of interior noise levels at or below 45 CNEL.</li> </ul>				

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	<ul style="list-style-type: none"> <li>◆ Accelerated rate of land use mitigation to eliminate noise impact areas in the most timely and efficient manner possible through:               <ul style="list-style-type: none"> <li>- Increased annual funding by LAWA for land use mitigation;</li> <li>- Reevaluating aviation easements requirements with sound insulation mitigation;</li> <li>- Provision by LAWA of additional technical assistance, where needed, to local jurisdictions to support more rapid and efficient implementation of their land use mitigation programs;</li> <li>- Reduction or elimination, to the extent feasible, of structural and building code compliance constraints to mitigation of sub-standard housing.</li> </ul> </li> <li>◆ Revised criteria and procedures for selection and prioritization of properties to be sound insulated or acquired in consideration of the following:               <ul style="list-style-type: none"> <li>- Insulation or acquisition of properties within the highest CNEL measurement zone;</li> <li>- Acceleration of the fulfillment of existing commitments to owners wishing to participate within the current ANMP boundaries prior to proceeding with newly eligible properties;</li> <li>- Insulation or acquisition of incompatible properties with high concentrations of</li> </ul> </li> </ul>				

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	<p>residents or other noise-sensitive occupants such as those housed in schools or hospitals.</p> <ul style="list-style-type: none"> <li>◆ Amend ANMP to include libraries as noise-sensitive uses eligible for aircraft noise mitigation.</li> <li>◆ Upon completion of acquisition and/or soundproofing commitment under the current Program, expand the boundaries of the ANMP as necessary over time. LAWA will continue preparing quarterly reports that monitor any expansion of the 65 CNEL noise contours beyond the current ANMP boundaries. Based upon these quarterly reports, LAWA will evaluate and adjust the ANMP boundaries, periodically as appropriate, so that as the 65 CNEL noise contours expand, residential and noise-sensitive uses newly impacted by 65 CNEL noise levels would be included within the Program.</li> </ul>				
<p><b>MM-LU-3</b> <b>Monitoring Agency:</b> <b>LAWA</b></p>	<p><b>Conduct Study of the Relationship Between Aircraft Noise Levels and the Ability of Children to Learn.</b> Current studies of aircraft noise and the ability of children to learn have not resulted in the development of a statistically reliable predictive model of the relative effect of changes in aircraft noise levels on learning. Therefore a comprehensive study shall be initiated by LAWA to determine what, if any, measurable relationship may be present between learning and the disruptions caused by aircraft noise at various levels. An element of the evaluation shall be</p>	<p>Classroom disruption due to exposure to high single event or cumulative noise levels</p>	<p>Initiation of study upon City Council approval of the LAX Plan</p>	<p>Once, upon approval of the study by LAWA</p>	<p>LAWA approval of completed study</p>

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	the setting of an acceptable replacement threshold of significance for classroom disruption by both specific and sustained aircraft noise events. <sup>9</sup>				
<p><b>MM-LU-4</b> <b>Monitoring Agency:</b> <b>LAWA</b></p>	<p><b>Provide Additional Sound Insulation for Schools Shown by MM-LU-3 to be Significantly Impacted by Aircraft Noise.</b> Prior to completion of the study required by Mitigation Measure MM-LU-3, Conduct Study of the Relationship Between Aircraft Noise Levels and the Ability of Children to Learn, and within six months of the commissioning of any relocated runways associated with implementation of the LAX Master Plan, LAWA shall conduct interior noise measurements at schools that could be newly exposed to noise levels that exceed the interim LAX interior noise thresholds for classroom disruption of 55 dB Lmax, 65 dB Lmax, or 35 Leq(h), as presented in Section 4.1 Noise, of the Final EIS/EIR. All school classroom buildings (except those within schools subject to an aviation easement) that are found through the noise measurements to exceed the interim interior noise thresholds, as compared to the 1996 baseline conditions presented in the Final EIS/EIR, would become eligible for soundproofing under the ANMP.</p> <p>Upon completion of the study required by Mitigation Measure MM-LU-3 and acceptance of its results by peer review of industry experts, any schools found to exceed a newly established threshold of significance</p>	Classroom disruption due to exposure to noise levels in excess of threshold of significance established in MM-LU-3	Within six (6) months of commissioning of any relocated runways ( for interim LAX interior noise thresholds components); and upon completion of the study in Mitigation Measure MM-LU-3 (for MM-LU-3 component)	Annually	Conduct noise measurements based on interim LAX interior noise thresholds and on interim LAX interior noise thresholds and on newly establish noise thresholds set by MM-LU-3, and make schools eligible for ANMP participation, as appropriate

<sup>9</sup> A study entitled Evaluating the Impact of Aviation Noise on Learning is currently underway to determine when aircraft noise impacts student learning and what noise metric(s) best defines impact on learning. The final study is expected to be completed mid- to late-2013. The implementation of LAX Master Plan Mitigation Measure MM-LU-4 is contingent upon the results of this study.

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	for classroom disruption based on comparison with 1996 baseline conditions due to implementation of the LAX Master Plan, shall be eligible for participation in the ANMP administered by LAWA, unless they are subject to an existing aviation easement. A determination of which schools become eligible will be made following application of the new threshold based on measured data.				
<b>MM-RBR-1</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Phasing for Business Relocations.</b> To maximize opportunities for airport/airport-dependent businesses and other businesses being acquired to relocate in proximity to their current sites, LAWA shall, to the maximum degree feasible, schedule acquisition phasing and/or development phasing to accommodate interested parties on airport property in a manner that would avoid delays to the overall construction and development schedule. First priority shall be given to airport/airport-dependent businesses, such as air freight forwarders and hotels, whose relocation off of the airport would present a unique hardship. Master Plan Commitment RBR-1, Residential and Business Relocation Program, can also serve to mitigate significant effects stemming from the acquisition program by using LAWA ANMP funds to redevelop noise impacted residential property for industrial uses.	Minimize adverse acquisition or relocation impacts	Prior to commencement of relocation activities	Once, upon approval of phasing plan for business relocation	LAWA approval of phasing plan for business relocation
<b>MM-RBR-2</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Relocation Opportunities through Aircraft Noise Mitigation Program.</b> As a special project under the ANMP for LAX, LAWA shall coordinate with the City of Inglewood and the County of Los Angeles to identify residential land uses that are subject to high levels of aircraft noise where land acquisition and conversion to	Create physical incompatibility with existing land uses through increased aircraft noise exposure	Within 60 days from City Council approval of Relocation Plan, LAWA shall initiate coordination efforts	Once, upon initiation of coordination efforts with the County of Los Angeles and City of Inglewood	Provide evidence of coordination

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	compatible land uses is contemplated under applicable plans or is otherwise deemed appropriate. As residential uses are relocated outside of noise impacted areas under the ANMP, in compliance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended, LAWA will work with the jurisdictions to identify airport-related businesses interested in these sites. With support from the jurisdictions, as well as other businesses and organizations such as Gateway to L.A. that interact with LAWA, LAWA will promote these sites for businesses subject to acquisition as part of the proposed LAX Relocation Plan business relocation assistance program. The multiple objectives of the effort shall be to mitigate noise impacted land uses, retain and promote local businesses dependent on airport proximity, and support local employment and economic growth. Areas under the City of Inglewood General Plan and redevelopment plan that are proposed for land recycling along Century Boulevard shall be given high priority.		with the County of Los Angeles and City of Inglewood		
<b>Noise - Aircraft Noise</b>					
<b>N-1 Monitoring Agency: LAWA</b>	<b>Maintenance of Applicable Elements of Existing Aircraft Noise Abatement Program.</b> All components of the current airport noise abatement program that pertain to aircraft noise will be maintained.	Expose noise-sensitive areas to 65 CNEL or greater with at least a 1.5 CNEL increase.	Already being implemented. Will continue noise abatement program throughout implementation and use.	Ongoing	Submission of Annual Report per Variance Conditions to County of Los Angeles

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<b>MM-N-4</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Update the Aircraft Noise Abatement Program Elements as Applicable to Adapt to the Future Airfield Configuration.</b> When existing runways are relocated or reconstructed as part of the Master Plan, the aircraft noise abatement actions associated with those runways shall be modified and re-established as appropriate to assure continuation of the intent of the existing program.	Expose noise-sensitive areas to 65 CNEL or greater with at least a 1.5 CNEL increase	Upon commissioning of relocated runways	Once, upon commissioning of each relocated runway and then on-going	Update of Aircraft Noise Abatement Program to reflect relocated runways and submission of Annual Report per Variance Conditions to County of Los Angeles
<b>MM-N-5</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Conduct Part 161 Study to Make Over-Ocean Procedures Mandatory.</b> A 14 CFR Part 161 Study shall be initiated to seek federal approval of a locally-imposed Noise and Access Restriction on departures to the east during Over-Ocean Operations, or when Westerly Operations remain in effect during the Over-Ocean Operations time period.	Expose noise-sensitive areas to 65 CNEL or greater with at least a 1.5 CNEL increase	Initiation within 30 days from City Council approval of the LAX Plan	Once, upon submission of Part 161 Application to the FAA, or upon execution of voluntary agreement between LAWA and the Airlines	Submission of Part 161 application and supporting documents to the FAA for approval, or execution of a voluntary agreement between LAWA and the Airlines to implement restrictions
<b>Noise - Construction Traffic and Equipment Noise</b>					
<b>MM-N-7</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Construction Noise Control Plan.</b> A Construction Noise Control Plan will be prepared to provide feasible measures to reduce significant noise impacts throughout the construction period for all projects near noise sensitive uses. For example, noise control devices shall be used and maintained, such as equipment mufflers, enclosures, and barriers. Natural and artificial barriers such as ground elevation changes and existing buildings may be used to shield construction noise.	Significant noise impacts at noise-sensitive receivers during construction	Prior to the earliest of either the issuance of a grading permit, issuance of a demolition permit, or construction commencement of each project with noise sensitive uses within 600 feet of project site	Once, upon completion of Noise Control Plan for each project and as specified in the Noise Control Plan	Inclusion of requirement for a Noise Control Plan in subcontract agreement & subsequent approval of the noise control plan by LAWA

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<b>MM-N-8</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Construction Staging.</b> Construction operations shall be staged as far from noise-sensitive uses as feasible.	Significant noise impacts at noise-sensitive receivers during construction	Prior to the earliest of either the issuance of a grading permit, issuance of a demolition permit, or construction commencement of each project with noise sensitive uses within 600 feet of project site	Once, upon approval of construction staging area by LAWA	Approval of construction staging area by LAWA
<b>MM-N-9</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Equipment Replacement.</b> Noisy equipment shall be replaced with quieter equipment (for example, rubber tired equipment rather than track equipment) when technically and economically feasible.	Significant noise impacts at noise sensitive receivers during construction	Prior to the earliest of either the issuance of a grading permit, issuance of a demolition permit, or construction commencement of each project with noise sensitive uses within 600 feet of the project site	Once, upon completion of Noise Control Plan for each project and as specified in the Noise Control Plan	Inclusion of requirement for a Noise Control Plan in subcontract agreement and subsequent approval of the Noise Control Plan by LAWA

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<b>MM-N-10</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Construction Scheduling.</b> The timing and/or sequence of the noisiest on-site construction activities shall avoid sensitive times of the day, as feasible (9 p.m. to 7 a.m. Monday - Friday; 6 p.m. to 8 a.m. Saturday; any time on Sunday or Holidays).	Significant noise impacts at noise-sensitive receivers during construction	Prior to the earlier of either the issuance of a grading permit, issuance of a demolition permit, or construction commencement of each project with noise sensitive uses within 600 feet of project site	Once, upon completion of Noise Control Plan for each project and as specified in the Noise Control Plan	Inclusion of requirement for a Noise Control Plan in subcontract agreement and subsequent approval of the Noise Control Plan by LAWA
<b>Public Services - Fire Protection</b>					
<b>FP-1</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>LAFD Design Recommendations.</b> During the design phase prior to initiating construction of a Master Plan component, LAWA will work with LAFD to prepare plans that contain the appropriate design features applicable to that component, such as those recommended by LAFD, and listed below: <ul style="list-style-type: none"> <li>◆ <i>Emergency Access.</i> During Plot Plan development and the construction phase, LAWA will coordinate with LAFD to ensure that access points for off-airport LAFD personnel and apparatus are maintained and strategically located to support timely access. In addition, at least two different ingress/egress roads for each area, which will accommodate major fire apparatus and will provide for major evacuation during emergency situations, will be provided.</li> <li>◆ <i>Fire Flow Requirements.</i> Proposed Master Plan development will include improvements, as</li> </ul>	Avoidance of compromised fire prevention and protection	Prior to issuance of building permits or B-permits	Once, upon sign-off of plans for each project	LAFD sign-off on plans prior to issuance of building permits or prior to issuance of B-permit for street improvements

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<p>needed, to ensure that adequate fire flow is provided to all new facilities. The fire flow requirements for individual Master Plan improvements will be determined in conjunction with LAFD and will meet, or exceed, fire flow requirements in effect at the time.</p> <ul style="list-style-type: none"> <li>◆ <i>Fire Hydrants.</i> Adequate off-site public and on-site private fire hydrants may be required, based on determination by the LAFD upon review of proposed plot plans.</li> <li>◆ <i>Street Dimensions.</i> New development will conform to the standard street dimensions shown on the applicable City of Los Angeles Department of Public Works Standard Plan.</li> <li>◆ <i>Road Turns.</i> Standard cut-corners will be used on all proposed road turns.</li> <li>◆ <i>Private Roadway Access.</i> Private roadways that will be used for general access and fire lanes shall have at least 20 feet of vertical access. Private roadways will be built to City of Los Angeles standards to the satisfaction of the City Engineer and the LAFD.</li> <li>◆ <i>Dead-End Streets.</i> Where fire lanes or access roads are provided, dead-end streets will terminate in a cul-de-sac or other approved turning area. No fire lane shall be greater than 700 feet in length unless secondary access is provided.</li> <li>◆ <i>Fire Lanes.</i> All new fire lanes will be at least 20 feet wide. Where a fire lane must accommodate a LAFD aerial ladder apparatus or where a fire hydrant is installed, the fire lane will be at least 28 feet wide.</li> </ul>				

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<ul style="list-style-type: none"> <li>◆ <i>Building Setbacks.</i> New buildings will be constructed no greater than 150 feet from the edge of the roadways of improved streets, access roads, or designated fire lanes.</li> <li>◆ <i>Building Heights.</i> New buildings exceeding 28 feet in height may be required to provide additional LAFD access.</li> <li>◆ <i>Construction/Demolition Access.</i> During demolition and construction activities, emergency access will remain unobstructed.</li> <li>◆ <i>Aircraft Fire Protection Systems.</i> Effective fire protection systems will be provided to protect the areas beneath the wings and fuselage portions of large aircraft. This may be accomplished by incorporating foam-water deluge sprinkler systems with foam-producing and oscillating nozzle (per NFPA 409, aircraft hangars for design criteria).</li> </ul>					
<p><b>PS-1</b> <b>Monitoring Agency:</b> <b>LAWA</b></p>	<p><b>Fire and Police Facility Relocation Plan.</b> Prior to any demolition, construction, or circulation changes that would affect LAFD Fire Stations 51, 80, and 95, or on-airport police facilities, a Relocation Plan will be developed by LAWA through a cooperative process involving LAFD, LAWAPD, the LAPD LAX Detail, and other airport staff. The performance standards for the plan will ensure maintenance of required response times, response distances, fire flows, and a transition to new facilities such that fire and law enforcement services at LAX will not be significantly degraded. The plan will also address future facility needs, including details regarding space requirement, siting, and design.</p>	Avoidance of compromised fire prevention and protection	Prior to any Master Plan activities affecting on-airport fire and police facilities	Once, upon completion of Fire and Police Facility Relocation Plan; as necessary during relocation process	Completion of Fire and Police Facility Relocation Plan

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<b>PS-2</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Fire and Police Facility Space and Siting Requirements.</b> During the early design phase for implementation of the Master Plan elements affecting on-airport fire and police facilities, LAWA and/or its contractors will consult with LAFD, LAWAPD, LAPD, and other agencies as appropriate, to evaluate and refine as necessary, program requirements for fire and police facilities. This coordination will ensure that final plans adequately support future facility needs, including space requirements, siting and design.	Avoidance of compromised fire prevention and protection	Prior to any Master Plan activities affecting on-airport police and fire facilities	On-going during early design phase	Approval of facility program requirements by involved agencies
<b>Public Services - Law Enforcement</b>					
<b>LE-1</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>LE-1. Routine Evaluation of Manpower and Equipment Needs.</b> LAWA will ensure that LAWAPD and LAPD LAX Detail continue to routinely evaluate and provide additional officers, supporting administrative staff, and equipment, to keep pace with forecasted increases in activity and development at LAX in order to maintain a high level of law enforcement services. This will be achieved through LAWA notification to LAWAPD and LAPD regarding pending development and construction and through LAWA review of status reports on law enforcement services at LAX.	Avoidance of substantial deficiencies in law enforcement personnel & equipment	Ongoing	Weekly (via meetings with law enforcement agencies); deployment monitored daily	Operations Plan and Deployment Logs

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<b>LE-2</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Plan Review.</b> During the design phase of terminal and cargo facilities and other major airport development, the LAPD, LAWAPD, and other law enforcement agencies will be consulted to review plans so that, where possible, environmental contributors to criminal activity, such as poorly-lit areas, and unsafe design, are reduced.	Unsafe facility/architectural design	Prior to issuance of building permits for each Master Plan project	Once, prior to issuance of building permits for each project	Plan sign-off by LAWAPD and LAX Detail
<b>Transportation - Surface Transportation (On-Airport)</b>					
<b>ST-2</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Non-Peak CTA Deliveries.</b> Deliveries to the CTA terminal reconstruction projects will be limited to non-peak traffic hours whenever possible.	Traffic congestion and delays as they relate to the LAX Master Plan program construction activities	During construction of any LAX Master Plan related CTA terminal reconstruction projects	On-going during construction	Periodic reporting by the Construction Coordination Office
<b>ST-8</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Limited Short-Term Lane Closures.</b> When construction of any new ramps at the Century Boulevard/Sepulveda Boulevard interchange or construction for the GTC, ITC, or APM elevated structures require short-term lane closures, the lane closures will be for as brief a period as practical, with a goal that closures would principally be scheduled for non-peak periods.	Traffic congestion and delays as they relate to the LAX Master Plan program construction activities	During construction of new ramps at Century Boulevard/ Sepulveda Boulevard interchange; construction of elevated structures for the GTC, ITC, or APM	When short-term lane closures are scheduled during construction	Periodic reporting by Construction Coordination Office
<b>MM-ST-1</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Require CTA Construction Vehicles to Use Designated Lanes.</b> Whenever feasible, construction vehicles shall be restricted to designated roadways or lanes of traffic on CTA roadways adjacent to the existing close-in parking, thus limiting the mix of construction vehicles and airport traffic.	Traffic congestion and delay as they relate to the LAX Master Plan program construction activities	During CTA reconstruction projects	On-going during construction	LAWA approval of Construction Traffic Management Plan

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<b>MM-ST-2</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Modify CTA Signage.</b> During construction, additional signage will be installed, as required, to separate construction traffic from non-construction traffic to the extent feasible.	Traffic congestion and delay as they relate to the LAX Master Plan program construction activities	Prior to start of construction of CTA reconstruction projects	As stipulated in the Construction Traffic Management Plan, approved by LAWA's Construction Coordination Office	Sign installation
<b>MM-ST-3</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Develop Designated Shuttle Stops for Labor Buses and ITC-CTA Buses.</b> Develop shuttle stops for labor buses (i.e., buses carrying construction workers) and the ITC-CTA shuttle buses at the CTA arrivals level. All ITC-CTA shuttle buses will be routed to these lower level (arrivals) curb areas. These buses will not circulate through the upper level (departures) curbside.	Traffic congestion and delay as they relate to the LAX Master Plan program construction activities	Prior to demolition of CTA parking structures	As stipulated in the Construction Traffic Management Plan, approved by LAWA's Construction Coordination Office	Establishment of new CTA shuttle stops
<b>MM-ST (BWP)-2</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Improve the Intersection of Center Way and World Way South.</b> Widen World Way South approach on the east side of the roadway to provide an additional right turn lane. The resulting configuration would be a single left turn lane, one through-left turn lane, two through lanes, and two right turn lanes.  During the Future (2013) Without Project overall airport peak hour the intersection of Center Way and World Way South operates at a V/C of 0.978 which is LOS E. With an intersection operating at a LOS E condition, the volume to capacity ratio can be increased by 0.01 without generating an impact. This equates to an increase in the intersection's V/C ratio from 0.978 to 0.988, or approximately 1.1 percent (i.e., 0.988/0.978) in the critical movement traffic volume without triggering an impact. LAWA will monitor traffic	Traffic congestion and delays at the intersection of Center Way and World Way South during airport operations	When traffic levels reach the conditions specified in the measure	(1) Prior to implementation of intersection improvements, this measure will be monitored annually to determine whether CTA average daily traffic volumes in the peak month (August) have increased by more than 1.1 percent relative	Confirmation that the subject intersection improvement has been completed

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	<p>conditions at this intersection to determine when an estimated impact has been "triggered" in accordance with the LOS thresholds described above. Specifically, LAWA will monitor future CTA average daily traffic volumes in August to determine when CTA average daily traffic volumes have increased by more than 1.1 percent relative to the Future (2013) Without Project average daily traffic volumes. In addition, LAWA will record turning movement volumes at this intersection annually during the airport's peak month (August). When the August average daily CTA volumes have increased by 1.1 percent as compared to the Future (2013) Without Project estimated volume, LAWA will complete a V/C analysis using the same intersection methodology described in the Bradley West Draft EIR (Section 4.1.3.7) to determine if an impact has occurred. The mitigation measure would be constructed once both (a) the CTA average daily traffic volumes are 1.1 percent greater than the Future (2013) Without Project and (b) the V/C for the intersection meets or exceeds 0.988. The intersection analysis would be subject to approval by LADOT regarding timing of the mitigation measure.</p>			<p>to the Future (2013) Without Project average daily traffic volumes, based on annual passenger activity reports. (2) Following implementation of intersection improvements, the monitoring frequency will be reduced to once, upon completion of subject intersection improvement</p>	
<p><b>MM-ST (BWP)-3</b>  <b>Monitoring Agency:</b>  <b>LAWA</b></p>	<p><b>Widen World Way Across from TBIT.</b> Widen the arrivals-level outer roadway across from TBIT by changing the left-most lane that currently terminates at Center Way to a through/left lane and extending this lane to World Way South.</p>	<p>Traffic congestion and delays along on-airport roadways during airport operations</p>	<p>The subject widening shall occur in conjunction with the project-related construction at TBIT, which is anticipated to be completed in 2013</p>	<p>Once, upon completion of subject roadway widening</p>	<p>Confirmation that the subject roadway widening has been completed</p>

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<b>Transportation-Surface Transportation (Off-Airport)</b>					
<b>ST-9</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Construction Deliveries.</b> Construction deliveries requiring lane closures shall receive prior approval from the Construction Coordination Office. Notification of deliveries shall be made with sufficient time to allow for any modifications to approved traffic detour plans.	Traffic congestion and delays as they relate to the LAX Master Plan program construction activities	During construction	On-going during construction	Periodic reporting by Construction Coordination Office
<b>ST-12</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Designated Truck Delivery Hours.</b> Truck deliveries shall be encouraged to use night-time hours and shall avoid the peak periods of 7:00 a.m. to 9:00 a.m. and 4:30 p.m. to 6:30 p.m.	Traffic congestion and delays as they relate to the LAX Master Plan program construction activities	LAWA approval of delivery schedule as part of the Construction Traffic Management Plan	On-going during construction	Periodic reporting by Construction Coordination Office
<b>ST-14</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Construction Employee Shift Hours.</b> Shift hours that do not coincide with the heaviest commuter traffic periods (7:00 a.m. to 9:00 a.m., 4:30 p.m. to 6:30 p.m.) will be established. Work periods will be extended to include weekends and multiple work shifts, to the extent possible and necessary.	Traffic congestion and delays as they relate to the LAX Master Plan program construction activities	Prior to construction activity for each Master Plan project	Once, upon approval of employees' work schedule on a project-by-project basis	LAWA approval of employee work schedule as part of the Construction Traffic Management Plan
<b>ST-16</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Designated Haul Routes.</b> Every effort will be made to ensure that haul routes are located away from sensitive noise receptors.	Traffic noise	At issuance of approved haul route	Once, at approval of each haul route	Approval of haul route by LADBS

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<p><b>ST-17</b> <b>Monitoring Agency:</b> <b>LAWA</b></p> <p><b>Maintenance of Haul Routes.</b> Haul routes on off-airport roadways will be maintained periodically and will comply with City of Los Angeles or other appropriate jurisdictional requirements for maintenance. Minor striping, lane configurations, and signal phasing modifications will be provided as needed.</p>	Roadway safety	As dictated by LAWA's Construction Coordination Office and LADBS	On-going during construction	Field inspection report; maintenance logs
<p><b>ST-18</b> <b>Monitoring Agency:</b> <b>LAWA</b></p> <p><b>Construction Traffic Management Plan.</b> A complete construction traffic plan will be developed to designate detour and/or haul routes, variable message and other sign locations, communication methods with airport passengers, construction deliveries, construction employee shift hours, construction employee parking locations and other relevant factors.</p>	Traffic congestion, delay and safety, as they relate to the LAX Master Plan program construction activities	Prior to commencement of construction	On-going during construction, as stipulated by LAWA's Construction Coordination Office	LAWA approval of Construction Traffic Management Plan by LAWA's Construction Coordination Office
<p><b>ST-19</b> <b>Monitoring Agency:</b> <b>LAWA</b></p> <p><b>Closure Restrictions of Existing Roadways.</b> Other than short time periods during nighttime construction, existing roadways will remain open until they are no longer needed for regular traffic or construction traffic, unless a temporary detour route is available to serve the same function. This will recognize that there are three functions taking place concurrently: (1) airport traffic, (2) construction haul routes, and (3) construction of new facilities.</p>	Traffic congestion and delays as they relate to the LAX Master Plan program construction activities	As construction dictates	As stipulated in Construction Traffic Management Plan, approved by LAWA's Construction Coordination Office	Street closure permit; approval by LAWA's Construction Coordination Office
<p><b>ST-20</b> <b>Monitoring Agency:</b> <b>LAWA</b></p> <p><b>Stockpile Locations.</b> Stockpile locations will be confined to the eastern area of the airport vicinity, to the extent practical and feasible. After the eastern facilities are under construction in Alternative D, stockpile locations will be selected that are as close to I-405 and I-105 as possible, and can be accessed by</p>	Traffic congestion and delays as they relate to the LAX Master Plan program construction activities	Prior to construction of each eastern facility	Once, upon approval of stockpile locations by LAWA's Construction Coordination Office	LAWA approval of stockpile locations as part of the Construction Management Traffic Plan

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	construction vehicles with minimal disruption to adjacent streets. Multiple stockpile locations may be provided, as required.				
<p align="center"><b>ST-21</b> <b>Monitoring Agency:</b> <b>LAWA</b></p>	<p><b>Construction Employee Parking Locations.</b> During construction of the eastern airport facilities, employee parking locations will be selected that are as close to I-405 and I-105 as possible and can be accessed by employee vehicles with minimal disruption to adjacent streets. Shuttle buses will transport employees to construction sites. In addition, remote parking locations (of not less than 1 mile away from project construction activities) will be established for construction employees with shuttle service to the airport. An emergency return system will be established for employees that must leave unexpectedly.</p>	Traffic congestion and delays as they relate to the LAX Master Plan program construction activities	Prior to construction of each eastern facility	Once, upon approval of Employee Parking Locations by LAWA's Construction Coordination Office	LAWA approval of stockpile locations as part of the Construction Management Traffic Plan
<p align="center"><b>ST-22</b> <b>Monitoring Agency:</b> <b>LAWA</b></p>	<p><b>Designated Truck Routes.</b> For dirt and aggregate and all other materials and equipment, truck deliveries will be on designated routes only (freeways and non-residential streets). Every effort will be made for routes to avoid residential frontages. The designated routes on City of Los Angeles streets are subject to approval by LADOT's Bureau of Traffic Management and may include, but will not necessarily be limited to: Pershing Drive (Westchester Parkway to Imperial Highway); Florence Avenue (Aviation Boulevard to I-405); Manchester Boulevard (Aviation Boulevard to I-405); Aviation Boulevard (Manchester Avenue to Imperial Highway); Westchester Parkway/Arbor Vitae Street (Pershing Drive to I-405); Century Boulevard (Sepulveda Boulevard to I-405); Imperial Highway</p>	Traffic congestion and delay as they relate to the LAX Master Plan program construction activities	At issuance of haul route approval	Once, upon approval of each haul route	Approval of haul route by LADBS

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(Pershing Drive to I-405); La Cienega Boulevard (north of Imperial Highway); Airport Boulevard (Arbor Vitae Street to Century Boulevard); Sepulveda Boulevard (Westchester Parkway to Imperial Highway); I-405; and I-105.				
<p><b>ST-24</b> <b>Monitoring Agency:</b> <b>LAWA</b></p> <p><b>Fair Share Contribution to CMP Improvements.</b> At the time of substantial completion of the LAX Master Plan, LAWA will contribute funding on a fair share basis to future transportation improvements identified through the CMP analysis completed for Alternative D.</p> <p>LAWA's financial contribution will be based upon, and coordinated with, traffic impacts attributable to implementation of the LAX Master Plan, and will occur at the time the individual future improvements at the locations listed above are implemented, subject to federal approval regarding airport revenue diversion.</p>	Traffic congestion and delays as they relate to the Master Plan program construction activities	Upon substantial completion of the LAX Master Plan	Once, substantial completion of the LAX Master Plan	Approval of fair-share contribution by LADOT or appropriate jurisdiction and/or agency
<p><b>MM-ST-14</b> <b>Monitoring Agency:</b> <b>LAWA</b></p> <p><b>Ground Transportation/Construction Coordination Office Outreach Program.</b> The construction coordination office proposed in Master Plan Commitment C-1, Establishment of a Ground Transportation/Construction Coordination Office, shall establish appropriate mechanisms to involve and coordinate with other major airport-area development projects to the extent feasible, to ensure that the cumulative impacts of construction in the airport area are coordinated and minimized.</p>	Traffic congestion and delays as they relate to the LAX Master Plan program construction activities	Prior to commencement of construction of any major development project within the vicinity of LAX	As major development projects occur in airport area	LAWA approval of outreach program

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<b>Utilities-Energy</b>				
<b>E-1</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Energy Conservation and Efficiency Program.</b> LAWA will seek to continually improve the energy efficiency of building design and layouts during the implementation of the LAX Master Plan. Title 24, Part 6, Article 2 of the California Administrative Code establishes maximum energy consumption levels for heating and cooling of new buildings to assure that energy conservation is incorporated into the design of new buildings. LAWA will design new facilities to meet or exceed the prescriptive standards required under Title 24. Some of the energy conservation measures that LAWA may incorporate into the design of new buildings and airports facilities may include the use of energy-efficient building materials, energy-saving lighting systems, energy-efficient air-conditioning systems, energy-efficient water-heating systems, and designed-in access for alternative means of surface transportation, including the Green Line and the APM. These energy conservation measures may be further improved upon as energy-saving design approaches and technologies develop.	Avoid a substantial increase in energy consumption due to the development of new facilities	Prior to approval of building plans for each project involving new or substantially renovated buildings that consume electricity or natural gas	Once prior to approval of building plans  Approval of building plans by LADBS or LADPW, as appropriate
<b>Utilities-Solid Waste</b>				
<b>SW-1</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Implement an Enhanced Recycling Program.</b> LAWA will enhance their existing recycling program, based on successful programs at other airports and similar facilities. Features of the enhanced recycling program will include: expansion of the existing terminal recycling program to all terminals, including new terminals; development of a recycling program at	Generation of additional solid waste due to increased activity levels at LAX	Prior to issuance of certificate of occupancy for any use developed in LAX Northside, or approval of building permits for CTA	Annually  Annual confirmation that LAX and LAX Northside are exceeding waste reductions requirements of AB 939

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	LAX Northside/Westchester Southside; lease provisions requiring that tenants meet specified diversion goals; and preference for recycled materials during procurement where, practical and appropriate.		improvements, whichever occurs first		
<b>MM-SW-1</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Provide Landfill Capacity.</b> Additional landfill capacity in the Los Angeles region should be provided through the siting of new landfills, the expansion of existing landfills, or the extension of permits for existing facilities. As an alternative, or to augment regional landfill capacity, landfill capacity outside the region could be accessed by developing the necessary rail haul infrastructure. The responsibility for implementing this mitigation measure lies with state, county, and local solid waste planning authorities. The costs for implementing this mitigation measure will be passed on to LAX and other solid waste generators through increase solid waste disposal costs.	Cumulative increases in solid waste generation that could reduce existing available landfill capacity	Preparation of first report on landfill capacity prior to issuance of certificate of occupancy for any use developed in LAX Northside, or approval of building permits for CTA improvements, whichever occurs first	Annually	Annual updates on solid waste disposal capabilities/capacity of City of Los Angeles

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<b>Utilities - Water Supply</b>					
<b>W-1</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Maximize Use of Reclaimed Water.</b> To the extent feasible, LAWA will maximize the use of reclaimed water in Master Plan-related facilities and landscaping. The intent of this commitment is to maximize the use of reclaimed water as an offset for potable water use and to minimize the potential for increased water use resulting from implementation of the LAX Master Plan. This commitment will also facilitate achievement of the City of Los Angeles' goal of increased beneficial use of its reclaimed water resources. This commitment will be implemented by various means, such as installation and use of reclaimed water distribution piping for landscape irrigation.	Reduce demands for, and use of, potable water	Prior to approval of building plans for each project involving new or substantially renovated buildings that use water, and prior to approval of landscaping plans	Once, prior to approval of plans for affected project	Approval of plans for affected project
<b>W-2</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Enhance Existing Water Conservation Program.</b> LAWA will enhance the existing Street Frontage and Landscape Plan for LAX to ensure the ongoing use of water conservation practices at LAX facilities. The intent of this program, to minimize the potential for increased water use due to implementation of the LAX Master Plan program, is also in accordance with regional efforts to ensure adequate water supplies for the future. Features of the enhanced conservation program will include identification of current water conservation practices and an assessment of their effectiveness; identification of alternate future conservation practices; continuation of the practice of retrofitting and installing new low-flow toilets and other water-efficient fixtures in all LAX buildings, as remodeling takes place or new construction occurs;	Avoid a substantial increase in water consumption due to the development of new facilities	Prior to the approval of building plans or landscaping plans for first Master Plan project involving water use (i.e., CTA Landside Terminal or LAX Northside development, whichever occurs first	Once, prior to approval of building plans or landscaping plans for first Master Plan project	Preparation of Water Conservation Program

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	use of Best Management Practices for maintenance; use of water efficient vegetation for landscaping, where possible; and continuation of the use of fixed automatic irrigation for landscaping.				

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SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance	
<b>Air Quality</b>					
<p><b>MM-AQ (SPAS)-1</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Additional Measures to Supplement the LAX Master Plan Mitigation Plan for Air Quality - Construction-Related Mitigation Measures.</b> For purposes of SPAS, LAWA will expand the existing LAX Master Plan Mitigation Plan for Air Quality Construction-Related Mitigation Measures to include the following specific actions:</p> <ul style="list-style-type: none"> <li>◆ On-road trucks used on SPAS construction projects with a gross vehicle weight rating of at least 19,500 pounds shall, at a minimum, comply with USEPA 2007 on-road emissions standards for PM10 and NO<sub>x</sub>.</li> <li>◆ Prior to January 1, 2015, all off-road diesel-powered construction equipment greater than 50 horsepower used on SPAS construction projects shall meet USEPA Tier 3 off-road emission standards. After December 31, 2014, all off-road diesel-power construction equipment greater than 50 horsepower used on SPAS construction projects shall meet USEPA Tier 4 off-road emissions standards. Tier 4 equipment shall be considered based on availability at the time the construction bid is issued. LAWA will encourage construction contractors to apply for SCAQMD "SOON" funds to accelerate clean up of off-road diesel engine emissions.</li> </ul>	<p>Construction-related air quality impacts</p>	<p>Prior to issuance of grading or demolition permit for first SPAS project</p>	<p>Once upon integration of the three subject measures [i.e., MM-AQ (SPAS)-1, MM-AQ (SPAS)-2, MM-AQ (SPAS)-3] into the LAX Master Plan Mitigation Plan for Air Quality Construction-Related Mitigation Measures</p>	<p>Confirmation that LAX Master Plan Mitigation Plan for Air Quality includes the new measures</p>

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SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<b>MM-AQ (SPAS)-2</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<p><b>Additional Measures to Supplement the LAX Master Plan Mitigation Plan for Air Quality - Transportation-Related Mitigation Measures.</b> For purposes of SPAS, LAWA will expand the existing LAX Master Plan Mitigation Plan for Air Quality Transportation-Related Mitigation Measures to include the following specific actions:</p> <ul style="list-style-type: none"> <li>♦ LAWA will develop an information technology system that LAWA employees and the general public can utilize with consumer electronics that will provide real-time information regarding local and regional traffic conditions for travel to and from LAX.</li> <li>♦ LAWA will incorporate quick entry and exit parking systems in the project level design of future parking lots/structures associated with the SPAS project.</li> <li>♦ LAWA will include advanced signage in the design of future parking structures that could advise airport users of available parking spaces within the structure.</li> </ul>	Operational air quality impacts	Prior to issuance of grading or demolition permit for first SPAS project	Once upon integration of the three subject measures [i.e., MM-AQ (SPAS)-1, MM-AQ (SPAS)-2, MM-AQ (SPAS)-3] into the LAX Master Plan Mitigation Plan for Air Quality	Confirmation that LAX Master Plan Mitigation Plan for Air Quality includes the new measures
<b>MM-AQ (SPAS)-3</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<p><b>Additional Measures to Supplement the LAX Master Plan Mitigation Plan for Air Quality - Operations-Related Mitigation Measures.</b> For purposes of SPAS, LAWA will expand the existing LAX Master Plan Mitigation Plan for Air Quality Operations-Related Mitigation Measures to include the following specific actions:</p>	Operational air quality impacts	Prior to issuance of grading or demolition permit for first SPAS project	Once upon integration of the three subject measures [i.e., MM-AQ (SPAS)-1, MM-AQ (SPAS)-2, MM-AQ (SPAS)-3] into	Confirmation that LAX Master Plan Mitigation Plan for Air Quality includes the new measures

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SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<ul style="list-style-type: none"> <li>◆ Although the SPAS project does not alter air cargo handling at LAX, LAWA will provide the appropriate electrical infrastructure for those cargo handling tenants that have a need for such facilities and request them from LAWA. LAWA will monitor the development of electric truck engines and the design standards for these engines and associated charging infrastructure. The selection of appropriate infrastructure for installation at LAX will be made when air cargo facilities are updated.</li> <li>◆ LAWA will require the use of electric lawn mowers and leaf blowers, as these units become available for commercial use, for landscape maintenance associated with the SPAS project.</li> <li>◆ LAWA will require the conversion of sweepers to alternative fuels or electric power for ongoing airfield and roadway maintenance. In the 2006 GSE inventory, two of ten sweepers were electric powered and one was either CNG or LPG fueled. HEPA filters will be installed on airport sweepers where the use of HEPA filters is technologically and financially feasible and does not pose a safety hazard to airport operations.</li> <li>◆ LAWA will conduct a comprehensive GSE inventory update to identify and assess the</li> </ul>			the LAX Master Plan Mitigation Plan for Air Quality	

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SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
	current fuel type composition of GSE operating at LAX, to help to guide next steps in supporting and encouraging the use of alternative fueled GSE at LAX.				
<b>Biological Resources</b>					
<b>MM-BIO (SPAS)-1</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Replacement of State-Designated Sensitive Habitats.</b> <sup>10</sup> LAWA or its designee shall undertake mitigation for the loss of state-designated sensitive habitat within the Los Angeles/EI Segundo Dunes, including the Habitat Restoration Area, by restoring areas of temporary disturbance and by restoring additional areas of sensitive habitat to compensate for temporary and permanent impacts. Installation of navigational aids and associated temporary construction impacts may result in impacts to state-designated sensitive habitat within the Los Angeles/EI Segundo Dunes within habitat occupied by the EI Segundo blue butterfly. Impacts to state-designated sensitive habitat within the Los Angeles/EI Segundo Dunes shall be replaced at a ratio of 2:1 within the Los Angeles/EI Segundo Dunes as described in the "Los Angeles/EI Segundo Dunes Habitat Restoration Plan." The replacement of state-designated sensitive habitat shall be undertaken through restoration procedures as described in the "Los Angeles/EI Segundo Dunes Habitat Restoration Plan." The restoration and enhancement of sensitive habitat as related to the establishment or enhancement of wildlife habitat shall	Loss of state designated sensitive habitat	Preparation of Replacement Plan for State-Designated Sensitive Habitats prior to relocation of navigational aids; Implementation per Replacement Plan	As per Replacement Plan for State-Designated Sensitive Habitats	Preparation of Replacement Plan for Sate-Designated Sensitive Habitats; Periodic Monitoring Report.

<sup>10</sup> For purposes of SPAS, this measure satisfies the intent of LAX Master Plan Mitigation Measure MM-BC-13.

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<p>consider and comply with the provisions of FAA Advisory Circular 150/5200-33B regarding hazardous wildlife attractants on or near airports. Additionally, restoration and enhancement shall take into account, as appropriate, the Memorandum of Agreement between the FAA and other federal agencies, including USFWS, pertaining to environmental conditions that could contribute to aircraft-wildlife strikes.</p> <p>Valley Needlegrass Grassland restoration efforts consist of site preparation, propagation and planting of Valley Needlegrass Grassland species, and maintenance and monitoring of the restoration site as described in the "Los Angeles/EI Segundo Dunes Habitat Restoration Plan."</p> <p>Southern Foredune restoration efforts consist of site preparation, propagation, and planting of the species characteristic of the Southern Foredune community at the Los Angeles/EI Segundo Dunes, and maintenance and monitoring of the restoration site as described in the "Los Angeles/EI Segundo Dunes Habitat Restoration Plan."</p>					
<p><b>MM-BIO (SPAS)-2</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Conservation of Floral Resources: South Coast Branching Phacelia.</b> Prior to any work activities (i.e., vegetation clearing, invasive species removal and/or spraying, and sediment removal) within suitable habitat on the project site, including construction staging areas, pre-construction focused surveys shall be conducted during the period of March through August by a qualified botanist to determine the presence or absence of south coast branching</p>	<p>Potential loss of South Coast Branching Phacelia individuals</p>	<p>Prior to any work activities(i.e., vegetation clearing, invasive species removal and/or spraying, and sediment removal) within suitable habitat on the</p>	<p>If required, as per monitoring plan for South Coast Branching Phacelia. Regular site visits (at least annually) for no more than 5 years or until</p>	<p>If required, preparation of a compensation and monitoring plan; periodic monitoring report, at least annually, to confirm establishment of an equal number of plants as impacted.</p>

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<b>SPAS Project-Specific Mitigation Measures</b>	<b>SPAS Impact Being Addressed</b>	<b>Timing of Implementation</b>	<b>Monitoring Frequency</b>	<b>Actions Indicating Compliance</b>
<p>phacelia. Known populations of this species shall be monitored to determine the best time to conduct pre-construction surveys. The surveys shall follow guidelines developed by the CNPS and the CDFG. If this species is not observed, no further mitigation shall be required; however, if it is identified within work areas, then further mitigation as described below is required.</p> <p>If this species is observed, LAWA or its designee shall prepare and implement a plan to compensate for the loss of individuals of the sensitive south coast branching phacelia. LAWA or its designee shall collect seed from those plants to be removed, and properly clean and store the collected seed until used. A mitigation site of suitable habitat equal to the area of impact shall be delineated within the boundaries of LAX or at a suitable off-site location. If a site at LAX is selected, site selection will occur in consultation with a qualified restoration biologist, as well as LAWA's USDA Wildlife Hazard Biologist and will be consistent with FAA Advisory Circular No. 150/5200-33B "Hazardous Wildlife Attractants on or Near Airports" and LAWA's "LAX Wildlife Hazard Management Plan" to avoid increasing wildlife hazards to aircraft. Ninety-percent of the collected seed shall be broadcast (distributed) after the first wetting rain with 10 percent maintained as a contingency and used as needed to meet performance criteria. LAWA or its designee shall implement a monitoring plan to monitor the establishment of individuals of south coast branching phacelia for a period of not more than five years. Performance criteria shall include the establishment of</p>		<p>project site, including construction staging areas, pre-construction focused surveys during the period of March through August to determine the presence or absence of South Coast Branching Phacelia. If the species is observed, identification of a mitigation site (on or off-site), preparation of a plan, and collection of seed from plants to be removed, prior to their removal.</p>	<p>performance criteria have been met, whichever is later. Site visits to confirm performance criteria have been met will include visits in the first year following the distribution of seed to confirm the establishment of an equal number of plants as that impacted, for two years following the first year flowering is observed to confirm recruitment, and for three years following the first year flowering is observed to confirm establishment of individuals throughout the mitigation area.</p>	

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<p>an equal number of plants as that impacted in the first year following the distribution of seed within the mitigation site. Performance criteria shall also include confirmation of recruitment for two years following the first year flowering is observed and establishment of individuals throughout the mitigation area within three years following the first year flowering is observed.</p>				
<p><b>MM-BIO (SPAS)-3</b> <b>Monitoring Agency:</b> <b>LAWA</b></p> <p><b>Conservation of Floral Resources: Lewis' Evening Primrose.</b><sup>11</sup> Prior to any work activities (i.e., vegetation clearing, invasive species removal and/or spraying, and sediment removal) within suitable habitat on the project site, including construction staging areas, pre-construction focused surveys shall be conducted during the period of March through June by a qualified botanist to determine the presence or absence of Lewis' evening primrose. Known populations of this species shall be monitored to determine the best time to conduct pre-construction surveys. The surveys shall follow guidelines developed by the CNPS and the CDFG. If this species is not observed, no further mitigation shall be required; however, if it is identified within work areas, then further mitigation as described below is required.</p> <p>If this species is observed, LAWA or its designee shall prepare and implement a plan to compensate for the loss of individuals of the sensitive Lewis' evening primrose. LAWA or its designee shall collect seed from those plants to be removed, and properly clean</p>	<p>Potential loss of Lewis' evening primrose individuals</p>	<p>Prior to any work activities(i.e., vegetation clearing, invasive species removal and/or spraying, and sediment removal) within suitable habitat on the project site, including construction staging areas, pre-construction focused surveys during the period of March through June to determine the presence or absence of Lewis' evening primrose. If the species is</p>	<p>If required, as per monitoring plan for Lewis' evening primrose. Regular site visits (at least annually) for no more than 5 years or until performance criteria have been met, whichever is later. Site visits to confirm performance criteria have been met will include visits in the first year following the distribution of seed to confirm the establishment of an equal</p>	<p>If required, preparation of a compensation and monitoring plan; periodic monitoring report, at least annually, to confirm establishment of an equal number of plants as impacted.</p>

<sup>11</sup> For purposes of SPAS, this measure satisfies the intent of LAX Master Plan Mitigation Measure MM-BC-2.

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SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance	
<p>and store the collected seed until used. A mitigation site of suitable habitat equal to the area of impact shall be delineated within the boundaries of LAX or at a suitable off-site location. If a site at LAX is selected, site selection will occur in consultation with a qualified restoration biologist, as well as LAWA's USDA Wildlife Hazard Biologist and will be consistent with FAA Advisory Circular No. 150/5200-33B "Hazardous Wildlife Attractants on or Near Airports" and LAWA's "LAX Wildlife Hazard Management Plan" to avoid increasing wildlife hazards to aircraft. Ninety-percent of the collected seed shall be broadcast (distributed) after the first wetting rain with 10 percent maintained as a contingency and used as needed to meet performance criteria. LAWA or its designee shall implement a monitoring plan to monitor the establishment of individuals of Lewis' evening primrose for a period of not more than five years. Performance criteria shall include the establishment of an equal number of plants as that impacted in the first year following the distribution of seed within the mitigation site. Performance criteria shall also include confirmation of recruitment for two years following the first year flowering is observed and establishment of individuals throughout the mitigation area within three years following the first year flowering is observed.</p>		<p>observed, identification of a mitigation site (on or off-site), preparation of a plan, and collection of seed from plants to be removed, prior to their removal.</p>	<p>number of plants as that impacted, for two years following the first year flowering is observed to confirm recruitment, and for three years following the first year flowering is observed to confirm establishment of individuals throughout the mitigation area.</p>		
<p><b>MM-BIO (SPAS)-4</b> <b>Monitoring Agency:</b> <b>LAWA</b></p>	<p><b>Conservation of Floral Resources: California Spineflower.</b> Prior to any work activities (i.e., vegetation clearing, invasive species removal and/or spraying, and sediment removal) within suitable habitat on the project site, including construction staging areas, pre-construction focused surveys shall</p>	<p>Potential loss of California spineflower individuals</p>	<p>Prior to any work activities(i.e., vegetation clearing, invasive species removal and/or spraying,</p>	<p>If required, as per monitoring plan for California Spineflower regular site visits (at least annually)</p>	<p>If required, preparation of a compensation and monitoring plan; periodic monitoring report, at least annually, to confirm</p>

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<p>be conducted during the period of March through August by a qualified botanist to determine the presence or absence of California spineflower. Known populations of this species shall be monitored to determine the best time to conduct pre-construction surveys. The surveys shall follow guidelines developed by the CNPS and the CDFG. If this species is not observed, no further mitigation shall be required; however, if it is identified within work areas, then further mitigation as described below is required.</p> <p>If this species is observed, LAWA or its designee shall prepare and implement a plan to compensate for the loss of individuals of the sensitive California spineflower. LAWA or its designee shall collect seed from those plants to be removed, and properly clean and store the collected seed until used. A mitigation site of suitable habitat equal to the area of impact shall be delineated within the boundaries of LAX or at a suitable off-site location. If a site at LAX is selected, site selection will occur in consultation with a qualified restoration biologist, as well as LAWA's USDA Wildlife Hazard Biologist and will be consistent with FAA Advisory Circular No. 150/5200-33B "Hazardous Wildlife Attractants on or Near Airports" and LAWA's "LAX Wildlife Hazard Management Plan" to avoid increasing wildlife hazards to aircraft. Ninety-percent of the collected seed shall be broadcast (distributed) after the first wetting rain with 10 percent maintained as a contingency and used as needed to meet performance criteria. LAWA or its designee shall implement a monitoring plan to monitor the establishment of individuals of California spineflower</p>		<p>and sediment removal) within suitable habitat on the project site, including construction staging areas, pre-construction focused surveys during the period of March through August to determine the presence or absence of California spineflower. If the species is observed, identification of a mitigation site (on or off-site), preparation of a plan, and collection of seed from plants to be removed, prior to their removal.</p>	<p>for no more than 5 years or until performance criteria have been met, whichever is later. Site visits to confirm performance criteria have been met will include visits in the first year following the distribution of seed to confirm the establishment of an equal number of plants as that impacted, for two years following the first year flowering is observed to confirm recruitment, and for three years following the first year flowering is observed to confirm establishment of individuals throughout the mitigation area.</p>	<p>establishment of an equal number of plants as impacted.</p>

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	for a period of not more than five years. Performance criteria shall include the establishment of an equal number of plants as that impacted in the first year following the distribution of seed within the mitigation site. Performance criteria shall also include confirmation of recruitment for two years following the first year flowering is observed and establishment of individuals throughout the mitigation area within three years following the first year flowering is observed.				
<b>MM-BIO (SPAS)-5</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<p><b>Conservation of Floral Resources: Mesa Horkelia.</b> Prior to any work activities(i.e., vegetation clearing, invasive species removal and/or spraying, and sediment removal) within suitable habitat on the project site, pre-construction focused surveys shall be conducted during the period of February through September by a qualified botanist to determine the presence or absence of mesa horkelia subspecies <i>puberula</i>. Known populations of this taxon shall be monitored to determine the best time to conduct pre-construction surveys. The surveys shall follow guidelines developed by the CNPS and the CDFG. If the common <i>Horkelia cuneata</i> is identified by a qualified botanist, then no further mitigation is required. If the sensitive <i>Horkelia cuneata</i> ssp. <i>pupurbula</i> is identified within work areas, then further mitigation as described below is required.</p> <p>If this species is observed, LAWA or its designee shall prepare and implement a plan to compensate for the loss of individuals of the sensitive mesa horkelia subspecies <i>puberula</i>. LAWA or its designee shall collect seed from those plants to be removed, and</p>	Potential loss of Mesa Horkelia individuals	Prior to any work activities(i.e., vegetation clearing, invasive species removal and/or spraying, and sediment removal) within suitable habitat on the project site, including construction staging areas, pre-construction focused surveys during the period of February through September to determine the presence or absence of Mesa Horkelia. If the	If required, as per monitoring plan for Mesa Horkelia Regular site visits (at least annually) for no more than 5 years or until performance criteria have been met, whichever is later. Site visits to confirm performance criteria have been met will include visits in the first year following the distribution of seed to confirm the establishment of an equal number of plants as that impacted,	If required, preparation of a compensation and monitoring plan; periodic monitoring report, at least annually, to confirm establishment of an equal number of plants as impacted.

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<p>properly clean and store the collected seed until used. A mitigation site of suitable habitat equal to the area of impact shall be delineated within the boundaries of LAX or at a suitable off-site location. If a site at LAX is selected, site selection will occur in consultation with a qualified restoration biologist, as well as LAWA's USDA Wildlife Hazard Biologist and will be consistent with FAA Advisory Circular No. 150/5200-33B "Hazardous Wildlife Attractants on or Near Airports" and LAWA's "LAX Wildlife Hazard Management Plan" to avoid increasing wildlife hazards to aircraft. Ninety-percent of the collected seed shall be broadcast (distributed) after the first wetting rain with 10 percent maintained as a contingency and used as needed to meet performance criteria. LAWA or its designee shall implement a monitoring plan to monitor the establishment of individuals of mesa horkelia for a period of not more than five years. Performance criteria shall include the establishment of an equal number of plants as that impacted in the first year following the distribution of seed within the mitigation site. Performance criteria shall also include confirmation of recruitment for two years following the first year flowering is observed and establishment of individuals throughout the mitigation area within three years following the first year flowering is observed.</p>		<p>species is observed, identification of a mitigation site (on or off-site), preparation of a plan, and collection of seed from plants to be removed, prior to their removal.</p>	<p>for two years following the first year flowering is observed to confirm recruitment, and for three years following the first year flowering is observed to confirm establishment of individuals throughout the mitigation area.</p>		
<p><b>MM-BIO (SPAS)-6</b> <b>Monitoring Agency:</b> <b>LAWA</b></p>	<p><b>Conservation of Floral Resources: Orcutt's Pincushion.</b> Prior to any work activities (i.e., vegetation clearing, invasive species removal and/or spraying, and sediment removal) within suitable habitat on the project site, pre-construction focused surveys shall be conducted during the period of</p>	<p>Potential loss of Orcutt's pincushion individuals</p>	<p>Prior to any work activities(i.e., vegetation clearing, invasive species removal and/or spraying,</p>	<p>If required, as per monitoring plan for Orcutt's pincushion Regular site visits (at least annually)</p>	<p>If required, preparation of a compensation and monitoring plan; periodic monitoring report, at least annually, to confirm</p>

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<p>January through August by a qualified botanist to determine the presence or absence of Orcutt's pincushion (<i>Chaenactis glabriuscula</i> var. <i>orcuttiana</i>). Known populations of this taxon shall be monitored to determine the best time to conduct pre-construction surveys. The surveys shall follow guidelines developed by the CNPS and the CDFG. If the common <i>Chaenactis glabriuscula</i> is identified by a qualified botanist, then no further mitigation is required. If the sensitive <i>Chaenactis glabriuscula</i> var. <i>orcuttiana</i> is identified within work areas, then further mitigation as described below is required.</p> <p>If this species is observed, LAWA or its designee shall prepare and implement a plan to compensate for the loss of individuals of the sensitive Orcutt's pincushion. LAWA or its designee shall collect seed from those plants to be removed, and properly clean and store the collected seed until used. A mitigation site of suitable habitat equal to the area of impact shall be delineated within the boundaries of LAX or at a suitable off-site location. If a site at LAX is selected, site selection will occur in consultation with a qualified restoration biologist, as well as LAWA's USDA Wildlife Hazard Biologist and will be consistent with FAA Advisory Circular No. 150/5200-33B "Hazardous Wildlife Attractants on or Near Airports" and LAWA's "LAX Wildlife Hazard Management Plan" to avoid increasing wildlife hazards to aircraft. Ninety-percent of the collected seed shall be broadcast (distributed) after the first wetting rain with 10 percent maintained as a contingency and used as needed to meet performance criteria. LAWA or its designee shall</p>		<p>and sediment removal) within suitable habitat on the project site, including construction staging areas, pre-construction focused surveys during the period of January through August to determine the presence or absence of Mesa Horkelia. If the species is observed, identification of a mitigation site (on or off-site), preparation of a plan, and collection of seed from plants to be removed, prior to their removal.</p>	<p>for no more than 5 years or until performance criteria have been met, whichever is later. Site visits to confirm performance criteria have been met will include visits in the first year following the distribution of seed to confirm the establishment of an equal number of plants as that impacted, for two years following the first year flowering is observed to confirm recruitment, and for three years following the first year flowering is observed to confirm establishment of individuals throughout the mitigation area.</p>	<p>establishment of an equal number of plants as impacted.</p>

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<p>implement a monitoring plan to monitor the establishment of individuals of Orcutt's pincushion for a period of not more than five years. Performance criteria shall include the establishment of an equal number of plants as that impacted in the first year following the distribution of seed within the mitigation site. Performance criteria shall also include confirmation of recruitment for two years following the first year flowering is observed and establishment of individuals throughout the mitigation area within three years following the first year flowering is observed.</p>					
<p><b>MM-BIO (SPAS)-7</b> <b>Monitoring Agency:</b> <b>LAWA</b></p>	<p><b>Conservation of Floral Resources: Southern Tarplant.</b> Prior to any work activities (i.e., vegetation clearing, invasive species removal and/or spraying, and sediment removal) within suitable habitat on the project site, including construction staging areas, pre-construction focused surveys shall be conducted during the period of May through November by a qualified botanist to determine the presence or absence of southern tarplant. Known populations of this species shall be monitored to determine the best time to conduct pre-construction surveys. The surveys shall follow guidelines developed by the CNPS and the CDFG. If this species is not observed, no further mitigation shall be required; however, if it is identified within work areas, then further mitigation as described below is required.</p> <p>If this species is observed, LAWA or its designee shall prepare and implement a plan to compensate for the loss of individuals of the sensitive southern tarplant. LAWA or its designee shall collect seed from those</p>	<p>Potential loss of Southern Tarplant individuals</p>	<p>Prior to any work activities(i.e., vegetation clearing, invasive species removal and/or spraying, and sediment removal) within suitable habitat on the project site, including construction staging areas, pre-construction focused surveys during the period of May through November to determine the presence or absence of</p>	<p>If required, as per monitoring plan for Southern Tarplant Regular site visits (at least annually) for no more than 5 years or until performance criteria have been met, whichever is later. Site visits to confirm performance criteria have been met will include visits in the first year following the distribution of seed to confirm the establishment</p>	<p>If required, preparation of a compensation and monitoring plan; periodic monitoring report, at least annually, to confirm establishment of an</p> <p>□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □</p> <p>復 漣 令 寧 伶</p>

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<b>SPAS Project-Specific Mitigation Measures</b>	<b>SPAS Impact Being Addressed</b>	<b>Timing of Implementation</b>	<b>Monitoring Frequency</b>	<b>Actions Indicating Compliance</b>
<p>plants to be removed, and properly clean and store the collected seed until used. A mitigation site of suitable habitat equal to the area of impact shall be delineated within the boundaries of LAX or at a suitable off-site location. If a site at LAX is selected, site selection will occur in consultation with a qualified restoration biologist, as well as LAWA's USDA Wildlife Hazard Biologist and will be consistent with FAA Advisory Circular No. 150/5200-33B "Hazardous Wildlife Attractants on or Near Airports" and LAWA's "LAX Wildlife Hazard Management Plan" to avoid increasing wildlife hazards to aircraft. Ninety-percent of the collected seed shall be broadcast (distributed) after the first wetting rain with 10 percent maintained as a contingency and used as needed to meet performance criteria. LAWA or its designee shall implement a monitoring plan to monitor the establishment of individuals of southern tarplant for a period of not more than five years. Performance criteria shall include the establishment of an equal number of plants as that impacted in the first year following the distribution of seed within the mitigation site. Performance criteria shall also include confirmation of recruitment for two years following the first year flowering is observed and establishment of individuals throughout the mitigation area within three years following the first year flowering is observed.</p>		<p>Southern Tarplant. If the species is observed, identification of a mitigation site (on or off-site), preparation of a plan, and collection of seed from plants to be removed, prior to their removal.</p>	<p>of an equal number of plants as that impacted, for two years following the first year flowering is observed to confirm recruitment, and for three years following the first year flowering is observed to confirm establishment of individuals throughout the mitigation area.</p>	

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SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-BIO (SPAS)-8</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p> <p><b>Conservation of Faunal Resources: Sensitive Reptiles, Arthropods, and Gastropods.</b><sup>12</sup> LAWA or its designee shall have a qualified restoration biologist conduct pre-construction surveys to determine the presence of individuals of sensitive arthropod and gastropod species, the silvery legless lizard, and the San Diego horned lizard within the proposed area of impact within the Los Angeles/EI Segundo Dunes. Surveys will be conducted at the optimum time to observe these species using the methodology as described in Section 6.1 of the "Los Angeles/EI Segundo Dunes Habitat Restoration Plan," including pitfall traps and active opportunistic searching, as well as any additional appropriate methodology as determined by the qualified wildlife biologist. Immediately prior to grubbing or clearing of vegetation, all herbaceous and non-herbaceous plants will be individually shaken to flush out insects. Should an individual be observed, they will be relocated by a qualified wildlife biologist to suitable habitat for that species within the Habitat Restoration Area. Prior to construction, LAWA or its designee shall have a qualified wildlife biologist develop and implement a relocation plan to avoid the potential loss of individuals from the installation of navigational aids and associated temporary impact areas. Relocation efforts shall be undertaken by a qualified biologist.</p>	<p>Loss of state designated sensitive Reptiles, Arthropods, and Gastropods</p>	<p>Prior to construction within the Los Angeles/EI Segundo Dunes to determine the presence or absence of sensitive reptile, arthropod, and gastropod species. If determined present, development and implementation of a relocation plan prior to construction of navigational aids within the Los Angeles/EI Segundo Dunes.</p>	<p>Once after relocation.</p>	<p>Prior to construction, development and implementation of a relocation plan to avoid the potential loss of individuals from the installation of navigational aids and associated temporary impact areas; confirmation of relocation in post-relocation report.</p>

<sup>12</sup> For purposes of SPAS, this measure satisfies the intent of relevant portions of LAX Master Plan Mitigation Measure MM-BC-9.

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SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-BIO (SPAS)-9</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Conservation of Faunal Resources: Loggerhead Shrike.</b><sup>13</sup> Vegetation removal for the proposed project shall be conducted outside the nesting season for the loggerhead shrike (March 15 to August 15), if feasible. If this is not feasible, a qualified wildlife biologist shall inspect the shrubs/trees at least 14 days prior to construction activities to ensure that no nesting shrikes are present. If a nest is present, construction avoidance measures implemented by the qualified wildlife biologist shall include flagging of all active nests and a 300-foot wide buffer area around the active nests. These construction avoidance measures will be coordinated with LAWA's USDA Wildlife Hazard Biologist and will be consistent with FAA Advisory Circular No. 150/5200-33B "Hazardous Wildlife Attractants on or Near Airports" and LAWA's "LAX Wildlife Hazard Management Plan" to avoid increasing wildlife hazards to aircraft. In addition, a Biological Monitor shall be present to ensure the buffer area is not infringed upon and vegetation clearing within the designated 300-foot buffer only takes place from August 16 to March 14.</p>	<p>Potential loss of nesting loggerhead shrike individuals</p>	<p>If vegetation removal is scheduled to occur between March 15 and August 15, reschedule removal of vegetation to outside the nesting season, if feasible. If not feasible, pre-construction surveys 14 days prior to construction activities</p>	<p>Prior to any project-related vegetation removal. If vegetation removal occurs during the nesting season, and construction avoidance measures are required, a Biological Monitor shall be present periodically between March 15 and August 15 to ensure the buffer area is not infringed upon.</p>	<p>Removal of vegetation between August 16 and March 14 prior to initiation of construction activities, followed by a report of activities. Alternatively, if required, pre-construction surveys 14 days prior to construction occurring from March 15 to August 15. If required, establishment of construction avoidance measures and onsite monitoring from March 15 to August 15 and written report documenting construction avoidance measures undertaken; reports submitted periodically, at least annually, during construction or until vegetation has been removed.</p>

<sup>13</sup> For purposes of SPAS, this measure satisfies the intent of relevant portions of LAX Master Plan Mitigation Measure MM-BC-9.

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SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-BIO (SPAS)-10</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p> <p><b>Conservation of Faunal Resources: Burrowing Owl.</b><sup>14</sup> Prior to any work activities (i.e., vegetation clearing, invasive species removal and/or spraying, and sediment removal), a survey for burrows by a qualified wildlife biologist will be conducted by walking through the suitable habitat within the site (generally the Argo Drainage Channel and Los Angeles/EI Segundo Dunes, as well as any other area deemed suitable by the qualified biologist) in accordance with CDFG-accepted protocols. If a work site contains burrows that could be used by burrowing owls, four additional surveys will be conducted during the burrowing owl breeding season (April 15 through July 15). If an active burrow is observed during the nesting season, the burrow will be protected until nesting activity has ended. Nesting activity for burrowing owl normally occurs from February 1 through August 31. To protect any active burrow, the following restrictions are required between February 1 and August 31 (or until burrows are no longer active as determined by a qualified wildlife biologist): (1) clearing limits will be established a minimum of 300 feet in any direction from any occupied nest and (2) access and surveying will be restricted within 200 feet of any occupied nest. Any encroachment into the 300/200 foot buffer area around the known nest will only be allowed if it is determined by a qualified wildlife biologist that the proposed activity will not disturb the nest occupants. These avoidance measures will be coordinated with LAWA's USDA Wildlife Hazard Biologist and will be</p>	<p>Potential loss of burrowing owls</p>	<p>Prior to any work activities (i.e., vegetation clearing, invasive species removal and/or spraying, and sediment removal), a survey for burrows that could be used by burrowing owls and, if burrows are present, four additional surveys during burrowing owl breeding season (April 15 and July 15) followed by monthly removal of any burrows onsite between September and January until such time as the entire construction area is in active use</p>	<p>If active burrows are present and may be impacted, a Biological Monitor shall be present during those periods when construction activities will occur near active burrow areas</p>	<p>Pre-construction surveys. If required, establishment of buffer zones and construction avoidance measures from April 15 to July 15 and written report documenting construction avoidance measures undertaken; reports submitted periodically, at least annually, during construction or until vegetation is removed.</p>

<sup>14</sup> For purposes of SPAS, this measure satisfies the intent of relevant portions of LAX Master Plan Mitigation Measure MM-BC-9.

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<p>consistent with FAA Advisory Circular No. 150/5200-33B "Hazardous Wildlife Attractants on or Near Airports" and LAWA's "LAX Wildlife Hazard Management Plan."</p> <p>If nesting individuals are observed, LAWA or its designee shall have a qualified wildlife biologist develop and implement a habitat replacement plan to compensate for the loss of habitat associated with the project. The habitat replacement plan shall replace lost habitat value with equal or greater habitat value, and shall follow the methodology outlined in the CDFG <i>Staff Report on Burrowing Owl Mitigation</i>.<sup>15</sup> The habitat replacement will occur in the Los Angeles/EI Segundo Dunes in a location approved by LAWA's USDA Wildlife Hazard Biologist that will be consistent with FAA Advisory Circular No. 150/5200-33B "Hazardous Wildlife Attractants on or Near Airports" and LAWA's "LAX Wildlife Hazard Management Plan", or at an off-site location to avoid potential conflicts with aircraft activities at LAX.</p> <p>Whether or not any nesting burrowing owls are identified on-site, after the end of the nesting period (August 31), LAWA or its designee will remove all burrows from the immediate area in and around the construction and construction staging areas on a monthly basis between September and January. Removal may include physically collapsing the burrows or installing one-way exit doors in burrow entrances. Such maintenance will continue annually</p>				

<sup>15</sup> State of California, Natural Resources Agency, Department of Fish and Game, [Staff Report on Burrowing Owl Mitigation](#), March 7, 2012.

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<p>until such time as construction areas are fully in use and/or developed and no longer contain suitable habitat for burrowing owls.</p>				
<p><b>MM-BIO (SPAS)-11</b></p> <p><b>Monitoring Agency:</b> <b>LAWA</b></p> <p><b>Conservation of Floral Resources: Mature Tree Replacement - Nesting Raptors.</b> For those areas of the project site that have a potential for nesting raptors, prior to the initiation of construction activities during the nesting season (February 1 to June 30), all mature trees will be inspected for current or past raptor nesting activity. Inspections shall be conducted by a qualified biologist, and may be conducted outside of nesting season. The wildlife biologist shall identify active nests and/or evidence of past raptor nesting in mature trees to be removed from the construction area.</p> <p>LAWA or its designee shall compensate at a ratio of 2:1 for the loss of mature trees with either active nests or evidence of past raptor nesting, which would occur as a result of implementation of any of the project components. The species of newly planted replacement trees shall be local native tree species to the extent feasible. Each mitigation tree shall be at least a 15-gallon or larger specimen. The replacement will be implemented within the boundaries of LAX or at a suitable off-site location. If mitigation occurs within LAX boundaries, the replacement site and tree species will be determined in consultation with LAWA's USDA Wildlife Hazard Biologist and will be consistent with FAA Advisory Circular No. 150/5200-33B "Hazardous Wildlife Attractants on or Near Airports" and LAWA's "LAX</p>	<p>Potential loss of mature trees that have a potential for nesting raptors</p>	<p>For those areas of the project site that have a potential for nesting raptors, prior to initiation of construction activities during the nesting season (February 1 to June 30)</p>	<p>If mitigation occurs within LAX boundaries, periodic site visits to ensure trees are established, at least annually. If mitigation occurs off-site, annual reports to document activities</p>	<p>Inspection of mature trees for current or past raptor nesting activity, if required. Replacement of trees, if required, and monitoring report following completion of planting.</p>

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SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
	Wildlife Hazard Management Plan" to avoid increasing wildlife hazards to aircraft.				
<b>MM-BIO (SPAS)-12</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Conservation of Faunal Resources: Nesting Birds/Raptors.</b> For those areas of the project site that have a potential for nesting birds/raptors, if construction is scheduled to occur during the nesting season for birds/raptors (generally February 1 to June 30 for raptors and March 15 to August 15 for nesting birds), vegetation clearing for the proposed project shall be conducted outside the nesting season if feasible. If this is not feasible, then a qualified wildlife biologist shall inspect the shrubs/trees prior to project activities to ensure that no nesting birds/raptors are present. If the biologist finds an active nest within the construction area and determines that the nest may be impacted, the wildlife biologist will delineate an appropriate buffer zone; the size of the buffer zone will depend on the species and the type of construction activity. Only construction activities (if any) that have been approved by a Biological Monitor will take place within the buffer zone until the nest is vacated. The wildlife biologist shall serve as a construction monitor during those periods when construction activities shall occur near active nest areas to ensure that no inadvertent impacts on these nests shall occur. Netting or other bird exclusion methods shall be used to discourage birds from nesting in construction equipment and facilities, if determined by the wildlife biologist to be necessary. These construction avoidance measures will be coordinated with LAWA's USDA Wildlife Hazard Biologist and will be consistent with FAA Advisory Circular No. 150/5200-33B	Potential loss of nesting birds/raptors, including birds subject to the Migratory Bird Treaty Act	If construction occurs between February 1 and August 15, removal of vegetation outside the nesting season, if feasible. If not feasible, pre-construction surveys	If active nests are present and may be impacted, a Biological Monitor shall be present during those periods when construction activities will occur near active nest areas	If required, pre-construction inspections and establishment of buffer zones and construction avoidance measures between February 1 and August 15. Written report documenting construction avoidance measures undertaken; reports submitted periodically, at least annually, during construction or until vegetation is removed.

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	"Hazardous Wildlife Attractants on or Near Airports" and LAWA's "LAX Wildlife Hazard Management Plan" to avoid increasing wildlife hazards to aircraft.				
<b>MM-BIO (SPAS)-13</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<p><b>Replacement of Jurisdictional Aquatic Features.</b> LAWA will consult with USACOE to obtain a determination of the jurisdictional area associated with the Argo Drainage Channel, if any, within its jurisdiction pursuant to Section 404 of the Clean Water Act. Mitigation for impacts to the Argo Drainage Channel shall be determined in consultation with USACOE, and at a minimum will ensure that no net loss of wetlands occurs. For previous maintenance impacts to the Argo Drainage Channel, LAWA has restored/enhanced 2.44 acres of wetlands at Ken Malloy Regional Park, which may be counted towards future impacts to the Argo Drainage Channel.</p> <p>LAWA will consult with CDFG to obtain a determination of the jurisdictional area associated with the Argo Drainage Channel, if any, within its jurisdiction pursuant to Section 1600 of the Fish and Game Code. Mitigation for impacts to the Argo Drainage Channel shall be determined in consultation with CDFG, and at a minimum will ensure that no net loss of wetlands occurs. For previous maintenance impacts to the Argo Drainage Channel, LAWA has restored/enhanced 2.44 acres of wetlands at Ken</p>	Potential impacts to USACOE and CDFG jurisdictional areas associated with Argo Drainage Channel	Prior to issuance of grading permits related to modifications to Argo Drainage Channel	Once prior to issuance of grading permits	Issuance of necessary and appropriate permits/approvals from USACOE and CDFG; or submission of report documenting that no permits/approvals are required; or, if only some permits are required, submission of a report identifying which permits/approvals are required

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<p>Malloy Regional Park, which may be counted towards future impacts to the Argo Drainage Channel.<sup>16</sup></p> <p>If the Argo Drainage Channel is not found to be jurisdictional by USACOE, LAWA will consult with the Los Angeles Regional Water Quality Control Board (LARWQCB) to obtain a determination of the area associated with the Argo Drainage Channel that would be subject to Waste Discharge Requirements pursuant to the Porter Cologne Act, if any. If applicable, mitigation for impacts to the Argo Drainage Channel shall be determined in consultation with LARWQCB, with the 2.44 acres of wetlands noted above applied to final mitigation totals.</p> <p>If a mitigation site at LAX is selected, site selection will occur in consultation with LAWA's USDA Wildlife Hazard Biologist and will be consistent with FAA Advisory Circular No. 150/5200-33B "Hazardous Wildlife Attractants on or Near Airports" and LAWA's "LAX Wildlife Hazard Management Plan" to avoid increasing wildlife hazards to aircraft.</p>				

<sup>16</sup> The 2.44 acres of mitigation was required by USACOE and CDFG to compensate for the loss of wetland/riparian habitat from maintenance of the channel, including removal of all vegetation and remedial grading to allow unimpeded flows within the channel. Although the vegetation has been allowed to regrow, the loss of the resource has already been mitigated elsewhere, and the 2.44 acres should be counted towards the mitigation obligations that would be incurred with structural covering of the Argo Drainage Channel. Any additional mitigation requirements established by USACOE or LARWQCB and CDFG beyond the 2.44 acres would require establishment of additional off-site mitigation.

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<p><b>MM-BIO (SPAS)-14</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p> <p><b>Replacement of Habitat Units.</b><sup>17</sup> LAWA or its designee shall undertake mitigation for the loss of habitat units resulting from implementation of the selected SPAS alternative. The habitat units shall be replaced at a 1:1 ratio within the Los Angeles/El Segundo Dunes, or at a suitable off-site location. Opportunities for compensation for the loss of habitat units include, but are not limited to, restoration of ruderal habitat to Valley Needlegrass Grassland, and/or Southern Fore dune, removal and restoration of existing roadways to Southern Fore dune; and restoration of Disturbed Dune Scrub/Disturbed Southern Fore dune to Southern Fore dune. A habitat value of 0.8 is considered to the maximum feasible target value for restoration and enhancement. The restoration and enhancement of habitat as related to the establishment or enhancement of wildlife habitat shall consider and comply with the provisions of FAA Advisory Circular 150/5200-33 regarding hazardous wildlife attractants on or near airports. Additionally, restoration and enhancement shall take into account, as appropriate, the Memorandum of Agreement between the FAA and other federal agencies, including USFWS, pertaining to environmental conditions that could contribute to aircraft-wildlife strikes.</p> <p>Valley Needlegrass Grassland restoration efforts consist of site preparation, propagation and planting of species characteristic of the Valley Needlegrass</p>	<p>Loss of habitat/open space</p>	<p>Preparation of Replacement Plan for Habitat Units prior to initiation of individual SPAS projects that would affect mapped habitat, or earlier; Implementation per Replacement Plan</p>	<p>As per Replacement Plan for Habitat Units. For Valley Needlegrass Grassland Habitat and/or Southern Fore dune restoration, monitoring shall occur on a quarterly basis for the first three years following planting, and twice a year thereafter for a five-year period or until percent cover of native species performance requirements are met, whichever is later</p>	<p>Preparation of Replacement Plan for Habitat Units for each SPAS project that affects mapped habitat; Quarterly monitoring reports following implementation of replacement habitat for each individual SPAS project for the first three years following planting, semi-annual reports thereafter for a five-year period or until percent cover of native species performance requirements are met, whichever is later</p>

<sup>17</sup> For purposes of SPAS, this measure satisfies the intent of LAX Master Plan Mitigation Measure MM-BC-8.

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<p>Grassland community at the Los Angeles/El Segundo Dunes, and maintenance and monitoring of the restoration site. The species to be planted include native perennials as described in the Long-Term Habitat Management Plan for Los Angeles Airport/El Segundo Dunes. The characteristic species include nodding needlegrass (<i>Stipa cernua</i>): 1,500 plants/habitat unit; white everlasting (<i>Pseudognaphalium microcephalum</i>): 40 plants/habitat unit; doveweed (<i>Croton setigerus</i>): 40 plants/habitat unit; California croton (<i>Croton californicus</i>): 45 plants/habitat unit; and dune primrose (<i>Camissonia chieranthifolia</i>): 70 plants/habitat unit. Site preparation includes physical demarcation of the site, mapping of the restoration site onto a high resolution aerial photograph, and removal of all non-native species (weed abatement). Removal of non-native herbaceous species shall take place by mowing prior to seed set, raking to remove cut material, and hand-pulling the remainder. Removal of non-native shrubs shall be undertaken by cutting and daubing with herbicide. Propagation and planting of nodding needlegrass shall be accomplished by propagation from seed collected on-site during late spring/early summer. Seed shall be properly cleaned, dried, and stored until used. In late summer, nodding needlegrass seed shall be propagated at an on-site nursery in two-inch thimble pots and properly maintained. Nodding needlegrass shall be planted at a rate of 1,500 plants per habitat unit within areas of ruderal vegetation, within the Los Angeles/El Segundo Dunes, which has undergone site preparation as described above. Planting shall take place in the fall</p>				

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<p>or after the first wetting rain. Maintenance of restoration plantings shall consist of adequate irrigation and weed abatement. Given the irregularity of rainfall in Southern California, supplemental irrigation shall be provided for two years to ensure the successful establishment of mitigation plantings. Irrigation of the site shall be adjusted to adequately provide for the establishment of the out-plantings. Weed abatement shall take place on a quarterly basis for a period of five years. Monitoring shall be undertaken on a quarterly basis for the first three years following planting, and twice a year thereafter. Monitoring shall consist of qualitative and quantitative monitoring; quantitative monitoring shall take place once a year. Performance criteria to be met include the attainment of at least a 10 percent cover of native cover in the first year and 20, 30, 40 and 45 percent cover of native species over a five-year period as determined by the point-intercept transect method (the CDFG has adopted a 10 percent threshold of native cover as its criteria for significance of native grasslands). This plan assumes the performance criteria outlined herein shall be met. If monitoring discerns any failure in performance goals, remedial plantings shall be undertaken. Habitat restoration shall be conducted by a qualified habitat restoration specialist.</p> <p>Southern Foredune restoration efforts consist of site preparation, propagation, and planting of the species characteristic of the Southern Foredune community at the Los Angeles/El Segundo Dunes, and maintenance and monitoring of the restoration site. The species to</p>				

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<b>SPAS Project-Specific Mitigation Measures</b>		<b>SPAS Impact Being Addressed</b>	<b>Timing of Implementation</b>	<b>Monitoring Frequency</b>	<b>Actions Indicating Compliance</b>
	<p>be planted include primary and secondary perennial plants as described in the Long-Term Habitat Management Plan for Los Angeles Airport/EI Segundo Dunes. Site preparation, propagation, and planting, and maintenance and monitoring shall take place as described above. Performance criteria to be met include the attainment of 10, 20, 30, 40, and 45 percent cover of native species over a five-year period as determined by the point intercept method. The Long-Term Habitat Management Plan for Los Angeles Airport/EI Segundo Dunes assumes the performance criteria stated above shall be met. If monitoring discerns any failure in performance goals, remedial plantings shall be undertaken. Habitat restoration shall be conducted by a qualified habitat restoration specialist.</p> <p>Any combination of habitat replacement completed by LAWA or its designee drawn from the opportunities listed above that equals at least the number of habitat units that would be lost shall be considered sufficient replacement for loss of habitat units resulting from implementation of the selected SPAS alternative.</p>				
<b>Cultural Resources</b>					
<p><b>MM-HA (SPAS)-2</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Preservation of Historic Resources: Theme Building and Setting.</b> Consistent with the Secretary of the Interior's Standards for the Treatment of Historic Properties, this measure will ensure that the historic character of the Theme Building and Setting will be retained and preserved. The Theme Building's integrity will be preserved and removal of distinctive materials or alteration of features, spaces, and spatial</p>	<p>Retain and preserve Theme Building's historic character and setting</p>	<p>Prior to the final design of the APM</p>	<p>Once, at sign-off of demolition plan</p>	<p>Plans signed off by qualified architectural historian or historic architect</p>

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<p>relationships that characterize the Theme Building and contribute to its eligibility will be avoided (Standards for Preservation 1-7). The contributing Setting of the Theme Building shall be protected and maintained (Standards for Rehabilitation and Guidelines for Rehabilitation) and changes to the features and spatial relationships of the CTA shall be undertaken in a manner consistent with the Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitation, and shall be compatible with the historic materials, features, size, scale and proportion, and massing of the Theme Building to protect the integrity of the historic resource and its environment (Standards for Rehabilitation 9 and 10).</p> <p>The historic features of the Theme Building include the extant original exterior and interior features of the structure such as the base, elevator core, original features of the restaurant space, public viewing platform, structural arches and footings and associated original hardscape/landscape features and circulation elements immediately surrounding the structure (concrete wall/grille around base, pedestrian entrance, patios, planters/planting beds, and pedestrian and vehicular circulation). The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize the Theme Building and contribute to its eligibility shall be avoided (Standards for Preservation 1-7). Necessary alterations to the Theme Building shall conform to the Secretary of the Interior's Standards for the Treatment of Historic Properties (Standards for Rehabilitation 9 and 10).</p>				

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<p>Changes to the features and spatial relationships of the CTA that may remove or alter features, spaces, and spatial relationships that characterize the Setting of the Theme Building and contribute to the Theme Building's eligibility shall also be avoided (Standards for Rehabilitation 1-7). Necessary alterations to the Theme Building Setting shall conform to the Secretary of the Interior's Standards for Rehabilitation 9 and 10. Contributing features and views of the Theme Building's Setting include:</p> <ul style="list-style-type: none"> <li>◆ the two Central Service Facility Buildings and a segment of original axial road alignment and associated concrete sidewalks and hardscape;</li> <li>◆ the architectural form of the 1961 Airport Traffic Control Tower and its distinctive control booth;</li> <li>◆ the general character of the airport setting, including the centrally located and visually predominant Theme Building within the U-shaped concourse area, and the horizontal forms, rectangular massing and generally consistent scale and height of the concourse buildings and their Modern architectural character and materials (Jet Age/International Style, rectangular volumes, horizontality, metal and concrete, smooth surfaces, large expanses of glass, and ribbon windows);</li> </ul>				

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SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<ul style="list-style-type: none"> <li>◆ the Primary Axial View between the Theme Building and the 1961 Airport Traffic Control Tower, including the axial road alignment and unobstructed view corridor between the 1961 Airport Traffic Control Tower and the Theme Building, the view to the 1961 Airport Traffic Control Tower from the Theme Building restaurant and public roof-top viewing platform, the view from the 1961 Airport Traffic Control Tower to the Theme Building, and the view from vehicular and pedestrian circulation paths within the immediate vicinity of the Primary Axial view corridor;</li> <li>◆ the mid- and long-range outward looking views from the Theme Building's 80-foot level restaurant and the 360-degree views from the roof-top viewing platform, including mid-range views of the concourses and terminals, long-range views of the airfields, and distant views to the surrounding neighborhoods, mountains, and Pacific Ocean;</li> <li>◆ direct views of the Theme Building from the U-shaped vehicular and pedestrian circulation paths within the concourse complex where, at a minimum, the upper portions of the Theme Building would be visible; and</li> <li>◆ direct views of the Theme Building from the edges of the horizontal concourse levels, including views through the continuous</li> </ul>				

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<p>horizontal strip windows directly facing the Theme Building from the south terminals where, at a minimum, the upper portions of the Theme Building would be visible.</p> <p>Changes to non-contributing features and spatial relationships of the CTA that may indirectly impact the Theme Building and Setting shall be undertaken in a manner consistent with the Secretary of the Interior's Standards for Rehabilitation 9 and 10, and shall be compatible with the historic materials, features, size, scale and proportion, and massing of the Theme Building to protect the integrity of the historic resource and its environment. New terminals shall be designed to protect the important axial relationship and view corridor between the Theme Building and the 1961 Airport Traffic Control Tower. In addition, the design of the APM shall ensure that important contributing views of the north and south elevations of the Theme Building are not materially impaired.</p> <p>Prior to the final design of the new terminals and APM, a qualified historic preservation consultant shall be engaged by LAWA to review the compatibility of new design and construction components adjacent to the Theme Building for conformance with Secretary of the Interior's Standards that provide guidelines for sensitively and respectfully managing changes to the defining characteristics of a historic property's site and environment. With regard to adjacent new construction, Standard for Rehabilitation 9 recommends that destruction of historic materials that characterize the property be avoided where feasible, and that adjacent new work shall be compatible with</p>				

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SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance	
<p>the massing, size, scale, and architectural features of the historical resource to protect the historic integrity of the property and its environment. Standard for Rehabilitation 10 requires that new construction be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired. This mitigation measure and the required Standards conformance review by a qualified historic preservation consultant shall achieve and document compliance with the applicable Standards through the requisite plan reviews and sign-off of plans. In addition, a letter report will be provided to the City of Los Angeles Office of Historic Resources documenting the results.</p>					
<p><b>MM-HA (SPAS)-4</b> <b>Monitoring Agency:</b> <b>LAWA</b></p>	<p><b>Conformance with LAX Master Plan Archaeological Treatment Plan.</b><sup>18</sup> Prior to initiation of grading and construction activities, LAWA will retain an on-site Cultural Resource Monitor (CRM), as defined in the LAX Master Plan MMRP Archaeological Treatment Plan (ATP), who will determine if the proposed project area is subject to archaeological monitoring. As defined in the ATP, areas are not subject to archaeological monitoring if they contain redeposited fill or have previously been disturbed. LAWA shall retain an archaeologist to monitor excavation activities in native or virgin soils in accordance with the detailed monitoring procedures and other procedures outlined in the ATP regarding</p>	<p>Potential to encounter and impact previously unidentified subsurface archaeological resources discovered during construction of modifications and improvements associated with the SPAS Project</p>	<p>Prior to initiation of grading and construction activities associated with the construction of the SPAS Project</p>	<p>The extent and frequency of inspection shall be defined based on consultation with the qualified archaeologist if the Cultural Resource Monitor determines that the project area is subject to archaeological monitoring</p>	<p>Conformance with LAX Master Plan Archaeological Treatment Plan</p>

<sup>18</sup> This measure has been developed to ensure compliance with the ATP, which incorporates the requirements of LAX Master Plan Mitigation Measures MM-HA-4 through MM-HA-10.

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SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p>treatment for archaeological resources that are accidentally encountered during construction. In accordance with the methods and guidelines provided in the ATP, the CRM will compare the known depth of redeposited fill or disturbance to the depth of planned grading activities, based on a review of construction plans. If the CRM determines that the proposed project area is subject to archaeological monitoring, a qualified archaeologist (an archaeologist who satisfies the Secretary of the Interior's Professional Qualifications Standards [36 CFR 61]) shall be retained by LAWA to inspect excavation and grading activities that occur within native material. The extent and frequency of inspection shall be defined based on consultation with the archaeologist. Following initial inspection of excavation materials, the archaeologist may adjust inspection protocols as work proceeds. Identification, evaluation, and recovery of cultural resources shall be conducted in accordance with the methods, guidelines, and measures established in the ATP. If Native American cultural resources are encountered, LAWA shall comply with guidance established in the ATP for retaining a Native American monitor. If human remains are found, LAWA shall comply with the State Health and Safety Code regarding the appropriate treatment of those remains as outlined in the ATP. Reporting shall be completed in conformance with the requirements established in the ATP to document the archaeological monitoring effort and guidance as to the proper curation and archiving of artifacts in accordance with industry and federal standards.</p>				

**SPAS Project Mitigation Monitoring and Reporting Program**

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SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance	
<b>Hazards/Hazardous Materials - Safety</b>					
<b>MM-SAF (SPAS)-1</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>FAR Part 77 Review.</b> LAWA shall ensure that any future development planned for the LAX Northside will not impact the safe and efficient operation of aircraft through completion of FAR Part 77 review of proposed development. Should any proposed structures penetrate any Part 77 imaginary surfaces, a detailed evaluation of potential aviation safety hazards associated with that structure(s) shall be completed by the FAA, or be completed in consultation with, and be subject to review and approval by, the FAA. Based on the findings and conclusions of that analysis, measures identified in the analysis as being necessary to achieve an appropriate aviation safety level, as determined by the FAA, shall be incorporated into development design and operation plans and/or otherwise implemented in conjunction with LAX Northside development.	Potential aircraft safety impacts related to future development in LAX Northside	Prior to issuance of building permits for individual development projects in LAX Northside	Once per building permit	Written confirmation that consultation with FAA was completed
<b>Hydrology and Water Quality</b>					
<b>MM-HWQ (SPAS)-1</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Conceptual Drainage Plan Revision and Update.</b> In conjunction with the design of any SPAS alternative that may be selected, LAWA will revise and update the Los Angeles International Airport Conceptual Drainage Plan (CDP), to account for changes in the nature, location, design, and timing, if known, of the improvements under that alternative as compared to the LAX Master Plan approved in 2004, which is the	Significant changes in surface hydrology or adverse impacts to surface water quality due to new development associated with the SPAS Project	Prior to issuance of a grading/building permit for the first SPAS Project involving creation of new impervious surface area in	Once, upon completion of Conceptual Drainage Plan	Completion of Conceptual Drainage Plan

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SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p>basis for the 2005 CDP. Consistent with the requirements of LAX Master Plan Commitment HWQ-1, which established the framework for the CDP, the necessary revisions and updates will occur in accordance with FAA guidance and to the satisfaction of the City of Los Angeles Department of Public Works, Bureau of Engineering and Bureau of Sanitation - Watershed Protection Division based on the drainage/flood control and storm water quality requirements of each agency. The CDP revision and update shall take into account:</p> <ul style="list-style-type: none"> <li>◆ Changes in existing surface hydrology and water quality characteristics at LAX since preparation of the 2005 CDP;</li> <li>◆ Current regulatory programs related to water quality, such as the application of Standard Urban Stormwater Mitigation Plan (SUSMP) and Low Impact Development (LID) requirements by the City Bureau of Sanitation - Watershed Protection Division;</li> <li>◆ Surface hydrology and water quality improvements proposed separate from SPAS, such as the City of Los Angeles Bureau of Sanitation Stormwater Infiltration and Treatment Facility, but related to treatment of storm water from/at LAX; and</li> </ul>		<p>excess of one acre<sup>19</sup></p>		

<sup>19</sup> As indicated in Section 4.8 of the SPAS Final EIR, the National Pollutant Discharge Elimination System Program (NPDES) for construction applies to activities that disturb an area of one acre or more. As one acre is a recognized level of disturbance for storm water discharges associated with construction activities, it is used to determine the applicability of Mitigation Measure MM-HWQ (SPAS)-1.

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SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p>Changes in projected future area-wide drainage flows and surface water pollutant loading within the LAX Master Plan project area, as affected by the selected SPAS alternative and by other existing or proposed improvement projects at LAX that were not assumed in the 2005 CDP.</p> <p>The CDP revision and update will provide the basis and specifications by which detailed drainage improvement plans shall be designed in conjunction with site engineering specific to each improvement associated with any selected SPAS alternative, as well as the remaining LAX Master Plan improvements that would not change due to the SPAS alternative, including, if necessary, improvements to address increased erosion and sedimentation. Consistent with the requirements for the 2005 CDP, the drainage system design and identification of needed improvements shall be based upon providing flood protection for a minimum 10-year storm event. As also required in the 2005 CDP, water quality treatment BMPs, which may include infiltration basins/systems, bioretention, vegetated swales, detention/retention basins/systems, media filtration, water quality inlets, catch basin inlet devices, and hydrodynamic separators, in addition to source control measures and good housekeeping practices, shall be incorporated to minimize the effect of airport operations on surface water quality to below the level of significance and to prevent a net increase in pollutant loads to surface water resulting from the overall LAX Master Plan improvements including if/as modified by any selected SPAS alternative.</p>				

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SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<b>Public Services - Law Enforcement</b>					
<b>MM-LE (SPAS)-1</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>LAWAPD Replacement Facilities.</b> Prior to removal of the existing LAWAPD station and facilities located at West 96th Street, LAWA shall complete an effective phased transition to the planned LAX Public Safety Building and Supporting Facilities. In the event the LAX Public Safety Building and Supporting Facilities is not yet completed, LAWA shall make arrangements for interim facilities to temporarily accommodate the displaced facilities. Plans and provisions for temporary and/or permanent replacement facilities shall be developed in consultation with LAWAPD and the facility shall be sited to support adequate emergency response times and distances. The existing LAWAPD station and facilities shall not be removed unless and until adequate emergency response times and distances can be achieved without it, as determined in consultation with LAWAPD.	Impacts to law enforcement services as a result of the removal and relocation of LAWAPD station and facilities located at West 96th Street	Prior to issuance of building permits for removal of the existing LAWAPD station and facilities located at West 96th Street	Once, prior to issuance of building permits of each project	Plan sign-off by LAWAPD and LAX Detail

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SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance	
<b>Transportation - Surface Transportation (On-Airport)</b>					
<b>MM-ST(OA) (SPAS)-1</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Relocate Existing Taxi Loading Zone at TBIT.</b> LAWA will relocate the existing taxi loading zone at TBIT to the curve located between TBIT and Terminal 4. This change would provide a larger passenger loading area for the private vehicles along the TBIT inner curbside.	Significant curbside congestion within CTA.	Implementation of this measure will occur when international passenger activity level, which at LAX occurs primarily at TBIT and most affects the curbside areas at/near TBIT, reaches 20.1 million annual passengers, as monitored on an annual basis.	Once upon relocation of subject taxi loading zone.	Visual confirmation that subject taxi loading zone has been relocated to the curve between TBIT and Terminal 4.
<b>MM-ST(OA) (SPAS)-2</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	<b>Change Departures and Arrivals Level Commercial Vehicle Curbside Operations.</b> LAWA will implement operational changes to commercial modes such that SPAS-related impacts to roadway links would not exceed the threshold of significance. LAWA will determine at the time of implementation which commercial mode(s) should be relocated. LAWA will consider options such as changing hotel and rental car shuttle operations from their current dual loop operation to a single loop operation on the departures and arrivals level curbsides respectively, while the employee shuttle operation could be changed from its existing single level operation on the departures level to a dual loop operation.	Significant roadway congestion at outer curb lane, west of inner curb entrance from Terminal 1.	This measure will be implemented when airport peak hour traffic at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by no more than 50 percent, resulting in a total	Once upon implementation of the selected change in commercial mode operations.	Visual confirmation that the selected change in commercial mode operations is occurring.

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SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
			airport peak hour traffic volume of no more than 16,839 trips. The basis for this increment in airport-related traffic is described below in the introduction to the off-airport traffic mitigation measures.		
<b>Transportation - Surface Transportation (Off-Airport)</b>					
<p align="center"><b>SUMMARY OF TIMING APPROACH FOR IMPLEMENTATION OF OFF-AIRPORT SURFACE TRANSPORTATION MITIGATION MEASURES</b></p> <p>A total of 32 mitigation measures are recommended in Section 2.3.12.2.2.2 of Part II of the SPAS Final EIR for off-airport traffic impacts anticipated to occur at buildout of the LAWA Staff-Recommended Alternative in 2025. These mitigation measures can be grouped into three categories: transportation demand management (TDM); contributions to the intelligent transportation systems maintained by Los Angeles County Department of Public Works and the City of Inglewood; and physical improvements to specific intersections. The timing for implementation of the off-airport surface transportation mitigation measures above will be coordinated with the growth in airport-related trip generation projected to occur by 2025, when passenger activity levels at LAX reach 78.9 million annual passengers (MAP), compared to baseline conditions in 2009 at 56.5 MAP, and will occur in four equally-spaced “growth increments” (i.e., 25 percent, 50 percent, 75 percent and 100 percent of the projected growth).</p> <p>For the mitigation measures related to ITS improvements, specifically Mitigation Measures MM-ST (SPAS)-5, MM-ST (SPAS)-12, MM-ST (SPAS)-13, MM-ST (SPAS)-14, MM-ST (SPAS)-25, and MM-ST (SPAS)-42, Los Angeles World Airports (LAWA) proposes to provide fair-share funding for those improvements as part of the first group of mitigation measures (i.e., when airport-related trip generation reaches a 25 percent increase over baseline conditions), in order to support the ongoing efforts by those jurisdictions to use intelligent transportation systems to manage traffic operations in the area. These mitigation measures are subject to FAA approval.</p> <p>Relative to the expansion of LAWA’s existing vanpool program, as related to the TDM improvement proposed in Mitigation Measure MM-ST (SPAS)-1, LAWA proposes to phase the expansion of that program in four equal increments, based on 25, 50, 75, and 100 percent increases in airport-related trip generation as further described below.</p>					

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SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p>With regard to the timing of mitigation measures involving physical improvements at specific intersections relative to each increment of airport-related traffic growth, each significantly impacted intersection where feasible improvements are proposed was analyzed to identify the level of growth that triggers the significant impact. This was done by comparing the intersection LOS and V/C ratio under Future (2025) Without Alternative conditions and Future (2025) with LAWA Staff-Recommended Alternative (Note: The LAWA Staff-Recommended Alternative includes the ground transportation system improvements proposed under Alternative 9) conditions at each progressive increment of growth until the significant impact was triggered. Under each of the four growth increments, the Future (2025) with LAWA Staff-Recommended Alternative conditions were then determined by linear interpolation of growth in intersection V/C shown in Table 4.12.2-25 of the SPAS Final EIR. If the difference in LOS values at these growth increments exceeded the significance thresholds, the proposed improvement was identified for construction by the time total trip generation at LAX has reached the corresponding increment of growth (i.e. implementation in the prior growth increment).</p> <p>Where LAWA is to pay a fair share contribution (also referenced in the mitigation measures below as a “monetary contribution”), the amount shall be determined as follows: (1) LAWA shall determine whether the significant impact occurs under the “Baseline (2010) Comparison Methodology”, the “Future (2025) Comparison Methodology”, or under the AM, MD, or PM peak hours in the SPAS Draft EIR; (2) where the impact occurs only under the Baseline [2010] Comparison and only under one peak hour, LAWA shall determine the Alternative’s fair share payment as follows based upon the information in the SPAS EIR:</p> <p style="text-align: center;"><b>Equation 1</b></p> $\left\{ \frac{\left[ \left( \frac{\text{Baseline}[2010] \text{ With}}{\text{Alternative}} \right) - \left( \frac{\text{Baseline}[2010] \text{ Without}}{\text{Alternative}} \right) \right]}{\left( \frac{\text{Baseline}[2010] \text{ With}}{\text{Alternative}} \right)} \right\} \times \left\{ \text{Total cost of the improvement related to the significantly impacted intersection} \right\}$ <p>(3) where the impact occurs only under the Future [2025] Comparison and only under one peak hour, LAWA shall determine the Alternative’s fair share payment as follows:</p> <p style="text-align: center;"><b>Equation 2</b></p> $\left\{ \frac{\left( \frac{\text{Future}[2025] \text{ With}}{\text{Alternative}} \right) - \left( \frac{\text{Future}[2025] \text{ Without}}{\text{Alternative}} \right)}{\left( \frac{\text{Future}[2025] \text{ With}}{\text{Alternative}} \right)} \right\} \times \left\{ \text{Total cost of the improvement related to the significantly impacted intersection} \right\}$				

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
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(4) where the significant impact occurs under both Baseline [2010] and Future [2025] comparisons or where the significant impact occurs under multiple peak hours, LAWA shall individually calculate the fair share contribution payments under Equation 1 and/or Equation 2 above for the 2010 and 2025 comparisons and for each significantly impacted peak hour, and shall base the fair share payment upon the greatest of these values. Any expenditure of airport funds for such fair share contributions is subject to FAA approval.

**Table 2**

**Growth in Two-Way Trip Generation Under LAWA Staff-Recommended Alternative  
(i.e., Alternative 9 Ground Transportation System Improvements)**

Time Period	Baseline	Future (2025) with Alternative 9	Total Growth in Trips	Growth (Percent)	25% of Total Growth (final volume)	50% of Total Growth	75% of Total Growth
Airport Peak Hour	14,029	19,650	5,621	40%	15,434	16,839	18,244

Source: City of Los Angeles, Final Environmental Impact Report for Los Angeles International Airport Specific Plan Amendment Study, Table 4.12.2-10, January 2013.

The Table 3 below identifies the off-airport mitigation measures associated with each increment of growth in traffic over baseline conditions. Of the 32 mitigation measures that apply to LAWA Staff-Recommended Alternative, 20 are triggered in the first phase (i.e., at 25 percent increase in airport-related traffic), seven are triggered in the second phase (i.e., at 50 percent increase in airport-related traffic), two are triggered in the third phase (i.e., at 75 percent increase in airport-related traffic), and two are triggered in the fourth phase (i.e., at 100 percent increase in airport-related traffic). One mitigation measure, MM-ST (SPAS)-1, would be implemented in equal increments across all four phases.

**SPAS Project Mitigation Monitoring and Reporting Program**

**Table 3**

**Off-Airport Transportation Mitigation Phasing For the LAWA Staff-Recommended Alternative**

Int# <sup>1</sup>	Intersection	Mitigation Measure (MM) Number	Category	Triggered By Trip Growth Percentage			
				25%	50%	75%	100%
N/A	Multiple	MM-ST (SPAS)-1	TDM <sup>2</sup>	X	X	X	X
6	Airport Boulevard & Arbor Vitae Street/Westchester Parkway	MM-ST (SPAS)-2	Physical	X			
7	Airport Boulevard & Century Boulevard	MM-ST (SPAS)-3	Physical	X			
11	Inglewood Avenue & Arbor Vitae Street	MM-ST (SPAS)-4	Physical		X		
12	La Brea Avenue & Arbor Vitae Street	MM-ST (SPAS)-5	ITS <sup>3</sup>	X			
17	Aviation Boulevard/Florence Avenue & Manchester Avenue	MM-ST (SPAS)-8	Physical	X			
25	La Brea Avenue & Centinela Avenue	MM-ST (SPAS)-9	Physical			X	
26	La Cienega Boulevard & Centinela Avenue	MM-ST (SPAS)-10	Physical	X			
34	La Brea Avenue/Hawthorne Boulevard & Century Boulevard	MM-ST (SPAS)-12	ITS <sup>3</sup>	X			
35	Inglewood Avenue & Century Boulevard	MM-ST (SPAS)-13	ITS <sup>3</sup>	X			
37	Prairie Avenue & Century Boulevard	MM-ST (SPAS)-14	ITS <sup>3</sup>	X			
38	Sepulveda Boulevard & Century Boulevard	MM-ST (SPAS)-15	Physical		X		
57	La Brea Avenue & Florence Avenue	MM-ST (SPAS)-17	Physical	X			
58	La Cienega Boulevard & Florence Avenue	MM-ST (SPAS)-18	Physical	X			
60	Sepulveda Boulevard & Grand Avenue	MM-ST (SPAS)-19	Physical				X
62	Hawthorne Boulevard & Imperial Highway	MM-ST (SPAS)-20	Physical	X			
66	Inglewood Avenue & Imperial Highway	MM-ST (SPAS)-21	Physical	X			
71	Sepulveda Boulevard & Imperial Highway	MM-ST (SPAS)-23	Physical		X		
85	La Brea Avenue & Manchester Boulevard	MM-ST (SPAS)-25	ITS <sup>3</sup>	X			
87	La Brea Avenue & Slauson Avenue	MM-ST (SPAS)-26	Physical	X			
90	La Cienega Boulevard & Manchester Boulevard	MM-ST (SPAS)-27	Physical	X			
96	La Cienega Boulevard & I-405 Southbound Ramps (n/o Century Boulevard)	MM-ST (SPAS)-28	Physical	X			
115	Ash Avenue & Manchester Avenue	MM-ST (SPAS)-31	Physical		X		
143	Vicksburg Avenue & 96th Street	MM-ST (SPAS)-32	Physical	X			
159	Hindry Avenue & Manchester Boulevard	MM-ST (SPAS)-34	Physical		X		
169	Prairie Avenue & Manchester Boulevard	MM-ST (SPAS)-35	Physical		X		
197	Prairie Avenue & Lennox Boulevard	MM-ST (SPAS)-36	Physical			X	
10	Aviation Boulevard & Arbor Vitae Street	MM-ST (SPAS)-37	Physical		X		
27	La Tijera Boulevard & Centinela Avenue	MM-ST (SPAS)-38	Physical				X
154	Overland Avenue & Sawtelle Boulevard	MM-ST (SPAS)-40	Physical	X			
156	Walgrove Avenue & Washington Boulevard	MM-ST (SPAS)-41	Physical	X			
27	La Tijera Boulevard & Centinela Avenue	MM-ST (SPAS)-42	ITS <sup>3</sup>	X			
36	La Cienega Boulevard & Century Boulevard	MM-ST (SPAS)-42	ITS <sup>3</sup>	X			
63	Hawthorne Boulevard & Lennox Boulevard	MM-ST (SPAS)-42	ITS <sup>3</sup>	X			
76	Inglewood Avenue & Lennox Boulevard	MM-ST (SPAS)-42	ITS <sup>3</sup>	X			

**SPAS Project Mitigation Monitoring and Reporting Program**

**Table 3**

**Off-Airport Transportation Mitigation Phasing For the LAWA Staff-Recommended Alternative**

Int# <sup>1</sup>	Intersection	Mitigation Measure (MM) Number	Category	Triggered By Trip Growth Percentage			
				25%	50%	75%	100%
86	La Brea Avenue/Overhill Drive & Stocker Street	MM-ST (SPAS)-42	ITS <sup>3</sup>	X			
87	La Brea Avenue & Slauson Avenue	MM-ST (SPAS)-42	ITS <sup>3</sup>	X			
93	La Cienega Boulevard & Stocker Street	MM-ST (SPAS)-42	ITS <sup>3</sup>	X			
95	La Cienega Boulevard & West 120th Street	MM-ST (SPAS)-42	ITS <sup>3</sup>	X			
119	Ocean Avenue/Via Marina & Washington Boulevard	MM-ST (SPAS)-42	ITS <sup>3</sup>	X			
173	Western Avenue & Imperial Highway	MM-ST (SPAS)-42	ITS <sup>3</sup>	X			
<b>Number of Mitigations to Implement:</b>				<b>20</b>	<b>7</b>	<b>2</b>	<b>2</b>
<b>Percentage of Mitigations to Implement:</b>				<b>63%</b>	<b>23%</b>	<b>7%</b>	<b>7%</b>

<sup>1</sup> Intersection 52, Inglewood Avenue and El Segundo Boulevard, would receive fair share funding through MM-ST(SPAS)-42.

<sup>2</sup> Transportation Demand Management (TDM) Program

<sup>3</sup> Intelligent Transportation System (ITS) Program (subject to FAA approval)

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<b>MM-ST (SPAS)-1</b>  <b>Monitoring Agency:</b>  <b>LAWA</b>	Overall increase in traffic.	Implementation of this mitigation measure will be phased based on incremental increases in airport-related traffic generation at intervals of 25 percent, as described in the	Once per year.	Status updates within Annual Reports pertaining to LAWA Rideshare program.

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SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
	<p>would shift from driving to the airport to the program.</p> <p>The increased vanpool service will result in removal of approximately 740 daily vehicular trips to and from the airport parking facilities on a typical weekday.</p>			

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance	
<p><b>MM-ST (SPAS)-2</b> <b>Monitoring Agency:</b> <b>LAWA</b></p>	<p><b>Modify the Intersection of Airport Boulevard and Arbor Vitae Street/ Westchester Parkway (Intersection 6).</b> The mitigation measure for this location is to restripe the northbound approach and departure to provide a third through lane so that the resulting northbound lane configuration would be one left-turn lane, two through lanes, and one shared through/right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**SPAS Project Mitigation Monitoring and Reporting Program**

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SPAS Project-Specific Mitigation Measures**

	SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-3</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of Airport Boulevard and Century Boulevard (Intersection 7).</b> The mitigation measure for this location is to reconfigure the traffic signal to add a southbound right-turn overlapping phase, and reconfigure the northbound approach to provide additional left-turn capacity. The resulting northbound approach would provide one left-turn lane, one shared through/left-turn lane, one through lane, and one right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-4</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of Arbor Vitae Street and Inglewood Avenue (Intersection 11).</b> The mitigation measure for this location is to restripe the southbound approach to provide a separate right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

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SPAS Project-Specific Mitigation Measures**

	<b>SPAS Project-Specific Mitigation Measures</b>	<b>SPAS Impact Being Addressed</b>	<b>Timing of Implementation</b>	<b>Monitoring Frequency</b>	<b>Actions Indicating Compliance</b>
<p><b>MM-ST (SPAS)-5</b> <b>Monitoring Agency:</b> <b>LAWA</b></p>	<p><b>La Brea Avenue and Arbor Vitae Street (Intersection 12).</b> The mitigation involves fair share contribution to the City of Inglewood's ITS improvement program for this intersection.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>Once upon payment of required fair share contribution.</p>	<p>Written confirmation that the required fair share contribution, subject to FAA approval, to the City of Inglewood's ITS improvement program for this intersection has been made.</p>

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

<b>SPAS Project-Specific Mitigation Measures</b>		<b>SPAS Impact Being Addressed</b>	<b>Timing of Implementation</b>	<b>Monitoring Frequency</b>	<b>Actions Indicating Compliance</b>
<p><b>MM-ST (SPAS)-8</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of Aviation Boulevard/Florence Avenue and Manchester Avenue (Intersection 17).</b> The mitigation measure for this location is to restripe both the eastbound and westbound lane configurations from one left-turn lane, two through lanes, and one right-turn lane to one left-turn lane, two through lanes, and one shared through/right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

	SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-9</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of La Brea Avenue and Centinela Avenue (Intersection 25).</b> The mitigation measure for this location is to restripe the northbound and southbound approaches to provide separate right-turn lanes. The resulting lane configuration would be northbound one left-turn lane, two through lanes, and one right-turn lane; and southbound one left-turn lane, two through lanes, and one right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-10</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of La Cienega Boulevard and Centinela Avenue (Intersection 26).</b> The mitigation measure for this location is to modify the southbound approach to provide dual left-turn lanes. This improvement would require modification to the raised median on La Cienega Boulevard north of Centinela Avenue. The resulting configuration would be two left-turn lanes, two through lanes, and one shared through/right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-12</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>La Brea Avenue/Hawthorne Boulevard and Century Boulevard (Intersection 34).</b> The mitigation involves fair share contribution to the City of Inglewood's ITS improvement program for this intersection.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>Once upon payment of required fair share contribution.</p>	<p>Written confirmation that the required fair share contribution, subject to FAA approval, to the City of Inglewood's ITS improvement program for this intersection has been made.</p>

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

<b>SPAS Project-Specific Mitigation Measures</b>		<b>SPAS Impact Being Addressed</b>	<b>Timing of Implementation</b>	<b>Monitoring Frequency</b>	<b>Actions Indicating Compliance</b>
<p><b>MM-ST (SPAS)-13</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Inglewood Avenue and Century Boulevard (Intersection 35).</b> The mitigation involves fair share contribution to the City of Inglewood's ITS improvement program for this intersection.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>Once upon payment of required fair share contribution.</p>	<p>Written confirmation that the required fair share contribution, subject to FAA approval, to the City of Inglewood's ITS improvement program for this intersection has been made.</p>

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance	
<p><b>MM-ST (SPAS)-14</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Prairie Avenue and Century Boulevard (Intersection 37).</b> The mitigation involves fair share contribution to the City of Inglewood's ITS improvement program for this intersection.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>Once upon payment of required fair share contribution.</p>	<p>Written confirmation that the required fair share contribution, subject to FAA approval, to the City of Inglewood's ITS improvement program for this intersection has been made.</p>

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-15</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of Sepulveda Boulevard and Century Boulevard (Intersection 38).</b> The mitigation measure for this location is to restripe the westbound approach to provide two left-turn lanes, one shared left-turn/through/right-turn lane, and one right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

	SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-17</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of La Brea Avenue and Florence Avenue (Intersection 57).</b> The mitigation measure for this location is to restripe the northbound approach to provide a separate right-turn lane, resulting in one left-turn lane, two through lanes, and one right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

<b>SPAS Project-Specific Mitigation Measures</b>		<b>SPAS Impact Being Addressed</b>	<b>Timing of Implementation</b>	<b>Monitoring Frequency</b>	<b>Actions Indicating Compliance</b>
<p><b>MM-ST (SPAS)-18</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of La Cienega Boulevard and Florence Avenue (Intersection 58).</b> The mitigation measure for this location is to modify the north/south split phasing to Protected-Variable and restripe the southbound approach to provide two left-turn lanes, one through lane, and one shared through/right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

	SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-19</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of Sepulveda Boulevard and Grand Avenue (Intersection 60).</b> The mitigation measure for this location is to restripe the westbound approach to provide additional left-turn capacity by restriping a through lane to a shared through/left-turn lane. Minor changes to the lane assignment signage would also be necessary. The resulting westbound lane configuration would be two left-turn lanes, one shared through/left-turn lane, one through lane and one right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-20</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of Hawthorne Boulevard and Imperial Avenue (Intersection 62).</b> The mitigation measure for this location is to restripe the southbound approach to provide a separate right-turn lane, resulting in one left-turn lane, three through lanes, and one right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-21</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of Inglewood Avenue and Imperial Highway (Intersection 66).</b> The mitigation measure for this location is to restripe the southbound approach to provide additional through capacity, resulting in one left-turn lane, one through lane, and one shared through/right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-23</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of Sepulveda Boulevard and Imperial Highway (Intersection 71).</b> The mitigation measure for this location is to modify the traffic signal to include a northbound right-turn overlap phase, restripe the westbound approach to provide a second right-turn lane, and restripe the northbound approach on Sepulveda Boulevard to provide one left-turn lane, three through lanes, and two right-turn lanes.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-25</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of La Brea Avenue and Manchester Boulevard (Intersection 85).</b> The mitigation involves fair share contribution to the City of Inglewood's ITS improvement program for this intersection.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>Once upon payment of required fair share contribution.</p>	<p>Written confirmation that the required fair share contribution, subject to FAA approval, to the City of Inglewood's ITS improvement program for this intersection has been made.</p>

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

<b>SPAS Project-Specific Mitigation Measures</b>		<b>SPAS Impact Being Addressed</b>	<b>Timing of Implementation</b>	<b>Monitoring Frequency</b>	<b>Actions Indicating Compliance</b>
<p><b>MM-ST (SPAS)-26</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of La Brea Avenue and Slauson Avenue (Intersection 87).</b> The mitigation measure for this location is to restripe the southbound approach to provide one left-turn lane, two through lanes, and one shared through/right-turn lane and to eliminate the existing southbound right-turn overlap phase.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-27</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of La Cienega Boulevard and Manchester Boulevard (Intersection 90).</b> The mitigation measure for this location is to change the north/south split phasing from split to protected and restripe La Cienega Boulevard from north of Florence Avenue to south of Olive Street in order to reconfigure the southbound approach to provide two left-turn lanes, one through lane, and one shared through/right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

<b>SPAS Project-Specific Mitigation Measures</b>		<b>SPAS Impact Being Addressed</b>	<b>Timing of Implementation</b>	<b>Monitoring Frequency</b>	<b>Actions Indicating Compliance</b>
<p><b>MM-ST (SPAS)-28</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the intersection of La Cienega Boulevard and Southbound I-405 Ramps (north of Century Boulevard) (Intersection 96).</b> The mitigation measure for this location is to widen the I-405 Freeway southbound off-ramp (the westbound approach) to provide one left-turn lane, one shared left-turn/through lane, and one shared through/right-turn lane. This mitigation measure also requires widening the northbound approach to provide two left-turn lanes, one through lane, one shared through/right-turn lane, and one right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance	
<p><b>MM-ST (SPAS)-31</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of Ash Avenue and Manchester Avenue (Intersection 115).</b> The mitigation measure for this location is to restripe the northbound approach to provide additional left-turn capacity, resulting in two left-turn lanes and one shared through/right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

<b>SPAS Project-Specific Mitigation Measures</b>		<b>SPAS Impact Being Addressed</b>	<b>Timing of Implementation</b>	<b>Monitoring Frequency</b>	<b>Actions Indicating Compliance</b>
<p><b>MM-ST (SPAS)-32</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Vicksburg Avenue and 96th Street (Intersection 143).</b> The mitigation measure for this location is to widen the westbound approach to provide dual right-turn movements from Vicksburg Avenue to 96th Street Bridge, resulting in the following westbound configuration: one left-turn lane, one through lane, and two right-turn lanes.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

	SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-34</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of Hindry Avenue and Manchester Boulevard (Intersection 159).</b> The mitigation measure for this location is to reconfigure the eastbound approach to provide a separate right-turn lane, resulting in one left-turn lane, two through lanes, and one right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

<b>SPAS Project-Specific Mitigation Measures</b>		<b>SPAS Impact Being Addressed</b>	<b>Timing of Implementation</b>	<b>Monitoring Frequency</b>	<b>Actions Indicating Compliance</b>
<p><b>MM-ST (SPAS)-35</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of Prairie Avenue and Manchester Boulevard (Intersection 169).</b> The mitigation measure for this location is to reconfigure the eastbound approach to provide dual left-turn lanes. This improvement would require removing the raised center median and restriping the westbound departure lanes northward in the existing right-of-way. The resulting eastbound approach would provide two left-turn lanes, two through lanes, and one shared through/right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

	SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-36</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of Prairie Avenue and Lennox Boulevard (Intersection 197).</b> The mitigation measure for this location is to restripe the eastbound approach to provide one left-turn lane, one shared through/left-turn lane, and one right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-37</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of Arbor Vitae Street and Aviation Boulevard (Intersection 10).</b> The mitigation measure for this location is to widen the eastbound approach to provide a separate right-turn lane, resulting in one left-turn lane, two through lanes, and one right-turn lane.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.</p>	<p>(1) Prior to implementation of this intersection improvement, this measure will be monitored annually to determine whether airport peak hour traffic volumes have increased over baseline conditions by the applicable amounts specified in Tables 2 and 3 above, based on annual traffic count/ activity reports for LAX. (2) Following implementation of the intersection improvement, the monitoring frequency will be reduced to occurring just once, upon completion of the intersection improvement.</p>	<p>Confirmation that the subject intersection improvement has been completed</p>

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

	SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
<p><b>MM-ST (SPAS)-38</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Modify the Intersection of La Tijera Boulevard and Centinela Avenue (Intersection 27).</b> The mitigation measure for this location is to provide a fair share contribution to the improvement of this intersection as part of a grade separation project that would also affect the adjacent section of La Cienega Boulevard, subject to FAA approval and should the grade separation project be found to be feasible and implementation pursued by the affected local agencies. In addition, if permitted by the FAA, LAWA will make a monetary contribution to upgrading the County's ITS system at this intersection to partially mitigate the alternative's contribution to the cumulative impacts. ("County's ITS system")</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>Fair share contribution for the recommended intersection improvement (i.e., grade separation), if determined to be feasible, shall be provided if the project is approved, and occur within one year of the first permit approved for this intersection improvement project.</p> <p>Regarding fair share contribution to the County's ITS system), this aspect of the mitigation measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline</p>	<p>Grade Separation – Once upon payment of required fair share contribution</p> <p>County ITS System - Once upon payment of required fair share contribution.</p>	<p>Written confirmation that each required fair share contribution, subject to FAA approval, for the grade separation improvement and for the County ITS system at this intersection, has been made.</p>

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
			levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required.		
<b>MM-ST (SPAS)-40</b> <b>Monitoring Agency:</b> <b>LAWA</b>	<b>Fair Share Contribution to a Traffic Signal at the Intersection of Overland Avenue and Sawtelle Boulevard (Intersection 154).</b> The mitigation measure for this location is to provide a fair share contribution to the installation of a traffic signal, subject to FAA approval and should it be implemented by the City of Culver City.	Traffic congestion and delays at this intersection resulting from future increases in traffic.	This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified	Once upon payment of required fair share contribution.	Written confirmation that the required fair share contribution, subject to FAA approval, to the City of Culver City's ITS improvement program for this intersection has been made.

***SPAS Project Mitigation Monitoring and Reporting Program***

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
			above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required. A pre-condition to the payment of this fair share contribution is the approval of the physical improvements described in the mitigation measure by the City of Culver City.		

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

<b>SPAS Project-Specific Mitigation Measures</b>		<b>SPAS Impact Being Addressed</b>	<b>Timing of Implementation</b>	<b>Monitoring Frequency</b>	<b>Actions Indicating Compliance</b>
<p><b>MM-ST (SPAS)-41</b></p> <p><b>Monitoring Agency:</b></p> <p><b>LAWA</b></p>	<p><b>Fair Share Contribution to a Traffic Signal at the Intersection of Walgrove Avenue and Washington Boulevard (Intersection 156).</b> The mitigation measure for this location is to provide a fair share contribution to the installation of a traffic signal, subject to FAA approval and should it be implemented by the City of Culver City.</p>	<p>Traffic congestion and delays at this intersection resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which increment would implementation of this mitigation measure be required. A pre-condition to the payment of this fair share contribution</p>	<p>Once upon payment of required fair share contribution.</p>	<p>Written confirmation that the required fair share contribution, subject to FAA approval, to the City of Culver City's ITS improvement program for this intersection has been made.</p>

**SPAS Project Mitigation Monitoring and Reporting Program**

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

	SPAS Project-Specific Mitigation Measures	SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
			is the approval of the physical improvements described in the mitigation measure by the City of Culver City.		
<p><b>MM-ST (SPAS)-42</b> <b>Monitoring Agency:</b> <b>LAWA</b></p>	<p><b>Contribute to ITS (Intelligent Transportation Systems) Improvements at 11 Study Intersections within the Jurisdiction of Los Angeles County (Intersections 27, 36, 52, 63, 76, 86, 87, 93, 95, 119, and 173).</b> Los Angeles County Department of Public Works staff determined that improvements to the County's intelligent transportation systems (ITS) equipment would improve traffic operations where no feasible physical mitigation measures have been identified. As partial mitigation for the identified cumulative impacts, LAWA will make a monetary contribution to upgrading the County's ITS system at these intersections, if permitted by the FAA.</p>	<p>Traffic congestion and delays at these 11 intersections resulting from future increases in traffic.</p>	<p>This measure will be implemented when airport peak hour at LAX, as measured once annually by traffic counts into and out of the CTA and driveways at LAX-related facilities, increases over 2009 baseline levels by the amount specified above in Tables 2 and 3, with Table 2 indicating the amount of airport peak hour traffic associated with each increment of traffic growth anticipated to occur at LAX, and Table 3 indicating at which</p>	<p>Once upon payment of required fair share contribution.</p>	<p>Written confirmation that the required fair share contribution, subject to FAA approval, to the County's ITS system has been made.</p>

**Mitigation Monitoring and Reporting Program  
SPAS Project-Specific Mitigation Measures**

SPAS Project-Specific Mitigation Measures		SPAS Impact Being Addressed	Timing of Implementation	Monitoring Frequency	Actions Indicating Compliance
			increment would implementation of this mitigation measure be required.		

***SPAS Project Mitigation Monitoring and Reporting Program***

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## Statement of Overriding Considerations

Los Angeles World Airports (LAWA) published the program-level Final Environmental Impact Report (EIR) on the Los Angeles International Airport (LAX) Specific Plan Amendment Study (SPAS) on January 25, 2013. Section 7.H of the LAX Specific Plan requires that, prior to implementation, certain elements of the LAX Master Plan designated as “Yellow Light Projects” be re-evaluated to determine whether alternative means are available to solve the problems that those projects were designed to address. The “Yellow Light Projects” include:

- The Ground Transportation Center (GTC), including the baggage tunnel, associated structures, and equipment;
- Automated People Mover (APM) 2 from the GTC to the Central Terminal Area (CTA), including its stations and related facilities and equipment;
- Demolition of Central Terminal Area Terminals 1, 2, and 3;
- North Runway re-configuration as contemplated in the LAX Master Plan, including center taxiways; and
- On-site road improvements associated with development of the GTC and construction of APM2.

As required by the LAX Master Plan Stipulated Settlement, the SPAS, consistent with previous local and federal approvals, identifies Specific Plan Amendments that plan for modernizing and improving LAX in a manner that is designed for a practical capacity of 78.9 Million Annual Passengers (MAP) while enhancing safety and security, minimizing environmental impacts on the surrounding communities, and creating conditions that encourage airlines to go to other airports in the region, particularly those owned and operated by LAWA. The SPAS focuses on:

1. Potential alternative designs, technologies, and configurations for the LAX Master Plan Program that would provide solutions to the problems the Yellow Light Projects were designed to address, consistent with a practical capacity of LAX at 78.9 MAP.
2. Security, traffic, and aviation activity of such designs, technologies, and configurations for the Alternative projects.
3. Potential environmental impacts that could result by replacing the Yellow Light Projects with the Alternative Projects, and potential mitigation measures that could provide a comparable level of mitigation to that described for the Yellow Light Projects in the LAX Master Plan Program EIR.

The LAX SPAS Final EIR (State Clearinghouse No. 1997061047) addresses the environmental impacts associated with improvements studied under the LAX SPAS and, at a program level, focuses on significant environmental effects of the studied alternatives. Chapter 2 in Part II of the LAX SPAS FEIR identifies each of the significant adverse environmental impacts associated with the Staff-Recommended Alternative. However, as indicated in the LAX SPAS Draft EIR, most of the significant and unavoidable impacts are caused by the anticipated growth in passenger activity and non-airport-related regional development, which would occur even if none of the SPAS Alternatives, including the LAWA Staff-Recommended Alternative, were implemented. In fact, the implementation of the existing LAX Master Plan Yellow Light Projects<sup>1</sup> would be the most impactful development because of the extraordinary construction-related impacts and the resulting inefficiencies introduced by the resulting imbalance in airfield use. While the EIR identifies mitigations to avoid or reduce many of the significant impacts to below the level of significance, numerous significant impacts cannot be reduced below the level of significance, despite implementation of all feasible mitigations.

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<sup>1</sup> Studied as Alternative 3 in the SPAS EIR.

## **Statement of Overriding Considerations - SPAS Project**

CEQA Guidelines Section 15093(b) provides that when a public agency approves a project that will result in significant impacts that are identified in the Final EIR and are unable to be avoided or substantially lessened, the agency must state in writing the specific reasons to support its decision based on the Final EIR and/or other information in the administrative record. If the specific economic, legal, social, technological or other benefits of a proposed project outweigh its unavoidable adverse environmental effects, the adverse effects may be considered "acceptable." (CEQA Guidelines Section 15093(a).) LAWA, as the Lead Agency for the LAX SPAS EIR, adopts the following Statement of Overriding Considerations.

Based on substantial evidence in the administrative record for the LAX SPAS, the Board of Airport Commissioners (BOAC) hereby finds, concludes, and determines that the unavoidable significant adverse environmental impacts of the LAWA Staff-Recommended Alternative are acceptable in light of the following specific safety, environmental, economic, legal, social, technological, or other project benefits.

Each benefit described below contains an overriding consideration warranting approval of the LAX SPAS Staff-Recommended Alternative independent of other benefits, despite each and every significant unavoidable impact.

### **A. Enhanced Airfield Safety and Efficiency Associated with the Reconfiguration of the North Airfield**

The existing runways and taxiways on the north airfield at LAX were designed and constructed in the 1960s, when the commercial aircraft fleet was substantially smaller and lighter than the fleet serving the airport today and anticipated in the future. As a result, the existing north airfield has a number of deficiencies that impact the safety and operational efficiency of the airfield, which include, but are not limited to:

- The north airfield does not meet FAA design standards for the largest aircraft types currently in service, including Aircraft Design Group (ADG) V and VI aircraft.
- Managing aircraft activity on the north airfield requires non-standard operating procedures, which require special handling by both FAA Air Traffic Control and LAX Operations that are not optimal for safety and increase aircraft delay.
- The primary north airfield departure runway (6R/24L) is too short for certain larger aircraft (e.g. fully-loaded Boeing 747-400) on long-haul flights, requiring those aircraft to taxi to the south airfield, yielding less efficient operations, additional airlines costs, and disproportionate environmental impacts.
- The outdated design creates a situation where aircraft are at an increased risk for airfield hazards. Those hazards include potential collisions with other aircraft, such as when a landing aircraft might move in the path of a departing aircraft (incursion). Other potential hazards include, but are not limited to, insufficient side-by-side passing clearances between certain types of aircraft arriving/departing on runways and aircraft on nearby taxiways. Such hazards contribute to potential conflicts between taxiing aircraft and ground vehicles on runways, taxiways, and nearby service roads.
- Three of the four runway ends on the north airfield configuration do not comply with FAA Runway Safety Area (RSA) requirements leaving insufficient space to mitigate the dangers of aircraft excursions (i.e. overruns).
- The north airfield high-speed taxiways are not in compliance with FAA Engineering Brief No. 75 which requires high-speed taxiways to be in the last one-third of the runway length.
- The north airfield does not provide sufficient areas at the end of the runways to hold arriving flights and efficiently sequence departing aircraft.

## **Statement of Overriding Considerations - SPAS Project**

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- The existing Runway Protection Zone (RPZ) associated with Runway 6L/24R includes residential uses.

The SPAS LAWA Staff-Recommended Alternative includes a series of modifications to the north airfield complex, including the runways, the taxiway system, navigational aids, and service roads to address each of the problems identified above. Those modifications include:

- Increasing the distance of separation between runways and taxiways, including a shift of Runway 6L/24R 260 feet north. These distances largely determine the types of aircraft that can freely operate on the system without operational restrictions and special handling.
- Installing a center taxiway between the runways and modifying exit taxiways in order to increase pilot situational awareness and reduce incursion risk.
- Extending Runway 6R/24L by 1,250 feet east to better accommodate fully loaded aircraft that would otherwise have to taxi to the south airfield to depart.
- Displacing the threshold on Runway 6L/24R 604 feet to the west to relocate the Runway Protection Zone away from residential uses.
- Implementing a combination of runway extensions, declared distances, and displaced thresholds in order to meet federal RSA requirements.
- Demolishing or relocating current terminal and airport-support facilities, and modifying and lengthening taxiways to the full length of Runway 6R/24L.

Once implemented, the LAWA Staff-Recommended Alternative would accomplish the following:

- Be consistent with FAA design standards for all aircraft currently serving LAX, with the exception of ADG VI aircraft when visibility is less than ½ mile;
- Significantly reduce existing operational restrictions required on the north airfield, resulting in an improvement in airfield efficiency and level of service;
- Reduce the potential for airfield hazards and enhance overall safety, through modifications in the location and geometry of runways, taxiways, taxilanes, and service roads;
- Accommodate a larger percentage of departing aircraft by extending the primary departure runway (6R/24L), thereby increasing airfield efficiency at LAX;
- Provide a runway-length taxiway and taxilane, to provide additional areas to hold and sequence arriving and departing aircraft; and
- Eliminate the Runway Protection Zone overlay on residential uses.

The SPAS Staff-Recommended Alternative addresses key planning objectives related to airfield safety and efficiency. Critically for LAX, the combination of improvements provided would result in a north airfield configuration that would permit 99.87% of all aircraft operations forecasted to serve LAX in 2025<sup>2</sup> to be managed in a standard manner, free of restrictions and workarounds that complicate efforts to provide a safe and efficient airfield.

The LAWA Staff-Recommended Alternative also provides a key safety enhancement not present on today's airfield, a centerline taxiway that provides additional distance and geometry that is designed to reduce the chances of pilots blundering into an active runway. As documented in Section 4.7.2 of the SPAS Draft EIR, this centerline taxiway has been acknowledged in each safety study of the north airfield, and by the FAA, as enhancing airfield safety. In addition, the LAWA Staff-Recommended Alternative includes exit taxiways with improved geometry, giving almost all arriving pilots line of sight to the end of Runway 6R/24L when positioned to cross that runway. This direct line of sight provides an improvement to situational awareness to pilots not

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<sup>2</sup> See Appendix F-1 of the LAX SPAS Report.

## ***Statement of Overriding Considerations - SPAS Project***

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reliant on developing technology. Further discussion of the safety features present in the LAWA Staff-Recommended Alternative can be found on Chapter 4.7.2.10 and Table 4.7.2-16 of the SPAS Draft EIR.

The efficiency improvements outlined above actually reduce aircraft-related operational emissions compared to those emissions that would occur if the north airfield remained as it is today<sup>3</sup> or if the north airfield were reconfigured as proposed in the LAX Master Plan<sup>4</sup>. As stated in Chapter 1.4 of the SPAS Draft EIR, all SPAS airfield and terminal alternatives are associated with significant and unavoidable operational-related SOx, PM10, and PM2.5 emissions. However, implementing the LAWA Staff-Recommended Alternative would result in a 1.1% decrease in SOx, and a .6% decrease in both PM10 and PM2.5 when compared to a scenario without airfield reconfiguration<sup>5</sup>, and even greater reductions when compared to implementing the airfield configuration included in the LAX Master Plan<sup>6</sup>.

Additionally, implementing the Staff-Recommended Alternative would reduce the number of people and dwellings that would be newly exposed to significant levels of aircraft noise compared to those that would be exposed if the north airfield remains as it is today<sup>7</sup>. Chapter 4.10.1 of the SPAS Draft EIR analyzes and identifies significant aviation noise impacts for each of the SPAS Alternatives, and Section 2.3.10.1 of the SPAS Final EIR specifically identifies the significant aviation noise impacts of the LAWA Staff-Recommended Alternative. While these impacts are primarily related to the expected increase in aircraft operations that would occur regardless of airfield reconfiguration, in accordance with federal regulation and state law, the EIR quantified these impacts by projecting  $\geq 65$ CNEL noise contours on existing surrounding land uses and populations. The projected contours for the LAWA Staff-Recommended Alternative identify the number of newly impacted dwellings to be reduced by 233, and the number of newly impacted people reduced by 1244 compared to a scenario in 2025 that does not include a reconfigured airfield. In fact, leaving the north airfield in its existing operational configuration would result in the highest number of people being newly exposed to significant levels of aircraft noise of all of the SPAS Alternatives<sup>8</sup>.

### **B. Improved Accommodation of Airport-Related Traffic, Especially as it Relates to the Central Terminal Area (CTA)**

Because the majority of LAX passengers are origin and destination passengers, i.e., their journey begins and/or ends at LAX, an efficient ground transportation system remains an important part of the airport environment. Today, travelers, visitors, employees, vendors, and others seeking access to passenger terminals in the CTA generally gain access using the existing roadway and curbside system. Currently, a system of existing roadways provides access to the airport, where, upon arrival into the CTA, traffic is split into either the upper roadway system (for departures) or the lower roadway system (for arrivals). Certain commercial vehicles that serve the airport, including most LAX shuttles, circulate on both levels and travel in mixed flow on surface streets to provide access to airport-serving facilities outside of the CTA.

The existing system poses a number of concerns relative to traffic flows, including, but not limited to:

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<sup>3</sup> Studied as Alternative 4 in the LAX SPAS EIR.

<sup>4</sup> Studied as Alternative 3 in the LAX SPAS EIR.

<sup>5</sup> Studied as Alternative 4 in the LAX SPAS EIR.

<sup>6</sup> Studied as Alternative 3 in the LAX SPAS EIR.

<sup>7</sup> Studied as Alternative 4 in the LAX SPAS EIR.

<sup>8</sup> See Table 4.10.1-55 of the LAX SPAS Draft EIR.

## **Statement of Overriding Considerations - SPAS Project**

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- The CTA roadway system design currently creates queuing, weaving, and conflict points at various locations that impede traffic flow;
- During peak travel times, inbound airport traffic currently extends out of the CTA roadways onto public streets and may worsen as airport activity returns and grows;
- Curbside demand is unevenly distributed, especially during peak periods, creating concentrations of passengers who are not accommodated by the existing curbside system;
- As cumulative regional traffic increases, there will be less time certainty for airport users without easy access to the airport from the regional transit system; and
- The roadway system is not designed to efficiently accommodate security screening of vehicles entering the CTA.

The LAX SPAS LAWA Staff-Recommended Alternative seeks to address these problems through changes in the roadway network, curbside, and by modifying existing facilities and implementing new airport facilities outside of the CTA. In summary, these changes include:

- Modifying Sky Way, a primary entry point into the CTA, for traffic coming from the north of the airport designed to disperse an existing conflict point in the vicinity of Terminal 1;
- Constructing an Intermodal Transportation Facility (ITF) in the vicinity of Lot C, designed to serve as a new remote access point to LAX, by providing remote passenger pick-up and drop-off capability, and access to other intermodal uses including public and private transit;
- Relocating long-term passenger and employee parking in the Vicinity of Lot C and Manchester Square;
- Developing a Consolidated Rental Car Facility (CONRAC) in Manchester Square; and
- Developing an Automated People Mover (APM) that would circulate passengers between the CTA, transit facilities, and the aforementioned airport facilities outside of the CTA.

The LAX SPAS Staff-Recommended Alternative is expected to provide LAWA with additional flexibility as it seeks to improve the performance of the ground transportation system. In particular, the LAX SPAS Staff-Recommended Alternative would accomplish:

- Improved roadway segments that reduce bottlenecks and eliminate weaving near the entryway to the CTA;
- A reduction in the volume of vehicles accessing the CTA by providing alternative facilities outside of the CTA for passenger pick-up and drop-off and access to commercial vehicles;
- A reliable, grade-separated APM that connects the CTA, transit facilities, and airport facilities outside of the CTA; and
- The integration of the airport facilities with the nearby public transit facilities, including the recently approved Metro Crenshaw/LAX Corridor Metrorail system.

With the construction of new facilities and associated operational changes included in the LAX SPAS Staff-Recommended Alternative, the total number of vehicles entering the CTA and using the CTA roadway network and curbside would decrease by over 340 vehicles in the peak hour, a reduction of over 5% of total vehicle trips entering the CTA when compared to the “no development” Alternative<sup>9</sup>. At the same time, the eventual placement of rental car users on the APM system will allow LAWA to reassign over 1000 feet of dedicated curb in the CTA to other uses, thereby diffusing some of the curbside demand that can reduce the level of service on the roadway and curb systems. Together, these changes should improve the overall performance and passenger level of service of the CTA, especially in peak hours.

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<sup>9</sup> Studied as Alternative 4 in the SPAS EIR.

## ***Statement of Overriding Considerations - SPAS Project***

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Additionally, the LAX SPAS Staff-Recommended Alternative will provide an improved connection for airport users seeking to access the airport through private or public transit, including those seeking to connect to shared ride vans, long distance shuttles, or Metro. The grade-separated circulator system will provide a reliable and effective service between airport and Metro facilities, removing perceived barriers to the airport for potential transit riders.

### **C. Maintain LAX's Position as a Premier International Gateway**

LAX already serves as a fundamental underpinning in the region's economy. Central to that economic importance is LAX's position as the international gateway to the western United States. According to a study completed in 2007 by the Los Angeles Economic Development Corporation (LAEDC)<sup>10</sup>, over the course of 2006 an average transoceanic flight traveling round-trip to LAX everyday added \$623 million in economic output and sustained 3,120 direct and indirect jobs in Southern California with \$156 million in wages. Given the continued growth in, and reliance on, new large aircraft, such as the Boeing 747, 777 and the Airbus A380 by major airlines operating on those long-distance international routes, LAX must be able to effectively accommodate those aircraft, both on the airfield and within the terminals, to maintain the significant regional economic benefits LAX provides and leverages.

As noted above, the LAX SPAS LAWA Staff-Recommended Alternative provides for modifications on the north airfield that will more safely and efficiently accommodate these large aircraft. These are especially important in light of the deficiencies on LAX's south airfield complex, where taxiway, taxilane, and runway separation limitations result in operational challenges to accommodating ADG V and VI aircraft. According to the SPAS projected aircraft fleet mix detailed in Appendix F-1 of the Preliminary SPAS Report, almost half of all international flight operations will be either ADG V or VI aircraft. For LAX to remain a premier international gateway, it must have the ability to safely and efficiently accommodate these critical segments of the international fleet.

In addition, by relocating the effective Airport Parking Limit Line (APLL) to the north, the LAWA Staff-Recommended Alternative provides for approximately 916,200 square feet of new or redeveloped terminal area that could be used to provide passenger processing and modern amenities expected by international passengers at premier airports. These terminal improvements are vital to ensure that LAX maintains its position as a premier international gateway.

### **D. Promote Job Creation**

Operating and continuing to develop LAX will provide increased employment benefits to the Los Angeles region. According to a 2012 Report by the Los Angeles Economic Development Corporation (LAEDC)<sup>11</sup> that examined the economic contributions of LAX in 2011, the economic activity at LAX, including both capital spending and visitor spending, can be credited with generating 294,400 jobs in Los Angeles County with a labor income of \$13.6 billion.

That same study also estimated if LAWA were to undertake \$8.5 billion in future capital projects, such as some of the projects contemplated in SPAS, it could generate an additional 90,500 job-years in Los Angeles County with a labor income of \$5.6 billion throughout the course of capital development. While there are many projects, independent of SPAS and documented as cumulative projects in the SPAS Draft EIR (such as the Midfield Satellite Concourse), that could

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<sup>10</sup> Entitled "The Economic Activity Dependent on Overseas Flights at LAX", available online at: <http://www.laedc.org/reports/LAXEconomicImpactofOverseasFlights.pdf>

## ***Statement of Overriding Considerations - SPAS Project***

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lead to substantial capital development, selecting and implementing the LAX SPAS LAWA Staff-Recommended Alternative would generate a sizable portion of that \$8.5 billion.

According to the Rough Order of Magnitude (ROM) cost estimates provided in Chapter 8 of the LAX Preliminary SPAS Report, the LAWA Staff-Recommended Alternative, as a combination of Alternatives 1 and 9, would result in more than \$4.7 billion in capital costs. That represents more than half of the future capital investment studied by the LAEDC. In addition, the ROM cost estimate does not include the permanent jobs that would be created to operate the new facilities included in the Staff-Recommended Alternative (such as Terminal 0, and the Intermodal Transportation Facility), or the substantial traffic, noise, and other mitigations that are required to implement any Alternative. Both the operational expenditures and the financing of mitigations will lead to further local investments, and therefore jobs, in the region.

In addition, through continued operation of LAX Master Plan Commitment EJ-3, Job Outreach Center, LAWA will continue to make special efforts to encourage minority, women-owned, and disadvantaged business enterprise subcontractors and historically underrepresented and at-risk local residents from areas surrounding LAX to be placed in SPAS-related projects.

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<sup>11</sup> Entitled "Los Angeles International Airport in 2011 – Economic Impact Analysis", available at <http://www.lawa.org/uploadedFiles/LAWA/pdf/2012-LAX-LAEDC%20report.pdf>.

Los Angeles International Airport  
LAX SPECIFIC PLAN AMENDMENT STUDY

**Proposed Plan Amendments**

Los Angeles World Airports  
Board of Airport Commissioners

February 5, 2013



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LAX Specific Plan Amendments  
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# **LAX Plan**

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## 1. PURPOSE OF THE PLAN

### 1.1 Use of the Plan

The Los Angeles International Airport (LAX) Plan consists of this text and the accompanying maps. It is a part of the General Plan of the City of Los Angeles. The LAX Plan is intended to promote an arrangement of airport uses that encourages and contributes to the modernization of the airport in an orderly and flexible manner within the context of the City and region. It provides goals, objectives, policies, and programs that establish a framework for the development of facilities that promote the movement and processing of passengers and cargo within a safe and secure environment. The LAX Plan is intended to allow the airport to respond to emerging new technologies, economic trends and functional needs.

### 1.2 Vision

~~In 2002, Los Angeles International Airport (LAX) handled close to one hundred~~approximately ninety-five percent of the international passengers and air cargo, and approximately seventy to seventy-five percent of the domestic passengers and air cargo, over seventy-five percent of domestic passengers and cargo within the five-county Southern California region<sup>1</sup>. LAX's role as an international gateway establishes it as the principal airport of the Los Angeles World Airports' regional network of airports, which also includes Van Nuys, Ontario, and Palmdale Airports.

The City of Los Angeles envisions a regional system of airports that accommodates passenger demand and the economic demand for the movement of goods. ~~Although Rforecasts of passenger demand at LAX are projected to be as high as 98 million annual passengers by 2015, total regional passenger demand is anticipated forecasted to exceed be 456-146 million annual passengers (MAP) by 2035, with LAX planned to accommodate only 78.9 MAP<sup>1</sup>.~~ It is, therefore, imperative to utilize the available runway space in Southern California in a more strategic and environmentally compatible manner by linking various regional airport facilities through a network of ground access systems and improvements. After evaluation of various scenarios for future growth at LAX, the City of Los Angeles ~~has determined, in 2004,~~ that a preferred scenario for LAX would be to modernize LAX to accommodate only a portion of the future anticipated LAX and regional demand. In order to implement this vision, the City ~~has developed a Master Plan program that includes safety, ground access and passenger/cargo serving upgrades and at the same time limiting-limits~~ the capacity of LAX by restricting the number of gates to 153. Los Angeles World Airports (LAWA) subsequently embarked on a Specific Plan Amendment Study (SPAS) to, consistent with previous local and federal approvals, identify Specific Plan amendments that plan for the modernization and improvement of LAX in a manner that is designed for a practical capacity of 78.9 million annual passengers (MAP), while enhancing safety and security, minimizing environmental impacts on the surrounding communities, and creating conditions that

<sup>1</sup> Southern California Association of Governments (SCAG) Regional Transportation Plan 2012-2035, adopted April 2012.

encourage airlines to go to other airports in the region, particularly those owned and operated by LAWA. The SPAS focused on potential alternative designs, technologies and configurations for the LAX Master Plan Program that would provide solutions to the problems that certain Master Plan improvements were designed to address consistent with a practical capacity of 78.9 MAP. As total demand grows for airport service in the Southern California region, the City of Los Angeles envisions a long-term shift in service to other regional airports with accompanying improvements to the ground access infrastructure and other services needed to provide both passengers and shippers, international and domestic, with more choices and convenience in their air travel needs.

Within the context of this regional framework, the City also envisions the evolution of LAX into a modern, safe, and secure airport of the 21<sup>st</sup> century, continuing to serve as the region's principal international gateway within a more regional Southern California aviation system. This plan sets forth the City's goals, objectives, policies, and programs that realize this vision.

### **1.3 The LAX Plan Area**

The LAX Plan area consists of 3,900 acres and is located adjacent to the communities of Westchester, El Segundo, Lennox and Inglewood. It is comprised of four general areas: the airfield, a landside airport access portal-system, LAX Northside and the Los Angeles Airport/El Segundo Dunes.

## **2. GOALS AND OBJECTIVES**

The following goals and supporting objectives have been developed to advance the LAX Plan vision and guide airport development. The specific policies and programs that will be used to implement the goals and objectives are discussed in the following section. The objectives are listed under the primary goal that they are intended to help achieve.

**Goal 1:** Strengthen LAX's unique role within the regional airport network as the international gateway to the Southern California region.

- o1. Provide superior facilities, services, and operations to meet the position of LAX as the principal airport and international gateway to the region.
- o2. Improve airport facilities and operations in order to provide world-class service for travelers and other airport users (*i.e.*, employees, public service personnel, *etc.*).
- o3. Provide and upgrade needed facilities to accommodate current and next-generation larger aircraft associated with international and long-haul domestic travel.

- o4. Encourage other airports in the region to absorb growth in commercial service that is not essential to LAX’s international gateway role.
- o5. Lead the effort to regionalize air service in Southern California by forging strategic partnerships that connect LAX and other regional airports.

**Goal 2:** Develop and maintain the highest standards of air traffic safety and passenger security through design and the latest innovations.

- o1. Reduce the possibility of runway incursions.
- o2. Promote safe air navigation.
- o3. Update and improve security for passengers, cargo, and surrounding communities through physical modifications and by using the most efficient available airport security systems as feasible, including multiple layers of security checks.

**Goal 3:** Optimize LAX’s critical role in supporting the economy as a major generator of economic activity.

- o1. Operate LAX in an efficient and competitive manner to benefit local, regional, and state economies.
- o2. Maximize, where feasible, the public benefits of airport development to adjacent land uses, such as direct economic benefits to local business districts, (*i.e.*, Westchester Business District, Century Boulevard, El Segundo, Inglewood, *etc.*).

**Goal 4:** Recognize the responsibility to minimize intrusions on the physical environment.

- o1. Minimize negative impacts to the Los Angeles Airport/El Segundo Dunes and protect plant and animal species, to the extent practical for safe airport operation.
- o2. Where feasible, implement measures to improve air quality or limit the extent to which air quality is degraded by auto, aircraft, and construction equipment emissions.
- o3. Incorporate applicable mitigation measures and master plan commitments from ~~LAX Master Plan~~ environmental analyses into project design and operation.

**Goal 5:** Acknowledge neighborhood context and promote compatibility between LAX and the surrounding neighborhoods.

- o1. Minimize negative impacts to surrounding residential land uses.

- o2. Maximize the public benefits of airport development, particularly to adjacent land uses.
- o3. Provide opportunities for community participation in Master Plan Program decisions that could affect stakeholders by consultation with an LAX Master Plan Stakeholder Liaison who will communicate with stakeholders, including: adjacent residential and business communities; airline representatives; airport concessionaires; cargo and freight forwarders; labor representatives; business organizations and neighborhood councils.

**Goal 6:** Improve ground access to LAX and encourage improved access to other regional airports.

- o1. Establish secure and efficient airport ground connection systems to the regional ground transportation network, which consists of major and secondary highways, freeways, and public transit systems.
- o2. Re-direct regional airport traffic from the local roadway system, including working in partnership with other governmental agencies to encourage: access improvements on interstate and state highways; improvements in transit connectivity to LAX; and reduction of airport trips through implementation of the regional satellite terminal FlyAway full service transportation centers.
- o3. Establish and encourage the development of regional satellite FlyAway full service transportation centers where passengers can receive ticketing, bag check and transportation services to and from regional airports.
- o4. Encourage improved safety and mobility improvements on the Interstate freeway system, such as I-405, I-10, I-105, etc., adjacent to regional airports

### **3. POLICIES AND PROGRAMS**

The following policies and programs have been developed to implement the LAX Plan goals and objectives to guide airport development. These policies and programs are organized into ten topics that address functional and operational aspects of the airport and potential impacts to adjacent land uses. They are safety and security, land use, conservation, circulation and access, economic benefits, noise, air quality, hazardous waste, and design.

#### **3.1 Safety and Security**

##### **3.1.1 Safety**

Airfield safety is of primary concern to the City of Los Angeles, the U.S. Department of Transportation and the Federal Aviation Administration (FAA). Enhanced airfield safety

can be achieved through airfield facility modifications. Runways will be reconfigured to accommodate new larger airplanes, thereby reducing delays and enhancing the safety of passengers. New taxiways will be added and existing taxiways reconfigured to improve taxiing and reduce the potential for runway incursions.

The following policies and programs are established:

- P1. Study and address runway realignment and taxiway separation to provide for larger aircraft maneuvering areas and clearances.
- P2. Provide for adequate aircraft queue space at departure ends of the runways.
- P3. Construct center taxiways to reduce the possibility of runway incursions.
- P4. Provide parallel taxiways between all new structures for improved aircraft maneuvering and reduced taxi times.
- P5. Improve taxiway spacing into gate locations to reduce gate congestion and improve taxi times and efficiency.
- P6. Consult with the Los Angeles Fire Department during the design phase of facilities to review plans and incorporate recommendations that enhance airport safety.
- P7. Establish runway protection zones contiguous to the ends of each runway. These runway protection zones shall be identical to the FAA's runway protection zone (~~clear zone~~).
- P8. Prohibit uses within FAA designated runway safety areas, including, but not limited to, Runway Safety Areas (RSA) and Runway Protection Zones (RPZ) that ~~will~~ create safety hazards.
- P9. Prohibit uses that would attract large concentrations of birds, emit smoke, or which may otherwise affect safe air navigation.
- P10. Prohibit uses that would generate electrical interference that may be detrimental to the operation of aircraft and/or aircraft instrumentation.

### **3.1.2 Security**

Deterrence and prevention of terrorist attacks, as well as any other activity that poses a danger to passengers, visitors and staff at LAX, is essential to the modernization of LAX. The LAX Plan enables Los Angeles World AirportsLAWA to meet current and future security needs and incorporate future technologies as they are developed. It limits commercial and private vehicle access to primary passenger processing facilities

and gates, and develops multiple access points to the airport that are away from critical airport infrastructure.

The following policies and programs are established:

- ~~P1.~~ Evaluate, develop, and improve security measures at LAX, as necessary, in the Central Terminal Area, Intermodal Transportation Center and at other passenger processing facilities, and Satellite Terminal FlyAway security – both physical and operational. – as part of overall security improvements at LAX.
- ~~P2.~~ Develop entry security improvements in the Central Terminal Area by limiting access by non-secure private, public, and commercial vehicles.
- ~~P3.~~~~P2.~~ Design and construct facilities that provide for security of passengers by providing multiple levels of security screening procedures while maintaining ease of use.
- ~~P4.~~~~P3.~~ Consult with the Los Angeles Police Department, the Los Angeles World Airports Police Department, other law enforcement agencies, and security experts, as appropriate, during the facility planning, design, and review phase so that potential environmental contributors to criminal activity are reduced and to ensure the security of the airport, airline passengers, and the surrounding community
- ~~P5.~~~~P4.~~ Provide law enforcement and fire facilities to enhance the ability to respond to emergency situations and facilitate coordination with other emergency response agencies.
- ~~P6.~~~~P5.~~ Provide flexibility in facility design to allow for the incorporation of new technologies in security.

### 3.2 Land Use

LAX is comprised of four general areas, as shown on Figure 1. The land use designations for these areas are:

- **Airport Airside**
- **Airport Landside**
- **LAX Northside**
- **Open Space**

In addition, the Belford areas, generally east of Airport Boulevard and south of Arbor Vitae Street are designated for Medium Residential and Regional Center Commercial land uses, as shown on Figure 1. This area is subject to additional study prior to any new development.

### **3.2.1 Airport Airside**

The Airport Airside area includes those aspects of passenger and cargo movement that are associated with aircraft operating under power and related airfield support services. Uses may include four runways, taxiways, aircraft gates, maintenance areas, airfield operation areas, air cargo areas, passenger handling facilities, fire protection facilities, and other ancillary airport facilities.

Development of Airport Airside Area shall be governed by the following policies and programs:

- P1. Develop a balanced airfield to provide for more efficient and effective use of airport facilities.
- P2. Limit airport capacity by restricting the number of gates (including remote gates) to no more than 153 at Master Plan build-out.
- P3. Expand and improve employee parking.
- P4. Locate airport uses and activities with the potential to adversely affect nearby residential land uses through noise, light spillover, odor, vibration, and other consequences of airport operations and development, as far from them as feasible.
- P5. Provide and maintain landscaped buffer areas along the southern boundary of Airport Airside that include setbacks, landscaping, screening, or other appropriate view sensitive uses with the goal of avoiding land use conflicts, shielding lighting, enhancing privacy, and better screening view of airport facilities from adjacent residential uses.
- P6. No aircraft under power shall enter the Imperial Terminal Area located on the south side of the airport generally used for cargo and fixed-base operations. Continue the use of tug and tow procedures in this area.

### **3.2.2 Airport Landside**

The Airport Landside area functions as the interface between Airport Airside and the regional ground transportation network, establishing access ~~portals~~ points for the efficient processing of people and goods. This area includes a Central Terminal Area and other facilities (*i.e.*, Intermodal Transportation ~~Center~~ Facility) to the east. Aircraft are not permitted under power in this area. Examples of these uses include passenger handling services, airport administrative offices, parking areas, cargo facilities, and other ancillary airport facilities.

The following ~~four~~ Landside interfaces are located in areas designated as Airport Landside:

- **Central Terminal Area (CTA).** The Central Terminal, located in the center of the airport, ~~may have restricted~~ is the primary passenger-processing facility and provides access for non-secure private, public, and commercial vehicles. Secure linkages to and from access portals and FlyAway Terminals will be allowed. Airport administration and tower control facilities are also located in a Central Terminal Area. Passenger support facilities and accommodations are allowed.
- ~~**Ground Transportation Center (GTC).** A Ground Transportation Center may include a passenger processing facility with adjacent parking and/or a Commercial Passenger Vehicle Staging and Holding Area.~~
- ~~**Intermodal Transportation Facility Center (ITFC).** An Intermodal Transportation Facility Center will provide passenger pick up and drop off areas, as well as premium public parking. It may also and accommodate public transit passengers, including but not limited to charter, regional, and other buses, as well as private shuttles, and will provide access to and from the MTA Green Line station.~~
- **Consolidated Rental Car Facility (CONRAC).** A Rental Car Facility ~~shall that~~ provides for all rental car operations, facilities, pick-up, drop-off, storage, and maintenance support.

In addition, an Automated People Mover (APM) will transport people from the Landside interfaces into the Central Terminal Area of the airport. The Automated People Mover will carry people from other airport adjacent facilities, such as an Intermodal Transportation Center ~~Facility~~, ~~a Ground Transportation Center~~, and a Consolidated Rental Car Facility, to the terminal area.

Development of Airport Landside is governed by the following policies and programs:

- P1. Ensure that the scale and activity level of airport facilities appropriately relates to any abutting neighborhood edges.
- P2. Develop a connection between Airport Landside facilities and nearby the Metropolitan Transit Authority (MTA) ~~Green Line Station~~ facilities.
- P3. Develop connections between Airport Landside facilities and the regional ground transportation network, defined as major and secondary highways, freeways, and public transit systems.
- P4. Develop ~~secure~~ direct links from each major Airport Landside facility to other Airport Landside and Airport Airside facilities.
- P5. Provide adequate employee parking and short-term and long-term visitor parking facilities.

- P6. Locate airport uses and activities with the potential to adversely affect nearby land uses through noise, light spill-over, odor, vibration, and other consequences of airport operations and development as far from, or oriented away from adjacent residential neighborhoods as feasible.
- P7. Provide and maintain landscaped buffer areas along the southern boundary of Airport Airside that include setbacks, landscaping, screening, or other appropriate view sensitive uses with the goal of avoiding land use conflicts, shielding lighting, enhancing privacy, and better screening view of airport facilities from adjacent residential uses.
- P8. Establish a Landscape Maintenance Program for parcels acquired in order to minimize visual impacts on adjacent residents, until the parcels are developed for airport purposes.

### **3.2.3 LAX Northside**

LAX Northside includes a variety of land uses of an appropriate scale and level of activity to provide a buffer and transition between the Westchester community and the airport. It may also serve as a relocation area for businesses displaced by the implementation of the LAX Master Plan.

The primary allowable uses within LAX Northside include, but are not limited to: commercial development; office; light industrial; research and development; hotel and conference facilities; retail and restaurant uses; school and community facilities; open space; bicycle paths; and greenway buffers.

LAX Northside development shall be governed by the following policies and programs:

- P1. Provide and maintain landscaped buffer areas along the northern boundary of LAX Northside that include setbacks, landscaping, screening, or other appropriate view sensitive uses with the goal of avoiding land use conflicts, shielding lighting, enhancing privacy, and better screening view of airport facilities from adjacent residential uses.
- P2. Provide community outreach efforts to property owners and occupants through measures such as public notification and public meetings, when new development on airport property is in proximity to, and could potentially affect, nearby residential uses.
- P3. Orient LAX Northside development to encourage access from Westchester Parkway and other roadways internal to LAX Northside.

### **3.2.4 Open Space**

The Los Angeles Airport/El Segundo Dunes area comprises the open space land use within the LAX Plan. Formerly part of the Westchester-Playa Del Rey Community Plan,

it is now incorporated into the LAX Plan (See Figure 1). Development within the Los Angeles Airport/El Segundo Dunes is limited to existing and relocated Navigational Aids, restoration and maintenance of the Dunes Habitat Preserve, a park, and other ancillary facilities, per the adopted Los Angeles Airport/El Segundo Dunes Specific Plan.

Development in the Open Space area shall be governed by the following policies and programs:

- P1. Protect existing state-designated sensitive habitat areas.
- P2. Provide sites for habitat restoration or replacement by native habitat.

### **3.3 Conservation**

#### **3.3.1 Biotic Communities**

Located to the west of the airport, the L.A. Airport/El Segundo Dunes contain state-designated sensitive habitats (See Figure 1). State-designated sensitive habitats within and adjacent to Habitat Restoration Areas will continue to be conserved and protected during airport construction, operation, and maintenance activities. Habitat replacement and restoration for native habitat that is impacted by development within the airfield operating area will continue to be implemented. Construction avoidance measures will be used in areas where construction or staging is adjacent to Habitat Restoration Areas.

The following policies and programs are established:

- P1. Protect the existing state-designated sensitive habitat areas.
- P2. Provide sites for habitat restoration or replacement by native habitat.

#### **3.3.2 Energy and Resources**

Energy and resource efficiency will be promoted through good airport design and sound operational practices.

The following policies and programs are established:

- P1. Design and provide new facilities to meet or exceed energy prescriptive standards required under Title 24.
- P2. Enhance and expand current waste reduction programs to promote recycling at terminals and enhance recycling procurement practices.

### **3.4 Circulation and Access**

The LAX Plan envisions a ground transportation system that connects LAX to the regional ground transportation network and the regional airport system as well as provides for sufficient parking facilities. The regional ground transportation network consists of major and secondary highways, freeways, and the public transit system as shown on Figure 2. This system of connections is intended to reduce the impact of airport traffic on neighboring communities. Integrated intra-airport transportation systems will also be established to link the various Airport Landside interfaces.

The regional airport system includes both LAWA and non-LAWA owned and/or operated facilities in the six-county Southern California region (Los Angeles, Orange, Imperial, San Bernardino, Riverside, and Ventura Counties). The regional ground access network, as described above and which also includes strategically placed satellite terminal/FlyAway facilities, provides the basis for utilizing ample runway capacity in the regional airport system through improvements to ground access and reductions in vehicle miles traveled.

The following policies and programs shall govern circulation and access:

- P1. Develop ~~secure~~, direct links from each major Airport Airside and Airport Landside facility to other Airport Landside and Airport Airside facilities, as appropriate.
- P2. Connect airport facilities to, and to the extent feasible, improve the safety, operation, and mobility of, the regional ground transportation network.
- P3. Develop and construct at least eight FlyAway service terminals in regional locations that serve LAWA and encourage development of other FlyAway services for other airports in the region.
- P4. Provide facilities that encourage transit ridership.
- P5. Consolidate rental car facilities.
- P6. Develop safe and efficient curbside check-in facilities.
- P7. Provide convenient short- and long-term parking facilities.
- P8. Develop a connection point between the airport and the ~~Green Line station and other mass transportation~~ MTA facilities ~~as well as provide facilities for the regional bus system.~~
- P9. Provide dedicated employee parking facilities.

### 3.5 Economic Benefits

Jobs and commerce are direct economic benefits attributable to LAX. Approximately ~~425,000~~ 294,400 jobs, ~~in the region and~~ with labor income of \$13.6 billion and economic

output of more than \$39.7 billion, ~~\$65 billion in yearly economic activity~~ were generated in Los Angeles County alone by the airport in year 2011<sup>1</sup>. This economic activity also added \$2.5 billion to local and state tax revenues<sup>2</sup>. As an international port for cargo and freight, LAX provides a foundation for businesses that depend on cargo operations and logistics. In this regard, LAX is a vital component of the local, regional, and state economy. Failure to modernize LAX would impede the ability to meet airport users' future needs and could threaten the airport's position as one of the nation's premiere airports, thereby limiting the region's future economic vitality.

The following policies and programs are established:

- P1. Sustain jobs and economic output provided to the local, regional, and state economies.
- P2. Modernize, upgrade, and improve LAX in order to sustain the airport's economic benefits.
- P3. Provide for an efficient arrangement of on-airport cargo facilities.
- P4. Locate those on-airport uses that are dependent on secondary, ancillary commercial uses, adjacent to such uses.

### 3.6 Noise

Noise control is one of the most important environmental considerations in airport planning. LAX has a long history of addressing aircraft noise impacts through noise source control and noise mitigation for certain land uses (residences, schools, hospitals, churches, and libraries) that are rendered incompatible due to airport noise impacts. Also, LAX enjoys the unique advantage of being located adjacent to the Pacific Ocean, benefiting from the ability to conduct operations over the ocean, greatly reducing take-off noise impacts on residential communities.

The following policies and programs shall be implemented to limit the noise impacts that result from LAX operations, including noise from aircraft, roadways, and construction:

- P1. Maintain and enhance applicable elements of the current Aircraft Noise Abatement Program that pertain to aircraft noise.
- P2. Update facilities, gates, and runways, to accommodate the New Large Aircraft (NLA) and the next generation of quieter jets.
- P3. Minimize the impacts of aircraft and airport noise through runway orientation.

<sup>1</sup> *LAX Master Plan Supplement to the Draft EIS/EIR, July 2003, (Section 4.4.1.3).*

<sup>2</sup> *Los Angeles International Airport in 2011, Economic Impact Analysis, August 2012, prepared by the Los Angeles County Economic Development Corporation.*

- P4. Move nighttime noise-creating activities to the interior of the airfield and away from noise-sensitive areas situated north and south of the airport.
- P5. Continue use of tug and tow procedures in the Imperial Terminal Area.
- P6. Use over-ocean procedures during nighttime, when weather permits.
- P7. Conduct departures to the west along the runway heading until reaching the coastline.
- P8. Update and expand LAX's Airport Noise Mitigation Program to mitigate noise impacts to land uses that would be rendered incompatible (residences, schools, hospitals, churches, and libraries).
- P9. Locate airport uses and activities with the potential for noise impacts as far from adjacent residential neighborhoods as feasible.
- P10. Require new uses to adhere to applicable state airport land use compatibility regulations.
- P11. Encourage the recycling of incompatible land uses to uses that are compatible with the airport.
- P12. Establish the Belford areas as a special study area in order to identify appropriate future uses.

### **3.7 Air Quality**

Currently, LAWA implements Air Quality Mitigation Programs that contain measures to reduce air pollutant emissions from airport operations. In developing the LAX Plan, consideration was given to maintain or improve air quality using all reasonably available control measures.

The following policies and programs are established:

- P1. Modify runways and taxiways to reduce airfield delays and congestion in order to lessen air emissions through reduced idle time.
- P2. Expand and revise the Air Quality Mitigation Program in order to implement and coordinate methods to reduce air pollutant emissions.
- P3. Establish and implement source controls to reduce construction-related air emissions for on-road and non-road mobile sources and stationary engines.

- P4. Develop and construct at least eight FlyAway service terminals in regional locations that serve LAWA in order to provide direct access via clean-fueled transport and encourage development of other FlyAway services for other airports in the region.
- P5. Provide facilities that encourage transit ridership.
- P6. Establish land use and traffic circulation patterns that reduce traffic and congestion, thereby reducing automobile idle times and subsequent motor vehicle emissions.
- P7. Encourage and facilitate the conversion of ground support equipment to extremely low emission technology, such as electric power or fuel cells.
- P8. Develop Intelligent Transportation Systems applications for highway and roadway improvements in order to minimize traffic and parking congestion and to provide passengers with information that allows them to make informed choices regarding ground access options to and from LAX and other regional airports.

### 3.8 Hazardous Waste

Hazardous materials generated and used at LAX include substances such as motor oil, cleaning solvents, and wastes from spills and leaks. LAX will comply with regulations and procedures for handling and storage of hazardous materials, including adhering to local, state, and federal standards.

The following program shall be established:

- P1. Implement a program for handling of contaminated materials encountered during construction.

### 3.9 Design

The creation of multiple access ~~portals~~ points will ~~change~~ enhance the functional nature of the airport and establish new interfaces with passengers and the adjacent community. A framework that guides the overall function and appearance of these new facilities will be developed.

The following policies and programs are established:

~~P1. Develop an LAX Conceptual Plan and/or Design Guidelines.~~

~~P2.~~ P1. Appropriately relate those airport facilities that are adjacent to community land uses to the scale and level of activity of those uses.

~~P3.~~ P2. Relate Airport Landside facilities to the existing airport infrastructure in a clear, well-organized, functional, and compatible manner.

~~P4.P3.~~ Update and/or integrate the following existing design plans into the LAX Conceptual Plan and/or Design Guidelines: LAX Street Frontage and Landscape Development Plan (June 1994); LAX Air Cargo Facilities Design Guidelines (April 1998); LAX Northside Design Plan and Development Guidelines (1989); Design and Construction Handbook (May 2012).

~~P5.P4.~~ Develop and incorporate signage guidelines that provide guidance and establish controls for signage that are appropriate to an airport.

## **4. IMPLEMENTATION**

### **4.1 Relationship to LAX Specific Plan**

Whereas the LAX Plan establishes a land use policy framework, the LAX Specific Plan ~~(when adopted), will establish~~ zoning and development regulations and standards consistent with the LAX Plan for the airport and LAX Northside. It is a principal mechanism by which the goals and objectives of the LAX Plan are achieved and the policies and programs are implemented. It establishes procedures for processing future specific projects and activities that are anticipated under the LAX Master Plan Program.

## **5. LAX SPECIFIC PLAN**

Ordinance No. 176,345, effective January 20, 2005, as amended by Ordinance No. 179,148 effective August 29, 2007, and Ordinance No. \_\_\_\_\_.

*[Insert Here.]*

## **6. LOS ANGELES AIRPORT/EL SEGUNDO DUNES SPECIFIC PLAN**

Ordinance No. 167,940, effective June 28, 1992.

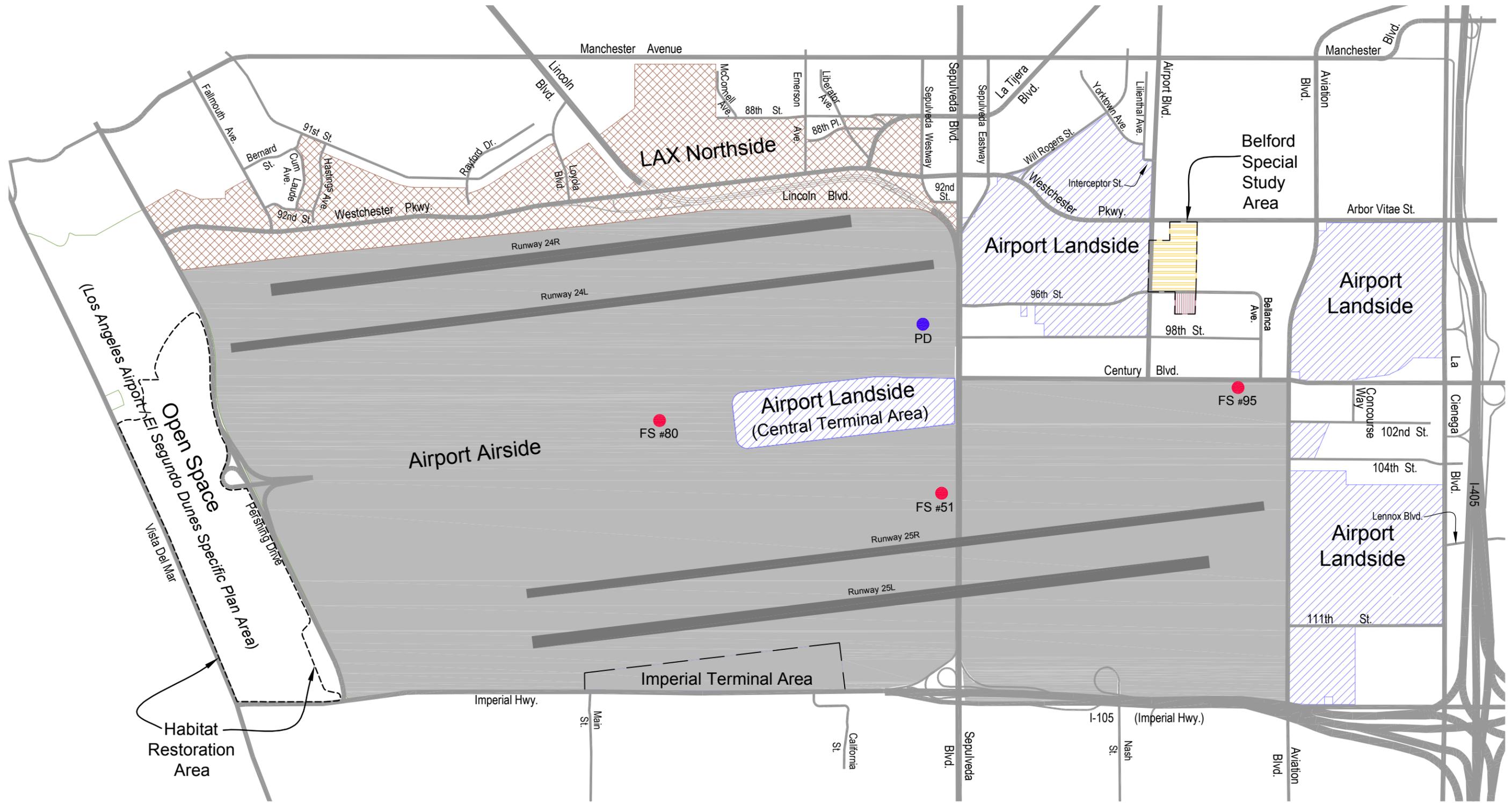
*[Insert Here.]*

## **7. COASTAL TRANSPORTATION CORRIDOR SPECIFIC PLAN**

Ordinance No. 168,999, effective September 22, 1993.

*[Insert Here.]*

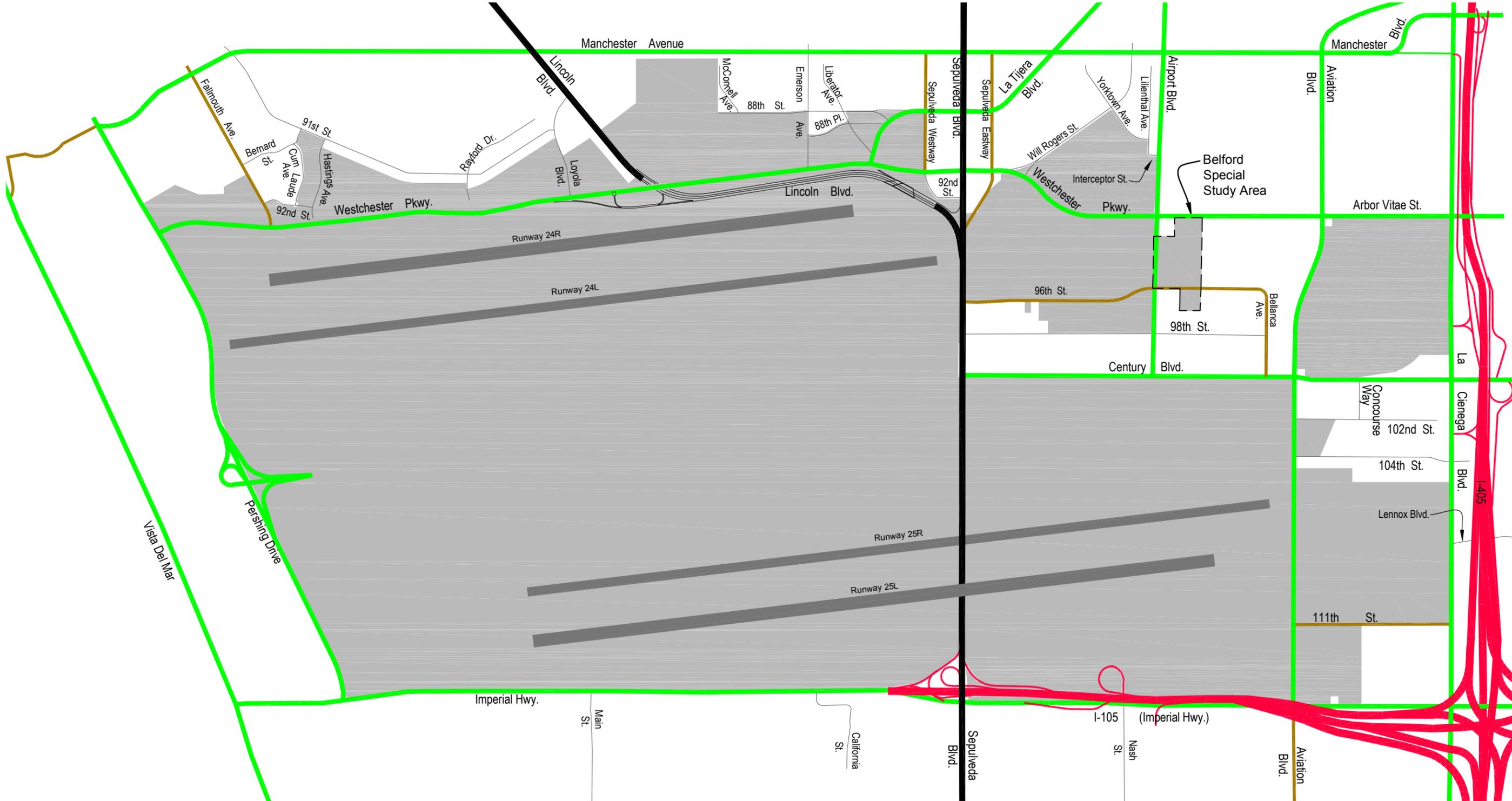




- Airport Airside
- Airport Landside
- LAX Northside
- Open Space
- Special Study Area: Belford - Medium Residential
- Special Study Area: Belford - Regional Center Commercial
- FS Fire Station
- PD Police Station
- Runways

**DRAFT - BASED ON STAFF-RECOMMENDED ALTERNATIVE**





**DRAFT - BASED ON  
STAFF-RECOMMENDED  
ALTERNATIVE**



# LOS ANGELES INTERNATIONAL AIRPORT (LAX)

## Specific Plan

**Ordinance No. 176,345**  
**Effective January 20, 2005**

As amended by Ordinance Nos. 179,148 and \_\_\_\_\_

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**Ordinance No. \_\_\_\_\_**

An ordinance establishing a Specific Plan, known as the LAX Specific Plan, within the LAX Plan area.

**THE PEOPLE OF THE CITY OF LOS ANGELES  
DO ORDAIN AS FOLLOWS:**

**Section 1. ESTABLISHMENT OF THE LAX SPECIFIC PLAN.** The City Council hereby establishes the LAX Specific Plan for the area bounded generally by 88<sup>th</sup> Street, Manchester Avenue, and 91<sup>st</sup> Street on the north, Imperial Highway on the south, Pershing Drive on the west, and La Cienega Boulevard on the east, as shown on Map 1.

**Sec. 2. PURPOSES.**

This Specific Plan is intended to:

1. Recognize the uniqueness of LAX as a regional economic engine, an international gateway to the Pacific Rim, and an important public amenity;
2. Provide regulatory controls and incentives for the systematic and incremental execution of the LAX Plan, an element of the General Plan, to provide for public needs, convenience and general welfare as the development of the airport necessitates;
3. Ensure the orderly development of infrastructure consistent with the intensity and design of the LAX Plan by establishing general procedures for development within the Specific Plan Area;
4. Promote the development of a regional airport system in Southern California through an improved regional ground access system;
5. Provide the appropriate zoning regulations for the development of the LAX Plan in conformance with the goals and objectives of other local and regional plans and policies;
6. Ensure the Los Angeles World Airport's ability to operate LAX safely and efficiently throughout implementation of the LAX Plan;
7. Recognize the important relationship between LAX and its neighbors and avoid development impacts to the extent practical and feasible;
8. Protect airport-related and community businesses by providing regulatory controls and incentives consistent with these goals; and

9. Ensure on-going participation in improvements to LAX by appropriate stakeholders – business, labor, community, airline industry trade groups, government – through consultation with stakeholders.

### **Sec. 3. RELATIONSHIP TO THE LOS ANGELES MUNICIPAL CODE AND OTHER ORDINANCES.**

**A.** The regulations of this Specific Plan are in addition to those set forth in the planning and zoning provisions of the Los Angeles Municipal Code (LAMC), Chapter 1 as amended, and any other relevant ordinances, and do not convey any rights not otherwise granted under the provisions and procedures contained in the LAMC or other ordinances, except as specifically provided in this ordinance.

**B.** Wherever this Specific Plan contains provisions that establish regulations (including, but not limited to, standards such as densities, uses, parking, signage, open space and landscape requirements), which are different from, more restrictive or more permissive than would be allowed pursuant to the provisions contained in the LAMC or any other relevant ordinances, this Specific Plan shall prevail and supersede the applicable provisions of the LAMC and those relevant ordinances.

**C.** This Specific Plan shall supersede any and all “T” Tentative and “Q” Qualified classifications applicable to property within the Specific Plan Area prior to the adoption date of this Specific Plan, including those contained in Ordinance No. 159,526. The substance of the conditions in Ordinance No. 159,526 is incorporated in this ordinance as Appendix A and relate to property generally known as LAX Northside.

**D. Site Plan Review and “Major” Development Projects Ordinances.**

Notwithstanding LAMC Sections 16.05 and 12.24 U 14, Site Plan Review and “Major” Development Projects approvals shall not apply within this Specific Plan Area.

**E. Specific Plan Procedures.** Notwithstanding LAMC Sections 11.5.7 B, 11.5.7 C, 11.5.7 D, 11.5.7 E, 11.5.7 H, and 11.5.7 J, Project Permit Compliance approvals, including modifications, adjustments and interpretations, shall not apply within the Airport Airside and Airport Landside Sub-Areas of this Specific Plan Area.

**F. Mini-Shopping Centers and Commercial Corner Development Ordinance.**

Notwithstanding LAMC Sections 12.22 A 23 and 12.24 W 27, Mini-Shopping Center and Commercial Corner Development approvals shall not apply within this Specific Plan Area.

**G. Landscape Ordinance.** The provisions of LAMC Sections 12.21 A 6, 12.40, 12.41, 12.42, and 12.43 shall not apply within the Specific Plan Area.

**H. Hotels When Located Within 500 Feet of an A or R Zone.** Notwithstanding LAMC Section 12.24 W 24, approvals for Hotels When Located Within 500 Feet of an A or R Zone shall not apply within this Specific Plan Area.

**I. Parking.** Where this Specific Plan contains language or standards that require more parking or permit less parking than LAMC Section 12.21 A 4, this Specific Plan shall supersede the LAMC.

**J. Telecommunications.** Notwithstanding LAMC Section 12.24 W 49, approvals for Telecommunications shall not apply within this Specific Plan Area.

**K. Kennels When Located Within 500 Feet of a Residential Zone.** Notwithstanding LAMC Section 12.24 W 25, approvals for kennels or facilities for the boarding of dogs when located within 500 feet of any residential zone shall not apply within this Specific Plan Area.

**L. Citywide Design Guidelines.** *[Insert appropriate language such that the proposed ordinance amending LAMC Section 11.5.4, considered by the City Planning Commission on 12/13/12, shall not apply within this Specific Plan Area.]*

**Sec. 4. APPLICATION OF SPECIFIC PLAN TO DEVELOPMENT IN SPECIFIC PLAN AREA.**

**A.** Except for the provisions of Section 7, the regulations of this Specific Plan apply to all development located in the Specific Plan Area which requires a grading, building, mechanical, electrical, plumbing and/or sign permit. The provisions of Section 7 apply only to Projects as defined in this Specific Plan.

**B.** No grading permit, building permit, or use of land permit shall be issued, and no construction shall occur, for any development within the Specific Plan Area unless the Executive Director has approved the proposed development.

**Sec. 5. DEFINITIONS.** Whenever the following terms are used in this Specific Plan, with the first letter or letters capitalized, they shall be construed as defined in this section. Words and phrases not defined in this section shall be construed as defined in LAMC Section 12.03.

**Air Cargo Facility.** Buildings, including any associated equipment and vehicles, used for the storage and transport of cargo to and from commercial aircraft.

**Airport.** An area of land that is used or intended to be used for the landing and taking off of aircraft, and includes its buildings, facilities and ancillary uses, if any.

**Airport Airside Sub-Area.** That area as shown on Map 2.

**Airport Landside Sub-Area.** That area as shown on Map 2.

**Applicant.** Any entity, LAWA or any person, as defined in LAMC Section 11.01, submitting a request for LAX Plan Compliance Review.

**Automated People Mover System (APM).** A rail or fixed guideway based transportation system that moves passengers to and from the Central Terminal Area to the landside access facilities (GTC, CON, RAC and ITFC) and other mass transportation facilities in an above-grade configuration, and to and from the Central Terminal Area to the Tom Bradley International Terminal and the West-Midfield Satellite Concourse in a below-grade configuration. ~~APM 1 extends from the ITC to the RAC and on to the CTA. APM 2 extends from the GTC to the CTA.~~

**BOAC.** The Board of Airport Commissioners of Los Angeles World Airports.

**Central Terminal Area (CTA).** The primary passenger check-in and processing center and the transition point to and from the landside facilities (GTC, ITFC and CONRAC).

**CEQA.** California Environmental Quality Act.

**City Engineer.** The City Engineer of the Department of Public Works, Bureau of Engineering, or his or her designee.

**Commercial Passenger Vehicle Staging and Holding Area.** An area for taxis; rental car company, hotel/motel, door-to-door, and scheduled buses and vans; chartered buses and vans; *etc.* to wait before picking up passengers.

**Consolidated Rental Car Facility (CONRAC).** A consolidated facility to accommodate rental car operators at LAX. This facility may include a customer service facility, ready/return garage, rental car storage, and maintenance support, ~~and preliminary security screening.~~

**Executive Director.** The Executive Director of Los Angeles World Airports, or his or her designee.

**Federal Aviation Administration (FAA).** A federal agency charged with regulating air commerce to promote its safety and development, encouraging and developing civil aviation, air traffic control and air navigation, and promoting the development of a national system of airports.

**Fixed-Base Operators (FBO).** A person, firm or corporation authorized by issuance of a commercial operator's permit to provide aeronautical activities, services or products at the airport for compensation or hire.

**Fuel Farm.** Facility used for the storage of aircraft jet fuel prior to distribution to the aircraft via hydrant system or fueling trucks.

~~**Ground Transportation Center (GTC).** A facility that may include a passenger-processing facility with adjacent parking facilities and/or a Commercial Passenger Vehicle Staging and Holding Area. This facility, in conjunction with the Intermodal Transportation Center, may serve commercial and private vehicular traffic for arriving and departing passengers and may provide preliminary security screening.~~

~~**Intermodal Transportation Center (ITC).** A facility providing airport access for regional public transit passengers (*i.e.* MTA's Green Line, chartered buses, public buses), as well as public parking and preliminary security screening.~~

**Intermodal Transportation Facility (ITF).** A facility providing remote passenger pick up and drop off areas, public parking, and connections to public transit and other commercial vehicles (*i.e.* door-to-door shuttles and scheduled buses).

**LADOT.** The Los Angeles City Department of Transportation.

**LADOT General Manager.** The General Manager of the City of Los Angeles Department of Transportation, or his or her designee.

**LAMC.** Los Angeles Municipal Code.

**LAWA.** Los Angeles World Airports.

**LAX.** Los Angeles International Airport.

**LAX Master Plan Stakeholder Liaison.** A person appointed by BOAC to assist the board and other decision-makers in communicating with the stakeholders regarding LAX Master Plan decisions.

**LAX Northside.** The development project that is to be built out within the LAX Northside Sub-Area, previously the subject of Ordinance No. 159,526 and a Final Environmental Impact Report.

**LAX Northside Sub-Area.** That area as shown on Map 2.

**LAX Plan.** The area plan adopted by City Council as the land use element of the City's General Plan for the airport and LAX Northside.

**LAX Plan Compliance Review.** A determination issued pursuant to Section 7 of this Specific Plan.

**Mitigation Monitoring and Reporting Program (MMRP).** The program adopted by BOAC and City Council for applying, monitoring and reporting with respect to the LAX

Plan's master plan commitments and mitigation measures as future site specific improvements and uses contemplated by the LAX Plan are developed. The Board of Airport Commissioners may modify the program in accordance with CEQA.

**Navigational Aid (Nav Aid).** Any facility used by an aircraft or its pilot for guiding or controlling flight in the air or the landing or takeoff of an aircraft.

**Project.** The construction, erection, addition to, or structural alteration of any building or structure, or use of building or land, or change of use of building or land located in whole or in part within the Airport Airside or Airport Landside Sub-Areas of the Specific Plan Area.

A Project shall not include the following:

1. Interior or exterior remodeling of a building;
2. The change of use of a building or land, or the relocation of existing uses, if the change of use or relocation: (a) changes the footprint of a building or structure by 10% or less in square feet; or (b) increases the usable floor area by 10% or less;
3. Activity requiring building permits for the alteration of structures solely relating to mechanical, electrical, or plumbing work internal to the structure, fascia, or any combination of these;
4. Signs;
5. Fences/walls, retaining walls, or support structures;
6. The placement of Navigational Aids and any other equipment mandated by the FAA, TSA, or any other governmental agency;
7. Improvements mandated by the FAA, TSA, or any other governmental agency;
8. Airline operation activities;
9. Non-Master Plan Project infrastructure upgrades, airport maintenance activities, and repair of existing facilities approved by BOAC;
10. Temporary uses, for a period not to exceed 120 days;
11. Emergency uses and/or activities in response to safety and security issues (*i.e.*, activities required by heightened security levels or unsafe operating conditions);

12. Special events, as authorized by the Executive Director or BOAC;
13. Notwithstanding LAMC Section 12.23 A 4, the rehabilitation or reconstruction of a conforming or nonconforming building or structure that was damaged or destroyed by fire, flood, wind, earthquake, or other natural or man-made disaster;
14. Any construction required in order to comply with an order issued by the U.S. Department of Transportation, the FAA or the Department of Building and Safety to repair or replace an unsafe or substandard condition;
15. Construction, the value of which is within the jurisdiction of the Executive Director to approve and does not need to be approved by BOAC under Los Angeles Administrative Code Section 10.1.1 and BOAC Resolution No. 19593 or any subsequent amendment; or
16. Security improvements to existing facilities.

**Run-up Enclosure.** Specialty facility used to test aircraft engines and disperse sound to reduce noise impacts on surrounding areas.

**Runway.** A defined rectangular area on the airport used to prepare for the takeoff or landing of aircraft along its length.

**Specific Plan Area.** That area within the heavy dashed lines on Map 1 in this Specific Plan.

**Taxiway.** A specially designated and prepared surface on an airport, including a taxilane, for aircraft to taxi to and from Runways, hangers, and aircraft parking positions.

**Trip.** A vehicle trip will be administratively defined by agreement between the General Manager of LADOT and LAWA to include the entrance or exit of a vehicle from airport or airport-related property ~~as these movements were studied in the LAX Master Plan final environmental impact report.~~

**West Midfield Satellite Concourse.** A component of the terminal facilities located west of the existing Central Terminal Area accessed via the Automated People Mover System. Facility includes uses such as passenger waiting areas, aircraft loading and unloading, retail, and airline operations areas.

**Sec. 6. SAFETY OF AIRPORT OPERATIONS.** Notwithstanding any other provision of this Specific Plan, no use, development or activity within the Specific Plan Area may compromise the safety of airport flight operations in any way. Final authority for determining whether airport flight operation safety is compromised rests solely with the U. S. Department of Transportation and the FAA.

**Sec. 7. LAX PLAN COMPLIANCE REVIEW.**

**A. General.** The provisions of Subsections B, C, D, E and H of LAMC Section 11.5.7 do not apply to any Projects proposed for construction within the Airport Airside and Airport Landside Sub-Areas of the Specific Plan Area.

**B. Prohibition.** No grading permit, building permit, or use of land permit shall be issued, and no construction shall occur, on any Project within the Airport Airside and Airport Landside Sub-Areas unless the City Council grants an LAX Plan Compliance approval pursuant to the procedures set forth in this section.

**C. Recommendation by Executive Director.** The Executive Director shall have the authority to recommend approval, approval with conditions, modification or denial of a request for an LAX Plan Compliance determination. This recommendation shall be made to BOAC and the City Council pursuant to the procedures set forth in this section after consideration of the traffic generation report and aviation activity analysis required in Subsection G 1 below and following consultation with the LAX Master Plan Stakeholder Liaison.

**D. Findings.** The Executive Director shall recommend to BOAC that the proposed Project be granted an LAX Plan Compliance approval upon written findings that the Project satisfies each of the following requirements:

**1. LAX Plan Consistency.** That the Project complies with the LAX Plan, any design guidelines required by the LAX Plan, and all applicable provisions of this Specific Plan; and

**2. Environmental Compliance.** That the Project has been adequately analyzed in compliance with CEQA, and the applicable master plan commitments and mitigation measures contained in the MMRP (as may be modified by BOAC in accordance with CEQA) or identified in any subsequent environmental review have been incorporated into the Project to the extent feasible.

**E. Rights Granted Under LAX Plan Compliance.** The issuance of an LAX Plan Compliance approval indicates compliance with the LAX Plan and this Specific Plan, but does not in any way indicate compliance with other applicable provisions of LAMC Chapter I (Planning and Zoning Code), nor with Chapter IX (Building Code).

**F. Procedures.**

1. The Executive Director shall review a Project for LAX Plan Compliance based upon the following information:

(a) A written description of the Project including location, size, proposed use, and any other pertinent information;

- (b) A completed initial environmental study, including a traffic study, where appropriate, or other analysis;
- (c) The most recent annual traffic generation report as required in Subsection G 1 below;
- (d) The most recent annual aviation activity analysis as required in Subsection G 1 below;

## **2. Executive Director’s Review.**

- (a) Upon receipt of a request for review, the Executive Director shall transmit a copy of the written description of the Project and appropriate documents to the LADOT General Manager, the City Engineer, the Councilmember of the district in which the Specific Plan Area is located and the LAX Master Plan Stakeholder Liaison, and post notice of the application on the LAWA website. The LADOT General Manager and the City Engineer shall submit any written comments concerning parking, driveways, access, circulation, and infrastructure improvements to the Executive Director within 15 working days from the date the documents were received, unless the LADOT General Manager and the Executive Director agree more time is necessary. The Executive Director shall ensure that LAWA communicates with the LAX Master Plan Stakeholder Liaison. The Executive Director shall consider the comments and concerns of the stakeholders as early in the process as reasonable.
- (b) The Executive Director shall determine whether the Project complies with the LAX Plan and all applicable provisions of this Specific Plan.
- (c) The Executive Director shall determine whether the environmental clearance for the Project complies with CEQA.
- (d) If the Executive Director determines that the Project is consistent with the LAX Plan, all applicable provisions of this Specific Plan and with the requirements of CEQA, the Executive Director shall prepare a written report and transmit this report to BOAC for its action on the LAX Plan Compliance request. This written report shall include findings to support the Executive Director’s recommendation, the applicable master plan commitments and mitigation measures, the applicable mitigation measures identified in any subsequent environmental review, the applicable traffic improvements and right-of-way dedications, and any conditions of approval that shall be imposed on the Project. As a part of this written report, the Executive Director shall summarize the traffic generation report and aviation activity analysis required in Subsection G 1 below, and the results of the consultation with the LAX Master Plan

Stakeholder Liaison. The Executive Director shall also attach the reports submitted by the LADOT General Manager and the City Engineer.

(e) If the Executive Director determines that the Project is not consistent with the LAX Plan and all applicable provisions of this Specific Plan, the Executive Director may direct staff to reconsider the Project, analyze or redesign the Project, or recommend that BOAC seek an amendment to the LAX Plan and/or an amendment or exception to the Specific Plan pursuant to LAMC Sections 11.5.6 and/or 11.5.7 F and G, as appropriate.

**3. Notice Requirements for BOAC Hearing.** After receipt of the Executive Director's report and recommendation, BOAC shall set the matter for hearing. Notice of the time, place, and purpose of the hearing shall be given in the following manner:

(a) By posting the BOAC meeting agenda in the LAWA offices, on the LAWA website, and on the City of Los Angeles website at least 72 hours prior to the meeting.

(b) For the CTA, ~~GTC, ITFC, CONRAC, West-Midfield Satellite Concourse, and APM~~ (except that portion that connects the CTA with Tom Bradley International Terminal and the ~~West-Midfield Satellite Concourse~~) Projects, notice shall also be given by sending written notice by First Class Mail at least 15 days prior to the meeting date to: the Department of City Planning; the Department of Building and Safety; the Councilmember(s) of the district in which the Specific Plan Area is located; LADOT; the Bureau of Engineering; the LAX Master Plan Stakeholder Liaison; ~~the Department of Neighborhood Empowerment;~~ the West Los Angeles Area Planning Commission; the president(s) of local neighborhood councils; ~~Air Transport Association~~ the Airlines for America trade association, Airlines Airport Affairs Committee, and any other airline industry trade groups identified by the LAX Master Plan Stakeholder Liaison as stakeholders; the Westchester/LAX/Marina del Rey Chamber of Commerce; and local homeowners groups and interested parties who have filed a written request with LAWA.

**4. Recommendation by BOAC.** BOAC shall recommend to City Council that it approve, approve with conditions, modify or deny a request for LAX Plan Compliance. BOAC shall make the same findings required to be made by the Executive Director, supported by facts in the record. BOAC shall recommend that all appropriate master plan commitments and mitigation measures, the applicable mitigation measures identified in any subsequent environmental review, and any other requirements are included as a condition of the approval.

**5. City Council Determination.** City Council shall approve, approve with conditions, modify or deny a request for LAX Plan Compliance. The City Council

shall make the same findings required to be made by the Executive Director, supported by facts in the record. The City Council shall ensure that all appropriate master plan commitments and mitigation measures, the applicable mitigation measures identified in any subsequent environmental review, and any other requirements are included as a condition of the approval.

~~Except for those Projects listed in Subsection H 1 below~~, if the City Council does not take final action on the application for an LAX Plan Compliance determination within 30 days of receipt of the recommendation from BOAC, the recommendation from BOAC shall become the final decision on the application. Within this 30-day period, any action of City Council to modify BOAC's recommendation or deny an LAX Plan Compliance determination requires ten affirmative votes.

## G. Monitoring and Reporting.

1. LAWA shall prepare and submit annual reports to BOAC, the Department of City Planning, LADOT and City Council for the following:

**(a) Traffic Generation Report.** A traffic report, based on the information required by Section 12 C 1, that identifies the current number of Trips being generated by LAX (inclusive of all three Sub-Areas), the number of Trips anticipated to be generated at the completion of any Master Plan Project(s) in development at the time of the report, the Trips proposed to be generated following the full implementation of the Master Plan as informed by current and Project-based Trip counts, and the number of Trips anticipated to be generated by on-going Master Plan construction activities.

**(b) Aviation Activity Analysis.** An aviation activity analysis that identifies the current number of passengers, volume of air cargo and aircraft operations served at LAX, and the volume of aviation activity anticipated to be served by on-going Master Plan construction activities. In order to monitor that regional aviation system improvements are taking place in a timely manner, LAWA will also compile aviation activity statistics for other airports in the Los Angeles region for monitoring and reporting purposes. Passengers, volume of air cargo and aircraft operations activity at all airports with scheduled passenger or cargo activity in Los Angeles, Orange, Riverside, San Bernardino and Ventura Counties will be compiled in coordination with the Southern California Association of Governments (SCAG). The analysis shall also include the proportion of aviation activity served at each airport in the region.

**(c) Mitigation Monitoring and Reporting Program.** A status report on compliance with Master Plan commitments and mitigation measures contained in the Mitigation Monitoring and Reporting Program.

2. The first of each annual report required in Subdivision 1 shall be submitted one year following the City Council's approval of the LAX Plan and MMRP, and the last report shall be submitted at the end of the year following completion of any pending Master Plan Project.

~~3. As a part of the Amendment Study requirement in Subsection H below, LAWA shall prepare and submit to BOAC and City Council a study analyzing the potential security benefits of those Projects yet to be initiated in the Master Plan.~~

#### **H. ~~Specific Plan Amendment Study~~ Additional Study Requirements.**

**1. Specific Plan Amendment Study.** LAWA shall initiate a ~~complete LAX Specific Plan Amendment Study comprehensively addressing security, traffic, aviation activity and~~ with corresponding environmental analysis consistent in compliance with CEQA, in the following ~~three~~ two circumstances:

**(a)**

~~1. Prior to seeking an LAX Plan Compliance determination for any one of the following Projects:~~

~~(a) Development of the Ground Transportation Center, including baggage tunnel, associated structures and equipment;~~

~~(b) APM 2 from GTC to CTA, including its stations and related facilities and equipment;~~

~~(c) Demolition of CTA Terminals 1, 2 and 3;~~

~~(d) North Runway re-configuration as contemplated in the Master Plan, including center taxiways; and~~

~~(e) On-site road improvements associated only with (a) and (b) above.~~

~~2. If the annual traffic generation report required in Subsection G 1 above, and/or the annual traffic generation report considered together with any Project-specific traffic study, shows that any Master Plan Projects will be generating net new airport peak hour Trips in excess of 8,236 (unless the total Trips for that year are related to construction or phasing impacts).~~

~~(b) If the annual aviation activity analysis required in Subsection G 1 above forecasts that the annual passengers for that year are anticipated to exceed 78.9 million.~~

**2. LAX Domestic Passenger and Airline Market Survey/Study.** LAWA shall initiate an LAX Domestic Passenger Survey/Study and corresponding Airline Survey/Study, if the annual aviation activity analysis required in Section G 1 above forecasts that the annual passengers for that year are anticipated to exceed 75 million.

**(a) LAX Domestic Passenger Survey and Study.** LAWA shall conduct a survey and study of LAX domestic passengers (those passengers not flying internationally or connecting to international flights) designed to identify, at a minimum, (i) those LAX domestic passengers with origination or destination locations closer to other commercial airports in the region, (ii) why those domestic passengers chose to fly out of, or into, LAX rather than another commercial airport closer to their location of original or destination, and (iii) what actions, consistent with federal, state and local laws, LAWA could take to encourage those domestic passengers to use an airport closer to their location of origin or destination for domestic flights.

**(b) Airline Survey and Study.** Upon completion of the LAX Domestic Passenger Survey and Study described in 2(a) above, LAWA shall conduct a survey and study of airlines then serving the Southern California commercial air travel market designed to identify what action(s), consistent with federal, state and local laws, LAWA could take to encourage those airlines to provide increased domestic service at other airports in the region, particularly those owned or operated by LAWA.

~~**I. Conceptual Design Guidelines.** Prior to initiation of design of new central terminals; the ITC; the RAC; or the GTC, LAWA shall (a) prepare and present to the BOAC for its action, LAX Conceptual Design Guidelines; and (b) consider the feasibility of conducting an architectural design competition with a goal of producing world class architectural design for the buildings and make its recommendation on a competition to the BOAC.~~

~~**IJ. LAX Master Plan Stakeholder Liaison.** The LAX Master Plan Stakeholder Liaison shall communicate with the stakeholders on Master Plan issues. The LAX Master Plan Stakeholder Liaison shall ensure that notice is provided to the stakeholders at the earliest reasonable time of initiation of Projects and any LAX-Specific Plan Amendment Study.~~

## **Sec. 8. LAND USE.**

**A. Designation of Sub-Areas.** The Specific Plan is divided into three Sub-Areas, as shown on Map 2. The Sub-Areas are designated as: Airport Airside, Airport Landside, and LAX Northside.

**B. Unified Development.** For purposes of applying building ordinances and regulations, as well as the regulations of this Specific Plan, to the Airport Airside and Airport Landside Sub-Areas, these areas may be treated as a unified development (or unified developments).

1. A unified development shall mean an area or development that:

(a) has a combination of functional linkages, such as pedestrian or vehicular connections; and

(b) is composed of two or more contiguous parcels or lots of record, except where divided by a public street (or streets).

2. Before applying building ordinances and regulations to any area or development within the Airport Airside and Airport Landside Sub-Areas, the Department of Building and Safety shall determine whether or not the area or development is a unified development, or part of a unified development, as defined in this subsection. The following provisions may be applied to any area or development determined to be a unified development:

(a) **Location of Parking Area.** Notwithstanding LAMC Section 12.21 A 4(g), parking to serve the area or development may be located at any location within the Airport Airside and Airport Landside Sub-areas. Further, the provisions of LAMC Section 12.26 E 5 shall not apply;

(b) **Floor Area Ratio (FAR).** The total buildable area of all parcels may be used to determine FAR;

(c) **Building Site.** Construction of a building and/or structure may be across common interior property lines;

(d) **Driveways, Entry/Exiting, and Drainage.** Driveway access, building entry and exiting, and drainage may be across common interior property lines;

(e) **Fire Resistance and Opening Protection of Exterior Walls.** The requirements for fire resistance and opening protection of exterior walls are not applicable to the common interior property lines. The property line abutting public roadways or adjacent to properties outside of the boundaries of the unified development is not a common interior property line;

(f) **Construction and Maintenance.** The construction and maintenance of all buildings, structures, and site improvements within each unified development shall be in accordance with all building ordinances and regulations that would otherwise be applicable if the buildings, structures, and improvements were located on or within a single lot.

**C. Yard and Setback Regulations.** Notwithstanding the provisions set forth in the LAMC, no front, side, or rear yards or building setbacks are required in the Airport Airside or Airport Landside Sub-Areas. Landscape buffers shall be consistent with any street frontage and landscape guidelines as may be required by the LAX Plan and adopted by BOAC. These landscape buffers shall not be measured from lot lines, but

rather from perimeter roadways or as specified otherwise in any adopted street frontage and landscape guidelines. Development in the LAX Northside Sub-Area shall provide setbacks and landscape buffers as specified in Appendix A.

## **Sec. 9. AIRPORT AIRSIDE SUB-AREA.**

**A. Purpose.** To allow for the safe and efficient operation of airport airfield activities. Aircraft are permitted to operate under power in this Sub-Area, except as prohibited in Subsection D below.

**B. Permitted Uses.** The following uses shall be permitted in the Airport Airside Sub-Area, also designated as the LAX-A Zone, within the Specific Plan Area, subject to approval by the Executive Director:

1. All of the uses permitted in the C2 Zone, as specified in LAMC Section 12.14, including, but not limited to:
  - (a) Airline clubs, retail uses, and restaurants;
  - (b) Aviation school;
  - (c) Establishments for the sale and service of alcoholic beverages for on-site and off-site consumption if permitted by the LAMC;
  - (d) Incidental retail uses – permanent or temporary retail uses, which may include kiosks and carts; and
  - (e) Surface and structured parking lots (including those at-grade, above-grade, and subterranean).
  
2. All of the uses permitted in the M2 Zone, as specified in LAMC Section 12.19, including, but not limited to:
  - (a) Aircraft under power;
  - (b) Airline catering and food preparation;
  - (c) Airline maintenance and support, including but not limited to storage, aircraft engine or airframe repair and testing, and aircraft maintenance shops;
  - (d) Air Cargo Facilities;
  - (e) Commercial Passenger Vehicle Staging and Holding Area;
  - (f) Fixed-Base Operators;
  - (g) Helicopter operations, including but not limited to helicopter landings and take-offs, helipads, heliports, and helistops;
  - (h) Navigational Aids and any other equipment mandated by the FAA, TSA, or any other governmental agency;
  - (i) Run-up Enclosures;
  - (j) Runways, Taxiways, aircraft parking aprons, and service roads; and
  - (k) Passenger handling facilities, including but not limited to baggage handling and processing, passenger holdrooms, boarding gates, ticketing, and passenger check-in functions.

3. In addition, the following uses shall be permitted:

- (a) Aggregate/asphalt grinding and recycling facility;
- (b) Airport police fire arms training facility;
- (c) Aircraft rescue, fire fighting and training facilities;
- (d) Automated People Mover System, its stations and related facilities;
- (e) CNG/LNG stations, central utility plant, and other fueling and energy sources;
- (f) Fuel Farm;
- (g) Hazardous waste storage;
- (h) Hydrogen cell;
- (i) Oil drilling for remediation purposes only;
- (j) Security-related equipment and facilities;
- (k) Surface water runoff treatment plant;
- (l) Uses customarily incident to any of the above uses, and accessory buildings or uses;
- (m) Uses and operations determined to be of a similar nature, or deemed necessary for the safe and efficient operation of the airport, by the Executive Director; and
- (n) All uses requiring a Conditional Use Permit pursuant to LAMC Section 12.24.

**C. Prohibited Uses.**

The following uses shall be prohibited within the LAX-A Zone:

Any building containing dwelling units.

**D. Imperial Terminal Area.** The Imperial Terminal Area is the approximately 42.5-acre area north of Imperial Highway between Main Street and California Street, as shown on Map 2. In this area, aircraft maneuvering may be conducted by tug and tow procedures. The use regulations, both permitted and prohibited uses, specified in this section for the LAX-A Zone shall apply, except, the following uses shall be prohibited:

- (a) Aircraft under power; and
- (b) Helicopter operations, including but not limited to helicopter landings and take-offs, helipads, heliports, and helistops.

**Sec. 10. AIRPORT LANDSIDE SUB-AREA.**

**A. Purpose.** To allow for the safe and efficient operation of airport facilities, the primary function of which is to provide access to the airport and process passengers. Aircraft are not permitted to operate under power in this Sub-Area.

**B. Permitted Uses.** The following uses shall be permitted in the Airport Landside Sub-Area, also designated as the LAX-L Zone, within the Specific Plan Area, subject to approval by the Executive Director:

1. All of the uses permitted in the C2 Zone, as specified in LAMC Section 12.14, including, but not limited to:
  - (a) Airline clubs, retail uses, and restaurants;
  - (b) Aviation school;
  - (c) Establishments for the sale and service of alcoholic beverages for on-site and off-site consumption if permitted by the LAMC;
  - (d) Rental car operations, including but not limited to vehicle maintenance and car washing;
  - (e) Incidental retail uses – permanent or temporary retail uses, which may include kiosks and carts; and
  - (f) Surface and structured parking lots (including those at-grade, above-grade, and subterranean).
  
2. All of the uses permitted in the M2 Zone, as specified in LAMC Section 12.19, including, but not limited to:
  - (a) Airline catering and food preparation;
  - (b) Airline maintenance and support, including but not limited to storage, aircraft engine or airframe repair and testing, and aircraft maintenance shops;
  - (c) Air Cargo Facilities;
  - (d) Commercial Passenger Vehicle Staging and Holding Area;
  - (e) Helicopter operations, including but not limited to helicopter landings and take-offs, helipads, heliports, and helistops;
  - (f) Navigational Aids and any other equipment mandated by the FAA, TSA, or any other governmental agency;
  - (g) Passenger handling facilities, including but not limited to baggage handling and processing, passenger holdrooms, boarding gates, ticketing, and passenger check-in functions; and
  - (h) Service roads.
  
3. In addition, the following uses shall be permitted:
  - (a) Passenger pick up and drop off areas;
  - (b) Automated People Mover System, its stations and related facilities;
  - (~~cb~~) CNG/LNG stations, central utility plant, and other fueling and energy sources;
  - (~~de~~) Security-related equipment and facilities;
  - (~~ed~~) Uses customarily incident to any of the above uses, and accessory buildings and uses;

- (fe) Uses and operations determined to be of a similar nature, or deemed necessary for the safe and efficient operation of the airport, by the Executive Director; and
- (gf) All uses requiring a Conditional Use Permit pursuant to LAMC Section 12.24.

### C. Prohibited Uses.

The following uses shall be prohibited within the LAX-L Zone:

- (a) Aircraft under power; and
- (b) Any building containing dwelling units.

### Sec. 11. LAX NORTHSIDE SUB-AREA.

**A. Purpose.** To provide for the redevelopment of land previously used for residential purposes with uses that are consistent with airport needs and neighborhood conditions. This Sub-Area serves as an airport buffer zone for the Westchester community.

**B. General.** The LAX Northside Sub-Area has fifteen areas – Areas 1, 2, 3, 4A, 4B, 5 through 11, 12A, 12B and 13 – as shown on Map 3.

**C. Relationship to Ordinance No. 159,526.** The LAX Northside Sub-Area, also designated as the LAX-N Zone, is comprised of property previously entitled under Ordinance No. 159,526. The limitations, including permitted uses, requirements and conditions of development in Ordinance No. 159,526 are incorporated into the Specific Plan as Appendix A. The requirements in Appendix A shall apply to all development in this Sub-Area.

**D. Project Permit Compliance Review.** The Project Permit Compliance Review procedures set forth in LAMC Section 11.5.7 C shall apply to all projects in the LAX Northside Sub-Area.

**E. Design Plan and Guidelines.** In addition to Appendix A, projects shall comply with the “Design Plan and Guidelines for LAX Northside” by Albert C. Martin and Associates, dated April 20, 1989, and any amendment adopted by BOAC after that date.

**F. Area 13.** Notwithstanding the provisions of Subsections C and E above, the requirements in Appendix A and the "Design Plan and Guidelines for LAX Northside" by Albert C. Martin and Associates, dated April 20, 1989, shall not apply to Area 13 of the LAX Northside Sub-Area. Area 13 shall be used for recreational facilities and other public benefit type uses, including child care, children's play area, picnic amenities, athletic fields, parks, libraries, etc.

### Sec. 12. TRANSPORTATION REGULATIONS.

## **A. Right-of-Way Dedications.**

1. Right-of-way dedications, or any similar grant of rights to use land for public street purposes, shall be made for any public streets to the satisfaction of the LADOT General Manager and the City Engineer. All dedications shall be in conformance with City of Los Angeles standard street dimensions, unless deemed unwarranted by the LADOT General Manager and the City Engineer based on any environmental review and/or traffic analyses. The LADOT General Manager and the City Engineer may also allow variations from dedications to standard street dimensions if the variation is necessary to assure proper integration of a dedication into existing on-site conditions. The following public roadways within the Specific Plan Area are designated as major or secondary highways:

- (a) 96th Street
- (b) 111th Street
- (c) Airport Boulevard
- (d) Aviation Boulevard
- (e) Bellanca Avenue
- (f) Century Boulevard
- (g) Fallmouth Avenue
- (h) Imperial Highway
- (i) La Cienega Boulevard
- (j) La Tijera Boulevard
- (k) Lincoln Boulevard
- (l) Pershing Drive
- (m) Sepulveda Boulevard
- (n) Westchester Parkway/Arbor Vitae Street

2. The use of airspace above a public street shall be permitted so long as the surface elements of that street may be maintained for street purposes.

3. Any roadway within the Airport Airside and Airport Landside Sub-Areas, which is not already designated as a public street, may be designated as an internal airport roadway. The LADOT General Manager's authority in the design of these roadways shall be advisory only, except that the intersection of these roadways with public streets shall be to the satisfaction of the LADOT General Manager and the City Engineer. Maintenance of internal airport roadways shall be the responsibility of LAWA.

**B. Required Traffic Improvements - Airport Airside and Airport Landside Sub-Areas Only.** A transportation improvements phasing plan shall be prepared by LAWA and approved by the LADOT General Manager that is in conformance with the LAX Plan and the certified Master Plan FEIS/EIR, and includes all on-site and off-site improvements as required by the LADOT General Manager. Revisions may be made to the transportation improvements phasing plan in conformance with any subsequent

environmental review, or where appropriate, as determined by the LADOT General Manager.

Transportation improvements shall be constructed or suitably guaranteed to the satisfaction of the LADOT General Manager and the City Engineer in connection with individual Projects or development sites as specified in the transportation improvements phasing plan. Prior to the issuance of any final certificate of occupancy in the final phase of the transportation improvements phasing plan, all required improvements in the entire phasing plan shall be funded, completed, or resolved to the satisfaction of the LADOT General Manager. If a proposed traffic mitigation measure does not receive the required approval, a substitute mitigation measure may be provided subject to approval by the LADOT General Manager, or other governing agency with jurisdiction over the mitigation location, upon demonstration that the substitute measure is equivalent or superior to the original measure in mitigating the Project's significant traffic impact.

### **C. Project Trip Generation.**

1. In an effort to monitor traffic impacts and traffic mitigation measures, LADOT and LAWA shall jointly conduct traffic counts or otherwise determine the traffic impacts of Projects within the Master Plan. The conclusions of these counts and other determinations shall be incorporated into a traffic generation report, which shall be approved by the LADOT General Manager and annually submitted to BOAC, City Council, and the Department of City Planning.

The Master Plan FEIS/EIR forecasts the net new Trips at full build out of the Master Plan, after implementation of mitigation measures, to be no more than 8,236 at airport peak hour. If the annual traffic generation report described above, and/or the annual traffic generation report considered together with any Project-specific traffic study, shows that development of the Master Plan is likely to increase the Trips beyond 8,236, LAWA shall complete the Specific Plan Amendment Study required in Section 7 H of this Specific Plan.

No Specific Plan Amendment Study shall be required if the annual traffic generation report, and/or the annual traffic generation report considered together with any Project-specific traffic study, determines that the net new Trips are anticipated to exceed 8,236 in the airport peak hour, but this increase in Trips will only be temporary until the Project(s) and associated mitigation measures are complete and/or if this increase in Trips is consistent with the number of Trips anticipated to occur during the peak year of traffic impacts as analyzed in the Master Plan FEIS/EIR. In this case, the traffic generation report shall evaluate the effectiveness of future Projects and mitigation measures in ultimately reducing the number of net new Trips to 8,236 in the airport peak hour at build-out of the Master Plan and any LAX Plan Compliance approval for a Project shall include any conditions necessary to ensure the ultimate reduction. If Trip reduction program measures are recommended, LAWA shall include in future annual reports an analysis of the on-going effectiveness of those measures and,

if the Trip reductions are not effectuated, additional measures may be implemented and/or a Specific Plan Amendment Study may be triggered.

**2. LAX Northside Sub-Area.** As part of the annual traffic generation report, the number of Trips generated by each project shall be documented so that the total number of Trips generated by on-going development is monitored and reviewed by the LADOT General Manager for consistency with the maximum allowable number of a.m. and p.m. peak Trips. LADOT and LAWA shall agree on procedures for this documentation. These counts shall be taken at the expense of the Applicant.

A reduction in the total number of Trips permitted to be generated by development in the LAX Northside Sub-Area, from that which was approved for this area under previous entitlements, is required as a result of the LAX Plan and shall be imposed by way of this Specific Plan.

All projects within the LAX Northside Sub-Area together shall not generate more than 3,922 project-related Trips in the a.m. peak hour (part of the total 6,496 net new a.m. peak hour Trips for the LAX Master Plan) and 4,421 project-related Trips in the p.m. peak hour (part of the total 6,914 net new p.m. peak hour Trips for the LAX Master Plan). The number of Trips generated by a project shall be based on the trip generation rates used in Ordinance No. 168,999 (Coastal Transportation Corridor Specific Plan (CTCSP)) and/or determined appropriate by the LADOT General Manager and on square footages of the proposed project. In conjunction with each application for Project Permit Compliance Review for a project within the LAX Northside Sub-Area, the Applicant shall estimate the number of Trips generated by each project and submit the estimate to the LADOT General Manager for review and approval. This subsection shall not apply to development within Area 13 as shown on Map 3.

**D. Automated People Mover System.** The APM shall be optimally designed and constructed to minimize disruption and vehicle delay on the public roadway and transit system, and shall be elevated above street level wherever possible to minimize at-grade crossing points with public roadways. LAWA shall consult with the LADOT General Manager and the City Engineer early in the design process of the APM.

Any rules and regulations of the Public Utilities Commission of the State of California governing the APM, including but not limited to its design, operation, and maintenance, shall supersede any other provision of this Specific Plan and any building or zoning ordinances to the contrary.

## **Sec. 13. PARKING REGULATIONS.**

### **A. Requirements – Airport Airside and Airport Landside Sub-Areas Only.**

1. Notwithstanding LAMC Section 12.21 A 4, no more than ~~35,712~~32,155 off-street parking spaces shall be provided at build-out of the LAX Master Plan for passengers, visitors, and airport and airline employees. Parking shall be comprised of short-term, long-term, and employee parking spaces.
2. Notwithstanding LAMC Section 12.21 A 4 (g), parking may be located at any location within the Airport Airside and Airport Landside Sub-Areas.
3. Subsections 1 and 2 above shall not apply to off-street parking for visitors and employees of cargo-only facilities and commercial/industrial buildings located within the area bounded by Century Boulevard, Aviation Boulevard, Imperial Highway and Sepulveda Boulevard, and the area west of Sepulveda Boulevard and north of Imperial Highway. Off-street parking for these cargo-only facilities and commercial/industrial buildings shall be provided in compliance with the provisions of LAMC Section 12.21 A 4 (c). The Executive Director may also permit two or more of these uses to share off-street parking spaces, if the Executive Director determines that a lower total number of parking spaces than would otherwise be required will provide adequate parking for these uses.

**B. Requirements – LAX Northside Sub-Area Only.** All projects within the LAX Northside Sub-Area shall provide off-street parking as specified in Appendix A and the “Design Plan and Guidelines for LAX Northside” by Albert C. Martin and Associates, dated April 20, 1989, and any amendment adopted by BOAC after that date.

## **Sec. 14. SIGN REGULATIONS.**

**A. General Requirements.** The Department of Building and Safety shall issue sign permits for any signs otherwise requiring a permit pursuant to Article 6, Chapter IX of the LAMC that are regulated by this Specific Plan. All signs and sign support structures that are erected and maintained on property owned or controlled, in whole or in part, by LAWA shall be reviewed by the Department of Building and Safety pursuant to LAMC Sections- ~~14.4.1, 14.4.2, 14.4.3, 14.4.4 A – 14.4.4 I, 14.4.11 C – 14.4.11 E, 14.4.12 F, 14.4.15, 14.4.16 A, 14.4.16 C, 14.4.16 E, 14.4.18 H, 14.4.18 I, 14.4.19, 91.6201.2.1, 91.6201.3, 91.6202, 91.6204, 91.6205, 91.6205.18, 91.6207, 91.6209, 91.6210, 91.6211, 91.6212, 91.6213, and 91.6216~~91.6201, 91.6202, 91.6203, 91.6205.1 – 91.6205.4, 91.6205.7 – 91.6205.18, 91.6206, 91.6207.3, 91.6208.6, 91.6209.6, 91.6210.6, 91.6211.3 – 91.6211.6, 91.6212.6, 91.6213.5, 91.6215.2 – 91.6215.4, 91.6216.1 – 91.6216.2, 91.6216.4, 91.6217.2, 91.6218.1, 91.6218.8 – 91.6218.9, and 91.6219. The Executive Director shall review signs for conformance with all other sign provisions of Article 4.4, Chapter 1 and Article 6, Chapter IX of the LAMC and provide a written approval to the Department of Building and Safety prior to issuance of any sign permit. Types of signs identified in this Specific Plan are defined in LAMC Section ~~91.6203~~14.4.2. Where materials for signs are not specified in the LAMC, materials shall be approved by the Departments of Building and Safety and Fire. Except for Subsections E and F, the provisions of this Section shall apply only to signs within the Airport Airside and Airport Landside Sub-Areas.

**B. Area, Location, Spacing and Height and Review Procedure.** Signs shall not be subject to the LAX Plan Compliance Review procedure, but shall be reviewed and approved by the Executive Director prior to issuance of any permit for, or installation of, a sign or sign support structure.

Prior to approving any sign, the Executive Director shall determine if the proposed sign is in conformance with the sign guidelines adopted by BOAC. If the adopted guidelines address area, spacing, location, and height of signs, the Executive Director may only approve a sign if it is consistent with those guidelines. If the guidelines do not address area, spacing, location, and height of signs, then the Executive Director may only approve signs that are consistent with the appropriate area, spacing, location, and height regulations in Article 4.46, Chapter IX of the LAMC.

Prior to approving any sign, the Executive Director, after consultation with LADOT, shall also determine that the sign is not a hazard to traffic nor will it result in unsafe freeway exposure.

**C. Modifications.** Notwithstanding LAMC Section ~~91.6204~~91.6201.6, which authorizes the Board of Building and Safety Commissioners to grant significant modifications from the City's sign regulations, the BOAC shall have this authority for signs.

**D. Off-Site, Supergraphic, and Mural Signs.** Alteration, redesign or replacement of existing off-site signs, or erection, construction or installation of new off-site signs, supergraphic signs, and mural signs shall be permitted pursuant to the establishment of a sign district as set forth in LAMC Section 13.11.

**E. Requirements - LAX Northside Sub-Area Only.** Signs within the LAX Northside Sub-Area shall be in compliance with the requirements set forth in Appendix A and the "Design Plan and Guidelines for LAX Northside" by Albert C. Martin and Associates, dated April 20, 1989, and any amendment adopted by BOAC after that date.

**F. State and Federally Required Signage.** Any signs or sign restrictions mandated by the FAA, TSA, or any other State or Federal regulatory agency shall supersede any other provision of this Specific Plan to the contrary.

**Sec. 15. SEVERABILITY.** If any provision of this Specific Plan or its application to any person or circumstance is held to be unconstitutional or otherwise invalid by any court of competent jurisdiction, the invalidity shall not affect other Specific Plan provisions, clauses or applications, which can be implemented without the invalid provision, clause or application, and to this end the provisions and clauses of this Specific Plan are declared to be severable.

**Sec. 16.** The City Clerk shall certify to the passage of this ordinance and have it published in accordance with Council policy, either in a daily newspaper circulated in the City of Los Angeles or by posting for ten days in three public places in the City of Los Angeles: one copy on the bulletin board located in the Main Street lobby to the City

Hall; one copy on the bulletin board located at the ground level at the Los Angeles Street entrance to the Los Angeles Police Department; and one copy on the bulletin board located at the Temple Street entrance to the Los Angeles County Hall of Records.

I hereby certify that this ordinance was passed by the Council of the City of Los Angeles, at its meeting of \_\_\_\_\_.

JUNE LAGMAY, City Clerk

By \_\_\_\_\_  
Deputy

Approved \_\_\_\_\_

\_\_\_\_\_  
Mayor

Approved as to Form and Legality

\_\_\_\_\_, City Attorney

By \_\_\_\_\_

Pursuant to Charter Section 559, I approve this ordinance on behalf of the City Planning Commission and recommend it be adopted . . . .  
September , 2004  
See attached report

Date \_\_\_\_\_

\_\_\_\_\_  
Michael J. LoGrande  
Director of Planning

File No. \_\_\_\_\_

## APPENDIX A

### Requirements for Development within the LAX Northside Sub-Area

1. The subject property shall be used for those principal and accessory uses in development areas as indicated on Map 3, as follows:
  - a. Area East of Lincoln Boulevard
    - Area 8 – Commercial uses, including office and restaurant uses; and automobile service station.
    - Area 9 – Commercial uses, including office and restaurant uses; automobile service station in the western portion only; public automobile parking in the eastern portion only; and an airport view site.
    - Area 10 – Public automobile parking.
    - Area 11 – Commercial uses, including hotel, office, restaurant, service and retail uses and a movie theater complex.
    - Area 12A – Commercial uses, including offices, hotel, restaurant, service and retail uses.
    - Area 12B – A commercial golf course, including golf driving tees and ranges and similar commercial golf uses.
  - b. Area Between Lincoln Boulevard and Falmouth Avenue (Extended)
    - Area 2 – Offices, business park and research and development center.
    - Area 3 – Commercial uses, including hotel, offices, restaurant, service and retail uses.
    - Area 4B – Light industrial uses, airline and airport support services, including flight kitchens, caterers, ticket reservation centers, custom house brokers, warehouse, airport maintenance and ground services (excluding engine shops), freight forwarders, package delivery services, security services, import/export services and other similar accessory or support services; business park and research and development center; and offices within 400 feet west of the prolongation of Loyola Boulevard on the south side of Westchester Parkway.
    - Areas 5, 6 and 7 – Offices, business park and research and development center; airport view site; airline and airport support and accessory uses.
  - c. Area West of Falmouth Avenue (Extended)
    - Area 1 – Offices, business park and research and development center.
    - Area 4A – Light industrial uses, airline and airport support services, including flight kitchens, caterers, ticket reservation centers, custom house brokers, warehouse, airport maintenance and ground services (excluding engine shops), freight forwarders, package delivery services, security services, import/export services and other similar accessory or support services; business park and research and development center; and offices within 400 feet east of Pershing Drive on the south side of Westchester Parkway.

2. No aircraft or engine run-ups shall be permitted within the project boundaries.
3. The height of structures shall be controlled as follows:
  - a. Area 2 – No structure located within 100 feet of the north airport property line between Loyola Boulevard and Hastings Avenue shall exceed three stories (including parking levels) or 45 feet in height measured from the finished grade of the lot. All accessory facilities on the roofs of such buildings, such as air conditioning units and other equipment, shall not be visible from nearby residential properties to the north and are exempted from the height restriction.
  - b. Areas 1 and 4A – No structures located within 200 feet of the north airport property line between Falmouth Avenue and Pershing Drive shall exceed three stories (including parking levels) or 45 feet in height measured from the finished grade of the lot. No structure located within Areas 1 or 4A south thereof, shall exceed four stories (including parking levels) or 55 feet in height measured from the finished grade of the lot. All accessory facilities on the roofs of buildings within Area 1, such as air conditioning units and other equipment, shall not be visible from nearby residential properties to the north and are exempted from the height restriction.
4. Structures shall observe minimum setbacks, as follows:
  - a. Area 2 – all structures shall observe a minimum setback of 50 feet from the north airport property line between Loyola Boulevard and Hastings Avenue. Open parking areas are permitted within the required building setback area, except as may be modified by required landscape buffer setbacks.
  - b. Area 1 – All structures shall observe a minimum setback of 100 feet from the north airport property line between Falmouth Avenue and Pershing Drive. Open parking areas are permitted within the required building setback area, but not within the required landscape buffer setback.
5. Landscaped buffer setbacks shall be required as follows:
  - a. Areas 11 and 12A – A 30-foot-wide landscaped buffer setback along 88<sup>th</sup> Street between Sepulveda Westway and Liberator Avenue shall be required containing no buildings or structures, except for walls or fences and include trees, 15 gallons and 10 feet tall at the time of planting, planted at a maximum of 30 feet apart, of a type similar to those contained in Section 7 of the Planning Department’s Technical Report on “Shrubs and Trees for Landscaping and Screening”. Further, a 15-foot-wide landscaped buffer setback along Liberator Avenue and 88<sup>th</sup> Place

(adjacent to the Emerson Manor School site) shall be required and include a dense screen of closely planted evergreen trees.

- b. Area 2 – A 15-foot-wide landscaped buffer setback along Cum Laude Avenue and 92<sup>nd</sup> Street (adjacent to the St. Bernard High School site) shall be required and include a dense screen of closely planted evergreen trees.
  - c. Area 1 – A 50-foot-wide landscaped buffer setback along the north airport property line between Falmouth Avenue and Pershing Drive shall be required and include low, minimum-view-obstructing shrubs and ground cover (no trees) which are compatible, where appropriate, with adjacent off-airport landscaping.
6. Prior to the issuance of building permits, an on-site roadway/highway construction phasing plan and individual parcel access plan shall be submitted to the Department of City Planning for approval and for coordination and review with LADOT and the Bureau of Engineering.
  7. Prior to the recordation of a final tract map covering all or any portion of the subject property and prior to the approval of any variance granting use of any portion of the property before recordation of a final tract map, the Board of Airport Commissioners shall cause to be prepared and shall approve a project design plan, together with developmental guidelines for the entire project area. The primary purposes of the design plan and guidelines shall be to provide future developers with a unifying theme and design handbook and to provide the Department of Airports with a basis for reviewing and coordinating project development plans. The project design plan shall establish a unifying architectural theme, while the elements of the developmental guidelines shall include consideration of: Building design, height, bulk, locations and interrelationships; building materials, colors and textures; public and private area landscaping; public and private signage and graphics; airport view sites; street furniture; exterior lighting; internal pedestrian and vehicular circulation; parking area design; on- and off-airport interfaces; and other design considerations as may be appropriate. The project design plan and developmental guidelines shall be governed by the conditions of approval attached to this change of zone, wherever relevant.
  8. The project design plan and developmental guidelines shall treat Area 11, as a single comprehensive planned unit, providing a compatible interface with the existing and potential future uses on the privately owned property adjoining the east side of Sepulveda Westway between La Tijera Boulevard and Will Rogers Street. Convenient pedestrian access to Area 11 shall be provided from Sepulveda Westway and the Sepulveda Westway frontage shall be attractively landscaped. The design of Area 11 shall provide to the extent practicable and

feasible for visual continuity and accessibility between Area 11 and the properties on the east side of Sepulveda Westway.

9. All open areas not used for buildings, driveways, parking areas, recreational facilities or walks shall be attractively landscaped in accordance with a landscape development plan prepared by a licensed landscape architect or licensed architect. Approved copies of such plans shall be submitted to the Department of Building and Safety before issuance of a building permit. All landscaped areas shall be equipped with automatic sprinklers and shall be maintained in a first-class condition at all times. All types of plants selected and required watering systems for such landscaping shall, to the extent possible, conserve water and shall be consistent with any water conservation ordinance enacted by the City.
10. All open parking areas located within Area 1 shall devote at least four percent of the parking area to landscaping, with at least three-fourths of the four percent devoted to interior landscaping distributed throughout the parking area.
11. A 6-foot-high chain link fence shall be provided along the airport property line in the following locations: Along Liberator Avenue and 88<sup>th</sup> Place (adjacent to the Emerson Manor School site in Area 12A); along Cum Laude Avenue and 92<sup>nd</sup> Street (adjacent to the St. Bernard Senior High School site in Area 2); and between Falmouth Avenue and Pershing Drive (along the north boundary of Area 1).
12. A solid 8-foot-high masonry block wall shall be constructed along with north airport property line between Loyola Boulevard and Hastings Avenue (along the north boundary of Area 2) and trees and tall shrubs shall be planted immediately south of the wall on airport property to provide additional visual screening above the wall. The wall shall be installed and measured in height from the finished grade of the alley between Loyola Boulevard and Rayford Drive and from the finished grade of the adjoining residential lots between Rayford Drive and Hastings Avenue.
13. All development on the property shall provide off-street parking on the following basis: One space for each guest room; one space for each 300 square feet of floor area for office use and for business parks and research and development centers; one space for each 250 square feet of floor area for retail and service commercial uses; 16 spaces for each 1,000 square feet of floor area for restaurants; and not less than three stalls for each four employees on the main shift for light industrial uses. Floor area shall mean the area enclosed within the walls of buildings, exclusive of floor area devoted to off-street parking or accessory areas, as defined under Section 12.21-A, 4 of the Municipal Code. The Director of Planning may modify these parking standards where appropriate to permit reduce parking in mixed-use or joint-use facilities.

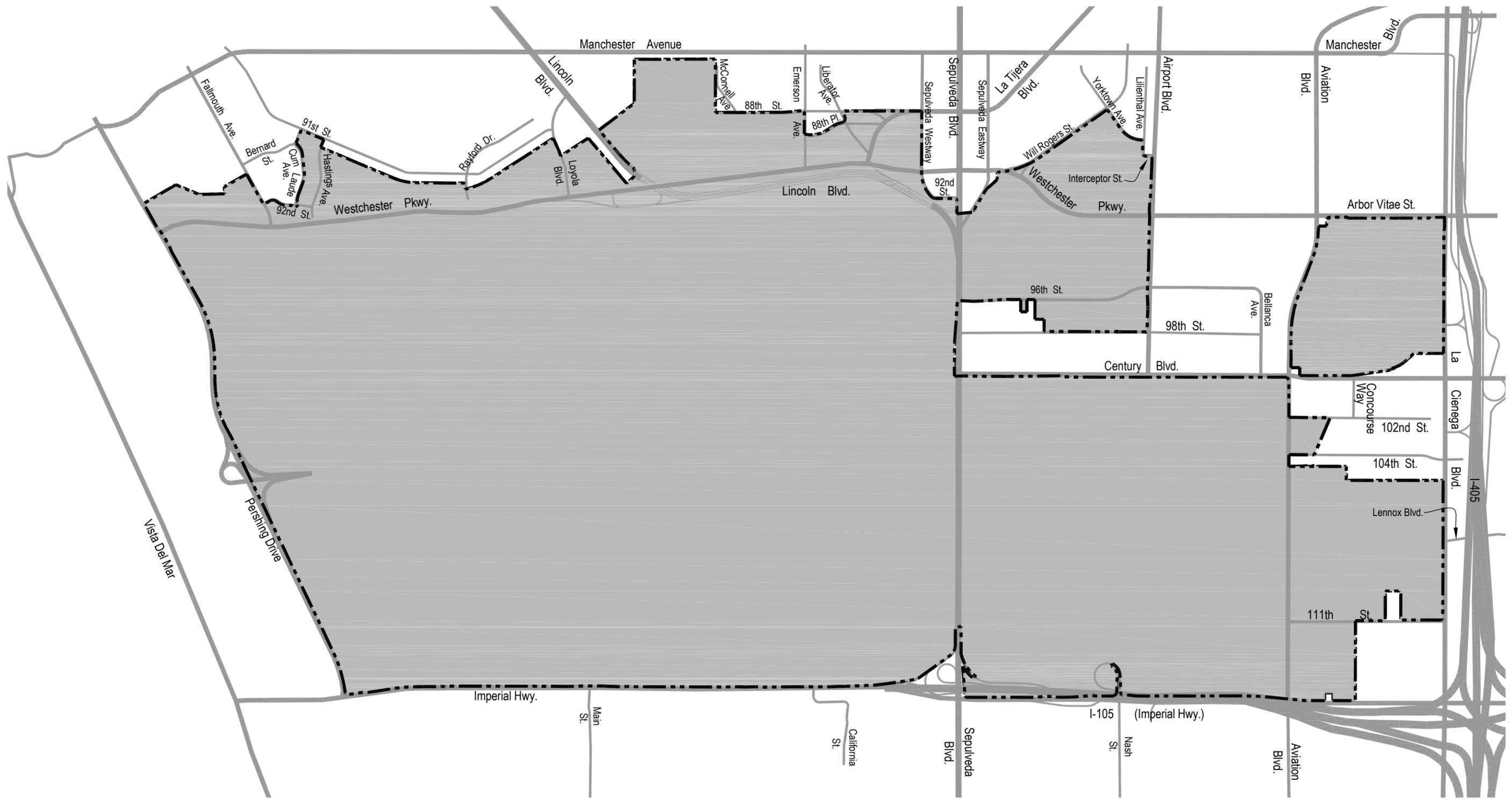
14. The hours of operation for trash pickup or freight deliveries or pickup, within 300 feet of the north boundary line of the project, shall be limited to between 7 a.m. and 9 p.m.
15. Adequate protection against exterior noise shall be included in the design and construction of hotels and motels. Adequate protection shall mean a noise reduction (exterior to interior) sufficient to insure that the interior community noise equivalent level (CNEL) in all habitable rooms does not exceed 45dB during aircraft operations.
16. All central air heating and/or air conditioning units shall be installed with an air filtration system (either charcoal or electronic) to improve the air quality effects on the project occupants. This requirement shall not preclude the installation of operable windows for passive or natural heating or cooling opportunities.
17. The use of any outdoor public address or paging system shall be permitted only south of the Westchester Parkway and shall utilize: (1) a low-pressure speaker system with each speaker having an audible range limited to a 400-square-foot area and placed a maximum of 40 feet apart or (2) a sound system designed by a qualified sound engineer so as to reduce the impulse noise level to inaudibility beyond the premises of the establishment.
18. In Areas 1, 2, 4A, 4B, 5, 6, and 7, all buildings and enclosing walls or fences shall be constructed, the machinery and equipment shall be so installed and maintained and the activities shall be so conducted that all noise, vibration, dust, odor and other objectionable factors shall be confined or reduced to the extent that no reduction in the use of property will result to persons residing adjacent to the subject property. Whenever there is any difficulty in determining the application of these provisions to any specific case, the Department of Building and Safety shall make such determination.
19. All Building Identification Signs shall be designed by the architect of the building or facility. These Building Identification Signs shall be wall signs designed for placement on the face of the proposed building and not projecting above the roof or parapet wall. Except that free-standing Identification or Project Directory Signs not exceed 50 sq. ft. in area on each face and not exceeding 8 ft. in height may be permitted subject to individual review and approval by the Department of Airports.
20. All lighting shall be directed onto the site and no flood-lighting shall be located as to be seen directly by the adjacent residential areas. This condition shall not preclude the installation of low-level security lighting.
21. All buildings within 100 feet of the north airport property line between Loyola Boulevard and Hastings Avenue shall be designed so that all second-story or higher windows that overlook the adjacent single-family residential homes shall

not be transparent below an eye level of 6 feet on any floor, but shall be translucent; or the building shall be designed in such a way that windows will not overlook the single-family residential properties to the north.

22. Vehicular driveway ingress and egress from the subject property shall be prohibited from Cum Laude Avenue and from 92<sup>nd</sup> Street (Area 2); from Lincoln Boulevard between Sepulveda Boulevard and the airport property line north of the Westchester Parkway (Areas 6, 7, 8, 9, 10 and 12A); and from 88<sup>th</sup> Street, Liberator Avenue, 88<sup>th</sup> Place and Emerson Avenue (Area 12A).
23. In Areas 1, 2, 5, 6, and 7, all activities shall be conducted within an enclosed building. Within Areas 4A and 4B, all outdoor activities shall be located on the southerly side of the buildings and screened from public streets.
24. All Utilities within the project shall be installed underground.
25. All development within the project shall contain trash compactors to reduce the volume of solid waste to be removed from the site.
26. LAWA and individual developers shall develop and implement a transportation system and parking management plan which shall include the following as a minimum:
  - a. Individual developers shall encourage public transit use by offering subsidized transit passes to employees.
  - b. The Department of Airports shall evaluate the potential for subscription bus service for large concentrations of employees.
  - c. Each developer employing 500 or more permanent employees shall provide company-owned vans and/or offer subsidies to individual vanpool operators and encourage the formation of vanpools.
  - d. The Department of Airports shall make carpooling information available to building occupants and encourage formation of carpools and vanpools and shall establish a carpool-matching service.
  - e. Individual developers shall develop and implement programs to offer preferential parking to carpooling and vanpooling building occupants.
  - f. The Department of Airports shall make transit schedules, maps and other transit information available to building employees and users.
  - g. To the extent feasible, individual developers shall encourage flexible working hours.

- h. The Department of Airports and each developer employing 500 or more permanent employees shall appoint a rideshare coordinator to administer the functions required by this condition.
- 27. Prior to major grading of the project site, a rodent control effort shall be undertaken to reduce the existing rodent population within the project area.
- 28. Developers of individual projects shall take the following steps relative to energy conservation:
  - a. Consult with the Los Angeles Department of Water and Power and Southern California Gas Company to determine feasible energy conservation features which could be incorporated into the design of structures, beyond those required by State and City laws.
  - b. Utilize, where cost-effective, alternative sources of energy such as solar water and pool heating.
  - c. Utilize the Department of Water and Power's energy pre-audits on all new industrial developments.
- 29. Individual developers shall consult with the Los Angeles Police Department on the provision of security measures for developments, which measures shall include the following at the minimum:
  - a. For each developer responsible for 200,000 or more square feet of total floor area (Los Angeles Municipal Code 12.21.1), guards shall patrol all levels of buildings and access to and from buildings shall be monitored by a guard on duty during nighttime and weekends.
  - b. Subterranean parking levels shall be lighted 24 hours a day.
  - c. All parking levels, corridors and arcades shall be lighted during the nighttime and weekends.
- 30. A qualified archaeologist shall be available, as needed, during site grading and subsurface operations, with the authority to assure reasonable measures to insure protection and recovery of significant archaeological resources.
- 31. All conditions imposed by this action, with the exception of Condition No. 9 relating to a project design plan and development guidelines, may be fulfilled incrementally as individual phases of the subject property are developed.





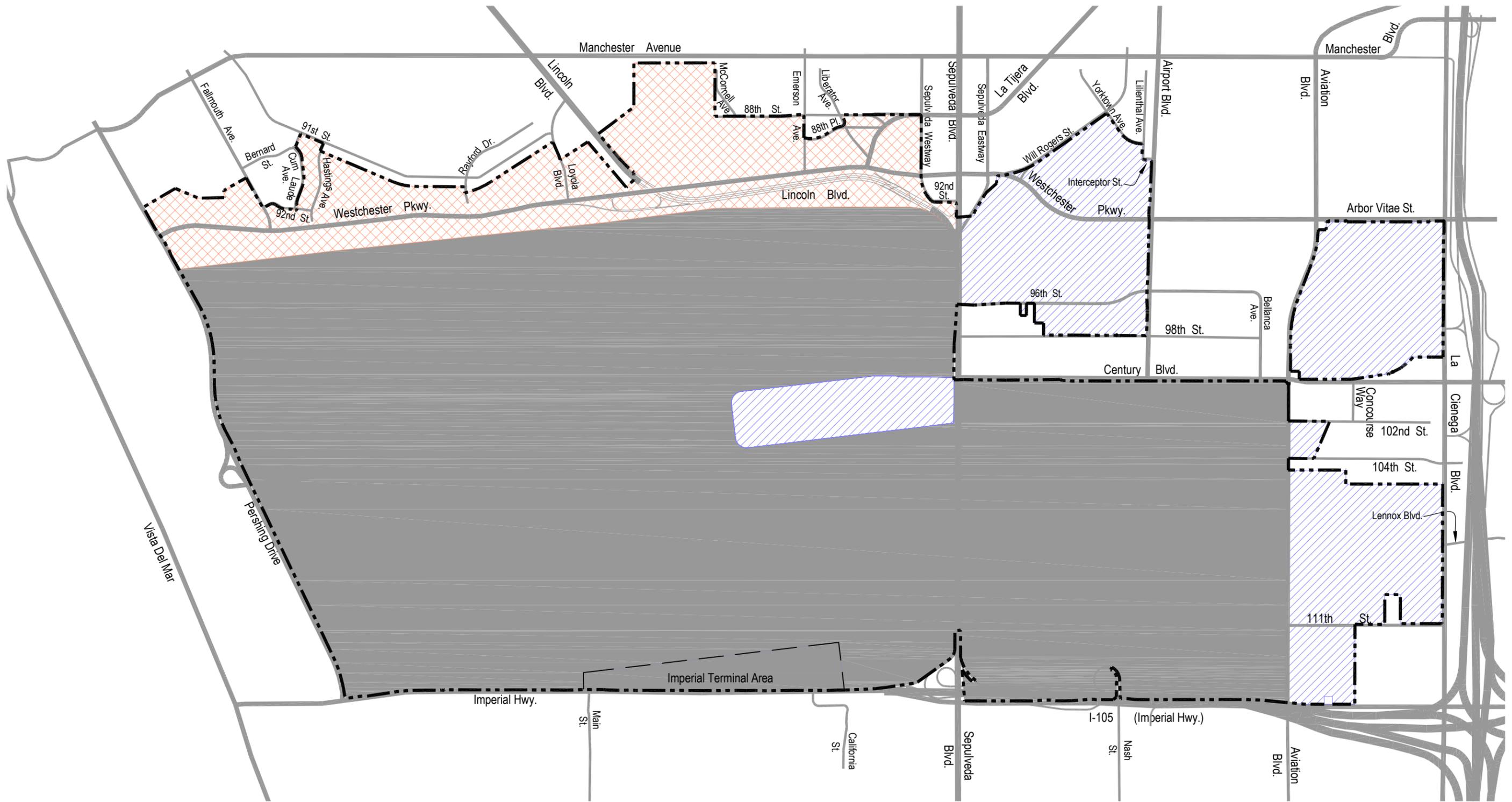
-  LAX Specific Plan Area
-  LAX Specific Plan Boundary

**DRAFT - BASED ON  
STAFF-RECOMMENDED  
ALTERNATIVE**

# LAX Specific Plan







-  LAX - A Zone: Airport Airside Sub-Area
-  LAX - L Zone: Airport Landside Sub-Area
-  LAX - N Zone: LAX Northside Sub-Area
-  LAX Specific Plan Boundary

**DRAFT - BASED ON  
STAFF-RECOMMENDED  
ALTERNATIVE**

# LAX Specific Plan





Draft - February 2013

# **Proposed General Plan Amendments**

**to components of the Los Angeles General Plan  
as related to the Specific Plan Amendment Study**

DRAFT



## Proposed General Plan Amendments

*to components of the Los Angeles General Plan as related to the Specific Plan Amendment Study*

Reference	Former Text	Amendments Previously Adopted under the LAX Master Plan	SPAS Proposed Amendments
<b>I. Westchester-Playa del Rey Community Plan</b>			
Relationship to Los Angeles International Airport (LAX) • (Page III-59)	<b>Relationship to LAX.</b> LAWA is responsible for proposing and formulating LAX development plans and their implementation, subject to approval by the City Council. The LAX development and facilities existing in 2003 were approved under the <i>LAX Interim Master Plan</i> adopted in 1981. However, passenger travel and air cargo demand at LAX have significantly increased in recent years, and LAWA is presently working on a new Master Plan to address the relevant growth and transportation issues to the year 2025.	LAWA is responsible for proposing and formulating LAX development plans and their implementation, subject to approval by the City Council. The LAX development and facilities existing in 2003 were approved under the <i>LAX Interim Plan</i> adopted in 1981. The <i>LAX Plan</i> adopted in 2004 replaces the <i>LAX Interim Plan</i> and addresses airport land use to the year 2015.	LAWA is responsible for proposing and formulating LAX development plans and their implementation, subject to approval by the City Council. The LAX development and facilities existing in 2003 were approved under the <i>LAX Interim Plan</i> adopted in 1981. The <i>LAX Plan</i> adopted in 2004, <u>as amended</u> , <del>replaced</del> <u>replaces</u> the <i>LAX Interim Plan</i> and addresses airport land use to the year <u>2025</u> <del>2015</del> .
Relationship to Los Angeles International Airport (LAX) • Policy 20-3.2 • Program • (Page III-61)	<b>Program.</b> The Plan encourages LAWA to coordinate with local and regional transit agencies and operators to improve public transportation links by increasing express bus line access, consolidating shuttle services, and by improving connections between the Green Line rail system and the airport.	Encourage local and regional transit agencies and operators to improve public transportation links by increasing express bus line access, consolidating shuttle services, and by improving connections between the Green Line rail system and the airport.	Encourage local and regional transit agencies and operators to improve public transportation links by <u>improving</u> <del>increasing</del> <u>express bus line</u> access, consolidating shuttle services, and by improving connections between the <u>Metro</u> <del>Green Line</del> rail system and the airport.
Subarea 1620	<i>South side of W. 96th Street, between Sepulveda Boulevard and Airport Boulevard. Proposed land use designation change from Light Industrial to Regional Center Commercial. Proposed change in corresponding zoning from C2-1 &amp; [Q]M2-1 to C2-2.</i>	This site was incorporated into the LAX Plan and LAX Specific Plan.	A portion of this Subarea (APNs 4124-025-049; 4124-026-900; 4124-027-900, 901, 008, 009, 016, 017, and 029; and 4124-027-030 [partial]) would be put back into the Westchester-Playa del Rey Community Plan to reflect the smaller acquisition area proposed under the staff-recommended SPAS alternative, as compared to the approved LAX Master Plan. General Plan Land Use designations would revert to previous designations under Westchester-Playa del Rey Plan.
Subarea 1640	<i>North side of Century Boulevard between Sepulveda Boulevard and Aviation Boulevard. Proposed change to all C2-2 zoning, addition of "pedestrian bridge" symbol denoting general location of future pedestrian bridge.</i>	This site was incorporated into the LAX Plan and LAX Specific Plan.	APN 4124-026-002 would be put back into the Westchester-Playa del Rey Community Plan to reflect the smaller acquisition area proposed under the staff-recommended SPAS alternative, as compared to the approved LAX Master Plan. General Plan Land Use designations would revert to previous designations under Westchester-Playa del Rey Plan.
Subarea 1660	<i>Southeast corner of Aviation Boulevard and Arba Vitae Street. Change in land use designation from Highway Oriented Commercial to General Commercial. No change in zoning. Legend change.</i>	This site was incorporated into the LAX Plan and LAX Specific Plan.	This Subarea (APN 4128-002-015) would be put back into the Westchester-Playa del Rey Community Plan, as it is not proposed for acquisition under the staff-recommended SPAS alternative. General Plan Land Use designations would revert to previous designations under Westchester-Playa del Rey Plan.

## Proposed General Plan Amendments

*to components of the Los Angeles General Plan as related to the Specific Plan Amendment Study*

Reference	Former Text	Amendments Previously Adopted under the LAX Master Plan	SPAS Proposed Amendments
Subarea 1740	<i>North side of Century Boulevard between Aviation Boulevard and La Cienega Boulevard (Century Corridor). Zone and height district changes from various commercial and parking/height district 1, to C2-2.</i>	This site was incorporated into the LAX Plan and LAX Specific Plan.	A portion of this Subarea (APNs 4128-024-002 and 011) would be put back into the Westchester-Playa del Rey Community Plan to reflect the smaller acquisition area proposed under the staff-recommended SPAS alternative, as compared to the approved LAX Master Plan. General Plan Land Use designations would revert to previous designations under Westchester-Playa del Rey Plan.
Subarea 1760 and adjacent parcel	<i>Southeast corner of Century Boulevard and Aviation Boulevard. Land use designation change from Community Commercial to Regional Center Commercial, with corresponding zone change from M2-1 to C2-2 (including height district change).</i>	This site was incorporated into the LAX Plan and LAX Specific Plan.	A portion of this Subarea (APNs 4129-029-011, 013, 014, 015, 018, 021 thru 024; 4129-033-006, 012, 013, 023, and 024; 4129-034-001, 002, and 011) would be put back into the Westchester-Playa del Rey Community Plan, as it is not proposed for acquisition under the staff-recommended SPAS alternative, as compared to the approved LAX Master Plan. General Plan Land Use designations would revert to previous designations under Westchester-Playa del Rey Plan.
Subarea 1840	<i>Northeast corner of Aviation Boulevard and Imperial Highway.</i>	This site was incorporated into the LAX Plan and LAX Specific Plan.	A portion of this Subarea (APN 4129-037-902) would be put back into the Westchester-Playa del Rey Community Plan to reflect the smaller acquisition area proposed under the staff-recommended SPAS alternative, as compared to the approved LAX Master Plan. General Plan Land Use designations would revert to previous designations under Westchester-Playa del Rey Plan.
Westchester-Playa del Rey Land Use Maps	<i>Maps. Westchester-Playa del Rey Generalized Land Use Map, Index Map, detail maps, and Circulation Map.</i>	This map was amended to show the boundary adjustment with the LAX Plan.	Amend to reflect modifications to the airport boundary associated with the smaller acquisition area under the staff-recommended SPAS alternative.

## Proposed General Plan Amendments

*to components of the Los Angeles General Plan as related to the Specific Plan Amendment Study*

Reference	Former Text	Amendments Previously Adopted under the LAX Master Plan	SPAS Proposed Amendments
<b>III. Transportation Element</b>			
Goals, Objectives & Policies (Between Page IV-8 and IV-9)	Map. Transit Systems Linked To Urban Form	On this map, the boundaries of the LAX airport area were amended, the Green Line extension was incorporated, and Continental City was removed as a Regional Center.	Amend to reflect modifications to the airport boundary associated with the smaller acquisition area under the staff-recommended SPAS alternative. Also amend to reflect the realignment of Lincoln Boulevard, as well as the connector streets between Lincoln Boulevard and Westchester Pkwy.
Transportation Element Maps (Chapter V)	Map A.1. Citywide Highways and Freeways Map	On this map, street classifications were amended pursuant to the <i>LAX Plan</i> , and the portion of Sky Way designated as Freeway/Interchange off Sepulveda was removed.	Amend to reflect the realignment of Lincoln Boulevard.
Transportation Element Maps (Chapter V)	Map A.4. Westside Sub Area Highways and Freeways Map	On this map, street classifications were amended pursuant to the LAX Plan, and the portion of Sky Way designated as Freeway/Interchange off Sepulveda was removed.	Amend to reflect the realignment of Lincoln Boulevard.
Transportation Element Maps (Chapter V)	Map C.1. Freight Movement Map	On this map, the airport boundaries were changed. The location of major truck terminal and truck routes were also confirmed and amendments considered pursuant to the <i>LAX Master Plan</i> .	Amend to reflect modifications to the airport boundary associated with the smaller acquisition area under the staff-recommended SPAS alternative.
Bicycle Plan Maps	Maps. 1. Designated Bikeways 2. Citywide Bikeway System 3. Existing and Funded Bikeways	None, since existing Bicycle Plan was adopted on March 1, 2011.	Amend to reflect modifications to the airport boundary associated with the smaller acquisition area under the staff-recommended SPAS alternative and to reflect the realignment of Lincoln Boulevard, keeping the realigned Lincoln Boulevard as part of the future Backbone Bikeway Network.
<b>IV. Noise Element</b>			
Existing Conditions, Noise Impact Issues, & Noise Management History • Aircraft & Airports (Page 2-23)	<b>Airport Statistics.</b> The airport was located in the middle of a bean field. It rapidly expanded until today it occupies an approximately 3,500-acre site. It has four lighted runways ranging from 8,925 feet to 12,090 feet in length, each of which can accommodate wide-bodied passenger jet aircraft.	The airport was located in the middle of a bean field. It rapidly expanded until today it occupies an approximately 3,900-acre site. It has four lighted runways ranging from approximately 10,420 feet to 12,091 feet in length, each of which can accommodate-new large aircraft (NLA) passenger jet aircraft.	The airport was located in the middle of a bean field. It rapidly expanded until today it occupies an approximately 3,900-acre site. It has four lighted runways ranging from approximately <del>8,925-10,420-</del> feet to 12,091 feet in length, each of which can accommodate new large aircraft (NLA) passenger jet aircraft.
Existing Conditions, Noise Impact Issues, & Noise Management History • Aircraft & Airports (Page 2-23)	<b>LAX Zoning.</b> The majority of the LAX site is classified in the M2 and M3 (manufacturing) zones, which allow airport uses by right.	None	<del>The majority</del> <u>All</u> of the LAX site is classified in the M2 and M3 (manufacturing) LAX zones, which allow <u>permits</u> airport uses <del>by right</del> <u>in accordance with the LAX Specific Plan.</u>

