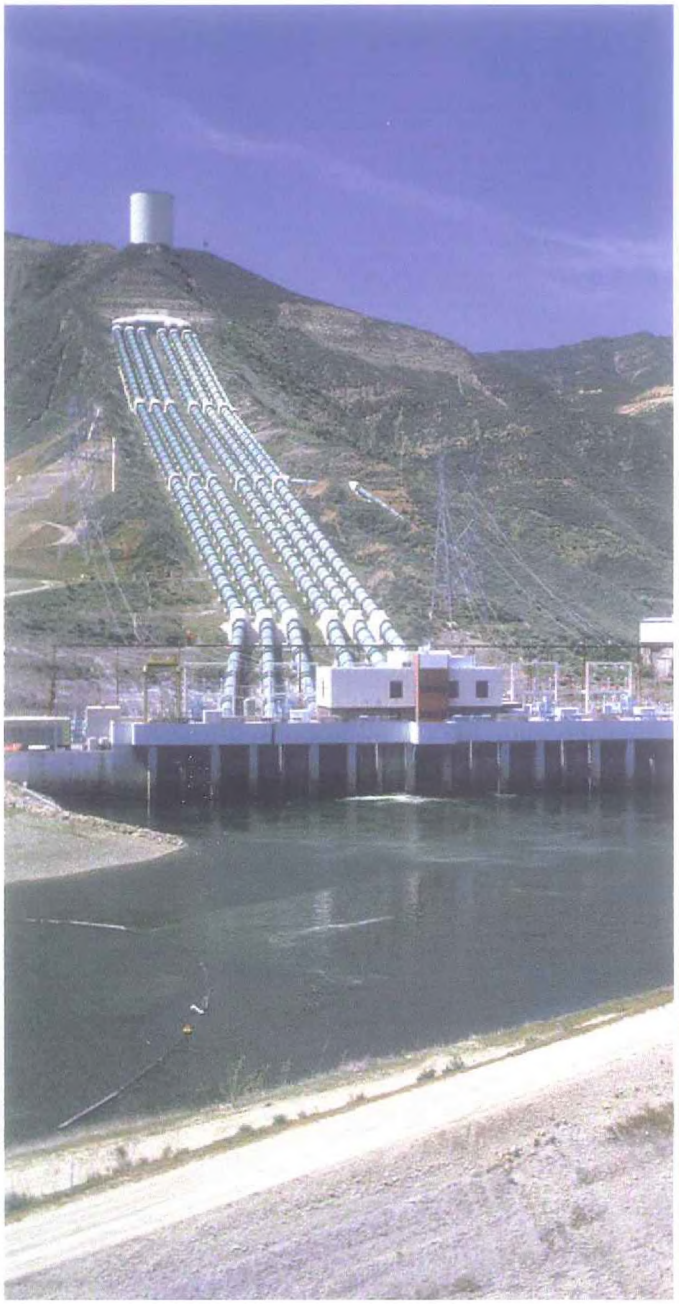
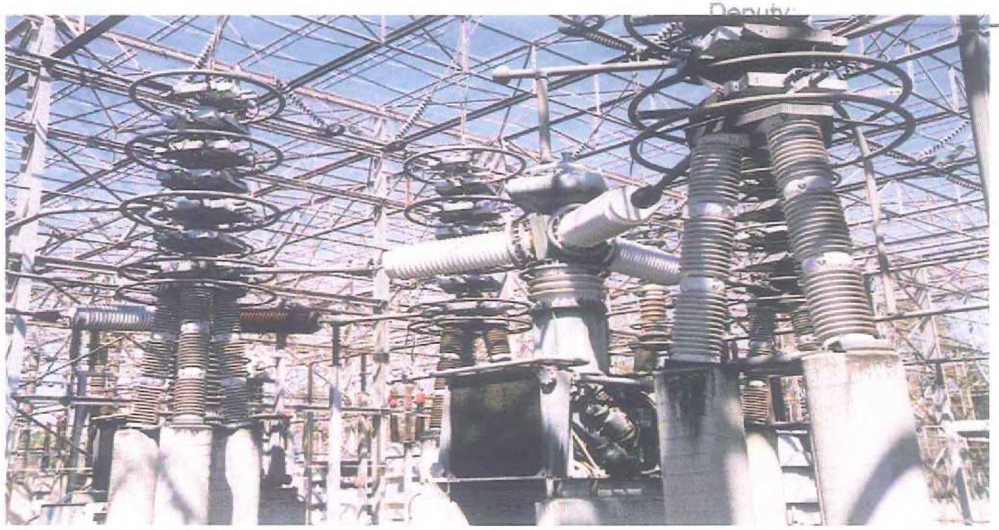
Date: 9-27-11
Submitted in EE Committee
Council File No: 11-1578
Item No. 1
Deputy: LADWP

Los Angeles LA DWP Department of Water & Power

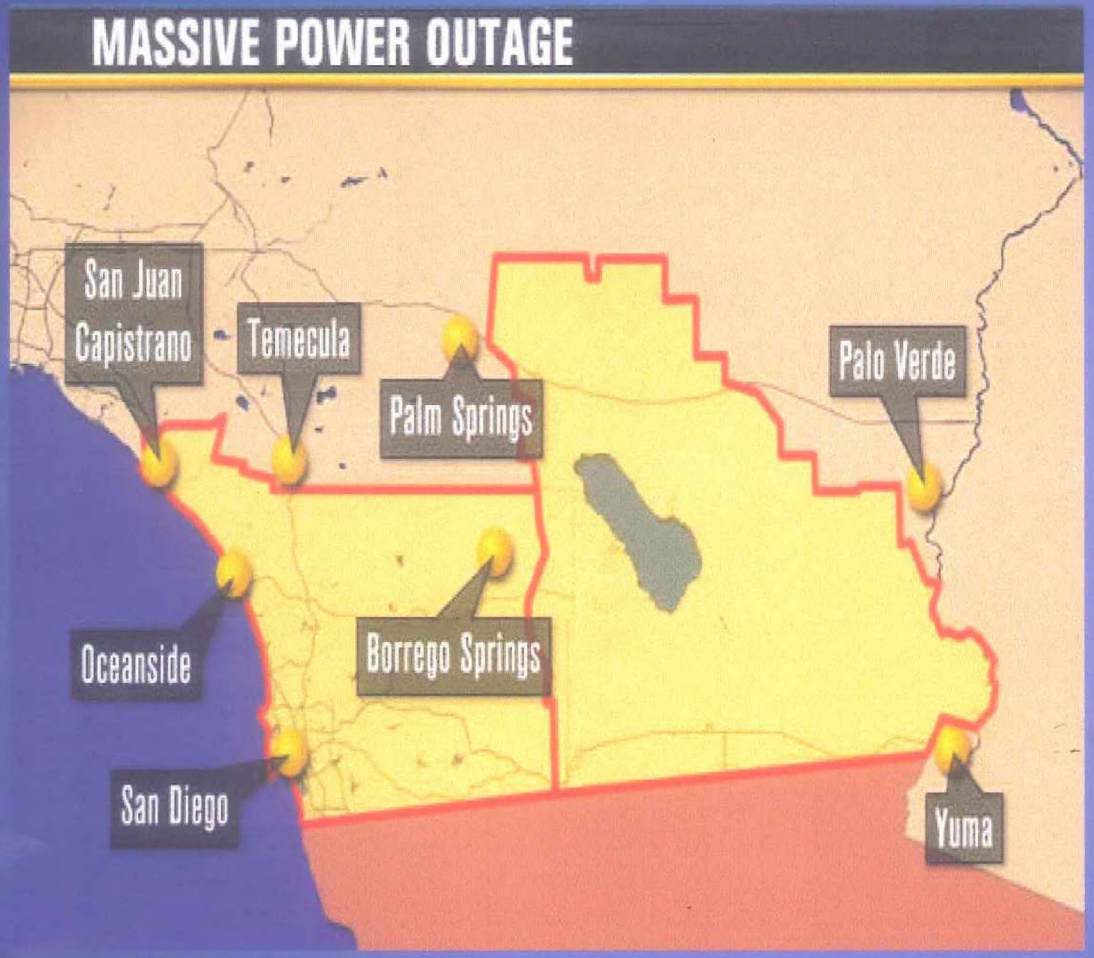




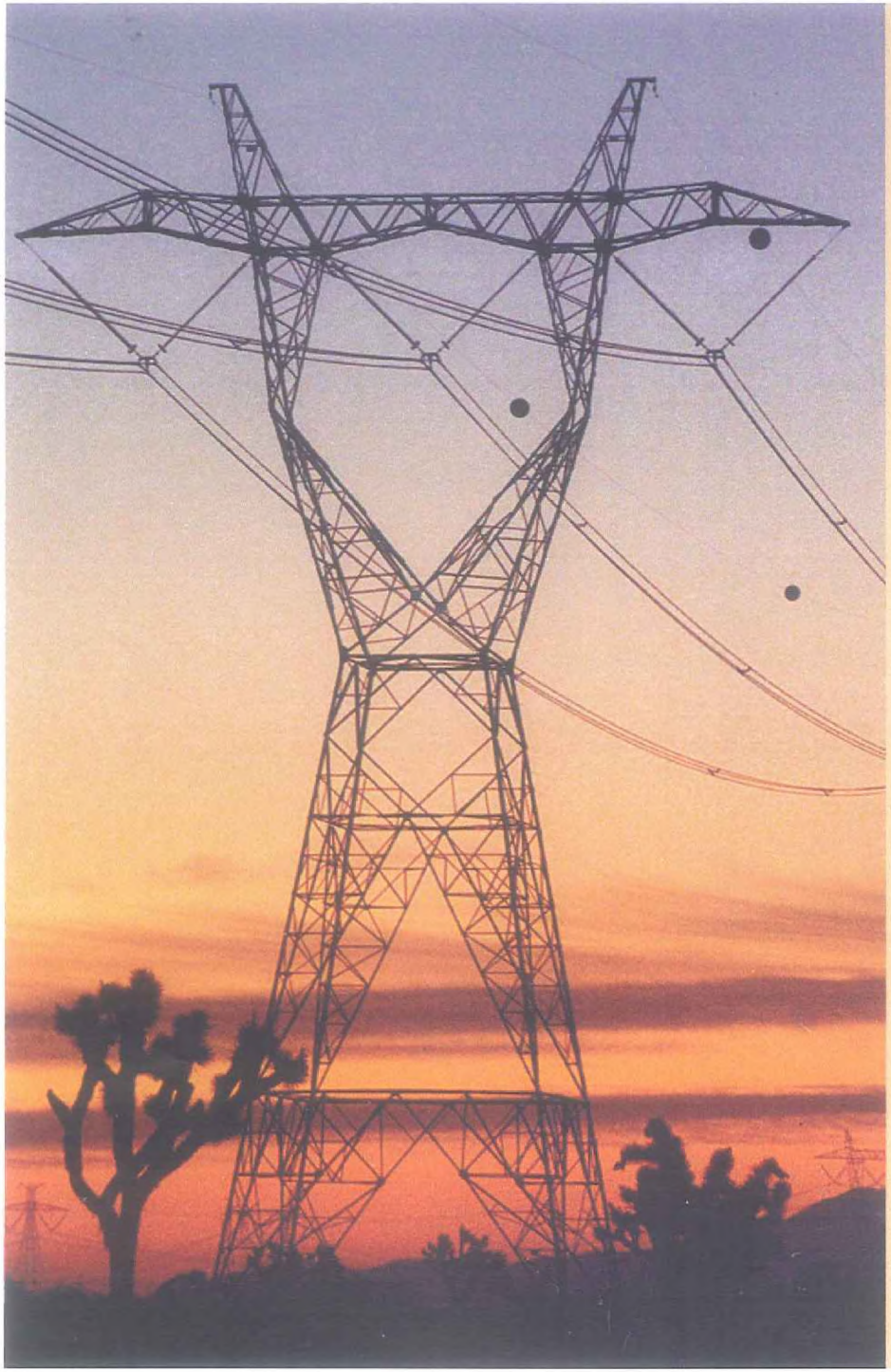
Power System Reliability

11-1578 MOTION (ENGLANDER - PERRY)

What do we know about the San Diego Outage?



- Initiated at Southwest Arizona Substation
- Southern part of the state when dark 10-minutes later
- System should have prevented cascading outages
- LADWP load was not impacted
- Several LADWP transmission lines were impacted by load reductions
- Fourteen investigation committees have been formed to investigate and LADWP employees will be part of the team



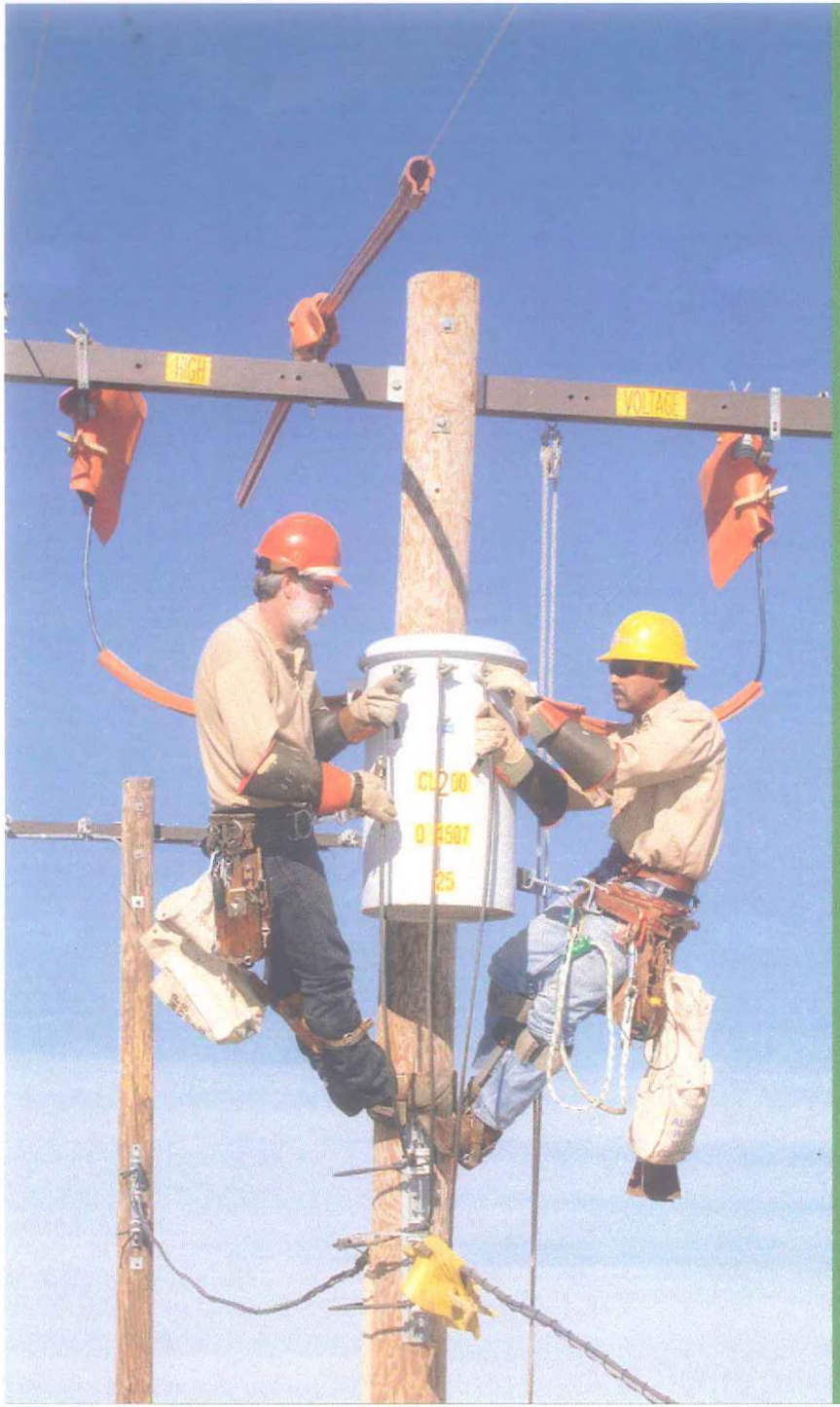
LADWP's Grid has unique design features

Transmission "ring" around city

Network of transmission lines

Power plants inside and outside Los Angeles

Multiple points of interconnection with other utilities in different states



LADWP Rigorously Plans for and Monitors System Reliability

Ten-year transmission plan reviewed and updated annually

Cable and transformer replacement program

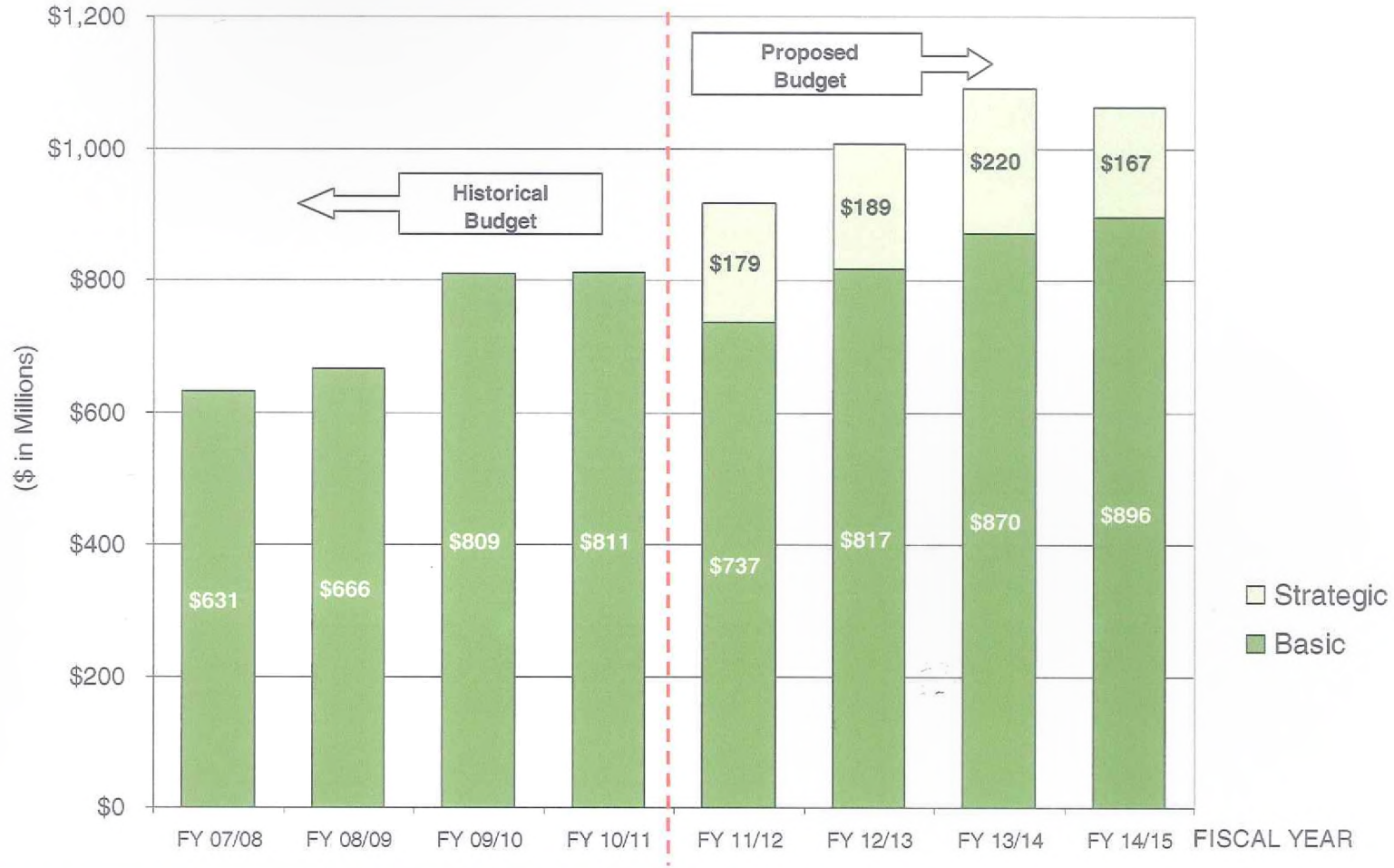
Strong maintenance program with regular diagnostic testing

Strong compliance with Reliability Standards

System is centrally monitored with well trained personnel

Strong failure analysis process to apply lessons learned

Power Reliability and Other Infrastructure Combined O&M and Capital



We've increased our investments in **power reliability** over the last 4 years. The new budget for basic business reduces spending by $74 million next year.

Reliable Service is Top Priority for LADWP

Twenty-year, one-year, monthly, and daily forecast are prepared to supply load

Aging equipment replaced before failure

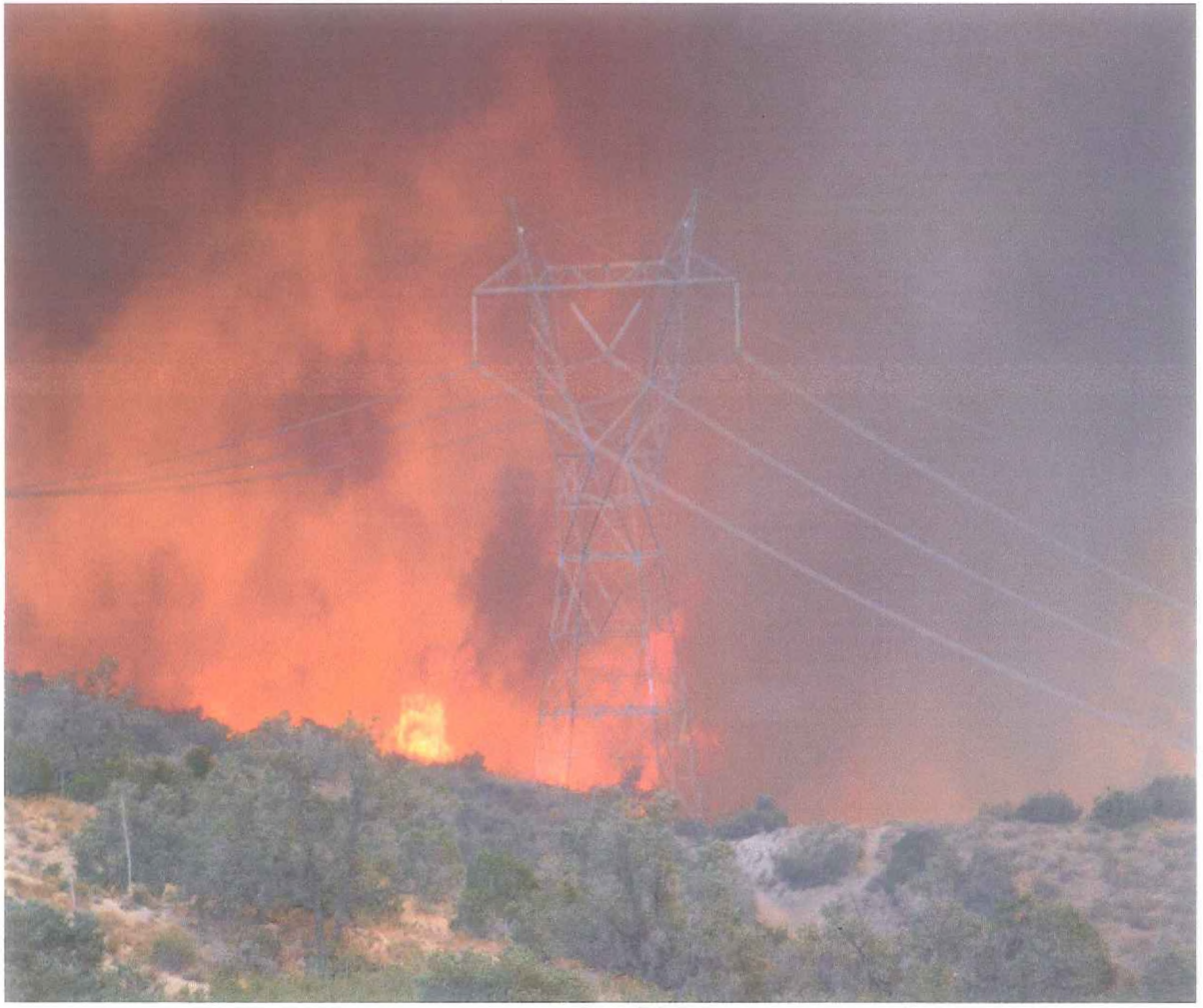
Sequencing of regulatory mandates, such as once-thru-cooling to minimize risks

Diversity in resources

Maintaining strong reserves

Emergency support agreements with other utilities

LADWP has learned lessons from several recent natural disasters and equipment failures



- Northridge Earthquake
- 2004 Crown Fire
- 2005 cascading outage in LADWP service area
- 2006 Receiving Station A Equipment Failure
- 2008 Heat Wave
- Sayre and Station Fire