

## MOUNTAIN VIEW POWER PLANT | REDLANDS, CA



A portion of the Mountainview power plant wrapped in plastic during hazardous material abatement activities



2 Exterior Boilers, 2 Turbines & Generators, 2 Cooling Towers



January 2010 – December 2010



\$2,000,000



Southern California Edison



Demolition & Boiler Implosion



Hazardous Material Abatement



Equipment Dismantlement



Zero OSHA Recordables

LVI provided decommissioning, asbestos and lead abatement, and demolition services to Southern California Edison’s 60 megawatt natural gas-fueled power plant located in Redlands, approximately 70 miles east of Los Angeles.

Southern California Edison had recently completed construction of a new combined-cycle, natural gas-fueled power plant to replace the electrical generation provided by this plant. The decommissioning of the old facility needed to occur without disruption to the new operating facility located adjacent to the demolition activity. LVI performed all work in a manner so as to not to negatively influence the standard routine of the operating facility.

The major components of the facility consisted of two exterior boilers, rated at 700 thousand pounds per hour of steam production, identical in construction and specification, two turbines and generators and associated transformer, control house and equipment, and two mechanical draft cooling towers.

LVI’s basic scope of work included such environmental remediation aspects as the complete removal of asbestos-containing materials, management of lead-based paint and the removal of hazardous materials.



## ZERO OSHA RECORDABLES

The demolition activity included the removal of all major structures and appurtenances and anomalies to an elevation of three feet below existing grade.

### TRAFFIC MANAGEMENT APPROACH

LVI constructed temporary roadways for heavy equipment and truck use. The process required the development and implementation of a Traffic Control Plan that diverted on-site traffic from the new units with a new entry point onto the local infrastructure.

### ENGINEERED FELLING IN A POPULATED AREA

The chosen plan of execution for demolition of the two boilers involved the employment of explosive shear charges. The engineered felling included consideration of dust and noise mitigation and the effects of the seismic event created by the felling of the boilers. Contingency Plans were put into place and the planned felling was executed to perfection.

LVI was challenged by the design and construction of the containment structure associated with exterior boilers. Typically, the containment structure is pre-engineered to consider the effects of wind load and the heat stress placed upon the technicians as the location of this power plant is in the Southern California desert area. LVI conducted in-house engineering of the containment structure which was then reviewed and approved by a third party consulting firm.

There were no recorded adverse effects to the operation units or to the surrounding community. LVI, Southern California Edison and the local Emergency Response Team all contracted with different videographers to record the implosion, so the event could be used as a study for future implosions. The video is available upon request.

Due to the nature of performing this very dangerous type of work activity, LVI dedicated one of our full-time safety and health officers to the project. The officer conducted daily reviews of the day's work plans and conducted daily audits to mitigate potential safety and health situations.

### EXCEEDED SAFETY & CLIENT EXPECTATIONS

LVI engages in projects that require exceptional compliance to a very high standard of health and safety. All execution plans and felling plans are reviewed by the Health and Safety and Compli-

ance Officers prior to implementation. Upon approval by the H&S Officer, the execution plan is fully communicated to the field staff.

This entire project was accomplished within the restrictions of the client-imposed project schedule, within budget and with no recordable accidents or events and in complete compliance with the associated regulatory agencies.

---

**Project Managed By** LVI Environmental Services Inc., a Hayward, California-based subsidiary of LVI Services Inc. | **Client Contact** Paul Phelan, Director of Engineering and Construction, Southern California Edison, (909) 394-8601, paul.phelan@sce.com