POWER INDUSTRY

EXPERIENCE | SERVICES | ADVANTAGES

Your single source.

- Structural & Interior Demolition
- Decontamination & Decommissioning
- Hazardous Material Abatement
- Smart Demolition & Asset Recovery
- Equipment Dismantlement
- Mold Remediation
- Fireproofing
- Millwright & Rigging
- Infection Control
- Emergency Response

003-LVI-PWR-ALL-SOQ-MAR-2013

I have been greatly impressed with the level of professionalism, knowledge, and attention to detail that LVI has demonstrated. They have showed a solid understanding of what it takes to perform as evident in the fact that, despite a change to the demolition sequence and an increase to their scope, LVI managed to work with us and the other subcontractors to stay on schedule.

Above all, LVI has put safety first and has embraced Actus' culture of an incident and injury free work place. In comparison to other subcontractors on previous projects, LVI has proven to be the most responsive and cooperative.

Mark Kline
Construction Manager
Actus Lend Lease

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LVI has successfully completed numerous abatement and demolition projects in support of maintenance, upgrade and reclamation work.

LVI has consistently delivered innovative, cost effective-solutions for complex, high-profile and time-critical tasks and has maintained a superlative safety performance record throughout.

LVI has also added value to our relationship by providing extensive pre-planning, budgetary and asset management services. I would encourage anyone with similar needs to involve LVI early in the process in order to optimize your end result.

Jessie Guerrero
Director of Procurement
NRG Energy Inc.

POWER PLANT EXPERIENCE

HELPING UTILITIES CONSOLIDATE ASSETS & RE-POWER AMERICA.

As the power generation industry transitions its stations to safer, more energy efficient technology, the need for specialized expertise in decommissioning and demolishing shuttered units and entire facilities is critical to meeting those goals.

The work approach demands solutions that consider tight working conditions and limited equipment access due to adjacent operating units, highly-secure sections of the site, nearby environmentally-sensitive areas, and road and pedestrian traffic.

LVI has led the way for 27 years to decommission and demolish some of the nation's largest, most complex power plants coast to coast, and everywhere in between. Our expertise in challenging demolition has earned LVI annual ranking as the world's top demolition contractor since 2007 by Demolition and Recycling International (D&Ri) and nation's top abatement contractor since 1999 by Engineering News Record (ENR).

Not only does LVI bring expertise in the demolition of shuttered power plants, we typically perform the abatement and removal of support facilities, including storage tanks, underground utilities, tunnels, and other infrastructure, and excavation of footings and foundations. If the goal is to completely restore the site to its natural state, LVI can do that.

A key differentiator in our approach is our waste management methods, also known as "smart demolition." These methods - recycling, asset recovery, and waste management for LEED - aim to maximize re-use of deconstructed material and divert waste from landfills, a key goal of public utilities today.

KEY POWER PROJECTS

- A.M. Williams Station, Goose Creek, SC
- Amundsen-Scott South Pole Station, Antarctica
- Avon Power Plant, Martinez, CA
- Boston Edison Plant-Mystic Station, Everett, MA
- Brunner Island Power Plant, York Haven, PA
- Calpine Edgemoor Plant, Wilmington DE
- Cinergy Power Plant, Cayuga, IN
- Consolidated Edison Power Plant, New York, NY
- Delmarva Power & Light, Millsboro, DE
- Dynegy South Bay Power Plant, Chula Vista, CA
- Exelon Cromby Plant, Phoenixville, PA
- Exelon Eddystone Plant, Eddystone PA
- Exelon Three Mile Island, Londonderry, PA
- Genon (formerly Mirant) Chalk Point Generating Plant, Aquasco, MD
- Genon (formerly Mirant) Dickerson Generating Plant, Dickerson, MD
- Hopkins Generating Station, Tallahassee, FL
- Key West Steam Plant, Key West, FL
- Stock Island Steam Plant, Key West, FL
- Main Plant Area, Oak Ridge, TN
- NRG Devon Power Plant, Milford, CT
- NRG Dunkirk Power Plant, Dunkirk, NY
- NRG El Segundo Power Plant, El Segundo, CA
- NRG Huntley Power Plant, Tonawanda, PA
- NRG Indian River Power Plant, Indian River, DE
- NRG Long Beach Power Plant, Long Beach, CA
- NRG Mountain View Power Plant, Redlands, CA
- NYPA Charles Poletti Power Plant, New York, NY
- NYPA Robert Moses Turbine, Massena, NY
- PECO Energy Generating Plant, Chester, PA
- PG&E Danville Power Plant, Danville, CA
- PG&E Folsom Power Plant, San Francisco, CA
- PG&E Humboldt Bay Power Plant, Eureka, CA
- PG&E Hunters Point Power Plant, San Francisco, CA
- PG&E Potrero Power Plant, Pier 70, San Francisco, CA
- Philadelphia Electric Company, Richmond Station, Philadelphia, PA
- Philadelphia Electric Company, Delaware Station, Philadelphia, PA
- Philadelphia Gas Works, Philadelphia, PA
- PSE&G Transmission Towers, NJ
- Rochester Gas & Electric, Rochester, NY
- Shuffleton Power Plant, Renton, WA
- TECO Bayside Power Plant, Tampa, FL
- TECO Gannon Power Plant, Tampa, FL
- TECO Hooker's Point Power Plant, Tampa, FL
- Topaz Energy Nueces Bay Power Plant, Corpus Christi, TX
- Trigen Power Plant, Boston, MA
- Valero Powerhouse #3, Paulsboro, NJ
- Western Electric Power Plant, West Springfield, MA
- Xcel Arapahoe Power Plants Denver, CO
- Xcel Cherokee Power Plant, Denver, CO

FEATURED POWER PROJECTS







CONSOLIDATED EDISON KIPS BAY POWER PLANT | NEW YORK, NY

Consolidated Edison Power Plant before demolition

After demolition and grading

One 11-Story Office Building
Two 17-Story Power Plants

May 2001 - August 2007

$26,000,000

TRC Environmental

Decommissioning & Demolition

Hazardous Material Abatement

Salvage & Asset Recovery

Equipment Dismantlement

Zero Lost Work Days

The dismantlement of Consolidated Edison's five-block steam and electricity power plant in midtown Manhattan was phased over a five-year period, tackling numerous challenges related to a densely urban and compact construction site.

SURGICAL DEMOLITION

The five-block Kips Bay, multi-building campus was squeezed between FDR Drive, First Avenue, and the Queens-Midtown Tunnel vents, with the tunnel running under the property. LVI demolished the 11-story office building and support structures first. The switch house and frequency house both had an arched roof like a gymnasium, so it was carefully removed to reduce the potential for the walls to become unstable.

The next phase was the most challenging. Three 300-foot steel stacks, reinforced with gunite, towered over the two 17-story power plants. These structures were dismantled by hand in a very controlled manner until the core machinery was visible. The exterior walls of the power plants rose flush to the sidewalk boundary requiring hand demolition on these exposed walls to protect pedestrians, traffic and contiguous property. High-reach equipment was used on the demolition of the lower level

ZERO LOST WORK DAYS

LVI's high reach equipment in use

power plants.

SPECIALIZED DEMOLITION EQUIPMENT

The last phase employed machine power to break apart the generators following the removal of PCBs and machine oil. To break apart the generators, LVI used specialized equipment, including a Hitachi Ex 800 with Genesis 1200 shear. Deconstruction and dismantlement efforts required the use of oxyacetylene torch cutting and pulling techniques using wire cables and heavy equipment.

ASSET RECOVERY

All steel, precious metals, and concrete were recycled at licensed facilities. As part of asset recovery activities, electrical equipment and generators were sold for re-use. LVI also managed the removal of diesel and brine storage tanks.

SITE RESTORATION & PROTECTION

All sewer inlets were protected with hay bales and filter fabric paper and changed out as necessary. All utilities were cut and capped outside the property line without issue. LVI excavated all footings and foundations and removed and disposed of all contaminated soils. LVI also excavated the East River tunnels under the FDR Drive after they were sealed by a specialty contractor.

COMPLEX STAFFING ON A TIGHT SCHEDULE

Work was conducted six days a week with overtime. LVI staffed up to three project managers, up to five supervisors, two site safety officers, 10 machine operators, 60 Local 79 Union laborers, and 20 haul Teamsters at any given time. Approximately 75 percent of the workforce included women and/or minorities.

SAFETY OF ALL

LVI designed site-specific MSDSs and a health and safety plan and achieved an impeccable record of zero lost work days thanks to expert supervision, a well-trained workforce, and daily safety meetings.

Project Managed By LVI Demolition Services Inc., a New Jersey-based subsidiary of LVI Services Inc. | **Client Contact** Ed Malley, VP, TRC Environmental, (201) 508-6961

NUECES BAY ENERGY CENTER | CORPUS CHRISTI, TX

Rankine Cycle Power Plant

June 2007 – February 2008

$10,500,000

ARCADIS US

Structural Demolition

Hazardous Material Abatement

Rigging & Equipment Dismantlement

Brick, Concrete, & Steel Recycling

Zero OSHA Recordables

In preparation to convert Nueces Bay Energy Center's steam generation plant from a Rankine cycle to a highly-efficient combined-cycle configuration, LVI performed abatement and demolition of two boiler units and their 170-foot concrete stacks, six ancillary buildings, and two underground storage tanks.

Originally built in 1949, the plant covers 67 acres just outside of Corpus Christi, Texas. Topaz Power Group purchased the plant and, upon completion of this project, converted the site into the Nueces Bay Energy Center, a highly-efficient combined-cycle facility that began operations in 2010.

LVI was originally contracted by ARCADIS US to dismantle and demolish two boiler units, their 170-foot structures, and associated fire stacks. Upon successful and timely completion of initial contract work, LVI was awarded several subsequent contracts and task orders including the demolition of six ancillary buildings and two underground tanks.

HIGH ELEVATION STACK DEMOLITION

LVI performed in-place dismantling of two steam-generating Babcock and Wilcox boilers rated at 550 tons per hour and the two 170-foot concrete stacks by using

ZERO OSHA RECORDABLES

many repetitive heavy picks with large cranes and an ultra high reach excavator for the stack demolition. LVI dismantling crews rigged and lowered sections of the boiler stacks, boiler structures, and equipment to the ground level for further processing.

One boiler bay shared structural elements with the turbine building. Dismantling this boiler bay required special structural design reviews to avoid damage to the turbine building, which was to be left standing for the combined cycle repowering.

Crews safely dismantled and removed existing asbestos-containing materials, turbine generators, condensers, boiler structures, stacks, structural concrete foundations and excavated soils with backfill.

SUSTAINABLE DECONSTRUCTION

All materials other than those deemed of a hazardous nature were either reused or recycled for this project. Items recycled or reused included brick, concrete, oil, and steel. A total of 7,000 tons of steel were removed and recycled.

FAST-TRACK SCHEDULE

LVI adhered to a very tight schedule in conducting this work. Timeline constraints were met by pulling resources from three LVI different offices. All work was performed on time and in accordance with applicable regulations.

FOCUS ON SAFETY

Site-specific heavy lifting and demolition plans were approved by our client, ARCADIS US, and the owner, Topaz Energy Group. Thanks in part to significant pre-planning, daily safety meetings, and a Job Safety Analysis (JSA) for each task, the project was completed with zero OSHA recordable incidents.

Project Managed By LVI Environmental Services Inc., a Texas-based subsidiary of LVI Services Inc. | **Client Contact** Trisha Elizondo, ARCADIS US, 1687 Cole Boulevard, Ste 200, Lakewood, CO 80401, (303) 231-9115 x132, Trisha.Elizondo@arcadis-us.com

NRG DEVON POWER PLANT | MILFORD, CT

- 5 Generating Units & Stacks
- August 2010 – December 2011
- $2,300,000
- NRG Energy

- Demolition
- Hazardous Material Abatement
- Salvage & Asset Recovery
- Rigging

- Zero OSHA Recordables

LVI performed demolition and abatement of gas outlet ducts, precipitators, stacks, and apprentices from Units 2, 3, 4, 5 and 6 as part of GenConn's Devon Repowering Project to provide needed electricity to 160,000 homes in rural Connecticut and significantly reduce water pulled from the Housatonic River.

The Devon Repowering Project replaced oil-fueled units 7 and 8 with 200 megawatts (MW) of natural gas-powered generation to a rural part of the state, where it is difficult to import electricity. As part of this project, GenConn had promised the community a more attractive skyline. LVI's demolition efforts removed the older, unwelcome site structures to achieve just that.

HAZARDOUS MATERIAL ABATEMENT

Prior to demolition, LVI performed hazardous material abatement/removal of asbestos-containing flanges, access doors, gaskets, and some hopper insulation. LVI removed and packaged PCB oil-contaminated transformers, as well as non-hazardous fly ash, for client disposal. Precipitator and hopper abatement efforts required the use of containment structures.

ZERO OSHA RECORDABLES

LVI has consistently delivered innovative, cost effective-solutions for complex, high-profile and time-critical tasks and has maintained a superlative safety performance record throughout.

I can recommend LVI for assistance with virtually any abatement, remediation or demolition challenges that you may face.

Jessie Guerrero
Director of Procurement
NRG Energy

DEMOLITION EQUIPMENT & APPROACH

LVI's demolition approach used a 330 ton Liebherr LR 1300 crawler crane in conjunction with scaffolding and mast climbers to selectively remove stacks of up to 250 feet in height sitting on top of 100-foot boiler structures, precipitators, tanks, piping, ductwork and mechanical equipment from high rooftop elevations.

LVI engineered critical lift plan procedures to define the load sizing and characteristics to ensure materials were sized to within limits of crane/radius capacity during.

LVI cut and then lowered stack materials to the protected laydown areas for sorting and separation prior to disposal to maximize asset and scrap recovery.

LVI was careful to protect the remaining bases which were covered with new roofing enclosures. Upon completion of demolition, the base of the stack retained its water-tight seal.

ENVIRONMENTAL PROTECTION

As part of environmental protection efforts, workers covered drains and installed hay bales to protect water ways. Other environmental concerns included a Peregrine Falcon that was nesting adjacent to the units, which required all demolition work to be completed within a short 5-month timeframe.

SITE-SPECIFIC SCHEDULING

LVI adhered to extremely stringent scheduling constraints, while attempting to offset the extreme weather conditions. Work was conducted in 10-hour shifts, 6 days per week. For safety reasons, operations were halted when winds exceeded 25 miles per hour. As is standard practice, staff held daily safety meetings and inspections to ensure worker safety.

SAFETY IS #1 PRIORITY

Demolition and abatement efforts were completed within budget, on time, and without a single OSHA recordable incident.

Project Managed By LVI Environmental Services Inc., a Connecticut-based subsidiary of LVI Services Inc. | **Client Contact** NRG Energy Thomas Oberg, 713-795-6133

NRG EL SEGUNDO POWER PLANT, UNITS 1 & 2 | EL SEGUNDO, CA

NRG Energy's El Segundo Generating Station

Units 1 & 2 implosion sequence

Two 360 MW Generating Units
Two 420-Foot Stacks

June 2010 – June 2011

$16,000,000

NRG Energy

Decommissioning & Demolition

Hazardous Material Abatement

Salvage & Asset Recovery

Equipment Dismantlement

12 Engineers, 40 Laborers
70% Women & Minorities

Zero OSHA Recordables

LVI conducted demolition and hazardous material abatement at NRG Energy's El Segundo Power Plant in preparation for a new, state-of-the-art combined cycle, rapid response, natural gas-fueled & air-cooled power plant with 30% greater efficiency.

LVI performed decommissioning of two 360 megawatt (MW) oil-fired steam generating units, the energy of which was produced by two hydrogen-cooled condensing units. Additionally, LVI removed supporting bulk storage terminals, transportation and distribution piping, turbines, generators, boilers, support and control buildings, mechanical shops, oil terminal, and below-grade structures. Also removed was above-ground fuel oil transport lines, circulating water structures.

HAZARDOUS MATERIAL ABATEMENT

LVI conducted abatement of asbestos-containing materials, including TSI, galbestos and transite siding, and the removal of interior boiler refractory from the 1,000,000 pound per hour steam boilers and ancillary equipment and structures. LVI included regulatory agencies in the development of the decommissioning strategy and execution plans during the pre-engineering phases. The preparatory phase of the decommissioning required the demolition of two 420-foot lead- and asbestos-coated environmental stacks. Uniquely, the bases of these stacks were constructed at an

> ***I am extremely impressed with LVI Services' overall construction safety management and worker performance on the project. It was very apparent that every worker was expected to participate in the project safety program, that safety was everyone's job, and safety was #1.*** -Debra Hilmerson, President & CEO, Hilmerson Safety Services, Inc.

elevation of 90 feet above elevation. Using proprietary high pressure water blasting and collection systems, LVI abated the coatings from the exterior of the stacks prior to demolition.

CONTROLLED DEMOLITION APPROACH

LVI used its fleet of ultra high reach equipment to conduct demolition efforts. To break apart the generators LVI used an assortment of torches to separate the portions. Hydraulic excavators were maneuvered to complete the handling of the materials. Repetitive use of "controlled falls" enabled LVI to dismantle large structures at the ground level, eliminating the need for a large labor force on risky, elevated work areas.

REMOTE-OPERATED EQUIPMENT

Due to the logistics of the construction of the stacks within the footprint of the plant and proximity to the Pacific Ocean, LVI developed a value-engineered stack demolition plan that utilized specialty robotic equipment equipped with water misters and a collection system. This method provided a safer working environment and fully complied with the California Air Emissions standards. By conducting stack abatement, LVI could process and recycle the concrete as approved future use material.

IMPLOSIVE FELLING

The final demolition of the boiler and super-structures was undertaken through a controlled engineered implosive felling. Due to geographic site constraints, the method of implosion required the upper sections of the boilers first be felled within the vertical structure and then provide for a controlled directional felling of the entire boiler structure. LVI constructed pyramids of engineered structural fill to absorb the impact of the seismic event, mitigating the impact on adjacent operating units.

STORAGE TANK DEMOLITION

LVI removed four storage tanks, three of which were utilized for water storage. The fourth tank was a large 220-foot-diameter-by-60-foot-tall decommissioned fuel oil tank, which LVI cleaned utilizing ultra high pressure water. The resulting rinsate was collected, profiled and disposed of at a local treatment facility. Contaminated or potentially contaminated water on this project was collected utilizing vacuum and tanker trucks.

The entire site was excavated to a depth of 10 feet below grade. In a few areas we were required to go to 12 feet below grade. These materials were stockpiled and utilized to rebuild the site to an elevation of five feet below grade. The reconstruction process required placement of the materials in 1-foot lifts and compaction to 95% prior to the next lift being installed. LVI excavated at least 80,000 cubic yards of material and replaced and compacted approximately 40,000 cubic yards.

SOIL REMEDIATION IN A POPULATED AREA

LVI excavated in excess of 25,000 tons of PCB-contaminated soils. LVI designed and implemented sound, dust and vibration mitigation and abatement procedures along with a comprehensive storm water management plan. Disposal containers were enclosed or covered to prevent potential contaminants from being introduced into the storm water.

ASSET RECOVERY & RECYCLING

Prior to demolition, LVI extracted all high-grade metals from major and ancillary equipment. This process created an early positive cash flow back to the project through salvage sales and recycling credits. Concrete, asphalt and riprap were sent to an off-site crushing facility for reuse. On the below grade work, all non-contaminated concrete was crushed on site and reused as engineered fill during the backfill and compaction operation.

PRODUCTIVITY WITHIN A RESTRICTED SCHEDULE

For the duration of the project, LVI employed up to 12 operating engineers and 40 laborers. Community restrictions required typical work hours. All of the labor force was union, with approximately 70 percent made up of minorities and women.

AGENCY COORDINATION

LVI developed multiple site-specific health and safety plans, including a 1000-foot exclusion zone requiring coordination with 3 municipalities, 3 law enforcement agencies, the US Coast Guard, LA County Beaches & Harbors Department, and the FAA.

HIGHEST RATING FOR HEALTH AND SAFETY

LVI completed this project ahead of schedule. In addition, when NRG Energy commissioned a third party consultant to conduct a health and safety audit for the site, LVI achieved the highest rating available for our commitment to health and safety.

Project Managed By LVI Environmental Services Inc., a California-based subsidiary of LVI Services Inc. | **Client Contact** NRG Energy Thomas Oberg, 713-795-6133

BRUNNER ISLAND STEAM ELECTRIC STATION, UNITS 1, 2 & 3 | YORK HAVEN, PA

Demolition of one of Brunner Island's 160-foot ESPs using LVI's ultra high-reach equipment

PROJECT HIGHLIGHTS

- Demolition of three Electrostatic Precipitators (ESP) within an operating facility
- Laborers worked two 12-hour shifts, finishing several days ahead of schedule
- Use of ultra high-reach equipment and proprietary attachments protected worker safety in tight working conditions and accelerated demolition work
- Zero OSHA Recordable Injuries

3 Electrostatic Precipitators at Operational Power Plant

ESP Unit 3: Sept 2006
ESP Unit 2: Sept - Oct 2009
ESP Unit 1: Aug - Sept 2012

ESP Unit 3: $1,000,000
ESP Unit 2: $2,500,000
ESP Unit 1: $900,000

Pennsylvania Power & Light

High-Reach Structural Demolition

Hazardous Material Abatement

Zero OSHA Recordables

As part of a proactive effort to comply with EPA Clean Air standards and remove 100,000 tons of sulfur pollution annually, Pennsylvania Power & Light replaced its three aging Electrostatic Precipitators with LVI's help.

LVI first demolished Unit 2, which came online in 1965 and produced 390 MW, in 2006 followed by the demolition of Unit 3, which came online in 1969 and produced 769 MW, in 2009. The 334 MW Unit 1, built in 1961, was demolished in 2012.

ZERO DISRUPTION OF OPERATIONAL UNITS

For all three phases, the work was orchestrated under a planned plant shutdown for only the affected units while the remainder of the plant continued to produce electricity. As such, the execution plans were strategically coordinated with other contractors and facility management to ensure no disruptions occurred.

PROTECTION OF EXISTING FOOTPRINT

Replacement ESPs were installed on the same footprint, so LVI demolished the original structures in such a way as to save the existing steel support structure, cable trays, transformers and switchgear as well as protect the new anchor bolts and foundations for the new units.

ZERO OSHA RECORDABLES

Debris clean-up and material segregation following demolition with LVI's ultra high-reach equipment

LVI was able to maintain the existing foundations by engineering a protective agent used during the demolition and staging equipment around the perimeter of the congested work area. LVI's ability to retain these support structures resulted in substantial savings to the schedule and cost of the project.

FAST-TRACK SCHEDULES

To complete the demolition of all three ESP units during scheduled plant outages, LVI worked around the clock with two 12-hour shifts each day to remove and demobilize the old units from the work area, allowing other trades to begin installation of the previously-constructed new units. For Unit 2, LVI finished two days ahead schedule. Unit 3 was finished in just nine days and Unit 1 in just 10 days, four full days ahead of schedule.

BEST SPECIALIZED EQUIPMENT

LVI brought in its 200-foot Ultra High Reach (UHR) Sennebogen and its 125' UHR, working from two sides at a time, for the dismantlement of the upper elevations of the 160-foot ESPs. Use of this specialized equipment mitigated the need for manual high-elevation burning and rigging activities, removing the technicians from potentially adverse safety situations.

Removing ESP Unit 2 was especially challenging as it was completely surrounded by the construction of additional generating units. As a result, LVI designed proprietary attachments for the equipment to conduct this demolition without negatively influencing the adjacent generating equipment.

TIME-SAVING ABATEMENT APPROACH

In addition to the demolition work itself, LVI also removed and properly disposed of over 3,600 gallons of PCB-contaminated transformer oil from the units. Utilizing specially trained staff, LVI was able to leave the lead-based paint on the areas to be torch cut, saving our client significant time and money.

FOCUS ON SAFETY

Safety was paramount to LVI, especially with the challenge of operating a 24-hour-a-day schedule in logistically restrictive work areas. A Site Specific Health and Safety Plan (SSHASP), Job Hazard Analysis (JHA) and Job Safety Analysis (JSA) were created for each ESP and then implemented and communicated to the field staff. LVI completed all three phases with no recordable injuries or regulatory compliance issues.

As the top-rated environmental and demolition contractor in the U.S., LVI eliminates costly job shutdowns caused by unforeseen constraints as its specially-trained staff can handle almost any environmental hazard during demolition and dismantling work.

Project Managed By LVI Environmental Services Inc., a subsidiary of LVI Services Inc. | **Client Contact** Jamie Lynch, PPL, (484) 357-8969, jpl@dhuy.com

MOUNTAINVIEW POWER PLANT | REDLANDS, CA

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

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

January 2010 – December 2010

$2,000,000

Southern California Edison

Decommissioning, 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.

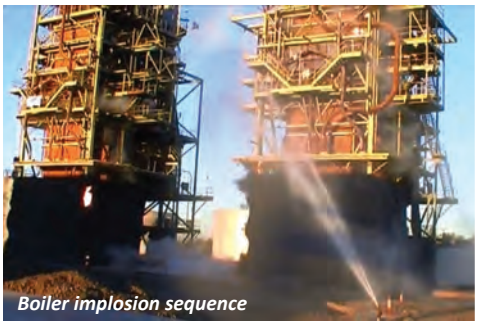
Southern California Edison recently completed construction of a new combined-cycle, natural gas-fueled power plant to replace the electrical generation provided by this plant. Decommissioning activities of the old facility had to occur without disruption to the new operating facility. LVI performed all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

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.

Abatement included the complete removal of asbestos-containing materials, management of lead-based paint and the removal of hazardous materials.

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

ZERO OSHA RECORDABLES


Boiler implosion sequence

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

SAFE COMPLETION ON SCHEDULE AND WITHIN BUDGET

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

HUMBOLDT BAY POWER PLANT | EUREKA, CA

LVI workers torch cut sections of the 2.7 million gallon fuel tank

143-Acre Shuttered Power Plant

October 2008 - October 2009

$2,300,000

TRC Customer Solutions

Mechanical Demolition
Torch Cutting Demolition

Hazardous Material Abatement

Debris Recycling

Zero OSHA Recordables

PG&E's Humboldt Bay Power Plant (HBPP) was repowered to more efficiently meet California's growing power needs. As part of this effort, LVI abated and demolished shuttered major components of the plant to make room for new facilities, including a 2.7 million gallon liquid fuel oil tank, 4,200-linear-foot fuel oil pipeline, and series of structures, facilities, and underground utilities.

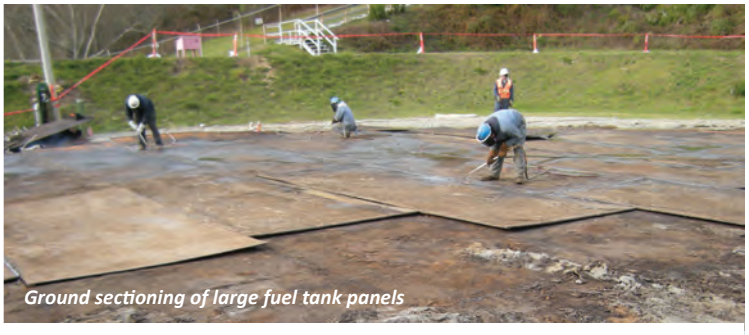
The 143-acre nuclear power plant site was built in the 1950s and operated from 1963-1976 until concerns about newly discovered seismic faults combined with more stringent nuclear requirements following the Three Mile Island accident rendered the small plant unprofitable. In 1988, the nuclear plant went into SAFESTOR status, except for two original fossil-fuel-powered steam-turbine generators, which continued to produce power.

METICULOUS SUBSURFACE DEMOLITION

The underground utilities posed a unique set of challenges. Record drawings of the subsurface conduit locations and the changes that had taken place over the last 50 years could not be located. As a result, the subsurface demolition had to be meticu-

ZERO OSHA RECORDABLES

Removal of a 4,200 linear foot fuel pipeline


Ground sectioning of large fuel tank panels


Demolition of one of numerous buildings on the 143-acre site

lously executed. Also, pre-project engineering evaluations and procedures included field "hold points" to identify and verify if utilities were 'live' so work crews would be safe and avoid disruption to plant operations.

SUSTAINABLE DECONSTRUCTION

LVI recycled or salvaged a total of approximately 95% of the materials removed from the plant, including 920 tons of concrete, 200 tons of asphalt, and 12 tons of metal debris.

FOCUS ON SAFETY

Safety is always LVI's first priority. A comprehensive Site-Specific Health and Safety Plan (SSHASP) was written for the project and work crews attended twice daily tailgate safety meetings. Here they reviewed potential job hazards and means and methods to mitigate the hazards, which included considerations for heavy winter rains.

REVIVING THE COMMUNITY

As part of the community relations program, LVI utilized the Comprehensive Local Hiring Program and Community Friendly Diversity Supplier Participation Program to provide employment and training for the local area residents.

Project Managed By LVI Environmental Services Inc., a Hayward, California-based subsidiary of LVI Services Inc. | **Client Contact** David Zarider, Sr. Vice President, TRC Customer Solutions, 123 Technology Drive, Irvine, CA 92618, (949) 466-3146, dzarider@trcsolutions.com

TECO GANNON STATION BOILERS 1, 2, 3 & 4 | TAMPA, FL

Workers safely lower a section one of the four dismantled steam boiler units.

Former Power Plant

March 2012 - November 2012

$2,480,000

TECO Energy

Selective Rigging

Equipment Dismantlement

Structural Demolition

Metal Salvage

Zero OSHA Recordables

LVI removed and dismantled all existing tripper and coal bunkers, along with all structural steel framing and steam drums that supported boilers 1 through 4 at Gannon Generating Station, a former fossil fuel-fired electric utility steam generating plant that ceased operations in 2004.

The work consisted of selectively rigging and dismantling all of this equipment and steel. LVI utilized a Manatowac 12000 crawler crane to engineer and design all of the lifts associated with dismantling these structures. LVI lifted equipment in excess of 4,000 tons. All steel was salvaged from the facility.

Work was completed on time, within budget, without incident.

Project Managed By LVI Environmental Services Inc., a Florida-based subsidiary of LVI Services Inc. | **Client Contact** Greg Peterson, TECO, 813-630-6977

WHO WE ARE

LVI AT A GLANCE

THE RECOGNIZED LEADER IN COMPLEX DEMOLITION AND HAZMAT SERVICES.

LVI is nationally ranked as the top contractor in demolition and hazardous material abatement. With a national network of 32 offices, we're ready to serve you in any environment, from densely urban to isolated and remote. Our focus is simple - lead with safety, build relationships, and deliver quality. The result? An experience our clients describe as exceptional.

Contractor Ranking	*#1*
Year in Business	*27*
Office Locations	*32*
Full-Time Staff	*2,000*
Contingency Field Staff	*1,500*
Current Safety EMR	*0.65*
Average Annual Revenue	*$400 Million*
Aggregate Bonding Capacity	*$235 Million*
Projects Completed	*61,000*

OUR MISSION

LVI's mission is to exceed client expectations for safety and performance, develop their long-term trust, and earn repeat business.

OUR ADVANTAGES

- Top-ranked demolition contractor in the world since 2007 (D&Ri)
- Top-ranked abatement contractor in the U.S. since 1999 (ENR)
- Excellent 27-year health and safety record
- Industry-leading bonding capacity & insurance coverage
- Scalable services for the most complex jobs
- Proven, high-quality emergency response experience
- Self-performing, cross-trained team
- Largest fleet of company-owned heavy equipment in our industry
- International presence, local service
- Licensed in all 50 U.S. states

Today

Acquired 2012

Ranked #1 Demolition Contractor Since 2007
Demolition & Recycling Interational (D&Ri)

Ranked #1 Abatement Contractor Since 1999
Engineering News Record (ENR)

Expanded National Presence (1990)

Founded

1986

HISTORY

27 YEARS

A LEGACY OF LEADERSHIP.

Headquartered in New York, NY, LVI was originally formed to provide environmental abatement services to an industry that was generating significant growth with the implementation of new legislation.

By the early 1990's, LVI had grown to seven offices and established its national presence. At that time LVI began to implement its diversification strategy through several tuck-in acquisitions that strengthened its national footprint and service capability for national clients.

By expanding service offerings to a broad range of remediation services and adding deconstruction and facility response capabilities including decontamination & decommissioning, infection control, fireproofing, and emergency and disaster response, LVI quickly became a top-ranked full service contractor.

Recently, LVI acquired two specialty companies - Pioneer Maintenance & Erectors, a millwright and rigging company headquartered in Pennsauken, New Jersey and Randolph Construction Services, a specialized design-build contractor headquartered in Richland, Washington. Pioneer offers its capabilities for installing complex mechanical systems and equipment dismantlement support, respectively, with emphasis in baggage handling systems at the nation's airports. Randolph is capable of delivering one-of-a-kind industrial, commercial and federal facilities both domestically and abroad. LVI provides design-build services primarily to the federal government through the Department of Homeland Security, U.S. Army Corps of Engineers and the National Nuclear Security Administration with an emphasis in border security facilities.

Today, LVI executes approximately 5,000 projects worth $400 million annually ranging in size from short-term disaster clean-up projects to large-scale, multi-year contracts with public and private sector clients, including many Fortune 500 companies.

For over a quarter century, LVI has built an excellent reputation. Our dedicated team emphasizes job safety, client communication, and solving complex issues in innovative ways.

#1 ABATEMENT CONTRACTOR
SINCE 1999
Engineering News Record

#1 DEMOLITION CONTRACTOR
SINCE 2007
Demolition & Recycling International

LVI' s flexibility, innovative solution to complex issues and attention to detail resulted in the successful completion of this project. LVI successfully and professionally managed owner-generated changes in scope, schedule acceleration and the subsequent coordination issues with numerous construction trades.

Darius D. Parker, P.E.
Senior Project Manager
Carter & Burgess, Inc.

OUR SERVICES

SERVICES

TURNKEY SOLUTIONS FOR COMPLEX NEEDS.

LVI has safely completed more than 61,000 projects worth $4.2 billion since our inception, including some of the most complex, secure, and historically significant projects in the U.S.

STRUCTURAL AND INTERIOR DEMOLITION

LVI has been ranked the #1 demolition contractor in the world since 2007 by D&Ri. We offer complete interior and structural demolition and dismantling for projects of varying size and complexity.

SMART DEMOLITION & ASSET RECOVERY

LVI's work approach emphasizes recycling, asset recovery and waste management to maximize re-use of demolished material and divert it from landfills for reprocessing into new materials.

DESIGN-BUILD CONSTRUCTION

LVI offers turnkey design-build construction and monitor installation services in support of border control efforts. Services include site surveys, risk analysis, design, value engineering and construction.

FIREPROOFING

LVI applies spray-on fireproofing, intumescent paint and fire blankets or mineral wool products to structural steel. LVI's expertise and knowledge in UL, ICBO, ASTM, and local and state codes is second to none.

INFECTION CONTROL

LVI has well over a decade of experience protecting hospital personnel and patients from nosocomial infections and contaminants resulting from demolition and construction activities.

DECONTAMINATION & DECOMMISSIONING (D&D)

LVI provides remediation and demolition of radiologically-contaminated environments at Department of Energy (DOE) and Nuclear Regulatory Commission (NRC) licensed facilities.

HAZARDOUS MATERIAL ABATEMENT

Ranked as the #1 asbestos contractor in the U.S. since 1999 by ENR, LVI brings unmatched expertise in the removal, encapsulation and management of asbestos, lead, PCB, and radiological material.

MILLWRIGHT & RIGGING

LVI offers rigging, millwright, heavy hauling, machinery maintenance and repair, welding, and fabrication. We selectively can dismantlement a plant, and relocate it to a new location, on- or off-shore.

MOLD REMEDIATION

LVI removes indoor contamination caused by toxic molds resulting from water intrusion due to natural disasters, building defects, or other water-related malfunctions.

EMERGENCY RESPONSE

LVI provides time-critical disaster recovery and clean-up services including fire & water restoration, property protection, and power services, and removal of damaged materials.

> ***LVI is a client-oriented contractor rather than a contractor-oriented contractor. The difference is they demonstrate a commitment to client satisfaction unlike many of their competitors.***
>
> Donald E. Reynolds, Senior Project Manager, ATC Associates, Inc.

STRUCTURAL & INTERIOR DEMOLITION SERVICES

INTERNATIONALLY RANKED AS #1 DEMOLITION CONTRACTOR SINCE 2007.

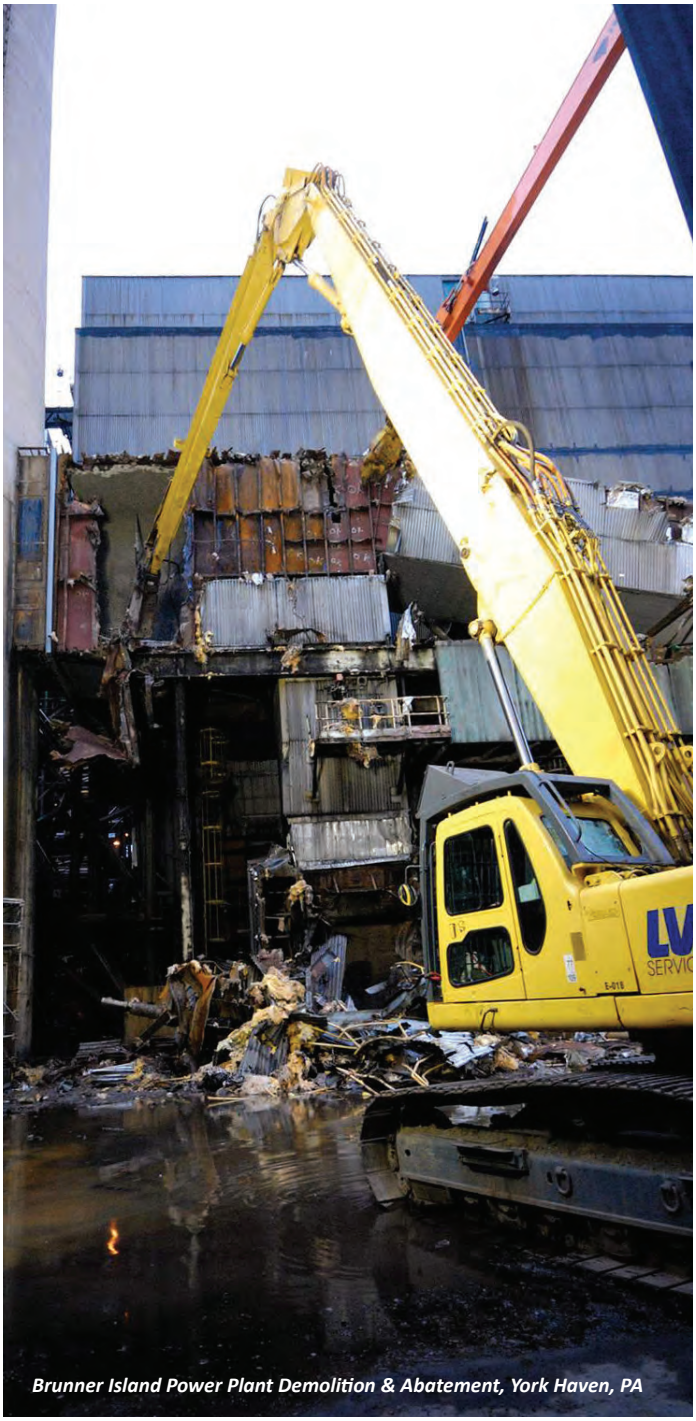
LVI has self-performed the demolition of everything from hospitals, hotels & casinos, and commercial office to manufacturing, power and chemical plants and highly-secure government and nuclear facilities.

Our demolition experience ranges from selective interior/exterior demolition to the leveling of entire commercial building complexes. From knocking out interior walls to imploding buildings, LVI offers comprehensive demolition services and provides unequalled safety, performance, and efficiency.

When the project involves the removal of turnkey structures, we will remediate the site. The entire project will be performed by LVI, assuring our clients that the work will be completed on or ahead of schedule and in the safest and most cost-effective manner possible.

TOTAL DEMOLITION CAPABILITIES

- Structural demolition with heavy equipment
- Manual “torch cutting” demolition
- High-rise tower demolition
- Bridge demolition
- Selective structure demolition
- Historic demolition for restoration
- “Soft gut” interior demolition
- Deconstruction
- Implosion & managed structural felling
- Controlled power and industrial stack felling
- Metals & dismantled equipment salvage
- Shearing and concrete crushing
- Structure moving & relocation
- Paving, utility, and transportation line removal
- Underground storage tank removal
- Below grade and tunnel system demolition
- Concrete, brick, lumber and steel debris recycling



Brunner Island Power Plant Demolition & Abatement, York Haven, PA

DECONTAMINATION & DECOMMISSIONING (D&D) SERVICES

DELIVERING UNMATCHED SOLUTIONS IN HAZARDOUS ENVIRONMENTS.

LVI provides specialized remediation and demolition of contaminated facilities and environments. LVI develops cost-effective strategies to reduce facility risk, increase safety, and minimize waste.

LVI has a reputation for thorough and safe decommissioning of facilities throughout the United States. LVI has demonstrated capabilities to manage projects of all sizes on-budget and on-schedule on many of the largest government installations.

We have consistently met complex remedial demands involving the removal of hazardous and radiologically-contaminated materials, as well as equipment, components, soil and structures associated with nuclear sites. Restoration is accomplished by uniquely-qualified professionals with unparalleled experience on nuclear D&D projects.

DECONTAMINATION & DECOMMISSIONING CAPABILITIES

- Decommissioning planning and estimating
- Decontamination technology evaluation
- Nuclear reactor dismantlement & decommisioning
- Decontamination of radiologically contaminated facilities, equipment and structures
- Removal, sizing and packaging of radiologically-contaminated material, equipment, soil, and structures for proper disposal
- Waste site remediation
- Asset recovery
- Cleanup and site restoration
- Hazardous material abatement
- Beryllium abatement
- Biological and chemical decontamination
- Microbial remediation

Buildings 9769 and 9211 Demolition, Y-12 National Security Complex, Oak Ridge, TN

SMART DEMOLITION & ASSET RECOVERY SERVICES

MAXIMIZING RESOURCES AND RETURN FOR OUR CLIENTS.

LVI's work approach emphasizes recycling, asset recovery and waste management to maximize material re-use and diversion from landfills for reprocessing into new materials.

LVI considers ourselves to be responsible stewards of the environment. As such, we strive to operate beyond compliance in enhancing the environment and protecting public health. Whenver possible it is our goal to divert, at minimum, 75% of the waste accumulated during any demolition project. To achieve this we develop detailed waste management plans, including those for LEED certification, which factor into the demolition approach and include sorting, hauling, & asset recovery plans.

Our state-of-the-art equipment enable us to perform large-scale concrete breaking & sizing, steel cutting, and equipment dismantling.

TOTAL SMART DEMOLITION CAPABILITIES

- Development of asset recovery & LEED programs
- Waste management documentation
- Deconstruction
- Systematic structural dissembly
- Material sorting and recycling
- Salvage and resale or reuse of non-hazardous metals, brick, lumber and steel
- Equipment dismantling and salvage
- "Soft gut" interior demolition
- Concrete crushing and recycling
- Material reuse during design-build construction
- Removal of process decommissioned equipment

LVI equipment operator separating scrap metals for salvage

RECYCLING BY THE NUMBERS

60% non-ferrous material scrapped per year on average

30,000 – 35,000 tons of scrap recycled per year on average

ANNUAL SCRAP VALUES

2011	*$17.9 Million*
2010	*$15.5 Million*
2009	*$7.4 Million*
2008	*$16.1 Million*
2007	*$15.4 Million*

HAZARDOUS MATERIAL ABATEMENT SERVICES

THE NATION'S TOP ASBESTOS ABATEMENT CONTRACTOR SINCE 1999.

LVI brings unmatched expertise in the removal, encapsulation and disposal of asbestos, lead, PCB, hydrocarbons & radiological material.

No other company has the extensive history and successful experience that LVI brings to the table in the highly-regulated asbestos abatement market, and we enjoy a record of compliance in this highly regulated industry. We have more than 50 million hours of removing asbestos over the past 20 years and have performed more than 17,700 asbestos abatement projects just since 2000.

We have a proven track record in the proper abatement of asbestos-containing materials, our low experience modification rate (EMR) and OSHA incident rates reflect our commitment to health and safety on the job. In occupied buildings, we perform our services while assuring the safety of building occupants.

TOTAL ABATEMENT CAPABILITIES

- Asbestos remediation, abatement, removal and disposal
- Encapsulation and enclosure
- Lead and lead-based paint (LBP) remediation, abatement, removal and disposal
- Polychlorinate biphenyl (PCB) remediation, abatement, removal and disposal
- Lighting ballasts handling
- Mercury lamp handling
- Hazardous waste drum handling
- Hazardous material transportation and disposal
- Radiological/chemical decontamination

NASA Moffett Field Wind Tunnel Demolition & Abatement, Mountain View, CA

DESIGN-BUILD CONSTRUCTION SERVICES

ONE-OF-A-KIND FACILITIES FROM THE GROUND UP.

LVI offers an integrated approach to the design, construction, and installation of sophisticated facilities and equipment, with a single point of responsibility.

Through LVI's subsidiary, Randolph Construction Services, we offer an extensive portfolio of design-build experience in industrial, commercial and federal facilities that spans not only regionally but across our nation and around the world. With almost one million square feet of functioning systems installed, we have proven we can meet the needs of our clients today and far into the future.

We have a diverse staff with the proven capabilities to self-perform complex design-build projects. LVI's unique in-house capabilities allow us to maintain explicit control of all aspects of a project's critical path. Our approach delivers the best value while meeting schedule, cost and quality goals.

TOTAL DESIGN-BUILD CONSTRUCTION CAPABILITIES

- Land, Sea, and Air Port of Entry (POE) construction
- Radiation Portal Monitor (RPM) installation
- Operational laboratory renovation
- Fish behavior guidance system design
- Facilities utility infrastructure construction
- Manufacturing facility design-build construction
- Historical restoration
- Project management
- Renewable energy systems installation

New Land Port of Entry (LPOE), Frontier, Washington

MILLWRIGHT & RIGGING SERVICES

MACHINERY INSTALLATION, MAINTENANCE OR RELOCATION MADE EASY.

LVI specializes in the precision setting, assembly, alignment, leveling and anchoring of manufacturing equipment such as turbines and generators, process equipment, corrugated and folding box machinery, pumps, compressors, conveyors and machine tools. We can also selectively dismantle, move to a new location (on- or off-shore), and re-install or rebuild machinery.

In addition to industry leading machinery installation capabilities, LVI offers unlimited capacity in the lifting and hauling transporting of equipment, with single lifts in excess of 500 ton, oversized loads. All rigging is performed by highly trained personnel with state-of-the-art equipment and techniques, including hydraulic lifts.

Our services continue with the option of facility maintenance during temporary scheduled shutdowns, around the clock maintenance scheduling, and 24-hour emergency service. We also provide supplemental maintenance to cover vacations, sick days, and peak production periods. Our trained personnel are current on procedures in confined space entry, respiratory protection, high work, hot work and lock outs.

We also offer a full service shop with capabilities for fabrication and machining as part of facilities maintenance or repair. Specialty machinery repair could include turning, boring, drilling, milling, and grinding. With our welding, shearing, bending and rolling equipment we can fabricate everything from sheet metal to structural steel, stainless steel, aluminum, and specialty metals. If fabrication is needed on-site.

TOTAL MILLWRIGHT & RIGGING CAPABILITIES

- Machinery assembly and erection
- Precision setting, leveling, and anchoring
- Scheduled and emergency machinery maintenance
- Equipment decommissioning
- Match marking & heavy rigging
- Overweight & oversize machinery relocation
- Re-installation and millwright services
- Machine repair and rebuild/fabrication shop
- Mobile machining

MOLD REMEDIATION SERVICES

MOLD. A FOUR-LETTER WORD WITH A NASTY REPUTATION.

LVI removes indoor air contamination caused by molds resulting from water intrusion due to natural disasters, building defects, plumbing failures or other water-related malfunctions.

LVI is well-versed in the cleanup of mold-contaminated environments in all building types. We employ the most up-to-date, effective and proven mold abatement solutions. We respond promptly and provide cost-effective solutions to remediate affected properties as quickly as possible. We also offer drying and dehumidification services.

TOTAL MOLD REMEDIATION CAPABILITIES

- Microbial disinfection
- Moisture mapping
- Air scrubbing and sanitizing
- Structural and HVAC decontamination
- Building containment
- Basement decontamination
- Duct cleaning
- Drying and dehumidification

LVI Services were on site at just over a week after Hurricane Katrina hit. The job LVI faced at the time was tremendous. Three Lakeway was badly damaged by the hurricane, requiring significant debris removal, mold containment and removal, and interior and exterior repairs.

Working conditions were horrendous. Yet despite these tremendously adverse conditions, LVI Services performed all needed and requested tasks in a timely and thoroughly professional manner.

William J. Renton
Special Agent in Charge
U. S. Department of Justice
Drug Enforcement Administration

FIREPROOFING SERVICES

PROTECTING WHAT MATTERS MOST.

LVI workers applying fireproofing to a steel column.

LVI specializes in the expert application of spray-applied fireproofing and intumescent paint to structural steel, including re-application following the removal of asbestos-containing materials or other hazardous contaminants.

Serving both the new construction and renovation markets, we deliver results that meet all code-related requirements and the specifications of project architects and engineers. We perform this technical service for clients in a variety of industries, including commercial, retail, healthcare, and educational institutions.

LVI also installs intumescent paint, a specialized fire-retardant coating for exposed steel. Designed to look like cosmetic paint, this material – typically used for high-profile and architecturally complex buildings – allows the designer to leave the building structure exposed while providing the required fire rating.

LVI has the technical knowledge to ensure that intumescent paint is applied with the appropriate thickness, primers and topcoats to meet all codes and requirements of the project.
LVI's expertise and knowledge in UL, ICBO and ASTM standards and codes is second to none, offering an unsurpassed confidence level.

TOTAL STEEL FIREPROOFING CAPABILITIES

- Spray-applied fireproofing
- Fire-retardant, intumescent paint
- Fire blankets

INFECTION CONTROL SERVICES

PROTECTING PATIENTS FROM CONTAMINANTS DURING HOSPITAL CONSTRUCTION.

LVI has well over two decades of experience protecting hospital personnel and patients from nosocomial infections and contaminants resulting from construction activities.

LVI works in concert with healthcare facility administrators and general contractors to design and implement a series of engineering controls and physical barriers to prevent construction-related airborne contaminants from escaping work zones. These measures reduce the potential for the inadvertent cross-contamination of patient treatment areas.

LVI infection control technicians design and construct physical barriers, strategically place air filtration equipment, and create negative pressurization in order to control particulates. These activities, in conjunction with constructing ante-rooms (decontamination areas), maintaining cleanliness and establishing waste stream controls, significantly reduce the transmission of potentially infectious agents associated with the construction or renovation process.

We have an uncompromising approach to cleanliness and containment and share our clients' mission of keeping patients, employees and visitors safe and healthy. We also offer insurance that has full pollution endorsements and specifically includes mold coverage.

LVI employees are trained in OSHA's Hazard Communication Standard and chemical safety, and we continually communicate with staff via daily safety meetings. We also keep current with guidelines issued by government and industry organizations, including:

- Joint Commission on Accreditation of Healthcare Organizations
- American Institute of Architects
- Centers for Disease Control and Prevention
- National Fire Protection Association

Additionally, our director of restoration is a chemist, toxicologist and industrial hygienist who is certified by the American Society of Healthcare Engineering.

TOTAL INFECTION CONTROL CAPABILITIES

- "Safety Blanket" design and planning
- Dust control
- Noise & vibration reduction/control
- Equipment operation within or adjacent to patient- and staff-occupied buildings
- Airborne contaminant barrier construction
- Negative pressure containments
- Decontamination ante-rooms construction
- Air scrubbing systems and monitoring
- Particulate count documentation
- Hazardous material (HAZMAT) abatement
- Radiation clean-up
- Mold and biological contaminant remediation
- Waste stream controls and disposal

LVI worker re-sealing containment barrier during hospital renovations

EMERGENCY RESPONSE & DISASTER RECOVERY SERVICES

MINIMIZING DAMAGE AND DISRUPTION TO BUSINESS AS USUAL.

LVI offers expert emergency response and recovery services nationwide to minimize damage and disruption for our clients following all types of emergencies and disasters, both manmade and natural.

Our goal is to restore your businesses safely, cost-effectively and within a prescribed schedule. Our expertise and quick action help ensure that our clients suffer the least possible damage as the result of a catastrophe. With a national network of more than 35 offices and a self-performing, cross-trained workforce of approximately 3,500 employees, we can immediately dispatch teams ranging from 10 workers to thousands, depending on the scale of the emergency.

TOTAL EMERGENCY RESPONSE CAPABILITIES

- Pre-recovery disaster planning
- Damage inspection and assessment
- Small- to large-scale cleanup
- Building dry-in
- Temporary power
- Emergency board-up services
- Water extraction, soot clean-up and odor removal
- Structural restoration and remediation
- Salvage mitigation & intermediary - brand label liability
- Electronic data, document, and record recovery
- Structural drying and dehumidification
- Hazardous material abatement
- Mold, biological, and chemical remediation
- Interior/structural demolition
- Debris removal and disposal

I want to thank you and the NorthStar /LVI team for responding quickly to our extraction and drying needs at the W last month. Your team addressed the water issue and helped us to mitigate the event with minimized business interruption.

Our engineering and management staff commented on how professional your workers handled themselves as well as on their attention to 'housecleaning.' It was also noted that your paperwork was exceptional.

Thomas Trudo
Project Director, Real Estate Group
Starwood Hotels & Resorts Worldwide, Inc.

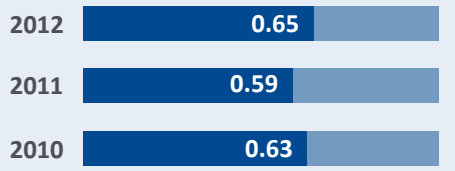
LVI emergency response workers clean up following devastating wildfires near San Diego

WHY LVI?

"TARGET ZERO" SAFETY

A SAFETY RECORD SECOND TO NONE.

LVI'S EXPERIENCE MODIFICATION RATE (EMR)



Safety is not just a goal, it is a responsibility. With safety statistics below industry average for more than 20 years, safety is one of LVI's main competitive advantages.

We are committed to delivering quality work with the safety and health of our employees as a top priority. This responsibility goes far beyond compliance with regulatory requirements, exceeding minimum standards and helping us achieve safe work environments on every project.

Training is key and continuous evaluation of our work practices helps maintain the positive trend we have seen in our safety statistics for the past several years. Our detailed employee handbook sets the stage for safety. Project managers to superintendents have all earned OSHA 30-Hour Certifications. These comprehensive education programs further help safeguard project safety.

Our dedicated staff of full-time safety professionals is involved in every phase of a project, working closely with OSHA-certified superintendents and project managers to ensure maximum safety. Safety representatives conduct comprehensive compliance inspections to ensure each project is in line with company policies, client requirements and governing regulatory standards.

Safety and quality are critical elements of LVI's commitment to our customers to deliver quality projects on time, within budget while maintaining a safe work environment for employees, client personnel, and the public alike.

> ***LVI's proactive, conscientious and professional manner, in which they prosecuted their work, set the proactive safety example for many of the follow-on contractors.***
>
> Larry Hensley
> Senior Safety Officer
> & Quality Assurance Inspector
> Pentagon Renovation Office

LVI HAS BEEN RECOGNIZED FOR SAFETY ON NUMEROUS PROJECTS.

- **PLATINUM AWARD, 2010,** Harvard University Contractor Safety Assessment Program (CSAP), *ConstructSecure*
- **OUTSTANDING SAFETY RECORD, 2007**
  Pentagon Renovation & Construction Program Office
- **SAFETY AWARD, BARTLESVILLE, 2007**
  ConocoPhillips
- **SUSTAINED SUPERIOR SAFETY PERFORMANCE AWARD, 2005,** *Second Brigade Complex Barracks, Phase I & II*
  U.S. Army Corps of Engineers

PEOPLE

THE BACKBONE OF LVI'S SUCCESS IS OUR PEOPLE.

LVI performs our work with our own highly-trained employees. By eliminating labor suppliers, we provide higher quality work in compliance with your specifications and requirements.

Our strong track record for performance and safety enable us to recruit the most qualified employees, many of which remain at LVI their entire career.

With more than 100 project managers, 100 superintendents, and key managers each bringing 25 or more years of relevant industry experience, our bench strength surpasses our competitors. In addition to these key staff, our labor force numbers more than 2,000 cross-trained staff deployed throughout the U.S. with a contingency of 1,500 field staff to meet any unanticipated needs.

We provide extensive training in operations and safety and maintain incentive programs for all levels of management with performance criteria keyed to on-schedule performance, no loss-time injuries and no environmental violations. Cross-training in more than one specialty trade helps provide greater flexibility in staffing projects to peak performance.

LVI'S BENCH STRENGTH ★

100 Project Managers

100 Project Superintendents

2,000 Cross-Trained Field Staff

1,500 Contingency Labor Force

HEAVY EQUIPMENT

LARGEST COMPANY-OWNED FLEET IN OUR INDUSTRY.

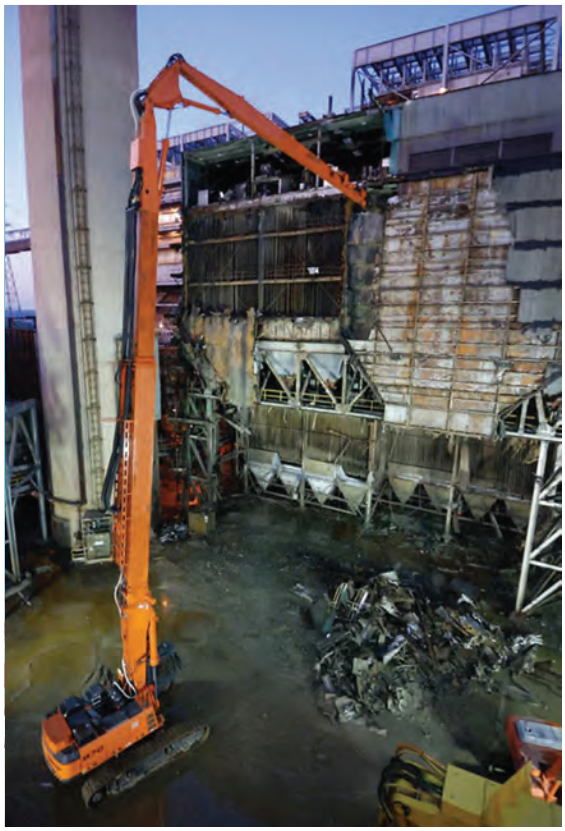
LVI is well-positioned to supply the needed equipment and materials for your project in good, safe, and operable condition. With the ability to deploy our own fleet of equipment we maintain control of the project, reduce downtime, and keep projects on-schedule.

Our fleet is equipped with state-of-the-art technology including global tracking, machine diagnostics & maintenance, on-board dust suppression systems, and machine attachments that reduce vibration, dust and noise. Our impact breakers have the lowest decibel readings in the industry.

In the event that LVI requires additional equipment beyond our inventory, we are able to call upon our strong relationships with equipment leasing companies to meet those needs. LVI also has agreements in place with the nation's top three material providers and similar agreements for preferred pricing on various sub-trades, including hauling and disposal.

LVI'S GROWING INVENTORY

150 Trucks	*80 Attachments*
100 Skid Steers	*30 Loaders*
75 Excavators	*5 Dozers*



PROPRIETARY TECHNOLOGY

INNOVATION FOR YOUR BENEFIT.

LVI is a leader in the use of innovative technologies for the benefit of our clients and the industry.

REAL-TIME COST ACCOUNTING

LVI employs a sophisticated, real-time, fully integrated computer cost accounting system to monitor labor, equipment, supplies, subcontractors and other project costs daily with perpetual inventory identifying in detail all consumables and small tools used on every project.

HIGH-PRESSURE WATER JETTING

LVI piloted the use of high-pressure water jets to efficiently remove lead-based paint and asbestos.

BIOMETRIC TIME CLOCK

LVI installs biometric time clocks for its payroll system on large projects. These clocks minimize payroll errors and improve jobsite security. All field worker time is recorded and transmitted via satellite to our payroll center. The system provides accurate cost accounting information and is a better method of tracking time. Debit cards are issued to enable delivery of payroll in a paperless, secure manner. LVI is one of the few specialty contractors of its kind that has incorporated this technology into its business operations.

LVI's biometric time clock system on large projects improves payroll accuracy and jobsite security

BONDING & INSURANCE

LARGEST BONDING CAPACITY & BEST INSURANCE IN OUR INDUSTRY.

In addition to having significant working capital, LVI has an aggregate bonding capacity in excess of $235 million, and holds the most reliable insurance rating in the industry.

$235 Million Bonding Capacity	***$30M Per Occurrence Pollution Coverage***	***A+ A.M. Best Rating***

LVI differentiates itself further by being one of the very few, if not the only, specialty contractor in our field that has an Environmental CGL Policy that covers all pollutants, including asbestos, lead, and other hazardous materials, causing bodily injury or property damage due to dispersal, seepage, migration or release at any time during the course of a project.

PROFESSIONAL ASSOCIATIONS

ACTIVE LEADERS IN OUR INDUSTRY AND LOCAL COMMUNITIES.

LVI maintains memberships in a wide range of important trade associations at the national and branch office level.

WASTE MANAGEMENT FOR LEED CERTIFICATION

A LEADER IN SUSTAINABLE WASTE DIVERSION AND RECYCLING.

In concert with LVI's standard policy to divert the highest percentage of construction and demolition waste from landfills, we also assist clients seeking LEED Certification.

Achieving Leadership in Energy and Environmental Design (LEED) certification is the best way to demonstrate that your project is truly sustainable. LVI regularly assists our clients with meeting the selected certification goal through our innovative recycling and waste diversion procedures.

Our standard goal is to redirect a minimum of 75% of recyclable recovered resources back to the manufacturing process or redirect reusable building materials to the appropriate end users.

To pursue the LEED certification sought, adjustments are made to diversion levels, procedures and impacts.

Certification level and corresponding diversion goals are identified early in the design stage, as higher levels may have cost as well as scheduling impacts. LVI assists during the budgeting process to assure that full impacts are recognized as soon as possible.

Often during the project, LVI appoints a Recycling Field Coordinator responsible to coordinate the enforcement of the LVI Construction Waste Management and Recycling Plan through monitoring, documentation, and training activities.

AWARDS & PRESS

RECOGNITION OF SAFETY & PERFORMANCE EXCELLENCE.

LVI is frequently recognized for our superior service, safety achievements, and innovative technology and methods from national media and industry organizations.

#1 ABATEMENT CONTRACTOR IN THE U.S. SINCE 1999

#1 DEMOLITION CONTRACTOR IN THE WORLD SINCE 2007

OUTSTANDING SUBCONTRACTOR AWARD, 2007 & 2008
Turner Construction

TOP 5 DEMOLITION & WRECKING CONTRACTOR IN THE U.S.
Engineering News Record (ENR)

5TH LARGEST ALL-ENVIRONMENTAL FIRM IN THE U.S.
Engineering News Record (ENR)

PLATINUM AWARD, 2010, Harvard University Contractor Safety Assessment Program (CSAP), *ConstructSecure*

OUTSTANDING SAFETY RECORD, 2007
Pentagon Renovation & Construction Program Office

SAFETY AWARD, BARTLESVILLE, 2007
ConocoPhillips

CERTIFICATE OF EXCELLENCE, 2006 & 2007
Sunoco

SUSTAINED SUPERIOR SAFETY PERFORMANCE AWARD, 2005
Second Brigade Complex Barracks, Phase I & II
U.S. Army Corps of Engineers

INDUSTRIES & CLIENTS

27 YEARS OF SERVICE TO INDUSTRY LEADERS.

LVI serves a diverse range of industries and clients, including many Fortune 500 companies.

GENERAL CONTRACTORS

AECOM
Balfour Beatty
BNBuilders
Bovis Lend Lease
Clark Construction
DPR Construction
Gilbane Building Co.
Hensel Phelps
McCarthy Building
NOVO Construction
KBR
PCL Construction
Shaw
Skanska
Swinerton
TRC
Turner Construction
Tutor Perini
Webcor Builders
Whiting-Turner

OIL & GAS

British Petroleum
Chevron
ConocoPhillips
Dow Chemical
Exxon Mobil
Marathon Oil
Sunoco
Valero Energy

HEALTHCARE & PHARMA

AbbVie
CHC
Cedars Sinai
Children's Hospital
Hoffman
Kaiser
Pfizer
Merck
Mass General
St. Jude
UCLA
UCSD
U of Oklahoma
Yale New Haven

COMMERCIAL

AIG
AT&T
CBRE
Comcast
Goldman Sachs
Hines
JCC
JP Morgan Chase
Liberty Mutual
Equity
MetLife
NYSE
Prudential
Related
TIAA-CREF
Time Warner

INDUSTRIAL

Boeing
Coca-Cola
General Electric
DuPont
Hewlett Packard
Honeywell
IBM
Intel
Johnson Controls
Lockheed Martin
PepsiCo
Raytheon
Samsung
US Gypsum
VMWare
Xerox

GOVERNMENT

Air Force
Army Corps of Engineers
Coast Guard
Customs and Border Protection
Department of Energy
Department of Homeland Security
Department of Veterans Affairs
Federal Aviation Administration
Food & Drug Administration
National Park Service
National Nuclear Security Admin.
Naval Facilities Engineering Command
NASA
US Postal Service
Washington Headquarters Services

EDUCATION

Harvard
NYU
Stanford
U of Arizona
U at Buffalo
U of Illinois
U of Washington
UC Berkeley
UCLA
USC
Yale

RETAIL/FINANCIAL

Bank of America
Disney
Home Depot
JC Penney
Kohls
Kroger
Macy's
Sears Holdings
Staples
Target
Verizon
Walgreens
Walmart
Wells Fargo

POWER

ConEd
Dynegy
HECO
National Grid
NRG Energy
NYPA
PG&E
TECO

HOSPITALITY

Felcor
HCA
Hilton
Host
Hyatt
Marriott
Sheraton
Starwood
Ritz Carlton
W Hotels

NUCLEAR

DOE
Magnox
U of Arizona
U at Buffalo
U of Illinois
U of Washington

OFFICE LOCATIONS

NATIONAL PRESENCE, LOCAL SERVICE.

LVI is licensed in all 50 states to perform demolition, hazardous material abatement and soil & mold remediation - along with its disaster response capabilities. This, combined with our network of 32 branch offices in all major U.S. markets and abroad, enables LVI to deliver the resources, skill, and know-how to your project with aptitude and efficiency.

EVERYWHERE YOU NEED US TO BE.

WEST
Denver, CO
Las Vegas, NV
Los Angeles, CA
Orange, CA
Richland, WA
San Diego, CA
San Francisco, CA
Wahiawa, HI

MIDWEST
Cincinnati, OH
Indianapolis, IN
Chicago, IL
Shawnee, OK

SOUTH CENTRAL
Houston, TX
Orange, TX

SOUTH EAST
Ft. Lauderdale, FL
Knoxville, TN
Orlando, FL
Tampa, FL

NORTH EAST
Albany, NY
Boston, MA
Bristol, PA
East Hanover, NJ
Gaithersburg, MD
Lutherville, MD
Massena, NY
Milford, CT
New York, NY
Pennsauken, NJ
Philadelphia, PA
Pittsburgh, PA
Rochester, NY
Trumbull, CT

I would like to express my appreciation to LVI for professionalism and outstanding efforts in the successful completion of the hazardous removal and interior demolition of the Pentagon Wedge II Renovations project.

By working closely with our superintendent, we were able to complete this project within the time frame of our very aggressive and accelerated schedule.

I look forward to working with your staff again in the future and have no reservations at recommending LVI to potential clients.

Tom Miller, Program Manager
Hensel Phelps Construction Company

LEARN MORE

LVI Services Inc.
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www.lviservices.com

24-HOUR EMERGENCY RESPONSE

(800) 283-2933

LVI SERVICES