

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, unwellcome 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 lay-down 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