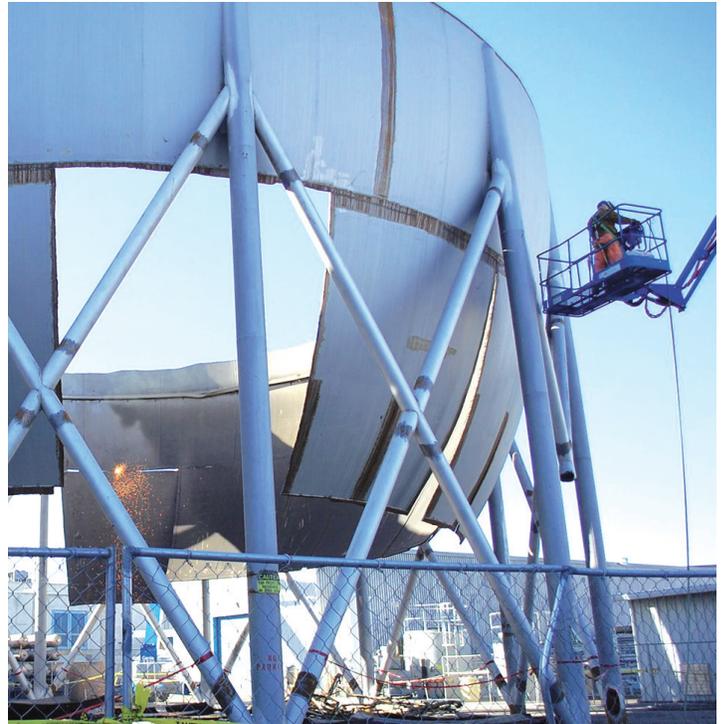


# NASA AMES RESEARCH CENTER 14' WIND TUNNEL | MOFFETT FIELD, CA



Major Research Center



2009



\$1,261,930



NASA Ames Research Center



Hazardous Material Abatement



Structural Demolition



Debris Recycling



Zero OSHA Recordables

LVI completed the demolition and abatement of NASA's Wind Tunnel Test Chamber, a complex steel structure with a massive concrete 'motor hose' built in 1939, and two related office buildings at the Ames Research Center at the Moffett Field facility.

Prior to demolition, all asbestos-containing materials in the buildings were abated and the interior was completely gutted. This included the removal of transite siding and abatement of TSI materials. Drainage and collection of hydraulic and PCB oils was a major portion of the pre-demolition work, and the oils were collected in 55 gallon drums and turned over to NASA/AMES. Extensive lead and chromium abatement was performed on the test chamber building and the test chamber.

Complete structural demolition of the 4-story 75 ft. tall building began after the existing generator equipment was taken out of service on February 15, 2009, and was completed using shear cutting and torch cutting. Excavators were also used, including one of LVI's sophisticated ultra-high reach excavators – a Komatsu 800 series track excavator with a custom-built Jewell high reach boom, which had a working height of 90' and used a 13,000 lb. class Genesis shear.

Extensive recycling, comprising wood, steel and concrete, was accomplished on the project. Approximately 90% of the waste was recycled, including 1800 tons of scrap.

 ZERO OSHA RECORDABLES



Prior to the demolition of the wind tunnel, LVI completed the abatement and demolition of a 75' diameter 90' tall vacuum sphere and related piping and valves at the Arc Jet complex at Moffett. Initial work on the sphere consisted of the abatement of paint, which contained both lead and chromium. After the paint was removed, the sphere was torch cut and lowered in sections by a hydraulic crane. Approximately 200 pieces weighing 3 tons each were rigged and lowered using this method. After the sphere was demolished, the associated pumps, motors and other equipment were removed and taken to an off-site recycler along with all of the steel scrap.

The project was staffed with a full time on site project manager, health and safety manager and site superintendent. LVI provided our own labor crews to self perform the work. Quality assurance services were provided by the Health and Safety Manager. Administrative services were provided by the San Francisco Office.

LVI self performed the project utilizing our own labor resources both skilled and unskilled. We also utilized our own vehicles, equipment, supplies, tools and testing equipment except for hauling of scrap and debris. Waste hauling of hazardous materials was handled by C & H Veteran Enterprises, an SDVOB firm;

hauling of debris was subcontracted to Marshall Trucking, an MBE firm.

The project proceeded free from significant problems. We attribute the success of this project to two primary reasons. 1) The high quality solicitation and specifications provided by NASA at the beginning of the project. 2) Extensive advance demolition and abatement planning by LVI.

The project had excellent safety performance with zero OSHA recordable or lost time incidents. All work was completed by July 2009 within the 300 day time frame allotted for the project.

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