



Decontamination & Decommissioning

Client

US Department of Energy

Location

Livermore, CA, USA

Lawrence Livermore National Laboratory Technical Support Services

Project Description

CH2M HILL is performing decontamination and decommissioning services at Lawrence Livermore National Laboratory under a Master Task Agreement (MTA) contract. We have been issued six task orders under the contract to date.

Two related task orders involve D&D services for the Atomic Vapor Laser Isotope Separation (AVLIS) Separator Demonstration Facility (SDF). The AVLIS was developed as an accelerated and environmentally-clean process to separate fissionable uranium-235 from uranium-238. The program was cancelled in 1999. The D&D task orders being performed by CH2M HILL are for demolition of the AVLIS Demonstration Facility and the associated rooftop ventilation (HVAC) system. The radioactive HVAC removal activities include the removal of the AVLIS HEPA filtration system and the associated 48 inch ductwork. Contamination consists primarily of U-238 and U-235. Planning activities were initiated in November 2004 with plans approved in February 2005. Field work is currently ongoing with a planned completion by the end of March 2005. Field work was initiated in February and completed in March 2005. The work was completed safely with no lost time or recordable injuries and was on schedule and under budget.

The SDF removal activities include the remaining contaminated SDF ventilation system located within the building as well as the U-238 and U-235 contaminated Separator. Component removal included two 45 ton optical chambers, three 25 ton vacuum chambers, and associated laser alignment and material processing equipment. The D&D crew removed the components, worked with LLNL in salvaging certain components, and cleared the main space to future LLNL use. The work was performed safely with no lost time or recordable injuries, and under budget.