

Project Location:

Lawrence Livermore
National Laboratory
Livermore, California

Client:

University of California

Project Scope:

Project Management Planning
Services for the Disassembly,
Removal, and Disposal of
Excess Buildings and Structures

Period of Performance:

January 2004 to January 2007



MOTA Corporation was selected by the Lawrence Livermore National Laboratory (LLNL) Space Action Team (SAT) to perform project management planning services for deactivation, decommissioning, decontamination, and demolition of excess facilities at the main LLNL Site and Site 300. Work was completed on a time and materials task order basis with a not-to-exceed ceiling price and within a specified time period. Specific task orders that were completed include:

- Area 514 RCRA Closure - RCRA closure of Area 514 requiring characterization, sampling, and analysis of various structures, systems, and components and subsurface soil; deactivation of electrical and mechanical systems; removal of installed equipment and components; abatement and decontamination of the remaining building structures as required; demolition of three structures occupying approximately 3,700 square feet; and renovation and replacement of a portion of the exterior of Building 513.
- 2004 Selected Small Structures - Deactivation, decontamination, and demolition (DD&D) of nine temporary office structures. The plan incorporates removal of asbestos containing material (ACM), removal of hazardous material, and demolition.
- Atomic Vapor Laser Isotope Separator (AVLIS) - Decommissioning, decontamination, and removal (DD&R) of the AVLIS uranium separator and laser components, support systems, and equipment from Building 490.
- Building 241 Lowbay Equipment - DD&R of the excess legacy, programmatic gloveboxes, mixers, presses, fumehoods and support equipment from the Building 241 Lowbay. The equipment, having been used in various laboratory projects from the early 1960's, have potential for contamination that includes beryllium oxide, beryllium boride, beryllium hydride, uranium 238, molybdenum, tungsten, lithium, lithium duteride, and lithium hydride.
- Site 300 Buildings - DD&D of seven support facilities with contaminants including uranium 235 and 238 and high explosives (HE). DD&D requires characterization of building structures, systems and components, deactivation of electrical and mechanical systems, radiological and hazardous material decontamination, asbestos abatement, and demolition.
- Building 412 - DD&D of a 28,606 square foot wood frame legacy facility from the early 1940's. The effort includes removal of the building contents, building structure, and above-grade hot cell shielding structures. In addition, the external associated structures will be removed; the concrete slab will be cleared and appurtenances closed; and the below-grade hot cell voids will be safely covered and sealed at grade level.
- Building 212 - DD&D of a 49,000 square foot wood frame legacy facility that contained early experimental accelerators. The tasks included removal of hundreds of concrete shield blocks and tritium decontamination.

Services included for each task order consisted of detailed historical assessment, historical hazards assessment, scope of work definition and planning, task definition and sequencing, total baseline project schedule development, resource planning and leveling, cost estimating, risk management planning, procurement planning, bid specification development, and Project Execution Plan (PEP) development.



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