

Project Location:

Massachusetts Institute of
Technology (MIT),
Bates Linear Accelerator Center
Middleton, Massachusetts

Client:

Argonne National Laboratory

Project Scope:

Accelerator D&D planning

Period of Performance:

February 2003 to April 2003

MOTA Corporation was contract by Argonne National Laboratory (ANL) to assist ANL in advising the US DOE Office of Science of recommended steps to support the eventual decommissioning of the MIT-Bates Linear Accelerator. The project scope provided order of magnitude cost estimates of three decommissioning scenarios for scope content, costs, and schedule. The scenarios were:



- 1) Brown/Greenfield: Complete removal of buildings and equipment to meet government regulatory requirements.
- 2) Cleanup to regulatory requirements and remove accelerator equipment/experiments: Buildings remain with possible transfer of buildings to MIT.
- 3) Cleanup to regulatory requirements and transfer buildings with accelerator equipment intact to MIT.

MOTA visited and toured the facility in February 2003 and derived a list of radiological records, facility drawings, and other pertinent documents for review. In addition, key facility personnel were interviewed to assess operational and radiological data. After review and assessment of the drawings, records, and data, MOTA provided a detailed report with all backup documentation supporting the conclusions. The report consisted of:

- Total costs to implement each scenario;
- Listing of major decommissioning tasks for each scenario;
- Estimates of manpower, disposal/transport, and packaging costs and activity durations;
- Lists of assumptions and limitations for each scenario;
- Estimated durations and conceptual schedules for major D&D tasks;
- Key lessons learned from previous accelerator facility decommissioning.



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Project Performance Features:

- ◆ Detailed project planning for linear accelerator facility decommissioning activities.
- ◆ Development of integrated decommissioning cost estimate and complete project schedule.