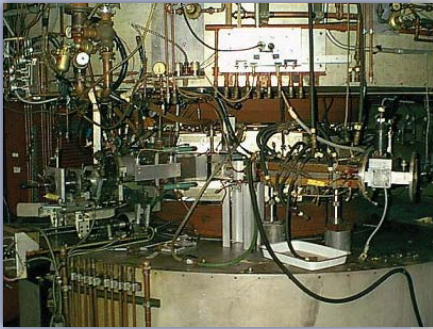


# PROJECT OVERVIEW: Argonne National Laboratory

## Building 211 60-Inch Cyclotron Facility D&D



### **Project Location:**

Argonne National Laboratory  
Argonne, Illinois

### **Client:**

Argonne National Laboratory

### **Project Scope:**

Decommissioning of the  
Building 211 60-inch Cyclotron

### **Period of Performance:**

November 1999 to February 2001

MOTA Corporation was contracted by Argonne National Laboratory to decontaminate and decommission the ANL-E Cyclotron Facility. The facility consisted of a 60-inch cyclotron of double yoke design, the main vault area, service area, and ancillary support rooms including two hot cells. Project activities included:

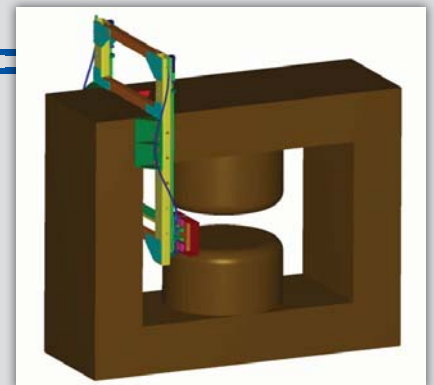
- Preparation of programs, plans, and procedures to support the D&D Project;
- Development of specialty, one-of-a-kind, hydraulically powered, guillotine saw to mechanically segment massive activated steel components;
- Preparation, removal, and packaging of the 265-ton electromagnetic yoke and poles;
- Removal of all hazardous materials including lead and asbestos;
- Decontamination of the radiologically affected areas to "free-release" levels;
- Development and implementation of final survey approach, general survey plan, reference grid system, sample collection including chain of custody protocol, and compilation and interpretation of survey results to free release the facility;
- Development and implementation of plan to segment the cyclotron magnet into individual sections weighing less than 10 tons each, allowing removal with existing equipment and no costly modifications to the building structure;
- Design, fabrication, and installation of temporary bridge support system to allow in-place segmentation of cyclotron magnet yoke and pole assemblies.

*"During the cyclotron work I received many calls from MOTA management verifying that the work was proceeding in a satisfactory manner. This total commitment to the client is very much appreciated by Argonne National Laboratory."*

**Chuck Fellhauer, Dr. Tom Yule**  
Argonne National Laboratory

### **Project Performance Features:**

- ◆ Project planning and field operations oversight for nuclear facility decommissioning activities.
- ◆ Preparation of comprehensive set of programs and procedures including Project Management, Radiological Controls, Health and Safety, Characterization, Asbestos Removal, Sampling and Analysis, Decontamination and Decommissioning, Final Release Survey, and Facility Restoration.
- ◆ Design, fabrication, and delivery of specialty segmentation tooling to segment the 265-ton cyclotron.
- ◆ Effective segmentation of activated metal components by mechanical methods while minimizing and controlling secondary waste.
- ◆ Completion of project on schedule and within budget.



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