

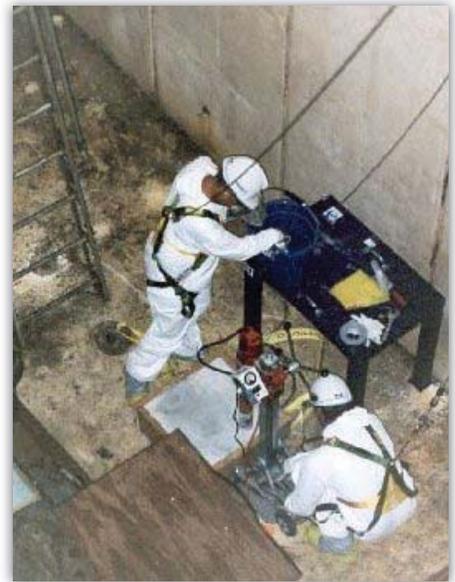
# NASA Plum Brook Station Reactor Decommissioning

Location:	Client:	Duration:	Scope:
NASA Plum Brook Station Sandusky, Ohio	MWH Constructors, Inc.	April 2000 to September 2005	Decommissioning and Removal of Reactor and Support Equipment

Key members of REIN staff were responsible for a contract to provide project management, labor, supervision, and materials for the decontamination and decommissioning of the Plum Brook Reactor Facility at Plum Brook Station near Sandusky, Ohio, for the National Aeronautics and Space Administration (NASA). NASA operated the 60-MW Materials Test Reactor and a 100-KW Mock-up Reactor at Plum Brook Station for over 10 years, conducting experiments on materials used in space flight, before the facility was closed in 1973. At that time, the fuel was removed and the building systems were shut down. In 1998, the Nuclear Regulatory Commission (NRC) asked NASA to decommission the reactor facility in order to terminate its license and allow free release of the 27-acre area for unrestricted use.

Project activities included:

- Preparation of programs, plans, and procedures to decontaminate and decommission (D&D) the entire reactor facility including auxiliary systems;
- Inventory and packaging of items in the hot cells, Quadrant A and C, hot dry storage, and general areas within the reactor building and hot laboratory;
- Transfer of radioactive waste off site for volume reduction and disposal;
- Disassembly, removal, size reduction, and packaging as low-level waste, the reactor vessel, all equipment, beam carts, equipment, piping, and valves;
- Excavation, packaging, and shipment of 10 million pounds of soil that had been lightly contaminated during reactor operations;
- Decontamination of radiologically affected areas to “free-release” levels.



## Project Performance Features:

- ✓ Project management and personnel support for Plum Brook reactor facility decommissioning.
- ✓ Oversight of radiological sampling and surveying through concluding survey activities.
- ✓ Radioactive and hazardous materials and waste management.
- ✓ Compilation of project records and preparation of final reports to confirm accomplishment of project objectives for customer and regulatory agencies.

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