

NASA Plum Brook Station Reactor Site Decommissioning (continuation)

Location:	Client:	Duration:	Scope:
NASA Plum Brook Station Sandusky, Ohio	National Aeronautics & Space Administration	September 2005 to June 2007	Decommissioning and Removal of Reactor and Support Equipment

Key members of REIN staff were responsible for providing Radiation Protection, Engineering and Planning, Site Characterization, Project Management, and Training Services for the continuing 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:

- Sampling and analyzing soil sediment in the areas within and adjacent to the facility. Sampling covers approximately a one and a half mile stretch. More than 1000 samples were taken adjacent to the facility, and also conducted hydrogeology studies.
- Decontamination and removal of remaining fixed equipment from the hot cells that was not completed prior to September 2005. Equipment removal and decontamination work on the hot cells was successfully completed mid-2006.
- Assisting with embedded pipe cleaning and surveying activities.

Project Performance Features:

- ✓ Project management and personnel support for facility decommissioning, including radiation protection and proposal authoring support.
- ✓ Oversight of radiological sampling and surveying through concluding survey activities.
- ✓ Radioactive and hazardous materials and waste management, including asbestos abatement.
- ✓ Compilation of project records and preparation of final reports to confirm accomplishment of project objectives for customer and regulation agencies.