

# PROJECT OVERVIEW: CVNPA Parr Site Reactor

## Removal of Components and Materials

### **Project Location:**

Parr Site  
Jenkinsville, South Carolina

### **Clients:**

Carolinas-Virginia Nuclear  
Power Associates /  
South Carolina Electric & Gas

### **Project Scope:**

Volume Reduction, Removal,  
Packaging, Transportation,  
and Disposal of Reactor  
Components

### **Period of Performance:**

November 2005 to February 2007

MOTA Corporation was contracted by Carolinas-Virginia Nuclear Power Associates (CVNPA) to provide services to remove components and materials (de-planting), including the reactor moderator tank, from the Parr Site reactor facility located 25 miles north of Columbia, South Carolina. The heavy water experimental reactor also provided electrical output to the local grid during operation.

The project scope included identifying and selecting the appropriate cutting methodology and tooling for the moderator tank and remaining internals in addition to the removal of bulk shielding materials and thermal shields prior to the removal, size reduction, and packaging of the reactor cavity lining in preparation for facility demolition.

MOTA's specific scope of work included:

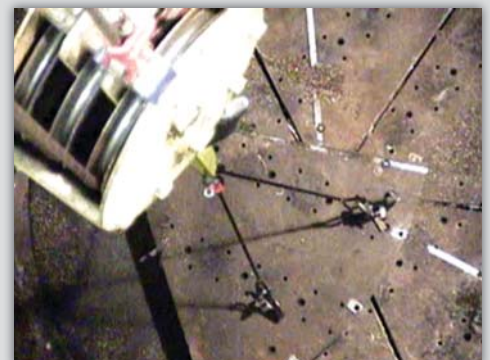
- Developing the project Final Segmentation Plan and work instructions for segmentation, disassembly, and removal;
- Designing, fabricating, and constructing mock-up test assemblies;
- Designing, fabricating, and mock-up testing of specialized moderator tank segmentation and removal tooling;
- Deploying and operating the specialized tooling during operations including specialized rigging to remove ten 24,000-lb thermal shields;
- Integrating all operational and waste management activities, including packaging and transportation.



The on-site activities commenced in January 2006. Moderator tank segmentation and removal commenced on schedule during May 2006, and the project was completed in February 2007.

### **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, and Health and Safety for Decontamination and Decommissioning.



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