

D&D Mission

The mission of the Argonne Decommissioning Program is to be recognized as a leader in the areas of planning, supporting and implementing the process of safe and efficient shutdown (deactivation) and decommissioning of surplus facilities at Argonne, DOE sites, non-DOE sites and foreign sites. The support provided is intended to be based upon a thorough technical understanding of the circumstances and issues involved in the particular facility and the optimization of any and all of these processes, especially incorporation of lessons learned from earlier industry experience. Furthermore, the mission of the program includes outreach to others in the areas of education and training, optimization, sharing of lessons learned, and enhancement of technology as well as technical information exchange.



CP-5 Reactor Site and Decommissioning Activities

D&D Experience

Argonne's D&D Projects Group has been leading and supporting the decommissioning of research reactors and other nuclear facilities at Argonne and other sites within the United States and abroad for over 40 years. The knowledge gained and the lessons learned from this work has been applied to subsequent projects and shared with others. The hands-on decommissioning work was performed using Argonne's in-house labor forces integrated with contractor work forces. Other efforts focused on analysis of strategies and general planning support.

The Argonne D&D Projects group is recognized as subject matter experts in various areas including:

- Project management and execution including cost, schedule, quality and technical baseline management
- "Path Forward" planning, development, preparation and review (Decommissioning Plan, Radiation Protection, Characterization Plan, Health & Safety, Quality Assurance Plan) Project Readiness Reviews and Facility Walk-downs
- Project Health Physics and Industrial Safety Oversight
- NRC Licensing Activities
- License Termination Process
- Quality Assurance Audits and Assessments
- Decommissioning Training

Argonne Decommissioning Projects

Argonne research facilities decommissioned include:

- Experimental Boiling Water Reactor
- Chicago Pile 5 Research Reactor
- JANUS Biological Reactor Facility
- Argonne Thermal Source Reactor
- Building 212 Plutonium Gloveboxes
- 60-Inch Cyclotron Facility
- Building 200 M-Wing Hot Cells (decontaminated for safe storage)
- Building 301 Hot Cells
- Experimental Breeder Reactor-II (placed in safe storage)
- Small-scale D&D projects



Plum Brook Research Reactor

D&D Support to External Customers

The Argonne D&D Projects Group has been providing technical support to various DOE organizations including:

- Tokamak Fusion Test Reactor at Princeton Plasma Physics Laboratory,
- Los Alamos National Laboratory
- Brookhaven National Laboratory
- Savannah River Site
- Mound Site
- Battelle Columbus Laboratories
- Hanford N Reactor
- West Valley Demonstration Project.

The Argonne D&D Projects Group also provides technical support to various non-DOE organizations including:

- The International Atomic Energy Agency
- The OECD/NEA Technical Advisory Group on Decommissioning
- The U.S. Army Aberdeen Fast Pulsed Reactor Facility
- Other foreign reactor facilities.

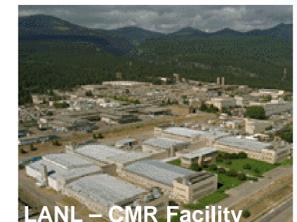
Recently, a team of Argonne decommissioning subject matter experts assigned to the NASA Plum Brook Research Reactor Facility assisted the USNRC licensee in completing facility preparations and other activities setting the stage for final license termination activities at the facility. They provided direct technical support to NASA in this decommissioning activity at the NASA-Plum Brook Station in the areas of construction management, radiation safety, licensing and quality assurance oversight, and industrial safety.

Argonne staff members are currently engaged in providing technical support to a shipborne reactor plant decommissioning project. The U.S. Department of Transportation/Maritime Administration (USDOT/MARAD) is the USNRC license holder for the Nuclear Ship Savannah (NSS). ANL is currently supporting MARAD in preparing for the final decommissioning of the nuclear licensed areas of NSS.

U. S. & International Technical Support



Latvia IRT Research Reactor



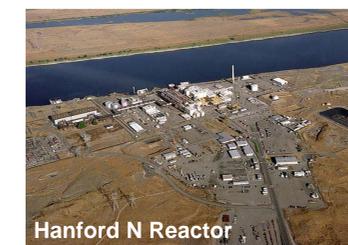
LANL - CMR Facility



Kazakhstan BN-350 Fast Reactor



Romania VVR Research Reactor



Hanford N Reactor



Tokamak Fusion Test Reactor at PPPL

The D&D Projects Group has been conducting D&D training for over eight years. More than 80 in-depth training courses (ranging in length from 1-2 days to 3-weeks) have been conducted for national and international trainees on the decommissioning of nuclear facilities. The courses have focused on various types of contaminated facilities including: power reactors, research reactors, hot cells, glovebox facilities, production reactors, waste management facilities, and other non-reactor facilities. To date, over 2,000 participants from over 60 countries have participated in these training courses. The training courses have been presented at various U.S and international locations and at customer's sites.



An Argonne Organized Decommissioning Training Course