Engineering Development Laboratory

Fabrication, Assembly, and Testing of Research, Development, and Production Equipment

The Engineering Development Laboratory is used for fabrication, assembly, mock-up and testing for the Space Nuclear Power & Isotope Technologies Division.

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The Engineering Development Laboratory (EDL) is used to fabricate, assemble, mock up and test various research, development and production equipment. The majority of work conducted in EDL is for the Space Nuclear Power & Isotope Technologies Division. The EDL is a non-nuclear facility, managed as a laboratory space in accordance with Idaho National Laboratory work control requirements.

The EDL occupies most of Building 772 at the Materials and Fuels Complex (MFC). Two rooms within the building are used by the MFC Quality Assurance organization for nondestructive examinations, e.g., radiography and film processing. Two mezzanines, which constitute the second floor, can be moved to accommodate tall equipment (30-foot floor-to-crane hook). The facility includes equipment and gloveboxes for welding, including an electron-beam welder; furnaces for bake-out of graphite components; forming equipment for heat source hardware; and various machine tools.

BASIC CAPABILITIES:

- Fabrication
- Assembly
- Mock-up
- Testing

KEY INSTRUMENTS:

- Inert-atmosphere gloveboxes
- High-temperature bake-out furnaces
- Welding systems
- Forming equipment
- Pre-assembly operations for radioisotope power systems

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