



*Project Scope:* Engineering/ Design Drawings; Seismic Analysis; Fabrication; Lead Installation; Final Assembly; Pressure Decay Leak Testing; Functional Testing; ASME NQA-1. Value: \$1,000,000.

The EML Hot Cell was supplied to BEA for support of their *Reduced Enrichment for Research & Test Reactors* (RERTR) program, used to examine irradiation experiments. Materials can be transported to and from a larger hot cell using a Springs Fab designed shielded container ("Pig") with a double door transfer port. Master-Slave Manipulators were supplied by BEA, installed and tested by Springs Fab. The cell is heavily shielded with permanent lead and hinge mounted lead glass windows (50 ton, fully assembled). The engineering phase of the project involved production of preliminary design drawings, design review, detailed mechanical and electrical drawings, and structural/seismic calculations. A custom airlock with a sliding tray was part of the design. Springs Fab fabricated the hot cell and Pig, assembled the cell, installed manipulators, and conducted helium leak/pressure decay testing, and functional testing.