

**ARGONNE NATIONAL LABORATORY – IAEA COORDINATED RESEARCH PROJECT
ON DEVELOPING TECHNIQUES FOR SMALL-SCALE INDIGENOUS ⁹⁹MO
PRODUCTION USING LEU FISSION OR NEUTRON ACTIVATION**

Argonne National Laboratory (ANL) in the United States was active in the Consultancy Meeting that defined the scope of this CRP and has been involved from the beginning as an Agreement Holder. ANL's major role in the CRP was providing two technologies free of charge, namely: (1) the annular LEU-foil target and, (2) the LEU-Modified Cintichem process. In addition to providing a range of documents describing the fabrication, irradiation history, and disassembly of the LEU-foil target; procedures and QC for the LEU-Modified Cintichem process; and guides describing handling of radioactive materials and gamma and alpha counting of radioactive samples, ANL also worked with Indonesia to hold a workshop demonstrating all aspects of the technology for the two technologies.

ANL also provided equipment, supplies, and reagents to many of the Contract Holders that are necessary to fabricate, disassemble, and dissolve the targets, and develop/demonstrate the LEU-Modified Cintichem process in their facilities. Technical visits were made to many of the Contract Holder facilities, and Agreement Holder staff members were invited to ANL for the same.

ANL participated in all RCMs and workshops, and presented ongoing development activities, including the means to calcine the high-activity waste from processing.

ANL plans on continuing technical assistance to Contract Holders as required.