

DRAFT
Request for Proposal – Idaho National Laboratory
February, 2004

PART III SECTION J, ATTACHMENT P
MANAGEMENT OF SPECIAL NUCLEAR MATERIAL,
SPENT NUCLEAR FUEL,
AND RADIOACTIVE WASTE

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**Management Of Special Nuclear Material,
Spent Nuclear Fuel, And Radioactive Waste**

Special Nuclear Material (SNM)

The INL Contractor is responsible for the safe and effective management of all NE-owned SNM presently located at the Test Reactor Area and ANL-W facilities. These materials shall be managed in accordance with the governing DOE Orders and consistent with DOE policy. Management of SNM shall be cost effective. The INL Contractor shall cooperate with the ICP Contractor for their removal of EM-owned SNM from the NE facilities.

Spent Nuclear Fuel (SNF)

The INL Contractor shall be responsible for the safe and effective management and disposition planning for the NE-owned SNF. Through FY 2010, the INL Contractor shall be responsible for the transfer of SNF from the ATR to INTEC. During this period, the INL Contractor shall be responsible for delivering a loaded cask to the INTEC gate,. The INL Contractor must develop capacity to manage ATR SNF through final disposition beyond FY 2010. This includes having any new interim storage capability on-line for the ATR spent fuel, as well as a path for final disposition (e.g., repository or reprocessing). Between the beginning of FY 2007 and the end of 2009, the INL Contractor shall receive all EBR-II SNF stored at CPP-666. The INL Contractor shall work with INTEC to establish the detailed schedule for shipping/receiving EBR-II SNF. The INL Contractor shall be responsible for all preparations for receipt and interim storage as well as any necessary processing/treatment of all EBR-II fuel (that received from INTEC as well as that stored at ANL-W), and final disposition of the resulting products. The loaded cask of EBR-II SNF will be delivered to the ANL-W gate, where the INL Contractor shall take custody for unloading, return of the cask to the INTEC gate and future disposition of the spent fuel.

Any new SNF interim storage or handling capacity developed by the INL Contractor shall be designed and located consistent with the future nuclear mission of the INL.

Radioactive Waste

The existing low-level waste disposal capability at the Radioactive Waste Management Complex shall be available to the INL Contractor through FY 2008 for contact-handled LLW, and FY 2009 for remote-handled LLW. The INL Contractor shall be responsible for delivering the LLW to the RWMC gate, where the ICP Contractor will take custody of the transport vehicle and shipment for disposal.

The INL Contractor shall develop an alternate disposal capacity (off-site) and have this disposal capacity on-line by October 1, 2008 for contact-handled, and by October 1, 2009 for remote-handled LLW. The new disposal capacity shall include any required supporting transportation system needed to accommodate both INL and, if necessary, other tenant (e.g., NRF) remote-handled waste.