

Update of FCRD-SFWST-2016-000067End of Year Lab Contribution to R&D Investigation

Work Package FT-12IN080302

Milestone No. M4FT-12IN0803021

- Work Package Status:

The INL S&T R&D Investigations Work Package began with \$349,703 in FY12. The year ended with actual costs of \$321,345 and \$28,358 uncosted. The uncosted funds will be used to pay for outstanding commitments to EnviroServices for work performed in FY12.

- Accomplishments for FY 2012:
 - Staff prepared three sections for an RD&D plan under a BCP direction. The plan outlined the science portion of RD&D to address gaps. These included drying, neutron poisons, and dry storage transfer.
 - Staff continued to support EPRI ESCP meetings, the EPRI steering committee, and the NEI dry storage task force.
 - Staff chaired an IAEA technical meeting on extended storage and at the request of NRC participated in a consultancy on Extended Spent Fuel Storage Beyond the Long Term. Staff prepared a report entitled Long Term Storage of Spent Nuclear Fuel – Survey and Recommendations.
 - INL staff prepared an Annotated Bibliography for Drying Nuclear Fuel (INL/EXT-11-23561) and presented this material at an ASTM drying standard committee meeting.
 - INL staff supported development of DOE responses to the Blue Ribbon Commission. Staff participated in the Transportation Routing Safety and Security Integrated Task Team in support of the BRC.
 - INL staff supported development of the Level 2 Milestone Gap Prioritization and Closure Plan
 - INL staff supported development and finalization of the Gap analysis to Support Extended Storage of Used Nuclear Fuel.
 - INL prepared an industry summary of Used Nuclear Fuel Storage and transportation that summarized conclusions, activities, and recommendations from reports released by several organizations.
 - INL staff supported completion and issue of Review of Used Nuclear Fuel Storage

and transportation Technical Gap Analyses and presented an overview of drying issues gleaned.

- **Future Planned Activities:**

- The R&D work package was remapped into the experimental work package in FY13. INL will continue to support finalization of the documents from the R&D work package and begin experimental investigations.