FY14 DOE R&D in Support of the High Burnup Dry Storage Cask R&D Project

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Experiments: Stainless Steel Canister Corrosion

Purpose: Better understand canister degradation, support Aging Management Plans, and license extensions.

- Develop data to understand initiating conditions for corrosion conditions and progression of SCC-induced crack growth
- Obtain site data to assess atmospheric conditions and compare with initiating conditions.
- Procure a full scale (diameter) welded SS canister to investigate residual stresses due to plate rolling and welding.

Enos, et al., Data Report on Corrosion Testing of Stainless Steel SNL Storage Canisters, FCRD-UFD-2013-000324