



U.S. DEPARTMENT OF
ENERGY

Nuclear Energy

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

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U.S. Department of Energy**

**Nuclear Waste Technical Review Board Meeting
August 6, 2014
Idaho Falls, Idaho**



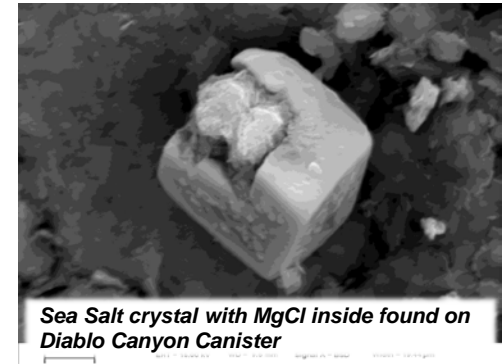
Experiments: Stainless Steel Canister Corrosion

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

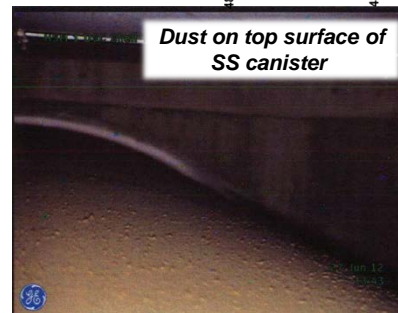
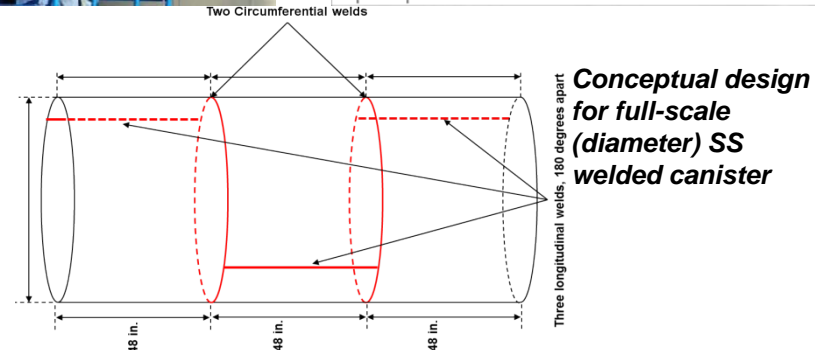
- Develop data to understand initiating conditions for corrosion conditions and progression of SCC-induced crack growth
- Obtain site data to assess atmospheric conditions and compare with initiating conditions.
- Procure a full scale (diameter) welded SS canister to investigate residual stresses due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



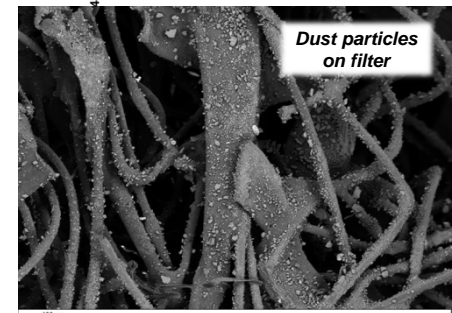
Collecting dust samples at Diablo Canyon



Sea Salt crystal with MgCl inside found on Diablo Canyon Canister



Dust on top surface of SS canister



Dust particles on filter