



# Potential Collaboration Work with European Commission

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Workshop on Design and Assessment of Packages for  
Radioactive Waste, Bergen, The Netherlands

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# Potential Collaboration Work with EC

- Studsvik Cladding Integrity Project (SCIP): hydride effects
- ASTM Round Robin Tests on the Dissolution of Spent Nuclear Fuel (SNF)
- ASTM Workshop “Hydride Re-Orientation in Zirconium Alloys”
- Organization for Economic Cooperation and Development (OECD)/Nuclear Energy Agency (NEA) and International Atomic Energy Agency (IAEA) supported Symposium “Long Term Prediction of Corrosion Damage in Nuclear Waste System”
- Bundesanstalt für Materialforschung und –prüfung (BAM, Germany) and NRC - Canister Drop Test

# Potential Collaboration Work with EC (Cont'd.)

- Radioactive Hot Testing of SNF: dissolution, solubility limit, and sorption
- Radioactive Hot Testing of Cladding: swelling of the matrix of spent nuclear fuels, and bonding/chemical reaction of the cladding and the matrix of SNF
- Information Exchange
  - American Society for Testing and Materials (ASTM) and American Society of Mechanical Engineers (ASME) Standards/Guides: long-term materials prediction, and modified pressure vessel codes in welding
  - NRC Guides: Regulatory Guides, Interim Staff Guidance, and Standard Review Plans

## *Disclaimer*

The NRC staff views expressed herein are preliminary and do not constitute a final judgment or determination of the matters addressed or of the acceptability of a license application for a geological repository at Yucca Mountain.