

USED FUEL STORAGE AND TRANSPORTATION ISSUE RESOLUTION PLAN

Issue Number: N-10-01

Title: Dry Spent Fuel Storage Canister Stress Corrosion Cracking in Coastal Marine Atmospheres

I. Summary of Resolution Plan

Industry and NRC will interact in public meetings and through letters to achieve the following:

Acquire and document data to determine:

1. The minimum conditions defining a coastal marine atmosphere where the potential for SCC exists.
2. The time scales under which SCC could occur, based upon actual atmospheric and cask conditions.

II. Actions and Due Dates

ACTION	RESPONSIBLE PARTY	DUE DATE
Public meeting to discuss the data acquired in NRC and EPRI research	NRC/Industry	Complete – 3/14/11
Industry develop draft criteria for the minimum conditions defining a coastal marine atmosphere under which SCC of canister confinement boundary made of austenitic stainless steel (304, 304L, 316L) could occur (e.g. relative humidity, chloride concentration in air, distance from salt water, cask surface temperature), and a method for determining the condition based time scale under which SCC could occur (e.g. screening criteria)	Industry	April – September, 2011
EPRI acquire field data for casks deployed at ISFSIs in coastal marine atmospheres which will support the basis of the condition based time scales under which SCC could occur	Industry	June 2011 – February 2012
Public meeting for Industry to present preliminary criteria defining coastal marine atmospheres and a method for determining the condition based time scale under which SCC could occur	NRC	September 2011
Develop and issue a white paper with criteria defining coastal marine atmospheres and a method for determining the condition based time scale under which SCC could occur (e.g. screening criteria)	Industry	30 days after public meeting
NRC review and provide written comments on ISFSI SCC screening criteria	NRC	60 days after receipt of white paper
Industry finalize ISFSI SCC screening criteria	Industry	30 days after receipt of NRC comments
ISFSI owners use screening to identify SCC-susceptible ISFSIs and time scales	Industry	60 days after finalizing screening criteria
Public meeting to discuss screening results	NRC/Industry	30 days after ISFSI owners performing screening of their site (approximately April 2012)

III. Date: _____