

NRC FORM 699 (9-2003)		U.S. NUCLEAR REGULATORY COMMISSION		DATE
CONVERSATION RECORD				08/29/2011
				TIME
				11:00am
NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU		TELEPHONE NO.		TYPE OF CONVERSATION
See Below.				<input type="checkbox"/> VISIT
ORGANIZATION				<input type="checkbox"/> CONFERENCE
Department of Energy				<input checked="" type="checkbox"/> TELEPHONE
SUBJECT				<input type="checkbox"/> INCOMING
Additional Information Request				<input checked="" type="checkbox"/> OUTGOING
SUMMARY (Continue on Page 2)				
NRC Participants: William "Chris" Allen and Matt Gordon				
DOE Participants: Ken Whitham, Barb Beller, Anthony Marshbank, Randall Elwood, Michael Wilburg, Greg Hall				
<p>The attached questions were distributed prior to commencing the call. In response to the first question about the source of the iron oxide (rust) mentioned in Engineering Design File (EDF) 8903, DOE identified the rust source as exposure of the outer layer of rebar to the water penetrating the Horizontal Storage Modules (HSMs). DOE also reiterated the steps they had taken to mitigate further oxidation. DOE also stated they planned to evaluate these actions for possible incorporation into an aging management plan (which would be developed as part of license renewal efforts). In response to the second question, DOE explained that the cracks emanated from the thru hole penetrations which are positioned at the corners in the HSM roof slabs. DOE also clarified that the widest parts of the cracks were located at the peripheral faces of the HSM roof slabs. Thus, the concrete degradation occurred at locations and in areas which did not contribute significantly to the structural strength of the HSMs. DOE also stated that the word "cosmetic" in EDF 8903, which was issued in 2008, had been discontinued. Based upon these explanations, staff determined that mathematical estimations were not required. The call was concluded at approximately 11:30 A.M.</p>				
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ACTION REQUIRED				
None.				
NAME OF PERSON DOCUMENTING CONVERSATION		SIGNATURE		DATE
Chris Allen		<i>William C. Allen</i>		09/07/2011
ACTION TAKEN				
TITLE OF PERSON TAKING ACTION		SIGNATURE OF PERSON TAKING ACTION		DATE

Matthew Gordon
TMI-RAIs

- RAI1) Explain the source of the iron oxide (rust) staining on the Horizontal Storage Modules (HSMs) as mentioned in Engineering Design File-8903 and justify that there has been no significant affect on the safety functions of the HSM due to corrosion.

The presence of rust staining implies corrosion of metal inside the HSM. It is unclear if the inner canister or reinforcement of the concrete has been exposed to water and to what extent corrosion has taken place.

This information is required to demonstrate compliance with 10 CFR 72.120(d).

- RAI 2) Justify that the cracking present on the Horizontal Storage Modules (HSMs) will not affect the ability of the HSMs to meet the requirements of 10 CFR 72.122(b)(2). At a minimum, support any justification with appropriate mathematical estimations.

Engineering Design Files document "cosmetic" cracking, which is a qualitative term. The "cosmetic cracking" includes cracks wider than 3mm, therefore the staff is requesting additional information to justify that the HSMs still meet the design basis.

This information is required to demonstrate compliance with 10 CFR 72.122(b)(2).