

From: Allen Hiser, *NRA*
To: CRDM Contacts
Date: 9/28/01 1:57PM
Subject: STAFF ASSESSMENT OF BULLETIN 2001-01 RESPONSES

NRC staff has completed its review of licensee responses to Bulletin 2001-01, related to circumferential cracking of control rod drive mechanism (CRDM) nozzles. The staff review focused on those plants with a history of cracking or leakage in these nozzles, and those plants with a high susceptibility to cracking. The attached table ("Color-Table3") provides a summary of the staff's findings. Of particular interest, the inspection plans and inspection history for H. B. Robinson, Davis-Besse, North Anna Unit 2, and Surry Unit 2 may not be sufficient to provide reasonable assurance of nozzle integrity until those licensees conduct their next inspections of their CRDM nozzles. For North Anna Unit 1, the staff is still reviewing the licensee's findings from its on-going inspection efforts.

To inform these licensees of the staff's findings, Brian Sheron contacted appropriate management levels of each licensee this morning. The talking points used in those phone calls are provided in the attached file "Talking Points." As indicated, the licensees were asked to consider acceleration of their inspection plans in accordance with the Bulletin, e.g., by the end of 2001, and to consider implementation of a more meaningful examination if the plant-specific qualification of their visual examination is not possible.

We expect to have additional staff-level phone calls with Davis-Besse and Robinson early next week.

If you have any questions on this information, you can contact me at 301-415-1034 or Jake Zimmerman at 301-415-2426.

Allen

CC: Brian Sheron; Farouk Eltawila; Jack Strosnider; Keith Wichman

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OUTLINE FOR PHONE CALLS WITH LICENSEES FOR:

DAVIS-BESSE, H.B. ROBINSON, NORTH ANNA UNIT 2 & SURRY UNIT 2

Purpose of Call: To provide licensees with initial feedback on staff review of their response to Bulletin 2001-01, and indicate the need for licensees to re-think and possibly revise their responses

Staff Review of the Bulletin Responses

- Focused on plants with cracking or leakage history and high susceptibility rankings
- Assessment of whether the response demonstrates reasonable assurance of the structural integrity of their vessel head penetration nozzles

Key Staff Acceptance Screening Criteria - Acceptability of response based on

- Past inspection method and timing
- Future inspection plans, including inspection method and timing

Evaluation of the Response for Their Plant

- Past inspection does not provide reasonable assurance of nozzle integrity -- not a qualified visual inspection of 100% of nozzles
- Timing of next inspection is not adequate -- there isn't reasonable assurance of nozzle integrity prior to the next inspection
- Questions regarding ability to qualify visual examination for the plant

Licensee Should Reconsider

- Acceleration of inspection plans in accordance with the Bulletin (e.g., by the end of 2001)
- A more meaningful examination if the plant-specific qualification of their visual examination method is not possible

Feedback to Staff (Jake Zimmerman & Allen Hiser)

Pre-decisional Information - Not for Public Disclosure

PLANTS WITH CRACKING/LEAKAGE HISTORY (BIN 1) AND HIGH SUSCEPTIBILITY PLANTS (BIN 2)

Plants	Last Inspection		Next Inspection				CCDP* (IPE)	Regulatory Action Proposed ?
	Date	Method	Date	Method	Method	Method		
Oconee 1	11/2000	Qual. Visual - 100%	03/2002	OK	Qual. Visual - 100%	OK	1E-2 3.5E-3 (Response)	NO
Oconee 2	04/2001	Qual. Visual - 100%		OK	Qual. Visual - 100%	OK	1E-2 3.5E-3 (Response)	NO
Oconee 3	2/2001	Qual. Visual - 100%	11/2001	OK	Qual. Visual - 100%	OK	1E-2 3.5E-3 (Response)	NO
ANO-1	08/2001	Qual. Visual - 100%		OK	Qual. Visual - 100%	OK	3E-3	NO
D.C. Cook 2	09/1994	ID NDE - 91%	11/2001	OK	Remote Visual & ECT/UT	OK	4.7E-3	NO
Surry 1	Spr. 2000		10/2001	OK	Qual. Visual - 100%	OK	5.3E-3	NO **
TMI-1	09/1999	Eff. Visual - 100%	10/2001	OK	Qual. Visual - 100%	OK	7.5E-3	NO
North Anna 1	02/1996	ID NDE - 31%	09/2001	OK	Qual. Visual (100%) & ECT/UT ****	NO	6.6E-3	YES ****
Robinson	04/2001	Visual - Partial		NO	Qual. Visual - 100%	NO	2E-2	YES****
Davis-Besse	03/2000	Visual - Partial	04/2002	NO	Qual. Visual - 100%	OK	6.9E-3	YES
North Anna 2	Spr. 2001			NO	Qual. Visual - 100%	NO	6.6E-3	YES****
Surry 2 & 3	Fall 2000		08/2002	NO	Qual. Visual - 100%	OK	5.3E-3	YES**

* Conditional core damage probability.

** Licensee has committed to qualified visual examination per conference call (September 21, 2001).

*** Prior inspection at last RFO, in accordance with GL 88-05 & GL 97-01.

**** Licensee may or does not have sufficient information to demonstrate that last inspection was a qualified visual examination.