

MAR 29 AM 8:55

Allegation Number NRR-1998-A-0011  
TAC No. MA0857

1. The NRR Allegation Review Board met on February 16, 1999, at 1:35 p.m.

2. Present at the meeting were:

|              |               |
|--------------|---------------|
| D. Matthews* | D. Murphy     |
| C. Thomas*   | J. Stang      |
| B. Boger     | J. Lee*       |
| C. Carpenter | F. Tobler*    |
| R. Correia   | M. McAllister |
| J. Lucey     |               |

RII by Phone  
P. Frederickson O. DeMiranda

3. Facilities/organizations involved: Westinghouse, Cook, McGuire, Watts Bar, and Sequoyah
4. Allegation: See attached table
5. This allegation was previously assigned to PDIII-2 (J. Stang) for resolution. The initial ARB meeting was held on February 26, 1998.
6. The ARB previously determined the concerns identified in the allegation to be of potential safety significance. There are potentially operability problems with the ice condenser containment following a DBA.
7. The ARB previously assigned this allegation a Priority Level of 3 after consideration of its safety significance. No immediate plant safety or public health and safety issues are known.
8. OI has investigative activities underway under Case Nos. 2-1998-023 and 2-1998-027.
9. The following resolution plan and schedule were approved by the ARB (Region II and NRR):

|    | <u>Activity</u>  | <u>Due Date</u> |
|----|--|-----------------|
| a. | HQMB Input for closure ltr for Item 10.2<br>Of attached table        | March 16, 1999  |
| b. | Closure ltr for Item 10.2  | April 1, 1999   |
| c. | Closure ltr for Items 3, 4, 8, 10.1, 13,<br>14, 15 of attached table | March 15, 1999  |

\*ARB members

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10. The basis for the above resolution activities is as follows: The ARB reconvened to discuss the status of issues. Region II has completed its review of the technical issues for all assigned concerns except Item 16 of the attached table. Region II forwarded Allegation Evaluation Reports for Items 3, 4, 8, 10.1, 13, 14, and 15 to Stang on February 15, 1999. Stang will prepare a closure letter for those items.

The HQMB review for Item 10.2 is nearly complete. The target date for HQMB to complete their review is March 16, 1999; Stang will prepare a closure letter by April 1, 1999.

Since the remainder of the concerns relate to the ongoing OI activities and the final resolution is dependent on the outcome of the OI investigation; however, Region II has completed the technical review.

Stang noted that the allegor has presented to Region III new ice condenser concerns with regard to D.C. Cook. It is unknown at this time whether the RIII evaluation will affect the allegations under review jointly by NRR and Region II. For this reason, NRR will confer with Region III prior to issuance of the closure letter, for any of the issues currently under review by NRR.

11. Prepared by: Jean Lee 3/8/99  
Jean Lee, Senior Allegation Coordinator Date
12. Approved by: Dave Matthews 3/24/99  
Dave Matthews, Chairman, ARB Date
- Approved by: Oscar DelMunida 3/17/1999  
Oscar DelMunida, Senior Allegation Date  
Coordinator, Region II
- Approved by: Paul Frederikson 3/12/99  
Paul Frederikson, Branch Chief, Region II Date

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Attachment:

|             | ALLEGATION NO. NRR-1998-A-0011   |                                   |
|-------------|--|-----------------------------------|
| CONCERN NO. | DESCRIPTION  | FACILITY                          |
| 1.          | There were whole and broken screws found in the Watts Bar ice melt tank implying defective screws, improper installation, or design of ice baskets.  | Watts Bar                         |
| 2.          | The results of neither the 6/2/95 nor the 6/19/95 ice condenser screw TVA central laboratory report were "officially" sent to Westinghouse, as required by the corrective action steps in PER 246. | Watts Bar & Westinghouse          |
| 3.          | Defective screws were found in the melt system that were not reported to management.   | McGuire                           |
| 4.          | An ice basket was pulled apart as a result of missing and defective screws.  | D.C. Cook                         |
| 5.          | Potential defects identified in warehouse screws and documented in the 6/2/95 TVA central laboratory report were not listed or evaluated in the 6/19/95 report.                                    | Watts Bar                         |
| 6.          | The first version of the metallurgical report shows that new unused screws contain cracks, implying a generic defect.  | Great Lakes Manufacturing Company |
| 7.          | The first version of the report was retracted, copies confiscated, and a replacement report issued excluding data from the first report.   | Watts Bar                         |
| 8.          | A Sequoyah supervisor refused to release screws to the allegor because it might cause the Sequoyah plant to be shut down.  | Sequoyah                          |
| 9.          | A TVA manager said in 1995 that there should be no more PERs, WRs, DCNs, etc. written unless they are work critical to achieving fuel load.  | Watts Bar                         |

|      |   |                            |
|------|---|----------------------------|
| 10.1 | TVA allegedly knew of problems with ice condenser doors, baskets or screws that met NRC reportability requirements and did not report these problems to the NRC.      | Watts Bar                  |
| 10.2 | Containment ice condenser problems (configuration and testing, bay doors and ice baskets) were known but not properly reported by Westinghouse or affected licensees. | Westinghouse and licensees |
| 10.3 | TVA allegedly knew of problems with ice condenser doors, baskets or screws that met NRC reportability requirements and did not report these problems to the NRC.      | TVA                        |
| 11.  | For unknown reasons, Sequoyah switched screw suppliers in 1998 implying they were aware of defective screws.  | Sequoyah                   |
| 12.  | TVA central laboratory staff were not qualified to make decisions on failure modes: the lab may not meet QA standards for handling safety-related evaluations         | Watts Bar                  |
| 13.  | Common-use sheet-metal screws used throughout the plant are used on the ice condenser, in place of vendor-approved basket coupling screws.                            | Watts Bar                  |
| 14.  | The ice condenser floor could heave due to water accumulation below the concrete floor and jam bay doors.   | Watts Bar                  |
| 15.  | Excessive moisture (frost) accumulation could occur on the hinges on the ice condenser bay doors that restrict the doors from opening.                                | Watts Bar                  |
| 16.  | The ice condenser system has similar problems to those identified at D.C. Cook, as documented in NRC IR 50-315/316-980005.  | Watts Bar                  |

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