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ORB #2 Reading  
Subject File

APR 13 1976

Darrell G. Eisenhut, Assistant Director for Operational Technology, DOR

TECHNICAL ASSISTANCE REQUEST NO. ORB-2-226

Plant Name: Arkansas Nuclear One - Unit 1 (ANO-1)

Docket No.: 50-313

Branch Code: ORB-2

Project Manager: W. E. Converse

Operational Technology Branches: Environmental Evaluation Branch (EEBOT)  
Reactor Safety Branch (RSBOT)  
Plant Systems Branch (PSBCT)

Requested Completion Date: May 14, 1976

Description of Request: By letter dated May 8, 1975, Babcock & Wilcox Company (B&W) identified a deficiency in the design performance of the Reactor Building Spray System (RBSS) of the Three Mile Island-1 and Arkansas Nuclear One-1 (ANO-1) nuclear facilities. This letter (and the related report) is an attachment to enclosure 2. The report attached to that letter stated that a new analysis of the RBSS had been performed which indicated the sodium hydroxide tank (SHT), sodium thiosulfate tank (STT) and borated water storage tank (BWST) do not all draw down together under calculated accident conditions. This resulted in the emptying of the SHT and the STT up to 22 minutes before the BWST was depleted. Subsequently, Arkansas Power and Light Company (AP&L) submitted Unusual Event Report (UER) 50-313/75-2, (encl. 1), dated June 25, 1975, based on the B&W report and indicated that a reanalysis would be performed based on the ANO-1 as-built piping configuration. By letter dated September 3, 1975 (encl. 3), AP&L submitted UER 50-313/75-2A, the results of the reanalysis of the uneven tank draw-down problem.

We request your review of the problem concerning uneven draw-down of the RBSS tanks for the ANO-1 facility. Please supply a written evaluation

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suitable for input into a safety evaluation addressing, at a minimum, the following specific areas:

1. The effect on the RBSS and the ECCS of the uneven tank draw-down.  
(PSBOT, ISBOT).
2. The effect of uneven tank draw-down on the offsite iodine doses following a LOCA.  
(EEBOT)
3. The effect of the high pH atmosphere resulting from uneven tank draw-down on Reactor Building paints and components.  
(EEBOT)

A TAR was issued on this matter to the Division of Technical Review (Containment Systems Branch and Accident Analysis Branch) on September 22, 1975. CSB responded with a request of additional information (encl. 4), but AAB did not perform a review because of other workloads. Because the problem does appear to have safety significance, I am reissuing the TAR to avoid further delays in obtaining needed technical assistance.

*Originated signal by  
Richard B. Silver  
Dennis L. Ziemann, Chief  
Operating Reactors Branch #2  
Division of Operating Reactors*

enclosures:

1. Unusual Event Report 50-313/75-2 (6/25/75)
2. Transfer of Lead Responsibility (7/9/75)
3. Unusual Event Report 50-313/75-2A (9/3/75)
4. CSB Request for Add'l Information (11/5/75)

cc w/enclosures:

- d. Grimes
- n. Duer
- A. Schwencer

cc w/o enclosures:

- K. Goller
- V. Stello
- T. Carter
- W. Converse
- R. Digs

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DATE ▶	4/12/76	4/13/76				