

Water isolation valves not closed during polar crane test

APR 12 1984

R&W

NRC Form 306 (9-83)

U.S. NUCLEAR REGULATORY COMMISSION  
APPROVED OMB NO. 3150-0104  
EXPIRES: 8/31/85

188983

LICENSEE EVENT REPORT (LER)

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FACILITY NAME (1) Three Mile Island Unit 2 DOCKET NUMBER (2) 0500003201 PAGE (3) 1 OF 01

TITLE (4) Defective Polar Crane Load Test Procedure

Table with columns: EVENT DATE (8), LER NUMBER (6), REPORT DATE (7), OTHER FACILITIES INVOLVED (8). Includes sub-columns for month, day, year, sequential number, revision number, facility names, and docket numbers.

Table with columns: OPERATING MODE (9), POWER LEVEL (10), and regulatory codes (20.402(b) through 80.73(a)(2)(ix)). Includes a section for 'THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)'. A checkmark is present in the 80.73(a)(2)(ii) row.

LICENSEE CONTACT FOR THIS LER (12) NAME: Thomas L. Gould, Licensing Engineer. TELEPHONE NUMBER: 717 948-8461.

Table for 'COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)'. Columns include CAUSE, SYSTEM, COMPONENT, MANUFACTURER, and REPORTABLE TO NPRDS.

SUPPLEMENTAL REPORT EXPECTED (14) YES (If yes, complete EXPECTED SUBMISSION DATE) NO. EXPECTED SUBMISSION DATE (15) MONTH DAY YEAR.

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

The Unit was in the recovery mode at zero power. Decay heat was being removed by Loss to Ambient. The RCS was in a partially drained down condition. The multi-day Polar Crane Load Test, initiated on February 13, 1984, was in progress. The Internals Indexing Fixture and four (4) missile shield blocks had been removed from their in-place positions.

On February 16, 1984, while no loads were being handled, it was determined that the Load Test for Polar Crane procedure, implemented by Unit Work Instruction (UWI) 4370-3891-83-PC-1, failed to incorporate adequate isolation requirements for non-borated water sources. The safety evaluation for the Polar Crane Load Test required the isolation of selected unborated water sources to prevent potential boron dilution of the containment building sump. Therefore, the Polar Crane Load Test from February 13 to February 16, 1984, was conducted in an unanalyzed condition, that is not totally in conformance with the Polar Crane Load Test Safety Evaluation.

On February 16, 1984, UWI 4370-3891-83-PC-1 was revised to include a list of valves to be verified closed so as to isolate identified non-borated water sources. The Polar Crane Load Test was then resumed. No significant safety consequences resulted from this event.

Corrective action planned includes the use of this event in Responsible Technical Reviewer (RTR) training to heighten reviewers' awareness to the importance of reviewing procedures against the details contained in other basis documents. Similar LER's include: 83-51, 83-42, 83-23, 81-23, 81-10, 80-24, 80-20, and 79-21.

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4410-84-L-0039

March 14, 1984

Office of Inspection and Enforcement  
Attn: Dr. Thomas E. Murley  
Regional Administrator  
US Nuclear Regulatory Commission  
Region I  
631 Park Avenue  
King of Prussia, PA 19406


Dear Dr. Murley:

Three Mile Island Nuclear Station, Unit 2 (TMI-2)  
Operating License No. DPR-73  
Docket No. 50-320  
Licensee Event Report 84-002

Attached please find Licensee Event Report 84-002 concerning the failure of the Polar Crane Load Test procedure to incorporate Safety Evaluation Report requirements pertaining to isolation of some non-borated water sources prior to the load test on February 13, 1984.

This event is considered reportable pursuant to the Code of Federal Regulations, Title 10, Section 50.73(a)(2)(ii).

Sincerely,

  
B. K. Kanga  
Director, TMI-2

BKK/TLG/jep

Attachment

CC: Program Director - TMI Program Office, Dr. B. J. Snyder  
Deputy Program Director - TMI Program Office, Mr. L. H. Barrett

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