



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

APR 19 1984

50-251

MEMORANDUM FOR:

Themis P. Speis, Director
Division of Safety Technology

Richard H. Vollmer, Director
Division of Engineering

Roger J. Mattson, Director
Division of Systems Integration

Hugh L. Thompson, Director
Division of Human Factors Safety

FROM:

Darrell G. Eisenhut, Director
Division of Licensing

SUBJECT:

AEOD CASE STUDY REPORT - LOW TEMPERATURE
OVERPRESSURE EVENTS AT TURKEY POINT UNIT 4

AEOD has completed the enclosed Case Study Report on the low temperature overpressure (LTOP) events of November 1981 at Turkey Point Unit 4. The report includes a detailed evaluation of the Turkey Point events followed by a broad discussion of NRR's generic resolution of multi-plant issue B-4, "Reactor Vessel Overpressure Protection."

The Turkey Point events represent the first cases where the Appendix G curves were exceeded for a PWR since NRR resolved the generic issue in 1979. The Case Study identifies deficiencies in the staff's Standard Technical Specifications and discusses an NRR survey that concluded that only about 25% of operating PWRs have adequate LTOP systems and corresponding Technical Specifications.

The NRR peer review acknowledged that we are in basic agreement with the recommendations made in the Case Study. In addition the peer review, which is enclosed for your information, made a number of commitments for NRR action. These commitments include (numbers correspond to the peer review memorandum):

1. An examination of our in-house generic program on LTOP to determine the most efficient means of correcting the Technical Specification deficiencies.
5. Development of a plan to encourage licensees to increase the pressure setpoint for automatic isolation of the RHR system to increase the margin to the PORV opening setpoint.
6. Consider modifying the STS to require periodic revisions to PORV pressure relief setpoints whenever revisions to the Appendix G pressure/temperature limits are made due to continued irradiation of primary system pressure boundary components.

APR 19 1984

NRR Division Directors

- 2 -

- 10. Both the STS section of SSPB and RSB volunteered to meet with AEOD to draft revised Technical Specifications for LTOP concerns.

The AEOD Case Study has been submitted for our final review and comment. DL has been tasked with developing an NRR response to AEOD including a plan for action where justified. We request that the appropriate technical branches review this report and provide their final comments including an update of progress on each of the NRR commitments for action we made during the peer review process. Please submit your comments to Gary Holahan, Chief, Operating Reactors Assessment Branch, by May 21, 1984.

Original signed by
Darrell G. Eisenhut

Darrell G. Eisenhut, Director
Division of Licensing

Enclosures:

- 1. Case Study Report
- 2. Peer Review

cc w/enclosures:

B. Sheron H. Denton
D. Brinkman E. Case
S. Israel
D. McDonald
O. Parr
F. Rosa

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