



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

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Docket Nos.: 50-440  
and 50-441

DEC 23 1982

MEMORANDUM FOR: Thomas M. Novak, Assistant Director for Licensing, DL  
FROM: J. J. Stefano, Project Manager, Licensing Branch No. 1, DL  
THRU: B. J. Youngblood, Chief, Licensing Branch No. 1, DL *BJY*  
SUBJECT: PERRY SER TURBINE MISSILES UNRESOLVED ISSUE

The orientation of the Perry turbine is considered to be unfavorable with respect to station reactor buildings in that there are safety-related equipment targets inside the low-trajectory missile strike zone. As such, turbine missiles was cited as Outstanding Issue (1) in the Perry SER. The ACRS reviewed the Perry license application at its 267th meeting on July 8, 1982, and in its report to the NRC (dated July 13, 1982), requested a technical report from the staff that discusses and evaluates the problems involved with turbine missiles.

The Material Engineering staff provided an evaluation input for this issue for inclusion in Perry SER Supplement #1 with a memo dated July 26, 1982 (W. V. Johnston to R. L. Tedesco). Their evaluation was predicated on the use of acceptance criteria (different from that currently included in NUREG-0800 and Regulatory Guide 1.115), revised to address turbine missiles for those plants found to have an unfavorable turbine orientation. This input was also to serve as the essence of the report requested by the ACRS. In an informal note to Dr. Johnston dated August 3, 1982, Mr. Tedesco rejected the evaluation input provided for Perry SER Supplement #1 stating that:

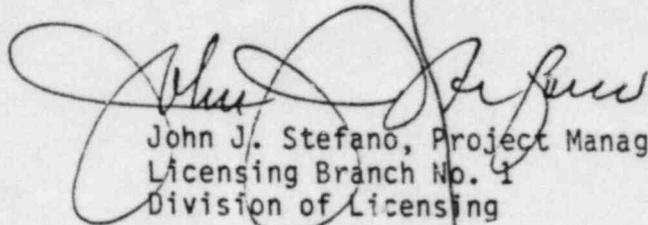
- . the material will be removed from the WNP-2 and Perry SSER's, and would not be sent to the ACRS.
- . SSER's will keep this issue open (i.e., unresolved)
- . DE needs to pursue established practice to get approval of new positions (i.e., the revised criteria) from current NUREG-0800 criteria, and that the CRGR will need to get involved.

In responding to our request for evaluation input for Perry SER Supplement #2, the Material Engineering staff indicated that the turbine missiles evaluation input furnished for Supplement #1 be used (B. D. Liaw to A. Schwencer memo dated November 30, 1982).

At this point in time, CRGR approval of the revised criteria has not been communicated to DL. The final draft of the Perry SER Supplement #2 (sent to the AD's for approval by your memo dated December 21, 1982) includes the turbine missiles evaluation input predicated on the unapproved new criteria. However, the issue has been changed from an outstanding to a confirmatory issue pending staff review of GE reports addressing turbine missile analyses and predictions, and the need for the applicant (CEI) to submit recommended GE inspection requirements (GE is recommending turbine inspection criteria and frequency with each plant using GE turbines on a plant specific basis - GE has not yet done so with CEI for Perry).

During the AD meeting on December 17, 1982, I discussed this matter with Dr. Johnston. He agreed that the issue should remain open as a confirmatory issue in Supplement #2 and that DE would be requesting CRGR approval of the new criteria developed.

This chronology of events notwithstanding, I suggest that the evaluation input contained in the final draft of Perry SER Supplement #2 be retained, and that we delay sending a report to the ACRS until DL is advised of CRGR approval by DE, and the staff has completed its review of the GE analytical reports. Your concurrence with this suggestion is requested.

  
John J. Stefano, Project Manager  
Licensing Branch No. 1  
Division of Licensing

cc: D. G. Eisenhut  
R. H. Vollmer  
W. V. Johnston  
B. D. Liaw  
A. Schwencer

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*Subsequently decided against including staff turbine missile input in SSER #2 - will be covered in SSER #3.*