



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

FEB 26 1985

Docket Nos. 50-352/353

Mr. Edward G. Bauer, Jr.
Vice President & General Counsel
Philadelphia Electric Company
2301 Market Street
Philadelphia, Pennsylvania 19101

Dear Mr. Bauer:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - LIMERICK

As part of the Independent Design Verification Program (IDVP) conducted for Limerick Potential Finding Report 019 was identified. The staff's review of PFR-019 for purposes of the IDVP has been completed. However the staff's Mechanical Engineering Branch is continuing its review of PFR 019 with respect to design loading combinations for ASME Code Class 1, 2 and 3 piping and support systems. Apparently the jet impingement loads from all potential break locations have not been incorporated in the load combination for the faulted condition of the ASME code stress analysis. This was based upon an extension of the provisions of SRP 3.6.2 for pipe whip analysis to apply to jet impingement loading.

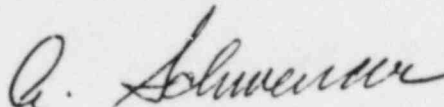
The staff is reviewing this issue and has the following position: Regulatory Guide 1.46, Footnote 14, NUREG 75/087 - SRP 3.6.1 - BTP APCS 3-1 B.2.(2), and NUREG 0800-SRP 3.6.2 III.2 all clearly state that an unrestrained whipping pipe is considered capable of causing breaks in impacted pipes of smaller nominal pipe size and developing through - wall leakage cracks in impacted piping of equal or larger nominal pipe size with thinner wall thickness. Because of the differences in the nature of the loads from a whipping pipe and jet flow from a break or crack, the staff has not permitted the above guidelines for whipping pipes to be extended to jet impingement even though the equivalent static load from a jet is generally less than that from a whipping pipe.

To enable the staff to continue its review of this subject, the following information is requested:

1. Identify the piping and supports in the Limerick plant which are affected. Include system description and plant location.

2. Demonstrate that safe shutdown of the Limerick plant can be accomplished when the required jet impingement loads are included in the evaluation of target piping systems.

Sincerely,



A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing

cc: See next page

LIMERICK

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2. Demonstrate that safe shutdown of the Limerick plant can be accomplished when the required jet impingement loads are included in the evaluation of target piping systems.

Sincerely,

Original signed by:

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Division of Licensing

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