

APR 17 1981

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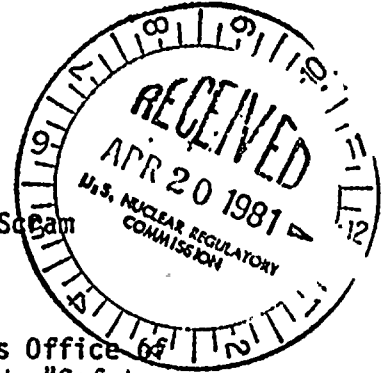
bcc: TERA  
NRC/PDR  
L/PDR  
NSIC  
TIC  
ACRS (16)

Docket Nos.: 50-387  
and 50-388

Pennsylvania Power & Light Company  
ATTN: Mr. Norman W. Curtis  
Vice President - Engineering  
and Construction  
2 North Ninth Street  
Allentown, Pennsylvania 18101

Dear Mr. Curtis:

Subject: Safety Concerns Associated with Pipe Breaks in the BWR Scram System



On April 9, 1981, we discussed with your representatives the NRC's Office Analysis and Evaluation of Operational Data (AEOD) report entitled, "Safety Concerns Associated with Pipe Break in the BWR Scram System." The Report describes a potential sequence of events which could result from a break in the BWR scram discharge piping during a scram condition concurrent with an inability to reclose the scram outlet valves. Concerns identified include the quality of the scram discharge volume piping, the ability to detect and isolate such a break, and potential water and steam degradation of available ECCS equipment as a result of the break. A number of recommendations were made in the report to remedy the potential concerns.

We are presently studying these issues and recommendations to determine whether the BWR design basis accidents should be modified and as a consequence whether appropriate actions should be taken for operating BWR plants. The purpose of this letter is to provide to you the AEOD report so that you can evaluate its applicability to your plant and determine appropriate remedial measures, and to request information from you concerning your evaluation in order to assist in determining an appropriate course of action for the NRC.

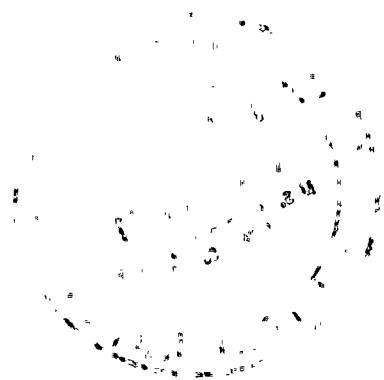
Therefore, please provide us within 45 days of your receipt of this letter, the following information:

1. A generic evaluation of the applicability of the indicated sequences of events in the REPORT to the BWR plant design, your estimate of the probability of occurrence of such sequences, and the bases for these conclusions,
2. A generic evaluation of the applicability of the indicated safety concerns and findings in the REPORT relative to BWR plant construction, design, and operation and the bases for these conclusions, and

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Mr. Norman W. Curtis

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- 3. A generic evaluation of the recommendations listed in the REPORT discussing the degree to which the recommendations are being or have been implemented with bases why the recommendations should or should not be completely implemented on BWRs.

In addition, provide the following information within 120 days of your receipt of this letter:

- 1. Provide an evaluation of the applicability of the 45 day generic evaluation to your plant. This evaluation should contain plant specific considerations related to system design, instrumentation, construction, operation, operator training, and emergency procedures for your plant.
- 2. In light of the AEOD report and the 45 day generic evaluation, provide a plant specific evaluation of your facility's Scram Discharge Volume System conformance to GDC 14, GDC 35, GDC 55, §50.2(v), 50.55a (including footnote 2), and §50.46 of the Commission's regulations. This evaluation should address which portions of the Scram Discharge Volume System are considered to be part of the reactor coolant pressure boundary, the quality group and safety class of the Scram Discharge Volume System, the codes and standards used for the design, fabrication and inservice inspection of this system, and your bases for the above classifications or groupings.

- 3. Provide by analysis or reference a demonstration that a break in the Scram Discharge Volume System meets the requirements of §50.46 of the Commission's regulations, taking into account the environmental and flooding aspects of such a break

It is our position that this item must be resolved prior to issuance of an operating license.

Sincerely,

Original signed by  
Robert L. Tedesco

Robert L. Tedesco, Assistant Director  
for Licensing

Enclosure:  
As stated

cc: See next page w/enclosure

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DATE	4/16/81	4/16/81	4/16/81				

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