

50-354



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555-0001

September 14, 1995

Mr. Leon R. Eliason  
Chief Nuclear Officer & President-  
Nuclear Business Unit  
Public Service Electric & Gas  
Company  
Post Office Box 236  
Hancocks Bridge, NJ 08038

SUBJECT: PERMANENT HYDROGEN AND OXYGEN STORAGE FACILITIES - HOPE CREEK  
GENERATING STATION (TAC NO. M89237)

Dear Mr. Eliason:

In September 1988, Public Service Electric & Gas Company (PSE&G) submitted a request for an amendment to the Facility Operating License No. NPF-57 for the Hope Creek Generating Station to permit the use of a BWR Hydrogen Water Chemistry System (HWCS). This system was approved, by the NRC staff, in April 1989, for operation on an interim basis until PSE&G could complete an economic study concerning storage of hydrogen and oxygen. The hydrogen to be used in the HWCS is contained in tubes stored at the plant site on two United States Department of Transportation (DOT) approved transportable trailers; the liquid oxygen (LOX) is stored in a permanent storage tank.

PSE&G subsequently completed the economic study and decided to continue to use both the hydrogen tube trailers and the existing oxygen storage tank as permanent storage facilities. We have reviewed your safety analysis and additional information, submitted in your letters of April 7, 1994 and October 24, 1994, respectively, and conclude that we disagree with your analysis that your provision for storage of hydrogen involves no Unreviewed Safety Questions. As detailed in the enclosed safety evaluation, our findings are based upon the NRC staff's reservations concerning the distances calculated for tube trailers being transported as a result of a tornado because of the uncertainties involved in such calculations. In view of this fact, it is the NRC staff's position that some form of detachable permanent anchorage for the tube trailers should be provided. This is to ensure that they will have a low likelihood of being transported by a tornado. The added benefit of such anchorage will justify the minimal cost involved.

The NRC staff has no objections to the LOX storage tank.

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L. Eliason

- 2 -

September 14, 1995

Based upon our review, we request that you submit a plan and schedule, within 90 days following receipt of this letter, to provide restraints, or similar protective actions, for the tube trailer.

Sincerely,

original signed by  
John F. Stolz, Director  
Project Directorate I-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Docket No. 50-354

Enclosure: Safety Evaluation

cc w/encl: See next page

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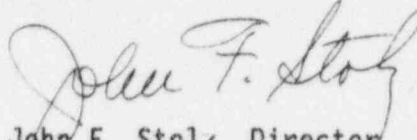
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L. Eliason

- 2 -

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Sincerely,



John F. Stolz, Director  
Project Directorate I-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Docket No. 50-354

Enclosure: Safety Evaluation

cc w/encl: See next page

Mr. Leon R. Eliason  
Public Service Electric & Gas  
Company

Hope Creek Generating Station

cc:

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