Public Service
Electric and Gas
Company

E. C. Simpson
Senior Vice President - Nuclear Engineering

Public Service Electric and Gas Company P.O. Box 236, Hancocks Bridge, NJ 08038 609-339-1700

DEC 18 1995

LR-N95220

United States Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Gentlemen:

PERMANENT HYDROGEN WATER CHEMISTRY SYSTEM
HOPE CREEK GENERATING STATION
FACILITY OPERATING LICENSE NO. NPF-57
DOCKET NO. 50-354

Public Service Electric & Gas Company (PSE&G) submitted letters NLR-N93182 (April 7, 1994), NLR-N94148 (August 18, 1994) and NLR-N94185 (October 24, 1994) to provide the technical bases for using the two (2) existing United States Department of Transportation (DOT) approved hydrogen tube trailers, and the liquid oxygen storage (LOX) tank as permanent storage facilities for the Hope Creek Generating Station. These storage facilities were assessed by PSE&G using the criteria contained in Electric Power Research Institute (EPRI) Special Report NP-5283-SR-A, EPRI Guidelines for Permanent BWR Hydrogen Water Chemistry Installations, 1987 Revision.

The Nuclear Regulatory Commission (NRC) has documented the results of their review of the letters referenced above in a Safety Evaluation Report dated September 14, 1995. The NRC concluded that the existing LOX tank is acceptable as installed. However, the NRC expressed reservations regarding the installation of the hydrogen tube trailers as installed based on uncertainties with the methodology used to predict transport distances of the tube trailers in the event of a design basis tornado. It is the NRC's position that positive restraints in the form of detachable permanent anchorage be provided for the hydrogen tube trailers to ensure that they will have a low likelihood of being transported in the event of a tornado. Therefore, PSE&G was requested by the NRC to provide the plan and schedule for installation of restraints, or similar protective actions.

PSE&G plans to restrain each hydrogen tube trailer with four (4) approximately 4 ton concrete blocks as shown on the attached Figure. Each block will be connected to the adjacent trailer with a removable chain. The chains and concrete block connections will be designed with sufficient margin to ensure the blocks will remain attached to the trailers during a design basis

A001
1/1

DEC 18 1995

tornado. The proposed anchoring will provide the necessary restraint to decrease the maximum calculated travel distance of a hydrogen tube trailer with one tube attached that may result from a design basis tornado by approximately 50%. Therefore, the proposed anchoring will address the possible uncertainties in the methodology used to calculate transport distances by providing effective restraint of the trailers, and provide further assurance that the safe separation distance required in accordance with EPRI Special Report NP-5283-SR-A will be maintained.

The Design Change Package (DCP) is scheduled for completion by January 31, 1996. The DCP will be made available for your review upon request. Installation is planned to be completed by April 1, 1996.

Please contact us should you have any questions regarding this submittal.

Sincerely,

E C Simpson

Attachment

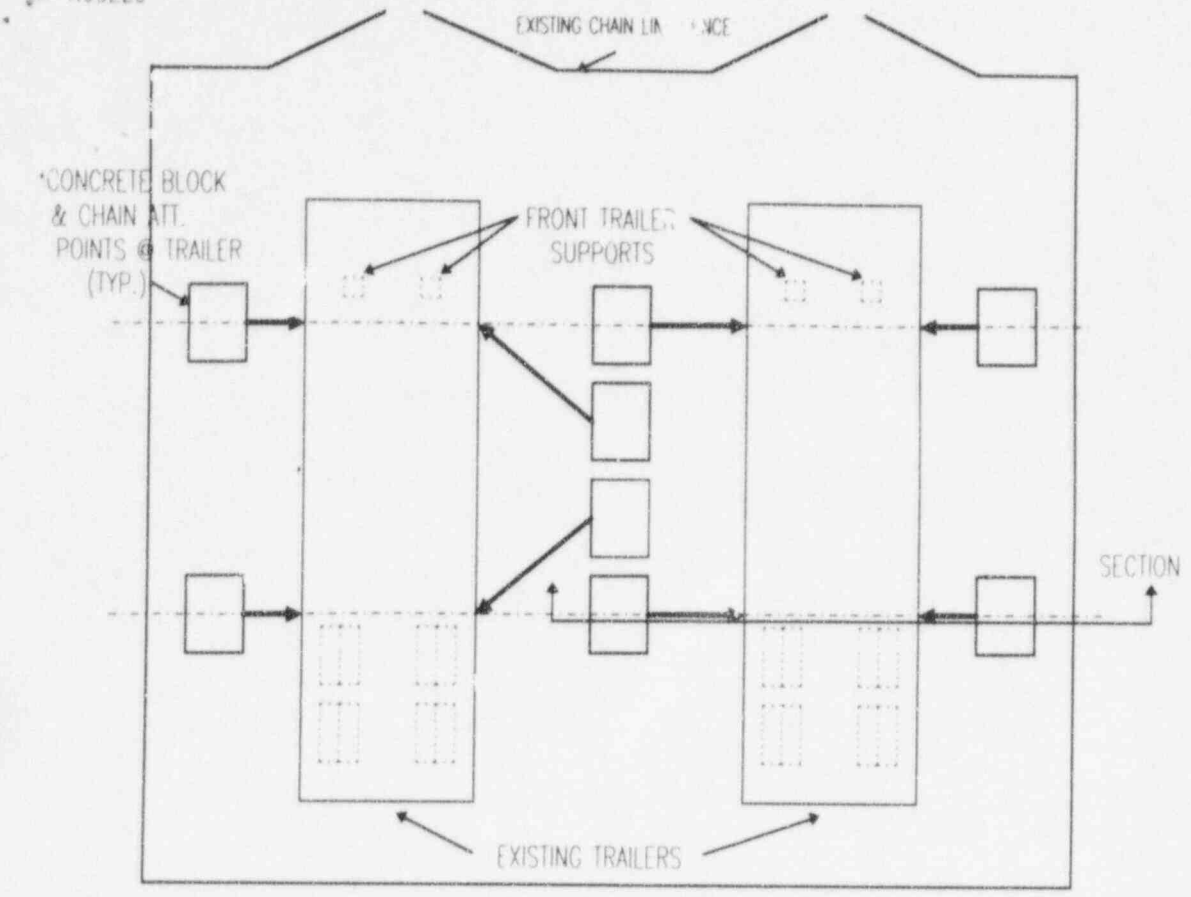
C Mr. T. T. Martin, Administrator - Region I
U. S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Mr. D. Jaffe, Licensing Project Manager - Hope Creek
U. S. Nuclear Regulatory Commission
One White Flint North
11555 Rockville Pike
Mail Stop 14E21
Rockville, MD 20852

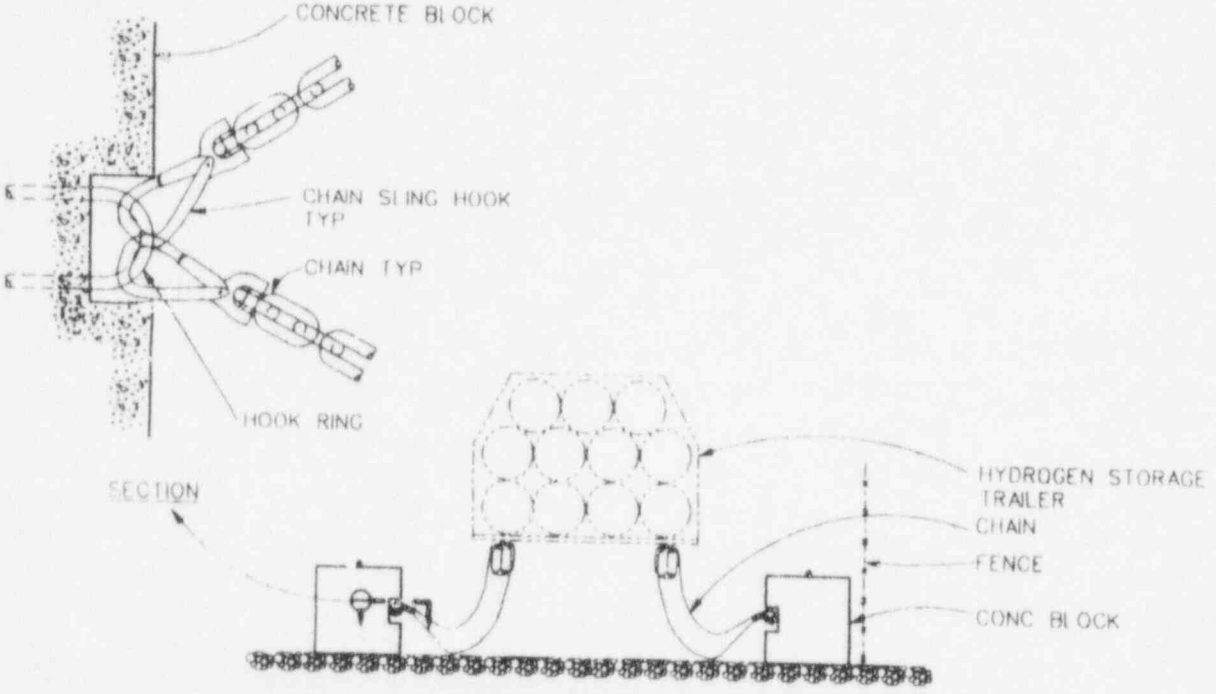
Mr. R. Summers (X24)
Senior Resident Inspector

Mr. K. Tosch, Manager, IV
Bureau of Nuclear Engineering
33 Arctic Parkway
CN 415
Trenton, NJ 08625

LR-N95220



PLAN



SECTION

HYDROGEN TUBE TRAILER ANCHORAGE