

Public Service
Electric and Gas
Company

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Senior Vice President - Nuclear Engineering

NOV 20 1995

LR-N95189

United States Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Gentlemen:

**GENERIC LETTER 92-01, REV. 1, SUPPLEMENT 1
REACTOR VESSEL STRUCTURAL INTEGRITY
HOPE CREEK GENERATING STATION
FACILITY OPERATING LICENSE NO. NPF-57
DOCKET NO. 50-354**

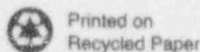
The NRC issued Supplement 1 to Generic Letter (GL) 92-01, Revision 1 on May 19, 1995. Part 1 of the Generic Letter requested licensees to describe those actions planned or taken to locate all data relevant to the determination of reactor pressure vessel integrity, or provide an explanation of why the existing database is considered complete. The Public Service Electric and Gas (PSE&G) response to this request was provided to the NRC by Letter LR-N95120 dated August 14, 1995 for Hope Creek Generating Station.

To locate additional reactor pressure vessel data which may be pertinent to Hope Creek Generating Station, PSE&G is participating in the BWR Vessel and Internals Project (BWRVIP). This effort will review available industry data pertaining to vessel material chemistry which may be relevant to the determination of vessel integrity. The BWRVIP Action Plan was submitted to the NRC by letter dated August 10, 1995.

PSE&G is required to respond to GL 92-01, Revision 1, Supplement 1, Parts 2 through 4 by November 20, 1995. The results of the BWRVIP efforts to address the requirements of Parts 2 through 4 of GL 92-01, Revision 1, Supplement 1 for Hope Creek Generating Station are documented in the BWRVIP response submitted to the NRC on November 15, 1995.

The BWRVIP effort, to date, has consolidated the vessel material data from the contributing member utilities. The intent was to assess the known weld chemistry variances, and determine a bounding limit that would envelope the pressure vessel integrity issues related to GL 92-01 for BWRs.

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While longer-term efforts are currently ongoing to retrieve and evaluate all relevant vessel material chemistry data, the results of the BWRVIP evaluations based on available data has addressed the following three reactor pressure vessel integrity issues:

- (1) Impact of weld chemistry variability on Upper Shelf Energy (USE) equivalent margin analyses (EMA).
- (2) Impact of weld chemistry variability on Pressure-Temperature (P-T) Curves.
- (3) Use of the Position 2.1 ratio procedure in Regulatory Guide 1.99, Revision 2.

In summary, the BWRVIP review for Hope Creek Generating Station has determined that the USE values based on the limiting copper and nickel content and the latest fluence values continue to be bounded by the EMA. The weld chemistry variability is within the bounding values determined to not impact P-T limits.


The BWRVIP review identified that Browns Ferry 2 has a weld heat number that corresponds to a weld heat number for one circumferential weld at Hope Creek. The composition data for copper and nickel content used in the Hope Creek analysis is more limiting than the Browns Ferry 2 data. Therefore, the BWRVIP assessment completed to date has determined that no revision of the P-T curves or USF calculations are required.

It is noted that the reactor vessel integrity issues associated with Pressurized Thermal Shock (PTS) and Low Temperature Overpressure Protection (LTOP) are not applicable to BWRs.

The BWRVIP is working with other industry groups in an effort to address the application of the ratio procedure contained in Position 2.1 of Regulatory Guide 1.99, Revision 2. The BWRVIP will report progress on this ongoing work to the NRC as the work is completed. PSE&G will continue to monitor the ongoing BWRVIP and industry efforts regarding this and other issues, and assess any resulting recommendations for application to Hope Creek Generating Station.

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

Sincerely,



Affidavit

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C Mr. T. T. Martin, Administrator - Region I
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STATE OF NEW JERSEY)
)
COUNTY OF SALEM) SS.

E. C. Simpson, being duly sworn according to law deposes and says:

I am Senior Vice President - Nuclear Engineering of Public Service Electric and Gas Company, and as such, I find the matters set forth in the above referenced letter, concerning Hope Creek Generating Station, are true to the best of my knowledge, information and belief.

E C Simpson

Subscribed and Sworn to before me
this 20th day of November 1995

Kimberly Jo Brown
Notary Public of New Jersey

KIMBERLY JO BROWN
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires April 21, 1998

My Commission expires on _____