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June 6, 1994
C321-94-2080
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U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

Gentlemen:

Subject: Oyster Creek Nuclear Generation Station (OCNGS)
Operating License No. DPR-16
Docket 50-219
Additional Information Requested by the NRC Staff Re:
Generic Letter 92-01, Revision 1, "Reactor Vessel
Structural Integrity"

On April 19, 1994, GPU Nuclear responded to your letter dated March 30, 1994 concerning Generic Letter 92-01, Revision 1, "Reactor Vessel Structural Integrity" issues.

Subsequently, Mr. A. Dromerick, Sr. Projector Manager, NRR-NRC requested GPU Nuclear to complete the "Equivalent Margin Analysis Plant Applicability Verification Form" (Appendix B, NEDO-32205) with the plant specific data.

Enclosed is the completed verification form. If you have any questions concerning the data provided, please contact Mr. M. W. Laggart, Manager, Corporate Licensing at (201) 316-7968.

Sincerely,

R. W. Keaten
Vice President and Director
Technical Functions

/crb

cc: Administrator Region I
NRC Oyster Creek Project Manager
Senior Resident Inspector

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1078

NEDO-32205-A

EQUIVALENT MARGIN ANALYSIS
PLANT APPLICABILITY VERIFICATION FORM
FOR Oyster Creek

BWR/2-6 WELD

Surveillance Weld USE:

$$\%Cu = \underline{0.28}$$

$$\text{Capsule Fluence} = \underline{7.46 \times 10^{17}} \text{ (n/cm}^2\text{)}$$

$$\text{Measured \% Decrease} = \underline{\text{NA}} \text{ (Charpy Curves)}$$

$$\text{R.G. 1.99 Predicted \% Decrease} = \underline{24\%^*} \text{ (R.G. 1.99, Figure 2)}$$

* Based on one surveillance data point.

Limiting Beltline Weld USE:

$$\%Cu = \underline{0.35}$$

$$32 \text{ EFPY Fluence} = \underline{2.36 \times 10^{18}} \text{ (n/cm}^2\text{)}$$

$$\text{R.G. 1.99 Predicted \% Decrease} = \underline{34} \text{ (R.G. 1.99, Figure 2)}$$

$$\text{Adjusted \% Decrease} = \underline{\text{NA}^{**}} \text{ (R.G. 1.99, Position 2.2)}$$

** Oyster Creek has only one credible surveillance data. Therefore, RG 1.99 position 2.2 is not applicable.

$34\% \leq 34\%$, so vessel welds are
bounded by equivalent margin analysis

EQUIVALENT MARGIN ANALYSIS
 PLANT APPLICABILITY VERIFICATION FORM
 FOR Oyster Creek

BWR/2 PLATE

Surveillance Plate USE:

%Cu = 0.17

Capsule Fluence = 7.46×10^{17} (n/cm²)

Measured % Decrease = 7* (Charpy Curves)

R.G. 1.99 Predicted % Decrease = 14* (R.G. 1.99, Figure 2)

*Based on one surveillance data point.

Limiting Beltline Plate USE:

%Cu = 0.21

32 EFPY Fluence = 2.36×10^{18} (n/cm²)

R.G. 1.99 Predicted % Decrease = 21.5 (R.G. 1.99, Figure 2)

Adjusted % Decrease = NA** (R.G. 1.99, Position 2.2)

** Oyster Creek has only one credible surveillance data. Therefore, RG 1.99 position 2.2 is not applicable.

21.5% ≤ 26%, so vessel plates are bounded by equivalent margin analysis