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GPU Nuclear Corporation

Post Office Box 353 Route 9 South Forked River, New Jersey 08731-0388 609 971-4000 Writer's Direct Dial Number:

Januarv 11, 1991

C321-91-2006

U. S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, DC 20555

Gentlemen:

140682

Subject: Oyster Creek Nuclear Generating Station (OCNGS) Docket No. 50-219 Technical Specification Change Request No. 194

In accordance with 10 CFR 50.59, 10 CFR 50.90 and 10 CFR 50.91, GPU Nuclear Corporation, Operator of the Oyster Creek Nuclear Generating Station, Provisional Operating License No. DPR-16, requests changes to Appendix A of that license.

In accordance with the requirement of the Oyster Creek Technical Specifications GPU Nuclear submitted pressure-temperature (P-T) limits for operation beyond ten (10) effective full power years (EFPY) on January 19, 1988.

The P-T curves were developed based on the surveillance capsule results and on the draft Rev. 2 of Regulatory Guide (R.G.) 1.99. The curves were approved by the NRC staff and were issued on March 21, 1988 as Amendment No. 120 to Oyster Creek Technical Specifications. The current Oyster Creek Technical Specifications require that new P-T operating curves be developed for operation beyond 15 EFPY.

Subsequently, GPU Nuclear evaluated P-T limits using the calculational methods given in the final Rev. 2 of R.G. 1.99. The purpose of this evaluation was to identify the impact of the R.G. 1.99, Rev. 2 on the current P-T curves. The results of this evaluation was submitted by our letter dated July 26, 1989 in response to Generic Letter 88-11, "NRC Position on Radiation Embrittlement of Reactor Vessel Materials and its Impact on Plant Operations."

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C321-91-2006 Page 2

This TSCR proposes new pressure-temperature limits up to 17 EFPY and a new minimum boltup temperature for the vessel closure head stud tensioning.

The new P-T limits were developed recently in accordance with 10 CFR 50, Appendix G to assure that brittle fracture of the reactor vessel is prevented. Part of the analysis involved in developing the P-T curves is to account for irradiation embrittlement effects in the core region, or beltline. The method described in R.G. 1.99, Rev. 2 was used to account for irradiation embrittlement.

The proposed minimum boltup temperature was determined after comparing results of the evaluations based on the current and the original Code requirements. A more conservative value of the two results is being proposed.

Detailed discussions on methodology and results of the analyses for generating the P-T limits and the boltup temperature are provided in the attached report, SASR 90-89, "Pressure-Temperature Curves per Regulatory Guide 1.99, Revision 2 for the Oyster Creek Nuclear Generating Station."

It is requested that the amendment authorizing this change become effective prior to restart of Oyster Creek for the Cycle 13 operation. We have determined that a timely approval of this technical specification change request will help reduce duration of the upcoming refueling outage.

This Technical Specification Change Request has been reviewed in accordance with Section 6.5 of the Oyster Creek Technical Specifications.

Pursuant to 10 CFR 50.91(b)( ,, a copy of this Technical Specification Change Request has been sent to the State of New Jersey Department of Environmental Protection.

Very truly yours,

M. Barton Director, Oyster Creek

JJB/PFC:crb

cc: Administrator, Region I NRC Resident Inspector (OC) Mr. Alex Dromerick, Jr.

(OTSCR - 194)



GPU Nuclear Corporation

Post Office Box 385 Route 9 South Forked River, New Jersey 08731-0388 809 971-4000 Writer's Direct Dial Number:

Januar 11, 1991

Mr. Kent Tosch, Director Bureau of Nuclear Engineering Department of Environmental Protection CN415 Trenton, New Jersey 08625

Deap Mr. Tosch:

Subject: Oyster Creek Nuclear Generating Station Provisional Operating License No. DPR+16 Technical Specification Change Request No. 194

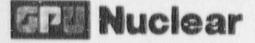
Pursuant to 10CFR50.91(b)(1), please find enclosed a copy of the subject document which was filed with the United States Nuclear Regulatory Commission on January 11, 1991.

Very truly yours,

Barton

Director, Oyster Creek

JJB/YN/plp Attachment



GPU Nuclear Corporation

Post Office Box 388 Route 9 South Forked River, New Jersey 08731-0388 609 971-4000 Writer's Direct Dial Number:

January 11, 1991

The Honorable Debra Madensky Mayor of Lacey Township 818 West Lacey Road Forked River, New Jersey 08731

Dear Mayor Madensky:

Enclosed herewith is one copy of Technical Specification Change Request No. 194 for the Oyster Creek Nuclear Generation Station Operating License.

This document was filed with the United States Nuclear Regulatory Commission on January 11, 1991.

Very truly yours,

J. Rarton Director, Oyster Creek

JJB/YN/plp Attachment