



Jersey Central Power & Light Company
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Morristown, New Jersey 07960
(201) 455-8200

October 3, 1979

Director of Nuclear Reactor Regulation
Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Sir:

Subject: Oyster Creek Nuclear Generating Station
Docket No. 50-219
Technical Specification Change Request No. 77
Fracture Toughness Requirements

Enclosed is three originals and fifty-seven conformed copies of Technical Specification Change Request No. 77 which, when approved, will revise existing fracture toughness requirements so that they will conform with the requirements imposed by 10 CFR 50. This Change Request revises and supercedes Technical Specification Change Request No. 33 on the same subject submitted to the former U. S. Atomic Energy Commission on January 9, 1975.

The design bases and analysis methods for the reactor vessel pressure/temperature limits of the proposed Technical Specifications are the same as for the earlier pressure/temperature limits previously submitted in Supplement No. 6, Addendum No. 3 to the Application for a Full Term Operating License forwarded to the former U. S. Atomic Energy Commission on April 8, 1974, except for the following:

1. The 1977 edition of the ASME, Section III Code was used;
2. The 1978-79 edition of 10 CFR 50, Appendix G was used;
3. Fluence was calculated at the 1/4T (one-quarter wall thickness) location for ten effective full power years of operation. This was accomplished by multiplying the fluence values on the inside wall surface of the reactor vessel by 0.75 as recommended by the General Electric Company.
4. Irradiation damage curves for the worst case copper and phosphorus content of the reactor vessel wall material provided in Regulatory Guide 1.99, "Effects of Residual Elements on Predicted Radiation Damage to Reactor Vessel Materials," dated April, 1977, were used.

This Technical Specification Change Request has been reviewed and approved by the Station Manager, the Plant Operations Review Committee, and an Independent Safety Review Group in accordance with Section 6.5 of the Oyster


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Creek Technical Specifications.

Since this submittal is a revision to a previously submitted Technical Specification Change Request, we have determined that no fee is necessary.

Very truly yours,


Ivan R. Finfrock, Jr.
Vice President

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JERSEY CENTRAL POWER & LIGHT COMPANY
OYSTER CREEK NUCLEAR GENERATING STATION

Provisional Operating
License No. DPR-16

Technical Specification
Change Request No. 77
Docket No. 50-219

Applicant submits, by this Technical Specification Change Request No. 77 to the Oyster Creek Nuclear Generating Station Technical Specifications, changes to the fracture toughness requirements in Section 3.3.

JERSEY CENTRAL POWER & LIGHT COMPANY

BY:

Sam R. Fairbank
Vice President

STATE OF NEW JERSEY
COUNTY OF MORRIS

Sworn and subscribed to before me this 2nd day of October, 1979.

Phyllis A. Kabis
Notary Public

PHYLLIS A. KABIS
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Aug. 16, 1984

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