



January 20, 1989
IPN-89-007

John C. Brons
Executive Vice President
Nuclear Generation

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Station Pl-137
Washington, D.C. 20555

Subject: Indian Point 3 Nuclear Power Plant
Docket No. 50-286
Proposed Changes to Technical Specifications
Regarding the Transition to Westinghouse
15 x 15 Vantage 5 Fuel and RTD Bypass
Manifold Elimination Modification

Dear Sir:

This application seeks to revise Appendix A of the Indian Point 3 (IP-3) Operating License. Changes to Sections 1.2, 2.1, 2.3, 3.1, 3.2, 3.3, 3.4, 3.6, 3.8, 3.10 and 5.3 of the IP-3 Technical Specifications are being proposed as a result of the transition to Westinghouse 15 x 15 Vantage 5 fuel. IP-3 is currently operating in Cycle 6 with a transition fueled core containing Westinghouse 15 x 15 low-parasitic (LOPAR) assemblies and 15 x 15 Optimized Fuel Assemblies (OFAs). For subsequent cycles, it is planned to refuel IP-3 with the Westinghouse 15 x 15 Vantage 5 improved fuel design. IP-3 will operate with transition cores containing Vantage 5 and OFA fuel until all Vantage 5 cycles are achieved.

The analyses performed with regard to the transition to Vantage 5 fuel have incorporated certain conservative assumptions which should be briefly discussed. For the Loss of Normal Feedwater Analysis, the auxiliary feedwater system is assumed to supply a total of 340 gpm to two steam generators from one motor-driven auxiliary feedwater pump. The Final Safety Analysis Report (FSAR) assumes a total of 400 gpm to two steam generators from one motor-driven auxiliary feedwater pump. Conservatism has been incorporated to account for pump degradation which may occur over the course of its operating life.

*A001 w/check
" " \$150
#392516*

The Authority is planning to eliminate the Resistance Temperature Detector (RTD) bypass manifold. To replace the bypass manifold, thermowell mounted RTDs will be installed directly into the hot and cold leg loop piping. The complexity of the bypass manifold piping has been a concern of the Authority for some time. Excessive maintenance and housekeeping activities are necessary as a result of system leakage. These maintenance and housekeeping activities are a significant source of occupational radiation exposure. Experience at other Westinghouse plants indicates that using thermowell mounted RTDs minimizes leakage and; therefore, maintenance and housekeeping activities. The Vantage 5 fuel transition analysis discussed in Attachment II, conservatively includes the changes in RTD response time and the instrumentation uncertainties for all the FSAR Non-Loss-of-Coolant-Accidents. For the Loss of Coolant Accident analyses, the changes in RTD response time and instrumentation uncertainties do not affect the results of the analyses. Details of the RTD bypass manifold elimination modification will be provided for staff review in a subsequent submittal.

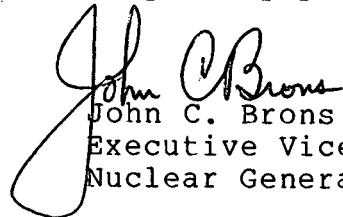
Enclosed for filing is the signed original document entitled, "Application for Amendment to Operating License," together with Attachment I and II thereto, comprising a statement of the proposed changes to the Technical Specifications and the associated Safety Evaluation.

In accordance with 10 CFR 170.12, a check in the amount of \$150.00 is enclosed as payment of the application fee for the review of these proposed changes to the Technical Specifications.

In accordance with 10 CFR 50.91, a copy of this application and the associated attachments is being submitted to the designated New York State Official.

Should you or your staff have any questions regarding this matter, please contact Mr. P. Kokolakis of my staff.

Very truly yours,



John C. Brons
Executive Vice President
Nuclear Generation

cc: Resident Inspector's Office
Indian Point Unit 3
U.S. Nuclear Regulatory Commission
P.O. Box 337
Buchanan, NY 10511

Ms. Donna Ross
Division of Policy Analysis & Planning
Empire State Plaza
Building Number 2 - 16th Floor
Albany, NY 12223

Joseph D. Neighbors, Sr. Proj. Mgr.
Project Directorate I-1
Division of Reactor Projects - I/II
U.S. Nuclear Regulatory Commission
Mail Stop 14B2
Washington, D.C. 20555

U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

BEFORE THE UNITED STATES
NUCLEAR REGULATORY COMMISSION

In the matter of)
POWER AUTHORITY OF THE STATE OF NEW YORK) Docket No. 50-286
Indian Point 3 Nuclear Power Plant)

APPLICATION FOR AMENDMENT TO
OPERATING LICENSE

Pursuant to Section 50.90 of the regulations of the Nuclear Regulatory Commission (NRC), the Power Authority of the State of New York, as holder of Facility Operating License No. DPR-64, hereby applies for an Amendment to the Technical Specifications contained in Appendix A of this license.

This application seeks to amend Sections 1.2, 2.1, 2.3, 3.1, 3.2, 3.3, 3.4, 3.6, 3.8, 3.10 and 5.3. These changes are being proposed as a result of the transition to Westinghouse 15 x 15 Vantage 5 fuel. IP-3 is currently operating in Cycle 6 with a transition fueled core containing Westinghouse 15 x 15 low-parasitic (LOPAR) assemblies and 15 x 15 Optimized Fuel Assemblies (OFAs). For subsequent cycles it is planned to refuel IP-3 with the Westinghouse 15 x 15 Vantage 5 improved fuel design. IP-3 will operate with transition cores containing Vantage 5 and OFA fuel until all Vantage 5 cycles are achieved.

The proposed changes to the Technical Specifications are presented in Attachment I to this application. The Safety Evaluation corresponding to this change is included in Attachment II.

POWER AUTHORITY OF THE
STATE OF NEW YORK

BY John C. Brons
John C. Brons
Executive Vice President
Nuclear Generation

STATE OF NEW YORK
COUNTY OF WESTCHESTER

Subscribed and sworn to before me
this 20th day of January 1989

Barbara Ann Taggart

BARBARA ANN TAGGART
NOTARY PUBLIC, State of New York
No. 4851437
Qualified in Putnam County
Commission Expires Jan. 27, 19 90