

May 22, 1989

Docket No. 50-333

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Mr. John C. Brons
Executive Vice President, Nuclear Generation
Power Authority of the State of New York
123 Main Street
White Plains, New York 10601

Dear Mr. Brons:

SUBJECT: ENVIRONMENTAL ASSESSMENT RELATING TO THE LICENSE EXPIRATION
DATE CHANGE FOR THE FITZPATRICK NUCLEAR POWER PLANT (TAC NO. 66123)

By letter dated April 27, 1989, we transmitted to you the "Environmental Assessment by the Office of Nuclear Reactor Regulation Relating to the Change in the Expiration Date of Facility Operating License DPR-59, Power Authority of the State of New York, Oswego County, New York. FitzPatrick Nuclear Power Plant, Docket Number 50-333." Attached are two pages which have been modified to: (1) add the date to the cover page of the document, and (2) indicate that the 300 person-rem commitment referred to on page 3 is intended to apply to non-refueling years only. Since this specific information was not addressed in the Federal Register notice (54 FR 19265), this change will not be published.

Please replace the corresponding pages in the aforementioned document with the attached. We regret any inconvenience this may have caused.

Sincerely,

ORIGINAL SIGNED BY
David E. LaBarge, Project Manager
Project Directorate I-1
Division of Reactor Projects I/II

Enclosures:
As stated

cc: See next page

[ENVIRON ASSESSMENT 66123]

OFC	:PDI-1	:PDI-1	:PDI-1	:	:	:	:
NAME	:CVogan	:DLaBarge	:vr	:RCapra	:	:	:
DATE	:5/22/89	:5/22/89	:5/22/89	:	:	:	:

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ENVIRONMENTAL ASSESSMENT
BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATING TO THE CHANGE IN THE EXPIRATION DATE OF
FACILITY OPERATING LICENSE DPR-59
POWER AUTHORITY OF THE
STATE OF NEW YORK
OSWEGO COUNTY, NEW YORK
FITZPATRICK NUCLEAR POWER PLANT
DOCKET NUMBER 50-333
DATED: April 27, 1989

period covering 1984 through 1988 has been 832 person-rem per year, which is only slightly higher than the industry average of approximately 800 person-rem dose per unit per year for operating boiling water reactors in the United States. This period included two years (1985 and 1987) when outages required unusually high dose commitments for inspections and repair of plant systems. The licensee does not expect any increases in station dose during the years 2010 to 2014 and has, in fact, committed to a goal of less than 300 person-rem, each nonrefueling year starting in 1989. It is expected that this can be accomplished with a strong ALARA program which is being developed and by using state-of-the-art technologies, including zinc injection, enhanced chemistry control and modern decontamination methods. The staff expects that increased doses from maintenance and corrosion product buildup will be offset by a continually improving ALARA program, dose-saving plant modifications, and fewer major modifications. Continuing improvements in fuel integrity and increased effort to prevent leaks from contaminated systems are expected to result in further decreases in personnel contaminations. Overall, occupational radiation exposures can be expected to remain about as estimated in the FES and lower than has been experienced during recent years.

Additional occupational exposures will result from decommissioning of the FitzPatrick plant, although these doses will be incurred with or without the license extension periods. Any increases in corrosion product buildup during the period of extension will be compensated for by improved chemistry controls and other ALARA measures. Consequently, the extended operating time should have no measurable adverse effect on decommission dose requirements.

The combined storage capacity of the spent fuel pool is 2244 bundles. Current projections indicate that the pool will be unable to accommodate a full core off-load by the year 1991 and will not be able to accommodate a refueling off-load (approximately) one-third of the core) by the year 1995. Present plans call for submittal of a license amendment in mid-1989 to install new fuel racks which will accommodate an additional 553 fuel bundles. This will extend the full core off-load capability year to 1997 and the refueling off-load year to 2001. During this time other plans can be formulated for additional storage capability either on-site or in conjunction with plans being developed by the State of New York.

The staff concludes that the licensee's dose assessment is acceptable and that the radiation protection program at FitzPatrick is adequate to ensure that occupational radiation exposures will be maintained ALARA and in continued compliance with the requirements of 10 CFR Part 20.

Therefore, the staff concludes that the environmental impact associated with a 40-year operating license duration is not significantly different from that associated with the approximately 35-year operating term authorized by the existing license which was previously assessed in the FitzPatrick FES.

4.1.3 Environmental Impacts-Transportation of Fuel and Waste

The staff has reviewed the environmental impact attributable to the transportation of fuel and waste to and from the FitzPatrick site. With respect to the normal conditions of transport and possible accidents in

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