

March 15, 1995

Mr. William J. Cahill, Jr.
Executive Vice President - Nuclear
Generation
Power Authority of the State
of New York
123 Main Street
White Plains, NY 10601

SUBJECT: CORRECTION OF SAFETY EVALUATION RELATED TO AMENDMENT NO. 223 FOR
JAMES A. FITZPATRICK NUCLEAR POWER PLANT (TAC NO. M88088)

Dear Mr. Cahill:

By letter dated January 27, 1995, the Commission issued Amendment No. 223 to Facility Operating License No. DPR-59 for the James A. FitzPatrick Nuclear Power Plant. The amendment consisted of changes to the Technical Specifications (TSs) in response to your application transmitted by letter dated September 28, 1993, and revised TS Section 4.11.D to change the Emergency Service Water System pumps flow rate requirements, among other changes.

Section 2.2.1, on page 2 of the related Safety Evaluation, misstated the current Surveillance Requirement (SR) minimum flow requirements. The attached page 2 of the Safety Evaluation, reflects the correct, pre-Amendment No. 223 SR minimum flow requirements and the proposed, post-Amendment No. 223 SR minimum flow requirements.

We apologize if the misstatement caused any difficulties.

Sincerely,

Original signed by

C. E. Carpenter, Jr., Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-333

Enclosure: Corrected Page 2 to
Safety Evaluation

cc w/encl: See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

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We apologize if the misstatement caused any difficulties.

Sincerely,

A handwritten signature in black ink, appearing to read "C. E. Carpenter, Jr.", written in a cursive style.

C. E. Carpenter, Jr., Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

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William J. Cahill, Jr.
Power Authority of the State of New York

James A. FitzPatrick Nuclear
Power Plant

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support of a TS change, dated November 11, 1991, to revise ASME Code Section XI and ESW pump surveillance testing. The resolution of these errors and results of actual system testing were used to support the currently proposed amendment.

2.2 Assessment

The ESW system consists of two independent supply loops each with an ESW pump to provide cooling for a safe reactor shutdown.

The present Surveillance Requirement (SR) for testing of the ESW pumps specifies a minimum pump total developed head at zero flow for each ESW pump. This is also known as a shut off head test. The proposed SR will alleviate the shortcomings of the current test by demonstrating the capability of the pumps to provide flow to the system and minimize the wear caused by shut off head testing.

The proposed SR would also decrease the minimum required flow to provide operational flexibility to deal with microbiologically induced corrosion (MIC) which restricts flow to the crescent area coolers. To allow for reduced flow, the licensee has revised the system line-up, taken credit for the margin in the original cooler designs and revised calculated heat loads to remove excess conservatism.

The proposed SR will demonstrate that the ESW pump continues to remain operable. The acceptability of the proposed test to demonstrate pump operability was determined by the licensee, based on three factors: 1) a determination of minimum ESW system flow requirements; 2) an evaluation of the system hydraulic characteristics; and 3) the licensee's IST program procedures. The results of the licensee's review of the above three areas are presented below.

2.2.1 System Flow Requirements

The proposed SR specifies that each pump is to be tested by delivery of flow of "at least 1500 gpm to its respective loop." The proposed SR is written so that the pump test flow requirements are above the minimum flow of the ESWS. This assures that pump operability testing is done with flow above the minimum flow required by the system.

The minimum flow requirement to all components in the normally aligned configuration, which includes components required for design basis events, is 1400 gpm and 1438 gpm for trains A and B, respectively. The current SR calls for a 3250 gpm per pump. The proposed SR calls for a reduction in flow to 1750 gpm per pump. This reduction in flow also reduces the heat removal capability of the system; however, according to the licensee, the system will continue to provide adequate heat removal capacity.