



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

February 14, 1991

Docket No. 50-333

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: CONTAINMENT ISOLATION DEPENDABILITY, NUREG-0737, ITEM
II.E.4.2, POSITIONS 1 THROUGH 4, FOR THE JAMES A.
FITZPATRICK NUCLEAR POWER PLANT (TAC NOS. 68354, 64222,
75872, 73361)

The purpose of this letter is to consolidate the information related to NUREG-0737, Item II.E.4.2, Positions 1 through 4, for the James A. FitzPatrick Nuclear Power Plant which has been generated over the years to address plant and technical specifications changes related to the NUREG acceptance criteria.

By letter dated January 7, 1982, you indicated completion of a comprehensive review of the containment isolation dependability issue for the James A. FitzPatrick Nuclear Power Plant in accordance with NUREG-0737, Item II.E.4.2. You indicated that there were six non-essential systems which did not fully meet the NUREG-0737 acceptance criteria, outlined modifications which would be implemented, and indicated that once the modifications were completed you would be in full compliance with the criteria.

These non-essential systems are listed in the enclosure, along with a summary of the proposed modifications, a summary of the proposed technical specification amendments, and a summary of the safety evaluations which found the technical specification amendments acceptable. In the case of the Leak Rate Analyzer, no change to the technical specifications was needed and, therefore, no safety evaluation was performed.

By letter dated April 17, 1989, "Status of TMI Items," you indicated that all actions related to Item II.E.4.2 were satisfactorily implemented.

9102260339 910214
PDR ADOCK 05000333
P PDR

DFD
11

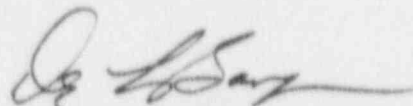
210030

Mr. John C. Brons

- 2 -

A review of the documents referenced in this summary, indicates that the James A. FitzPatrick Nuclear Power Plant meets the acceptance criteria of NUREG-0737, Item II.E.4.2, Positions 1 through 4. Therefore, this activity is considered complete for your facility.

Sincerely,



David E. LaBarge, Project Manager
Project Directorate 1-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc w/enclosure:
See next page

Mr. John C. Brons
Power Authority of the State of New York

Mr. Gerald C. Goldstein
Assistant General Counsel
Power Authority of the State
of New York
1633 Broadway
New York, New York 10019

Resident Inspector's Office
U. S. Nuclear Regulatory Commission
Post Office Box 136
Lycoming, New York 13093

Mr. William Fernandez
Resident Manager
James A. FitzPatrick Nuclear
Power Plant
Post Office Box 41
Lycoming, New York 13093

Mr. J. A. Gray, Jr.
Director Nuclear Licensing - BWR
Power Authority of the State
of New York
123 Main Street
White Plains, New York 10601

Supervisor
Town of Scriba
R. D. #4
Oswego, New York 13126

Mr. J. P. Bayne, President
Power Authority of the State
of New York
1633 Broadway
New York, New York 10019
1633 Broadway

Mr. Richard Patch
Quality Assurance Superintendent
James A. FitzPatrick Nuclear
Power Plant
Post Office Box 41
Lycoming, New York 13093

Charlie Donaldson, Esquire
Assistant Attorney General
New York Department of Law
120 Broadway
New York, New York 10271

James A. FitzPatrick Nuclear
Power Plant

Ms. Donna Ross
New York State Energy Office
2 Empire State Plaza
16th Floor
Albany, New York 12223

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406

Mr. A. Klausman
Senior Vice President - Appraisal
and Compliance Services
Power Authority of the State
of New York
1633 Broadway
New York, New York 10019

Mr. George Wilverding, Manager
Nuclear Safety Evaluation
Power Authority of the State
of New York
123 Main Street
White Plains, New York 10601

Mr. R. E. Beedle
Vice President Nuclear Support
Power Authority of the State
of New York
123 Main Street
White Plains, New York 10601

Mr. S. S. Zulla
Vice President Nuclear Engineering
Power Authority of the State
of New York
123 Main Street
White Plains, New York 10601

Mr. William Josiger, Vice President
Operations and Maintenance
Power Authority of the State
of New York
123 Main Street
White Plains, New York 10601

SUMMARY OF NUREG-0737, ITEMS II.E.4.2Positions 1 Through 4

1. Reactor Water Cleanup (RCU) System

Non-Conformance Issue Identified by PASNY: Isolation valves MOV-15, MOV-18, and MOV-80 do not receive diverse isolation signals. Also, only one isolation valve in the line discharging to the feedwater system exists, two are needed to satisfy the criteria.

Modifications Proposed by PASNY: Modify the RCU system to provide a discharge isolation valve which satisfies the criteria (trip signal diversity, valve indication in the Control Room, testability and leakage determination), and provide diverse isolation signals to the isolation valves.

Technical Specification Amendment Submittal: By letter dated May 27, 1988, PASNY requested changes to the technical specifications in accordance with NUREG-0737, Item II.E.4.2. The changes would add a second Reactor Water Cleanup containment isolation valve (MOV-69) and diverse signals to the isolation valves (MOV-15, 18, 80, 69), which satisfy the criteria.

Safety Evaluation: Amendment No. 118 was issued November 10, 1988 (TAC No. 68354) which determined that the modifications were acceptable.

2. Traversing Incore Probe (TIP) System

Non-Conformance Issue Identified By PASNY: TIP nitrogen purge line contains only one isolation valve, two are needed to satisfy the criteria.

Modifications Proposed By PASNY: Modify the TIP purge line to add an isolation valve which satisfies the criteria (trip signal diversity, valve indication in the Control Room, testability and leakage determination).

Technical Specification Amendment Submittal: By letter dated January 3, 1987, PASNY requested changes to the technical specifications in accordance with NUREG-0737, Item II.E.4.2. The change would replace the check valve in the purge line with an isolation valve which meets the criteria.

Safety Evaluation: Amendment No. 108 was issued April 2, 1987 (TAC No. 64222) which determined that the modifications were acceptable.

Additional Information: By letters dated January 12, 1990 and May 4, 1990, PASNY requested changes to the technical specifications to remove the purge line and associated valves. Amendment No. 161 (TAC No. 75872) was issued May 24, 1990, which determined that the changes were acceptable. Therefore, the purge line and isolation valves no longer exist.

3. Recirculation Pump Mini-Purge

Non-Conformance Issue Identified By PASNY: Mini-Purge lines contain only one isolation valve, two are needed to satisfy the criteria.

Modifications Proposed By PASNY: Modify the Recirculation Pump Mini-Purge line to replace the Mini-Purge valves with valves which satisfy the criteria (trip signal diversity, valve indication in the Control Room, testability and leakage determination).

Technical Specification Amendment Submittal: By letter dated January 3, 1987, PASNY requested changes to the technical specifications in accordance with NUREG-0737, Item II.E.4.2. The changes would replace the two existing check valves located outside the primary containment with one new solenoid-operated isolation valve inside and one outside the containment which satisfy the criteria.

Safety Evaluation: Amendment No. 108 (TAC No. 64222) was issued April 2, 1987, which indicated that the changes were acceptable.

4. Leak Rate Analyzer

Non-Conformance Issue Identified By PASNY: There are two isolation valves (101A and 101B) in series in the drywell pressure sensing line and two isolation valves (102A and 102B) in series in the torus pressure sensing line. One control switch operates the A valves and another switch operates the B valves. The criteria requires that reopening of containment isolation valves be performed on a valve-by-valve or line-by-line basis.

Modification Proposed By PASNY: Change the logic so that the 101A/B valves open independently of the 102A/B valves to eliminate graded reopening.

Technical Specification Amendment Submittal: The plant changes, as outlined in the January 7, 1982 letter, to comply with the NUREG-0737 criteria did not require a change to the technical specifications.

Safety Evaluation: Since no technical specification change was needed to implement the change, no safety evaluation was performed.

5. Reactor Building Closed Loop Cooling Water

Non-Conformance Issue Identified By PASNY: Effluent lines from the primary containment only have single manual isolation valves located outside of the containment.

Modification Proposed By PASNY: Modify the effluent lines to incorporate power operated isolation valves with remote manual actuation.

Technical Specification Amendment Submittal: By letter dated May 31, 1989, PASNY requested changes to the technical specifications in accordance with NUREG-0737, Item II.E.4.2. The changes would add air-operated remote manual containment isolation valves which are operable from the Control Room.

Safety Evaluation: Amendment No. 150 (TAC No. 73361) was issued February 13, 1990, which indicated that the changes were acceptable.

6. Containment Vent and Purge

Non-Conformance Issue Identified By PASNY: Signals used to cause isolation of the primary containment vent and purge valves were not diverse.

Modifications Proposed By PASNY: Per Table 1 of the January 7, 1982 letter, addition of the high drywell radiation trip signal was necessary in order to comply with the NUREG-0737 criteria.

Technical Specification Amendment Submittal: By letter dated May 31, 1989, PASNY requested changes to the technical specifications in accordance with NUREG-0737, Item II.E.4.2. The changes would add Signal "H" (Containment High Radiation) to cause isolation of the containment vent and purge valves.

Safety Evaluation: Amendment No. 150 (TAC No. 73361) was issued February 13, 1990, which indicated that the changes were acceptable.

February 14, 1991

Mr. John C. Brons

- 2 -

A review of the documents referenced in this summary, indicates that the James A. FitzPatrick Nuclear Power Plant meets the acceptance criteria of NUREG-0737, Item II.E.4.2, Positions 1 through 4. Therefore, this activity is considered complete for your facility.

Sincerely,

ORIGINAL SIGNED BY:

David E. LaBarge, Project Manager
Project Directorate 1-1
Division of Reactor Projects - 1/11
Office of Nuclear Reactor Regulation

Enclosure:
As stated

cc with enclosure:
See next page

Distribution:

Docket File	NRC & LOCAL PDRs
PDI-1 Reading	SVarga
EGreenman	CVogan
DLaBarge	OGC
E. Jordan	ACRS (10)
RACapra	JLinville
Plant File	CMcCracken

OFC	:PDI-1:LA	:PDI-1:PM	<i>Det</i> :NRR/SPLB	:PDI-1:0	:
NAME	:CVogan <i>CO</i>	:DLaBarge:avl	:CMcCracken	:RACapra <i>RO</i>	:
DATE	:2/7/91 <i>2/20/91</i>	:2/7/91	:2/14/91	:2/19/91	:

OFFICIAL RECORD COPY
Document Name: FITZ LTR TO BRONS/68354