

Docket No. 50-333

NOV 8 - 1982

Mr. Leroy W. Sinclair  
President and Chief Operating Officer  
Power Authority of the State of New York  
10 Columbus Circle  
New York, New York 10019

Dear Mr. Sinclair:

SUBJECT: RESPONSE TO GENERIC LETTER 81-04 ON IMPLEMENTATION OF  
NUREG-0313, REV. 1

Re: James A. FitzPatrick Nuclear Power Plant

Our Generic Letter 81-04 to all BWR licenses dated February 26, 1981 requested you to review all ASME Code Class 1 and 2 pressure boundary piping, safe ends and fitting material at your BWR facilities to determine if it meets the material selection, testing and processing guidelines set forth in NUREG-0313, Rev. 1, a copy of which was enclosed with the generic letter. This letter requested that you propose a schedule to: 1) identify any materials that do not meet the guidelines, 2) implement the augmented inservice inspection requirements specified in Section IV of NUREG-0313, Rev. 1, 3) discuss your plans to replace (to the extent practicable) nonconforming materials and 4) install more sensitive, diverse leak detection systems. Our generic letter offered the option of providing a description, schedule and justification for alternative actions that would reduce the susceptibility of pressure boundary piping and safe ends to intergranular stress corrosion cracking (IGSCC) or increase the probability of early detection of leakage from pipe cracks.

Based on our review of your response to our Generic Letter 81-04, we have determined that we need the additional information identified in the enclosure to this letter. In view of recent developments regarding pipe cracking in BWRs, we request that you respond within 30 days of receipt of this letter. We also request that you send a copy of your response directly to our contractor:

EG&G Idaho, Inc.  
P. O. Box 1625  
Idaho Falls, Idaho 83415  
ATTN: Mr. Wayne Roberts

8211220476 821108  
PDR ADOCK 05000333  
P PDR

OFFICE ▶	.....	.....	.....	.....	.....	.....	.....
SURNAME ▶	.....	.....	.....	.....	.....	.....	.....
DATE ▶	.....	.....	.....	.....	.....	.....	.....

This request for information is specific to one licensee. Therefore, OMB clearance is not required for this request under P. L. 96-511.

If you have any questions, please contact your Project Manager, Joseph D. Hegner at 301-492-8218.

Sincerely,

Original signed by  
D. B. Vassallo

Domenic B. Vassallo, Chief  
Operating Reactors Branch #2  
Division of Licensing

Enclosure:  
Request for Additional  
Information

cc w/enclosure:  
See next page

Distribution:	Docket File	NRC PDR	LPDR	ORB#2 Rdg	DEisenhut
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SURNAME ▶	SNorris	JHegner	RCClark	DVassallo		
DATE ▶	11/7/82	11/8/82	11/08/82	11/8/82		

Mr. Leroy W. Sinclair  
Power Authority of the State  
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cc:

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Regional Administrator, Region I  
U.S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA 19406

Request for Additional Information  
Implementation of NUREG-0313, Rev. 1  
James A. FitzPatrick Nuclear Power Plant  
Docket No. 50-333

1. Reclassification of Safe Ends (III.A.2 of NUREG-0313 Rev. 1).

In the letter from J. P. Bayne to T. A. Ippolito dated September 28, 1981 (JPN-81-76), it is mentioned that the "safe-ends, previously reported as nonconforming, are manufactured from low carbon stainless steel." Therefore, the safe-ends were reclassified as conforming.

Please supply a manufacturer's chemical composition certification of the safe-ends. This chemical composition should include the carbon level.

2. Unidentified Leakage Monitoring (IV.B.1 of NUREG-0313 Rev. 1).

- a. Identify the methods to detect and monitor unidentified leakage in the pressure boundary piping of your BWR. Some of these methods are enumerated in Regulatory Guide 1.45, Paragraph B.
- b. Please fill out the attached table of information regarding the systems identified in the above paragraph.

3. Augmented ISI of Nonconforming Service Sensitive Pipe

- a. Please identify the methods for augmented ISI of the nonconforming service sensitive pipe.
- b. Provide a copy of the specifications for the augmented ISI method of methods (IV.B.3 of NUREG-0313 Rev. 1).
- c. Identify each of the augmented ISI methods used and the training and certification levels the individuals using those methods received. Indicate if cracked specimens are used in your training (IV.B.3 of NUREG-0313 Rev. 1).
- d. Identify the proportion of the nonconforming service sensitive pipe that is being inspected (IV.B.2.b of NUREG-0313 Rev. 1).
- e. Identify the inspection interval of each system of the nonconforming service sensitive pipe (IV.B.2.b of NUREG-0313 Rev. 1).
- f. Identify the Stress Rule Index Numbers for the welded joints in the nonconforming service sensitive pipe (IV.B.1.b (6) of NUREG-0313 Rev. 1).

4. Augmented ISI of Nonconforming Nonservice Sensitive Piping

- a. Please identify the methods for augmented ISI of the nonconforming nonservice sensitive piping (IV.B.3 of NUREG-0313 Rev. 1).

- b. Please provide a copy of the specifications for the augmented ISI method or methods (IV.B.3 of NUREG-0313 Rev. 1).
  - c. Identify each of the augmented ISI methods used and the training and certification levels the individuals using those methods received. Indicate if cracked specimens are used in your training (IV.B.3 of NUREG-0313 Rev. 1).
  - d. Identify the proportion of the nonconforming nonservice sensitive piping that is being inspected (IV.B.2b of NUREG-0313 Rev. 1).
  - e. Identify the Stress Rule Index Numbers for the welded joints in the nonconforming nonservice sensitive piping (IV.B.1.b (6) of NUREG-0313 Rev. 1).
  - f. Identify the proposed inspection interval for each system of nonconforming nonservice sensitive piping (IV.B.1.b of NUREG-0313 Rev. 1).
5. Coolant Leakage (IV.B.1.b(2) of NUREG-0313 Rev. 1)

NUREG-0313 Rev. 1 requires that:

Plant shutdown should be initiated for inspection and corrective action when any leakage detection system indicates, within a period of 24 hours or less, an increase in rate of unidentified leakage in excess of 2 gallons per minute or its equivalent, or when the total unidentified leakage attains a rate of 5 gallons per minute or its equivalent, whichever occurs first. For sump level monitoring systems with fixed-measurement interval method, the level should be monitored at 4-hour intervals or less.

Please provide technical justification for not including this in your Technical Specifications. This justification should include data or operating experience.

INFORMATION REQUESTED ON LEAK DETECTION SYSTEM

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Type of System	Is System Operable (yes/no)	Leak Rate Sensitivity (gpm)	Time Required To Achieve Sensitivity (hours)	Is System Functional After SSE (yes/no)	Control Room Indications (alarms) (recorders)	Calibration or Testing During Operation (yes/no)	Documentation Reference for (1) Thru (6)

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