123 Main Street
White Plains, New York 10601
914 681.6200

New York Power Authority

J. Phillip Bayne
Executive Vice President
Nuclear Generation

October 1, 1984
JPN-84-61

Director of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Mr. Domenic B. Vassallo
Operating Reactors Branch No. 2
Division Of Licensing

Subject: James A. FitzPatrick Nuclear Power Plant
Docket No. 50-333
IE Bulletin No. 84-01
Mark I Containment Vent Headers

References: 1. NRC IE Bulletin No. 84-01, "Cracks In Boiling Water Reactor Mark I Containment Vent Headers," dated February 3, 1984.

Dear Sir:

On September 7, 1984, one week prior to a scheduled outage, we were notified that a written report on the subject Bulletin was required immediately.

Attachment I provides our response as requested. This response has been delayed due to the demands of the outage as well as of other current licensing activities.

It should be noted that on April 27, 1984 the Authority received a request for either an oral or a written report. We provided an oral report at that time, and submitted copies of visual inspection reports.

It should also be noted that while the FitzPatrick facility was not in cold shutdown when the Bulletin was issued, and no action was required, nevertheless, a review of the Bulletin and related documents was initiated, and various evaluations, procedure revisions and extensive visual inspections were undertaken.

A025 1/1 Add: IE/DEPER/EGCB 1 1 LTR ENCL
IE/DEPER/EGCB/S 1 1

If there are any questions, please do not hesitate to call Mr. J.A. Gray, Jr. of my staff.

Very truly yours,

J.P. Bayne
First Executive Vice President
Chief Operations Officer

cc: Office of the Resident Inspector
U.S. Nuclear Regulatory Commission
P.O. Box 136
Lycoming, New York 13093

New York Power Authority
James A. FitzPatrick Nuclear Power Plant

Attachment I

JPN-84-61

A. IE Bulletin No. 84-01:
Actions to be taken by all BWRs having Mark I Containments and Currently Shutdown:

1. Plants that are currently in cold shutdown should visually inspect for cracks in the entire vent header and in the main vents in the region near the intersection with the vent header. To the extent practicable, the inspection should include the entire surfaces of the aforementioned components. The inspection should be completed within 36 hours of receipt of this bulletin.

2. If cracks are found, the containment should be declared inoperable.

3. The results of the inspection are to be reported by telephone to NRC Operations Center within 8 hours after the inspection has been completed. A written report describing the areas inspected and the results should be submitted within seven days of receipt of the bulletin.

Response to IE Bulletin No. 84-01

The James A. FitzPatrick Nuclear Power Plant was operating when IE Bulletin No. 84-01 (IEB-84-01) was issued. Accordingly, it was not practical to inspect the vent header or main vents in the region near the intersection with the vent header at that time.

B. Other inspection activities performed or planned:

While it was not practical to perform an immediate inspection of the vent header and related structures and components as suggested by IEB-84-01, the FitzPatrick plant staff initiated review and/or evaluation of IEB-84-01 and other related documents under the Plant Operating Experience Review Program shortly after they were received at the JAF plant. These related documents are IE Information Notice 84-17, INPO SER 14-84 and GE SIL 402.

As a result of the IEB-84-01 (and the related documents noted above), the following evaluations, inspections, and procedure revisions have been completed or will be completed by the indicated date.

1. An evaluation of drywell to suppression pool differential pressure was conducted to verify that no significant leakage from the drywell to the suppression pool was present.

2. On March 2, 1984, the JAF plant was shut down for scheduled maintenance and modification. During this shutdown period, a visual examination was conducted as indicated below:

Outside of Vent Header - The entire top surface of the vent header was inspected including girth and attachment welds. The nitrogen penetration is in the center of bay O, and bays P and A are adjacent to bay O. In bays P, O, and A, the pipe surface and all associated weldments were inspected approximately 220° around the vent header starting at 2 o'clock and moving counter-clockwise to 6 o'clock. One-half of the downcomer to vent header attachment welds in bays P, O, and A, were also inspected.

Inside of Vent Header - The entire inside surface of the vent header in bays P, O, and A were inspected. This included all girth welds and all downcomer to vent header attachment weldments.

Nitrogen Penetration - The suppression pool (wetwell) I.D. side of the nitrogen penetration to suppression pool shell weldment, and the suppression pool plate materials (approximately 12" all around the penetration) were inspected.

No evidence of cracking was discovered during any of the above inspections. Since none of the original (construction) examinations included ultra-sonic testing (UT), no UT baseline exists. Accordingly, no UT examinations are planned.

3. An evaluation of the inerting system has been conducted. As a result of this evaluation, the applicable procedures have been revised to provide assurance that cold gaseous (or liquid) nitrogen is not introduced into the inerting system or into containment components which are not designed for low temperature operation.

4. A surveillance procedure to test operation of the low temperature isolation function will be implemented by October 10, 1984.

5. Periodic calibration of temperature switches and indication to assure proper operation of the low temperature isolation, and provide the operator with reliable temperature indication, will be implemented by October 10, 1984.

6. During the next scheduled primary containment integrated leak rate test, a drywell to suppression pool (wetwell) bypass leakage test will be conducted. The test is currently scheduled for the end of the 1985 Refueling Outage.

James A. FitzPatrick
Nuclear Power Plant
P.O. Box 41
Lycoming, New York 13093
315 342 3840

New York Power Authority

Corbin McNeill
Resident Manager

MARCH 8, 1984
JAF-QF-84-030

MEMORANDUM TO: Superintendent of Power

FROM: R. Patch

SUBJECT: JAFNPP
Quality Assurance
Visual Inspection of Torus Ring Header

REFERENCE: JOC-84-006 (2/23/84) Visual Inspection of Torus Ring Header

As requested in the referenced memorandum, a visual inspection of the torus ring header was performed on 3/4/84. The inspections were performed by C. Krok, P. Morris, and R. Patch. The areas inspected are as follows:

- Outside of Ring Header - The entire top surface of the ring header was inspected including girth and attachment welds. In bays P, O, and A, the pipe surface and all associated weldments were inspected approximately 220° around the header starting at 2 o'clock and moving counter-clockwise to 6 o'clock. One-half of the downcomer to ring header attachment welds in bays P, O, and A, were also inspected.

- Inside of Ring Header - The entire inside surface of the ring header in bays P, O and A were inspected. This includes all girth welds and all downcomer to ring header attachment weldments.

- Nitrogen Penetration - The torus I.D. side of the nitrogen penetration to torus shell attachment weldment and the torus plate materials approximately 12" all around the penetration.

Conclusion: No evidence of cracking was discovered during any of the above inspections.

Miscellaneous Observations: During the above inspections it was noted that tools and other loose debris were laying inside the vent header piping. The outside of the vent header piping in the area adjacent to the nitrogen penetration entrance to the torus is exhibiting considerable surface rusting.

The inspection will be formally documented in an Inspection Report to be issued in accordance with the requirements of the Nondestructive Examination Procedures, but this memo is being written to advise you that the results of the inspection were satisfactory.

If you have any questions regarding this memo, please contact the writer.

Richard L. Patch
QA Supt. in Training

cc: M. Cosgrove
J. Kerfien
T. Butler
R. Liseno
File 3.0.2

RLP:cp

James A. Fitzpatrick Nuclear Power Plant
WORK REQUEST/EVENT/DEFICIENCY/FORM

1. 27 / Nº 24580
Sys. No.

2. Comp. No. RING HEADER 3. Q.C. Cat. I 4. Safety Rel. (Yes)/No 5. Date 2/24/84 6. Time 11:30
7. Equip. Title: RING HEADER & ATTACHMENT PIPING (TORUS)
8. Work Req. Event or Def. Description: PERFORM VISUAL INSPECTION OF WELDS (and location) MENTIONED AS SET FORTH IN JOG-84-006. THIS INSPECTION MUST BE PERFORMED AS THE RESULT OF PLANT HATCH PROBLEM.
9. Cause: UNKNOWN

(Sign Line 34)

OCCURRENCE REPORT

PART I 10. ☐ YES (see AP 8.2) ☒ NO 42. OR No. _____ 49. LER No. _____

11. Operating Occurrence ☐ Basic Component Defect ☐ Security Infraction ☐
12. Means of Discovery: a. Testing _____ Proc No. _____
b. Normal Ops. _____ c. Sys/Equip - S/U or S/D _____ d. Maint _____
e. NRC Insp No. _____ Name _____ f. Other _____
13. Power Level MWT _____ MWe _____ 14. Mode Switch Position _____
15. Plant Status _____ 16. Tech. Spec. Yes/No Para No. _____
17. a) Surv. Test Req. YES/NO 18. Surv. Test Comp. YES/NO ____ Date ____ Time ____
b) Surv. Test No. _____ 19. Redundant Sys. Avail. YES/NO/NA
20. Initial Corrective Action: _____
21. Preliminary Classification: a. Reportable Yes ____ No ____
b. 10 CFR 21 Yes ____ No ____
22. Notification: Date/Time Date/Time
Ops. Supt. ____/____ Res. Manager ____/____
Supt. of Power ____/____ Other ____/____
23. Completed By _____ (SS/Mtg. Supv.) Date _____ Time _____

WORK REQUIRED: 24: (Yes)/No

25. Priority: (1) 2 3 4 26. Outage: (Yes)/Refuel/No 27. Dept: (Maint)/I&C/ C.P.C. / Other

NPRD: 28. (Yes)/No

29. Stat. Time Fail.		30. Eff. Fail on Sys. (2)		31. Eff. Fail. Plnt. OPS (3)		32. Failure Detection (2)		33. Mode of Failure	
A System in Service		A Loss of Syst. Function		A Reduced Power Operat.		A Operational Abnormal		AA Leak	AM Won't Hold
B System in Test		B Degraded Syst. Oper.		B Unit Off-Line		B Inservice Inspection		AB Crack	AN Won't Release
C System in Maintenance		C Loss of Redundancy		C Reactor Trip		C Surveillance Testing		AC Breach	AP Out of Limits
D System Out of Service		D Loss of Subsyst./Chan.		D Personnel Injury		D Preventive Maintenance		AD Physical Distortion	AR Out of Adjustment
E Subsyst./Chan. in Service		E No Significant Effect		E Excess. Off-Site Radiat.		E Special Inspection		AE Physical Displacement	AS Spurious Operation
F Subsyst./Chan. in Test				F Damage to Other Equip.		F Audio Alarm		AF Collapse	AT False Response
G Subsyst./Chan. in Maint.				G No Significant Effect		G Visual Alarm		AG Fracture/Break	XX Other
H Subsyst./Chan. Out of Serv.						H Routine Surveillance		AH Won't Start/Move	
						J Incidental Observation		AJ Won't Stop	
						X Other		AK Won't Close	
								AL Won't Open	

INITIATION & REVIEW

34. Thomas Kuttler / Originator
35. Thomas Kuttler / Management Supv. / 2/24/84 Date
36. P Allen / SS Unit. / 2/24/84 Date
37. Q.C. Inspection Req. (Yes)/No/NA M McCall (Q.C.) 2/27/84 Date

POST WORK CLEARANCE (If Work Tracking Form Not Used)

38. Man Hours: M _____ E _____ IC _____
Other _____ / _____ / _____ / _____
39. Work Comp/Def. Corr. _____ / _____ 40. _____ / _____
Worker Date Dept. Supv. Date
41. System Restored _____ / _____
SS Acceptance Date

Fig R.1

27 / Nº 24580
Sys. No.

POWER AUTHORITY OF THE STATE OF NEW YORK
QUALITY CONTROL INSPECTION REPORT 1.0 QCIR # 84-0057

2.0 SITE LOCATION JAFNPP 6.0 W.R.E.D. 27/24580

3.0 SYSTEM NAME/NO. Containment Purge 7.0 QA CLASSIFICATION 1

3.1 COMPONENT NAME/NO. Torus Ring Header 8.0 MAT. REPLACEMENT REQ'D N/A

4.0 RESPONSIBLE DEPT./GROUP QC 8.1 MAT. CERTIFICATION REQ'D N/A

5.0 ACTIVITY LOCATION Torus 8.2 MAT. PURCH. ORDER NO. N/A

9.0 PROCEDURE TITLE/NO. NDEP 9.5.1

10.0 PREREQUISITES ACCOMPLISHED YES X NO ____ (IF NO, EXPLAIN UNDER REMARKS)

11.0 REASONS FOR ACTIVITY: Perform visual inspection of torus ring header in accordance with JOC-84-006, and G.E. SIL No. 402.

11.1 QC INSPECTION REQUIREMENTS:
Visual Inspection for cracks only in accordance with NDEP 9.5.1

12.0 WORK DESCRIPTION (INCLUDE MATERIAL AND COMPONENTS USED):
Inspection Only

13.0 POST WORK TEST REQUIREMENTS: None

14.0 POST WORK TEST(S) PERFORMED: N/A

15.0 TEST DATA: (Where filed) Attached

16.0 REMARKS: This inspection was limited to examining the Torus Ring Header and Torus Nitrogen Penetration for cracks only. The examination was limited to Torus bays P, O, + A only however other areas were inspected.

17.0 QC INSPECTOR: Richard L. Patch DATE/TIME: 3/4/84 1CM

JAFNPP QUALITY CONTROL CHECKLIST

SYSTEM: 27

SUBSYSTEM:

COMPONENT: Torus Ring Header

WRED: 27/24580

APPROVAL:

J H Korkan
QC Supervisor

1-6-83
Date

CHECKLIST ATTRIBUTES:	SAT.	UNSAT	N/A	QC INSP.	DATE
1. QC Inspection (Prerequisites)	✓			R-P	3-4-84
* a) QC Inspector has approved checklist on job and has discussed it with personnel performing the work.					
* b) Ensure administrative procedure prerequisites, including initiation of work request, system mark-up, etc., are completed prior to commencement of work.	✓			R-P	3-4-84
* c) Ensure appropriate procedures and/or instructions have been developed, reviewed, and properly approved prior to commencement of activity.	✓			R-P	3-4-84
Note 1 d) Procedure and/or instruction manual available at work location.			✓	EW	
e) Proper documentation for replacement parts on file.			✓	[illegible]	

* Shall be verified by Inspection Coordinator.

Procedures reviewed prior to performance of test. Due to climate in torus + ring header procedures were not available.

VISUAL DATA SHEET

UNIT: JAFNPP SYSTEM: 27 Containment Purge COMPONENT: Drywell Ring Header

DESCRIPTION: Inspection of Header Piping welds, Downcomer attachment welds

WELD ID: various PROCEDURE: UDEP 9.5.1 MATERIAL: C/S THICKNESS: varies TEST SURFACE: Painted first coat

NO. POSITIONS: 1 VT#: 1 [X] 2 [ ] 3 [ ] 4 [ ] 18% NEUTRAL GRAY CARD: YES [ ] NO [X]

GOVERNING CODE: B31.1 (1967) BOROSCOPE: YES [ ] NO [X]

ATTACHMENTS: YES [ ] NO [X] AUXILIARY LIGHTING: YES [X] NO [ ]

#1 REFERENCE: N/A SURFACE PREPARATION: YES [ ] NO [X]

INSULATED [ ] NON-INSULATED [X]

PREFORMED BY: Richard L. Patel ID#: B4182 LEVEL: II

PREFORMED BY: Chris Fick ID#: C0636 LEVEL: III

LIMITED EXAMINATION: [ ] NO [X] YES (IF SO WHY) Limited access to one side of OD Torus ring Header.

POSITION A	POSITION B	COMPONENT NUMBER	DIRECT VISUAL EXAMINATION	REMOTE VISUAL EXAMINATION	(INCHES) INDICATION DISTANCE FROM A	INDICATION DISTANCE FROM B	INDICATION DISTANCE FROM 1	INDICATION DISTANCE FROM 2	SURFACE	DIMENSIONING CW / IN: DISTANCE FROM SURFACE IN.	CW / IN: POSITION (IN.) 1 (A)	CW / IN: POSITION (IN.) 2 (B)	DIMENSIONING CCW / OUT: DISTANCE FROM SURFACE IN.	CCW / OUT: POSITION (IN.) 1 (A)	CCW / OUT: POSITION (IN.) 2 (B)	REMARKS
		Ring header ID	X													No Cracks
		in Bays B, C + H														
																No Cracks
		Ring header OD	X													
		in Bays B, C + H														No Cracks
		Nitrogen Recirc. -	X													
		then inside of														
		torus														
		Examination	Results		Satisfactory					No cracks	Found.					

REVIEWED BY: C. Fick LEVEL: III DATE REVIEWED: 3-8-84 FIGURE NO.: N/A

WRED NO.: 27/24580 DATA SHEET NO.:

SK-JAF-82-003