

NEW YORK POWER AUTHORITY

JAMES A. FITZPATRICK NUCLEAR POWER PLANT
DOCKET NO. 50-333

INSERVICE INSPECTION SUMMARY REPORT

FOR

SPRING 1992 REFUELING OUTAGE

SUMMER 1991 MAINTENANCE OUTAGE

SPRING 1991 MAINTENANCE OUTAGE

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- Access Hole Cover UT Examination

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INTRODUCTION

This Summary Report details the Inservice Inspection Programs conducted at the James A. FitzPatrick Nuclear Power Plant during the 1992 Refueling, Spring 1991 Maintenance and Summer 1991 Maintenance Outages. The Inservice Inspection Program requires performing examinations on Class 1, Class 2, Class 3 and Augmented components. The NDE inspections were performed by Ebasco Services, GE, ABB, and New York Power Authority personnel.

The ISI was performed in accordance with the plant Technical Specifications and the ASME Boiler and Pressure Vessel Code, Section XI, "Rules for Inservice Inspection Nuclear Power Plant Components", 1980 Edition up to and including Winter 1981 Addenda. In addition other documents were utilized in order to assist in development of the ISI Checklist. These documents are referenced specifically in the next section of this text. As an example, NUREG 0313, Rev.2 and Generic Letter 88-01 were utilized when performing IGSCC examinations (i.e., detection, sizing and examination of overlay repairs).

The NDE methods utilized were visual, magnetic particle, liquid penetrant and ultrasonic for volumetric examinations and thickness measurements. These examinations were conducted utilizing approved site specific procedures.

II

ISI EXAMINATION CHECKLIST

The ISI Checklist was developed in accordance with the Second 10-Year ISI Program Plan, plant Technical Specifications, ASME Code Sections V & XI, NUREG 0313, Rev. 2, Generic Letter 88-01, and Reg. Guide 1.150, Appendix A, as modified by the AD Hoc Committee (Reactor Pressure Vessel Examinations). The ISI Checklist encompassed all of the examination requirements of the above documents as well as delineating.

- Component/Weld Identification
- Code Category
- Item Number
- NUREG 0313 Category
- Isometric Drawing Number
- NDE Method Required
- NDE Procedure Number Required
- UT Calibration Block Required (if applicable)
- Examination completion date
- NDE Report Number
- Additional Remarks(if applicable)

The ISI Examination Checklist was used for both scheduling and tracking purposes. In this way, control was maintained over ISI activities. Additionally, the Remarks section specifies which examinations were performed by NYPA QC personnel. The component information on these inspections can be found in the Miscellaneous Examination Checklist.

III

EXAMINATION RESULTS

The results of examinations performed are included in the Summary of Examination Results. Examinations performed by NYPA QC personnel, preservice inspections (PSI) and examinations that were limited are referenced in the ISI Checklist (See Remarks section of the checklist).

INDICATIONS

Items that were examined and found to have recordable/rejectable indications were promptly called to the attention of the responsible engineer. By using the Summary of Examination Results, items with indications can easily be accessed by system number and item number. A variety of acronyms were used during the course of preparation of the examination reports and these are listed in the Summary of Examination Results.

LIMITED EXAMINATIONS

Components on which limited examinations were performed can be accessed through the Remarks section of the Checklist. Conditions that would result in a limited exam are component configuration, weld crown size (width), and various obstructions. When a limitation is identified that precludes 100% coverage, calculations are performed to determine the percentage actually examined. A listing of all partial exams and the percentage examined is part of the Limited Examination Summary Report.

IV CERTIFICATIONS/QUALIFICATIONS

PERSONNEL

All personnel performing NDE examinations were qualified and certified in accordance with their company's approved QA Manual and Certification Program. Additionally, personnel performing IGSCC-related examinations (i.e., detection, sizing and overlay repairs) were qualified through the EPRI qualification program for IGSCC.

EQUIPMENT

All certifications for NDE equipment employed in the performance of an ISI examination, were reviewed and approved prior to its use. Certifications for equipment are available for review upon request. Equipment covered under this statement is:

- Temperature Gauges
- Magnetic Particle Equipment (Yokes, Probes)
- Ultrasonic Instruments
- Ultrasonic Transducers
- Ultrasonic Calibration Standards

Beam spread plots for transducers used for Reactor Pressure Vessel examinations and for those employed in conjunction with Reg. Guide 1.150 Rev.1 (RF waveforms) are available for review.

MATERIALS

NDE materials utilized during ISI activities were approved for use prior to the start of the refuel outage. The material certifications covered by this statement are:

- Magnetic Particle Powder
- Liquid Penetrant Materials
- Ultrasonic Couplant

All certifications are available for review upon request.

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- Magnetic Particle Powder
- Liquid Penetrant Materials
- Ultrasonic Couplant

All certifications are available for review upon request.

PROCEDURES

Procedures utilized for performing nondestructive examinations of welds and components were prepared in accordance with ASME Section V and XI 1980 Edition up to and including Winter 1981 Addenda, Procedural qualification process for IGSCC exams at EPRI, Reg. Guide 1.150 Rev.1 and other applicable references (see individual procedures for specific references). These procedures were reviewed and approved for use prior to the performance of examinations.

NEW YORK POWER AUTHORITY

JAMES A. FITZPATRICK NUCLEAR POWER PLANT
DOCKET NO. 50-333

FORM NIS-1 OWNERS DATA REPORT
FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

7. Components Inspected (See ISI Examination Checklist) Volume 1

[illegible]

This form (E00029) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-1 (back)

8. Examination Dates 12/9/91 to 4/14/92 9. Inspection Interval from 7/85 to 7/95
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. ISI for 3rd Period, of Second 10 year Interval
11. Abstract of Conditions Noted See Summary
12. Abstract of Corrective Measures Recommended and Taken (See Summary)

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date 3/3/93 19 93 Signed [Signature] By RESIDENT MANAGER JMC-WP
Owner

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of NEW YORK and employed by HSB I & E Co. of WATERFORD, CT. have inspected the components described in this Owners' Data Report during the period 12/9/91 to 4/14/92, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3/3 19 93

Russell B. Miller
Inspector's Signature

Commissions NY Comm. # 2498
National Board, State, Province and No.

NEW YORK POWER AUTHORITY

JAMES A. FITZPATRICK NUCLEAR POWER PLANT
DOCKET NO. 50-333

INSERVICE EXAMINATION CHECKLIST

1992 REFUEL OUTAGE

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June 24, 1992

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NOTES • 3008 8/18/2011

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DATE: June 24, 1992

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DATE: June 24, 1992

WELD OR ITEM IDENTIFICATION	BIRM CAP.	ITEM NO.	WELD Q313	ISO DRAWING NUMBER	WELD METHOD				W.T.	NO. PROCESSES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					GT	PT	WT	HT						
W-28*	B-A	W-11	B/A	W-11	W	6"				GT-10	040	4-6-92	JAF-97-065	
					A	45°S						4-6-92	JAF-97-065A	
					C	45°S						4-6-92	JAF-97-065A	
					A	60°S						4-6-92	JAF-97-065B	
					C	60°S						4-6-92	JAF-97-065B	

NOTES: * 0000 002

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1997年12月

INSERVICE EXAMINATION CHECKLIST

DATE: June 24, 1992

Project: J.A. PITTSBURGH 1991 REFUEL OBTAIN		SYSTEM: RPV TOP HEAD CIRC. & HORIZONTAL												
WELD OR ITEM IDENTIFICATION	ITEM CAT.	ITEM NO.	WELD NO.	ISO DRAWING NUMBER	WELD METHOD				VT	VT PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					UT	RT	MT	PT						
VC TH-1-2*	B-A	B1.21	N/A	MSF-3016								2-10-92	JAF-UT-016A	
												2-10-92	JAF-UT-016A	
												2-10-92	JAF-UT-016B	
												2-10-92	JAF-UT-016B	
												4-15-92	JAF-UT-016C	FINAL DISPOSITION
												3-15-92	JAF-UT-016D	
												3-15-92	JAF-UT-016D	
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												3-15-92	JAF-UT-016D	

NOTES: * ANCH 99-115, AREA OF PLAN ONLY

** B7PA EXAMINATIONS

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DATE: June 24, 1992

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DATE: June 24, 1992

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[illegible]DATE: June 24, 1992[illegible]

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DATE: June 24, 1992Project:
J.M. FLEMING
IN THE BOYAL CHURCH[illegible]

WELD OR ITEM IDENTIFICATION	EXAM CAT.	ITEM NO.	NBSG Q373	ISO DRAWING NUMBER	NBS METHOD			NBS PROCESSES REQUIRED			CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					ET	PT	MT	VT	RT	UT				
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					A 45°S							3-28-92	JAN-97-054A	LIMITED EXAM
					C 45°S							3-28-92	JAN-97-054B	LIMITED EXAM
					A 60°S							3-28-92	JAN-97-054C	LIMITED EXAM
					C 60°S							3-28-92	JAN-97-054D	LIMITED EXAM
K-22-TL	B-D	B3.100	N/A	NBS 3036	26°S				UT-14		Q40	3-25-92	JAN-97-039	

NOTES

KASCO SERVICES INCORPORATED

INSERVICE EXAMINATION CHECKLIST

DATE June 24, 1992

Project: J.A. FITZPATRICK 1992 BRUEL OUTAGE		SYSTEM: RPV NOZZLE TO VESSEL (CORE SPRAY)										REMARKS			
WELD OR ITEM IDENTIFICATION	WELD CAT.	ITEM NO.	NBSRC #313	ISO DRAWING NUMBER	NBS METHOD			UT	UT 1 3 4	NBS PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED		DATE COMPLETED	DATA REPORT NUMBER	
					UT	PT	RT								
N-5-B	B-D	B3.10	N/A	NBS-1836	N					UT-10	040	4-10-92	JAT-UT-075		
					0"										
					A 45°S										
					C 45°S										
					A 60°S										
N-5-B-10	B-D	B3.100	N/A	NBS-1836	26°S					UT-14	040	4-10-92	JAT-UT-075		

NOTES:

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June 26, 1992

2004年第2期

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WELD OR ITEM IDENTIFICATION	SIAM CAT.	ITEM NO.	WURCS #113	ISO DRAWING NUMBER	WSE METHOD				WSE PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					QT	PT	RT	UT					
W-8A	B-0	83.100	N/A	MSX-1036	W				UT-18	940	4-6-92	2AP-UT-864	
					A 45°S						4-4-92	2AP-UT-864A	
					C 45°S						6-5-92	2AP-UT-864A	
					A 60°S						4-6-92	2AP-UT-864B	
					C 60°S						4-6-92	2AP-UT-864B	
W-8B-18	B-0	83.100	N/A	MSX-1036	60°S				UT-17	940	4-6-92	2AP-UT-863	

NOTES

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2000年12月25日

DATE: June 24, 1992

SYSTEM: RPV SKIRT WELD

[illegible]

张其成：《张其成讲读：孟子》，商务印书馆，2009年。

June 24, 1992

[illegible]

Project: J. A. FIREPATRICK 1992 REPEL OUTAGE		SYSTEM: RECIRCULATION SYSTEM											
WELD OR ITEM IDENTIFICATION	STAR CAT.	ITEM NO.	WRECC 0113	ISO DRAWING NUMBER	NBS METHOD				NBS PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					DT	PT	HT	HT					
B-10-SR ISCC DETECTION ONLY FROM SS SIDE	B-P	85.10	0	MSE 3001	A	45°S			DT-4	048	3-10-92	JAF DT-022	
L WAVE FROM SS SIDE					C	45°S			DT-4	048	3-10-92	JAF DT-022	
L WAVE FROM CS SIDE					A	45°L			DT-12	048	3-10-92	JAF DT-022A	
L WAVE FROM SS SIDE					C	45°L			DT-12	048	3-10-92	JAF DT-022B	
L WAVE FROM CS SIDE					C	45°L			DT-12	048	3-10-92	JAF DT-022A	
L WAVE FROM CS SIDE					A	45°L			DT-12	048	3-10-92	JAF DT-022B	
L WAVE FROM CS SIDE					C	60°L			DT-12	048	3-10-92	JAF DT-022C	
B-17-SR ISCC DETECTION ONLY FROM SS SIDE	B-P	85.10	0	MSE 3002	A	45°S			DT-4	048	3-11-92	JAF DT-025B	
L WAVE FROM CS SIDE					C	45°S			DT-4	048	3-11-92	JAF DT-025B	
L WAVE FROM SS SIDE					A	45°L			DT-12	048	3-11-92	JAF DT-025	
L WAVE FROM CS SIDE					A	45°L			DT-12	048	3-11-92	JAF DT-025C	
L WAVE FROM CS SIDE					C	45°L			DT-12	048	3-11-92	JAF DT-025	
L WAVE FROM SS SIDE					C	45°L			DT-12	048	3-11-92	JAF DT-025C	
L WAVE FROM CS SIDE					A	60°L			DT-12	048	3-11-92	JAF DT-025A	
L WAVE FROM CS SIDE					C	60°L			DT-12	048	3-11-92	JAF DT-025A	
									PT-1		3-9-92	JAF PT-006	

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KBASCO SERVICES INCORPORATED
INSERVICE EXAMINATION CHECKLIST

DATE: June 24, 1992

Project: J. H. FITSPATRICK
1992 REFUEL OUTAGE

SYSTEM: RECIRCULATION SYSTEM

WELD OR ITEM IDENTIFICATION	EXAM CAT.	ITEM NO.	NURSG #313	ISO DRAWING NUMBER	NDE METHOD						NDE PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					UT	PT	WT	1	3	4					
N-2C-SE IGSCC DETECTION ONLY FROM SS SIDE	B-F	05.10	D	NKE-3001	A 45°S						UT-4	040	3-10-92	JAF-UT-022	
					C 45°S						UT-4	040	3-10-92	JAF-UT-022	
L WAVE FROM SS SIDE					A 45°L						UT-12	040	3-10-92	JAF-UT-022A	
L WAVE FROM CS SIDE					A 45°L						UT-12	040	3-10-92	JAF-UT-022B	
L WAVE FROM SS SIDE					C 45°L						UT-12	040	3-10-92	JAF-UT-022A	
L WAVE FROM CS SIDE					C 45°L						UT-12	040	3-10-92	JAF-UT-022B	
L WAVE FROM CS SIDE					A 60°L						UT-12	040	3-10-92	JAF-UT-022C	
L WAVE FROM CS SIDE					C 60°L						UT-12	040	3-10-92	JAF-UT-022C	
						X					PT-1		3-9-92	JAF-PT-005	
N-2C-SE IGSCC DETECTION ONLY FROM SS SIDE	B-F	05.10	D	NKE-3002	A 45°S						UT-4	040	3-10-92	JAF-UT-023	
					C 45°S						UT-4	040	3-10-92	JAF-UT-023	
L WAVE FROM SS SIDE					A 45°L						UT-12	040	3-10-92	JAF-UT-023A	
L WAVE FROM CS SIDE					A 45°L						UT-12	040	3-10-92	JAF-UT-023B	
L WAVE FROM SS SIDE					C 45°L						UT-12	040	3-10-92	JAF-UT-023A	
L WAVE FROM CS SIDE					C 45°L						UT-12	040	3-10-92	JAF-UT-023B	
L WAVE FROM CS SIDE					A 60°L						UT-12	040	3-10-92	JAF-UT-023C	
L WAVE FROM CS SIDE					C 60°L						UT-12	040	3-10-92	JAF-UT-023C	
						X					PT-1		3-9-92	JAF-PT-006	

NOTES:

BRASCO SERVICES INCORPORATED
INSERVICE EXAMINATION CHECKLIST

DATE: June 24, 1992

Project: J.A. PIPERATRICK
1992 REFUEL OUTAGE

SYSTEM: RECIRCULATION SYSTEM (PIPING) IGSCC

WELD OR ITEM IDENTIFICATION	KIAM CAT.	ITEM NO.	NBSG 0313	ISO DRAWING NUMBER	NDE METHOD				VT				NDE PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					UT	PT	HT	1	3	4							
22-02-2-6	B-2	B9.11	C2	MSK-3001	A 45°S								UT-4	000	1-29-92	JAT-UT-000A	
					C 45°S								UT-4	000	1-29-92	JAT-UT-000A	
					A 60°S								UT-4	000	1-29-92	JAT-UT-000	
					C 60°S								UT-4	000	1-29-92	JAT-UT-000	
22-02-2-4-LSI	B-2	B9.12	A-1	MSK-3001		X							PT-1		3-10-92	JAT-PT-004	
12-02-2-7	B-2	B9.11	C2	MSK-3001	A 45°S								UT-4	006	1-29-92	JAT-UT-007A	
					C 45°S								UT-4	006	1-29-92	JAT-UT-007A	
86					A 60°S								UT-4	006	1-29-92	JAT-UT-007	
12-02-2-7*					A 45°S								ISIP-3	006	3-10-92	JAT-UT-007B	
					C 45°S								ISIP-3	006	3-10-92	JAT-UT-007B	
					A 60°S								ISIP-3	006	3-10-92	JAT-UT-007C	
12-02-2-7-LSI	B-2	B9.12	A-1	MSK-3001	A 45°S								UT-4	006	3-10-92	JAT-UT-020	
					C 45°S								UT-4	006	3-10-92	JAT-UT-020	

NOTES: * NYPA EXAMS

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June 24, 1992

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WELD OR ITEM IDENTIFICATION	ELEM CAT.	ITEM NO.	WORK QTY	ISO DRIVING NUMBER	ROE METHOD				VT	ROE PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					DT	PT	MT	ST						
12-02-2-12	B-J	02-11	8	NET 3001	A					DT-6	046	3-30-92	JAT-DT-045	OVERLAY
					C					DT-6	046	3-30-92	JAT-DT-045	
					A					DT-6	046	3-30-92	JAT-DT-045H	
					C					DT-6	046	3-30-92	JAT-DT-045H	

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张其成《王阳明与朱熹》 商务印书馆 2007 年

EDASCO SERVICES INCORPORATED

INSERVICE EXAMINATION CHECKLIST

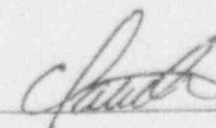
DATE: June 24, 1992

Project: J.A. FRYATRYCK
1992 REPEL OUTAGE

SYSTEM: RECIRCULATION SYSTEM (PIPING) IGSCC

WELD OR ITEM IDENTIFICATION	SEAM CAT.	ITEM NO.	NURNG #113	ISO DRAWING NUMBER	NDE METHOD				VT	NDE PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					UT	PT	HT	1	3	4				
12-02-2-10	B-2	09.31	C2	MSX-3001	A 45°S						UT-4	006	1-29-92	JAF-UT-006a
					C 45°S						UT-4	006	1-29-92	JAF-UT-006A
					A 60°S						UT-4	006	1-29-92	JAF-UT-006
						X					PT-1		3-10-92	JAF-PT-004
12-02-2-10-LS1	B-2	09.12	A-1	MSX-3001	A 45°S						UT-4	006	3-10-92	JAF-UT-028
					C 45°S						UT-4	006	3-10-92	JAF-UT-028
						X					PT-1		3-9-92	JAF-PT-005
12-02-2-17	B-2	09.11	C2	MSX-3001	A 45°S						UT-4	006	1-29-92	JAF-UT-004
					C 45°S						UT-4	006	1-29-92	JAF-UT-004
					A 60°S						UT-4	006	1-29-92	JAF-UT-004A
12-02-2-17 *					A 45°S						ISIP-3	006	3-10-92	JAF-UT-004B
					C 45°S						ISIP-3	006	3-10-92	JAF-UT-004B
					A 60°S						ISIP-3	006	3-11-92	JAF-UT-004C
12-02-2-17LS1	B-2	09.12	A-1	MSX-3001		X					PT-1		3-10-92	JAF-PT-004

NOTES: * NYPA EXAMS



DATE: June 24, 1992

INSERVICE EXAMINATION CHECKLIST

Project: J.A. FITZPATRICK 1992 REPURPOSE		SYSTEM: RECIRCULATION SYSTEM (PIPING) 165CC										REMARKS		
WELD OR ITEM IDENTIFICATION	SEAM CAT.	ITEM NO.	WUBC #313	ISO DRAWING NUMBER	WELD METHOD			UT		NO. PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED		DATE COMPLETED	DATA REPORT NUMBER
12-02-2-18	B-J	89-11	B	MSK-3801	OT	OT	OT	OT	OT	OT-6	045	3-30-92	JAF-OT-045	OVERLAY
					C					OT-6	045	3-30-92	JAF-OT-045	
					B					OT-6	045	3-30-92	JAF-OT-045A	
					C					OT-6	045	3-30-92	JAF-OT-045A	
12-02-2-19	B-J	89-11	B	MSK-3801	A	OT	OT	OT	OT	OT-6	045	3-30-92	JAF-OT-045	OVERLAY
					C					OT-6	045	3-30-92	JAF-OT-045	
					A					OT-6	045	3-30-92	JAF-OT-045A	
					C					OT-6	045	3-30-92	JAF-OT-045A	

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Project:		SYSTEM: RECIRCULATION SYSTEM (PIPING) 165CC															REMARKS
J.B. WINTERKING 1992 WATER OUTAGE		WELD OR ITEM IDENTIFICATION	WAM CNY.	ITEM NO.	MURK #113	ISO DRAWING NUMBER	WBE METHOD			UT			UT PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
							UT	UT MT	UT MT	UT MT	UT MT	UT MT	UT MT	UT MT	UT MT	UT MT	UT MT
12-02-2-23	B-2	B9.11	2	MSK-3001			A 60% C						UT-6	046	3-10-92	287-07-045	OVERLAT
													UT-6	046	3-10-92	287-07-045	
							A 70% C						UT-6	046	3-10-92	287-07-045A	
													UT-6	046	3-10-92	287-07-045B	
12-02-2-24	B-2	B9.11	C2	MSK-3001			A 45% C						UT-4	046	3-10-92	287-07-028	
													UT-4	046	3-10-92	287-07-028	
							A 45% C						UT-4	046	3-10-92	287-07-028	
12-02-2-24.151	B-2	B9.12	A-1	MSK-3001			A 45% C						UT-4	046	3-10-92	287-07-028	
													UT-4	046	3-10-92	287-07-028	
													PP-1		3-9-92	287-PP-005	
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June 24, 1992

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WELD OR ITEM IDENTIFICATION	STEEL CRY.	ITEM NO.	RESEC. QTY	ISO DRAWING NUMBER	WELD METHOD				VT	WCS PROCESSES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					QT	PT	MT	ST						
12-02-2-24-552	B-2	89-12	A-1	MSK 3001	A					QT-4	006	3-10-92	JAF-OT-018	
					C					QT-4	006	3-10-92	JAF-OT-018	
20-02-2-33	B-2	89-11	B	MSK 3001	A					PT-1		3-9-92	JAF-PT-003	
					C					QT-6	047	3-31-92	JAF-OT-048	OVERLAY
20-02-2-35-551	B-2	89-11	A-1	MSK 3001	A					QT-6	047	3-31-92	JAF-OT-048	
					C					151P-3	010	3-17-92	JAF-OT-033	
					C					151P-3	010	3-17-92	JAF-OT-033	
										PT-1		3-14-92	JAF-PT-005	

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June 26, 1992

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REGULATION SYSTEM (PIPING) ISSC

1992 REFUEL OUTAGE															
WELD OR ITEM IDENTIFICATION	BIAN CAT.	ITER NO.	MURCS #113	ISO GRADING NUMBER	NDE METHOD				NDE PROCESSES REQUIRED		CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS	
					UT	PT	MT	VT	4						
28-02-2-35	B-2	B9.11	C1	NRE-3001	A 45°E						101P-3	010	3-17-92	JAP-UT-013	
					C 45°S						101P-3	010	3-17-92	JAP-UT-013	
28-02-2-33	B-2	B9.11	B	NRE-3001	VB 0°						UT-9	07-3265	3-14-92	JAP-UT-027	
					LOB 0°						UT-4	047	3-31-92	JAP-UT-010A	OVERLAY
					A 50°E						UT-6	047	3-31-92	JAP-UT-040	
					C 60°E						UT-6	047	3-31-92	JAP-UT-040	
					A 70°E						UT-6	047	3-31-92	JAP-UT-040B	
					C 70°E						UT-6	047	3-31-92	JAP-UT-040B	

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Charles

REASCO SERVICES INCORPORATED

INSERVICE EXAMINATION CHECKLIST

DATE: June 26, 1992

Project: J.A. EISENTRICK
1992 REZUEL OUTAGE

SYSTEM: RECIRCULATION SYSTEM (PIPING) ISSEC

WELD OR ITEM IDENTIFICATION	ITEM NO.	NBSG 9113	ISO DRAWING NUMBER	NDE METHOD			VT	NDE PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
				UT	PT	MT						
28-92-2-55	B-2	89.11	MSK-1001	A 45°S			3	151P-3	004	3-16-92	JAF-07-026A	
				C 30°S				151P-3	004	3-16-92	JAF-07-026A	
22-92-2-5	B-2	89.31	MSK-1001	A 45°S				07-4	000	3-14-92	JAF-07-059	
				C 45°S				07-4	000	3-14-92	JAF-07-059	
				A 45°S				07-4	000	3-30-92	JAF-07-059B	EVALUATION
				C 45°S				07-4	000			NOT PERFORMED
				A 60°S				07-4	000	3-14-92	JAF-07-059A	
				C 60°S				07-4	000	3-14-92	JAF-07-059A	
				A 60°S				07-4	000	3-30-92	JAF-07-059C	EVALUATION
				C 60°S				07-4	000			NOT PERFORMED
				A 70°L				07-4	000	3-30-92	JAF-07-059D	EVALUATION
								07-1		3-11-92	JAF-07-003	

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June 26, 1992

Project: J.A. THOMPSON 1992 ESTABLISHMENT		SYSTEM: RECIRCULATION SYSTEM (PIPING) TSCC										
WELD OR ITEM IDENTIFICATION	ITEM NO.	WELDING CODE	ISO DRAWING NUMBER	WELD METHOD				WELD PROCEDURE REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
				WT	PT	WT	PT	WT				
22-02-2-11	22-11	A	WSE-3001	A 45°S				WT-4	000	3-16-92	287-07-030	
				C 45°S				WT-4	000	3-16-92	287-07-030	
				E 60°S				WT-4	000	3-16-92	287-07-030A	
				C 60°S				WT-4	000	3-16-92	287-07-030A	
								PT-1		3-16-92	287-07-004	
22-02-2-43	22-11	B	WSE-3002	A 60°L				WT-6	047	3-16-92	287-07-047	OVERLAY
				C 60°L				WT-6	047	3-16-92	287-07-047	
				A 60°L				WT-6	046	3-16-92	287-07-046	OVERLAY
22-02-2-64	22-11	B	WSE-3002	C 60°L				WT-6	046	3-16-92	287-07-046	
				A 70°L				WT-6	046	3-16-92	287-07-046A	
				C 70°L				WT-6	046	3-16-92	287-07-046A	

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June 24, 1997.

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WELD OR ITEM IDENTIFICATION	SIAM CAP.	ITEM NO.	NUSPEC 0113	ISO DRAWING NUMBER	NDE METHOD			VT	NDE PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	PENALTES
					UT	PT	MT						
12-02-2-45-161	B-7	29.12	A-1	MSK-1002	20°			4	UT-4	006	3-15-92	287-UT-031	
					A 45°S				UT-4	006	3-11-92	287-UT-031A	
					C 45°S				UT-4	006	3-11-92	287-UT-031A	
12-02-2-49	B-7	29.11	K	MSK-1002	A 60°L				UT-6	046	3-30-92	287-UT-046	OVERLAY
					C 60°L				UT-6	046	3-30-92	287-UT-046	
					A 70°L				UT-6	046	3-30-92	287-UT-046A	
					C 70°L				UT-6	046	3-30-92	287-UT-046A	

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ERASCO SERVICES INCORPORATED

INSERVICE EXAMINATION CHECKLIST

DATE: June 24, 1992

Project: J.B. PIPER/PRICE 1992 RTFSL OUTAGE		SYSTEM: RECIRCULATION SYSTEM (PIPING) ISSCC										REMARKS	
WELD OR ITEM IDENTIFICATION	TEAM CAP.	CYC NO.	WELC NO.	ISO DRAWING NUMBER	NDE METHOD			NDE PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER		
					UT	PT	MT						
28-02-2-91	B-J	89-11	C2	MSK-1002	A	45'S		UT-4	010	3-17-92	287-07-012		
					C	45'S		UT-4	010	3-17-92	287-07-012		
					A	52'S		UT-4	010	4-3-92	287-07-012A		
					C	52'S		UT-4	010	4-3-92	287-07-012A		
					A	60'S		UT-4	010	3-31-92	287-07-012B		
								PT-1		3-14-92	287-07-007		
28-02-2-91-LS1	B-J	89-12	A-1	MSK-1002	A	45'S		UT-4	010	3-18-92	287-07-015		
					C	45'S		UT-4	010	3-18-92	287-07-015		
								PT-1		3-14-92	287-07-007		
28-02-2-91-LS2	B-J	89-12	A-1	MSK-1002	A	45'S		UT-4	010	3-18-92	287-07-015		
					C	45'S		UT-4	010	3-18-92	287-07-015		
								PT-1		3-14-92	287-07-007		

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Project: J.A. PIPELINE 1992 REVEL OUTAGE				SYSTEM: RECIRCULATION SYSTEM (PIPING) IGCC											
WELD OR ITEM IDENTIFICATION	RIAM CAP.	ITEM NO.	BURC 0011	ISO DRAWING NUMBER	COR METHOD			VT	MOE PROCEDURE REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS		
					UT	PT	WT	1	3	4					
28-02-2-01-423	B-2	B9.12	A-1	MSK-3002	A 45°S						UT-4	610	3-17-92	28P-UT-032	
					C 45°S						UT-4	610	3-17-92	28P-UT-032	
28-02-2-02	B-2	B9.11	B	MSK-3002	A 50°S						PT-1	047	3-14-92	28P-PT-007	
					C 40°S						UT-5	047	4-1-92	28P-UT-053	OVERLAY
28-02-2-02-551	B-2	B9.12	A-1	MSK-3002	A 45°S						UT-4	010	3-18-92	28P-UT-035	
					C 45°S						UT-4	010	3-18-92	28P-UT-035	
											PT-1		3-14-92	28P-PT-007	

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Project:				SYSTEM:											
J.A. FARRARANCE 1992 REVEL OFFICE				RECIRCULATION SYSTEM (PIPING) IGSCC											
WELD OR ITEM IDENTIFICATION	SEAM CAT.	ITEM NO.	MURK 9313	ISO DRAWING NUMBER	XRD METHOD				VT	XRD PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS	
					DT	PT	WT	VT							
28-02-2-195-151	B-J	89.12	A-1	MSR-3802	A 45°S						151P-3	010	3-18-92	JAF-DT-015	
					C 45°S						151P-3	010	3-18-92	JAF-DT-015	
											PT-1		3-14-92	JAF-PY-001	
28-02-2-196	B-J	89.11	C2	MSR-3802	A 45°S						UT-4	010	3-17-92	JAF-DT-049	
					C 45°S						UT-4	010	3-17-92	JAF-DT-049	
											PT-1		3-11-92	JAF-PY-002	
28-02-2-196-151	B-J	89.12	A-1	MSR-3802	A 45°S						UT-4	010	3-17-92	JAF-DT-049	
					C 45°S						UT-4	010	3-17-92	JAF-DT-049	
											PT-1		3-11-92	JAF-PY-002	
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CIRCULATION SYSTEM (PIPING) 165C

WELD OR ITEM IDENTIFICATION	ELEM CAT.	ITEM NO.	BRGGS #211	ISO DRAWING NUMBER	MOS METHOD			PT	WT	MOS PROCEEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATE REPORT DUE	REMARKS
					DT	SRV	PT							
28-02-2-116-151	B-2	89-12	A-1	MSE-1002	BE	0°				DT-6	010	3-17-92	JAN-97-023	
					A	45°B				151P-3	010	3-17-92	JAN-97-024	
					C	45°B				151P-3	010		JAN-97-030A	
										PT-1		3-18-92	JAN-97-000	
28-02-2-116	B-2	89-11	B	MSE-1002	A	60°B				DT-6	047	3-31-92	JAN-97-047	OVERLAY
					C	60°B				DT-6	047	3-31-92	JAN-97-047	

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DATE: June 24, 1992

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WELD OR ITEM IDENTIFICATION	SEAM CAT.	ITER NO.	RURC Q311 NUMBER	ISO QUANTIFY NUMBER	RBS METHOD			VT	RBS PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					UT	SRF	PT						
28-02-2-116-151	B-2	09.11	A-1	RSE 3002	A	45°S			UT-4	010	3-16-92	287-07-050	
					C	45°S			UT-4	010	3-16-92	287-07-050	
28-02-2-116-152	B-2	09.12	A-1	RSE 3002	A	45°S			PT-1	010	3-16-92	287-27-007	
					C	45°S			UT-4	010	3-16-92	287-07-050	
									PT-1		3-16-92	287-27-007	

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RECIRCULATION SYSTEM (VALVE HOLDING IN PLACE)

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WELD OR ITEM IDENTIFICATION	SEAM CAT.	ITEM NO.	MISC. Q313	ISO DRAWING NUMBER	WEE METHOD				WEE PROCESSES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					PT	PT	WT	WT					
28-02-2-153	B-E-1	010.20	N/A	WEE-1001					PT-1		3-27-92	287-PT-012	
28-02-2-155	B-E-1	010.20	N/A	WEE-1001					PT-1		3-27-92	287-PT-011	
28-02-2-110C	B-E-1	010.10	N/A	WEE-1002					PT-1		3-14-92	287-PT-010	
28-02-2-110E	B-E-1	010.10	N/A	WEE-1002					PT-1		3-14-92	287-PT-010	LIMITED TIME

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中国工人阶级先锋队 中国共产党

ERASCO SERVICES INCORPORATED

INSERVICE EXAMINATION CHECKLIST

DATE: June 24, 1992

Project: J.A. AIRPRACTICE
1992 BRIDGE CORAGE

SYSTEM: JET PUMP INSTRUMENTATION (JPI) 10500

WELD OR ITEM IDENTIFICATION	BAR CAT.	ITEM NO.	BRIDGE NO.	ISO DRAWING NUMBER	TEST METHOD	VT	PROCEDURES REQUIRED	CALIBRATION SLICES REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
B-7	B-7	B-7	D	5.16-SA	PT	1	UT-4	061	4-2-92	JAF-UT-062	
					UT		UT-4	061	4-2-92	JAF-UT-062	
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					UT		UT-12	061	4-2-92	JAF-UT-062A	
					UT		UT-12	061	4-2-92	JAF-UT-062B	
					UT		UT-12	061	4-2-92	JAF-UT-062A	
					UT		UT-12	061	4-2-92	JAF-UT-062C	
					UT		UT-12	061	4-2-92	JAF-UT-062D	
					UT		UT-12	061	4-2-92	JAF-UT-062C	
					UT		UT-4	077	4-2-92	JAF-UT-060	
					UT		UT-4	077	4-2-92	JAF-UT-060	

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REASCO SERVICES INCORPORATED

INSERVICE EXAMINATION CHECKLIST

DATE: June 26, 1992

Project: J.A. TISDAWICK 1992 REBEL OUTAGE		SYSTEM: CONTROL ROD DRIVE SYSTEM IGCC										REMARKS	
ITEM NO.	ITEM DESCRIPTION	ITEM CAT.	ITEM NO.	ISO DRAWING NUMBER	NDE METHOD				VT	NDE PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER
					UT	PT	RF	VT					
8-9-21	IGCC DETECTION FROM SS SIDE	B-7	25-10	MSK-3036	A	45°S				UT-4	059	3-18-92	287-07-050C
1	WAVE FROM SS SIDE				C	45°S				UT-4	059	3-18-92	287-07-050C
1	WAVE FROM CS SIDE				A	45°L				UT-12	059	3-18-92	287-07-050
1	WAVE FROM CS SIDE				A	45°L				UT-12	059	3-18-92	287-07-050A
1	WAVE FROM SS SIDE				C	45°L				UT-12	059	3-18-92	287-07-050
1	WAVE FROM CS SIDE				C	45°L				UT-12	059	3-18-92	287-07-050A
1	WAVE FROM CS SIDE				A	60°L				UT-12	059	3-18-92	287-07-050B
1	WAVE FROM CS SIDE				C	50°L				UT-12	059	3-18-92	287-07-050B

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June 24, 1992

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SEASCO SERVICES INCORPORATED

IN-SERVICE EXAMINATION CHECKLIST

DATE: June 26, 1992

Project: J.A. VITIPATRICE
1992 RETAIL OUTAGE

SYSTEM: REGIONAL SEAT REMOVAL SYSTEM IGSCC

WELD OR ITEM IDENTIFICATION	SEAM CAT.	ITEM NO.	WELDING PROC.	WELD METHOD			NO. PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
				UT	SP	SP					
24-10-162 L WAVE FROM CS SIDE L WAVE FROM SS SIDE	B-F	85-130	D	A 40°/1°			07-12	080	4-4-92	287-07-066	
				A 40°/1°			07-12	080	4-4-92	287-07-066A	
				C 40°/1°			07-12	080	4-4-92	287-07-066B	
24-10-163 L WAVE FROM CS SIDE L WAVE FROM SS SIDE	B-F	85-130	D	A 40°/1°			07-12	079	4-4-92	287-07-067	
				A 40°/1°			07-12	079	4-4-92	287-07-067A	
				C 40°/1°			07-12	079	4-4-92	287-07-067B	
24-10-164 L WAVE FROM CS SIDE L WAVE FROM SS SIDE	B-F	85-130	D	A 40°/1°			07-12	078	4-4-92	287-07-068	
				A 40°/1°			07-12	078	4-4-92	287-07-068A	
				C 40°/1°			07-12	078	4-4-92	287-07-068B	

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**TRANSDUCER 280953
**TRANSDUCER 280955

***TRANSDUCER 280954

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DATE: June 24, 1992

Project: J.A. FIREBRICK 1992 REVEL COAGE					REGIONAL HEAVY REMOVAL SYSTEM									
WELL OR TRENCH IDENTIFICATION	SEAR CPT.	TREN NO.	SUBS #113	ISO DRILLING NUMBER	MSE METHOD			PP	MSE PROCEDURES REQUIRED	CALIBRATION BLOKS REQUIRED	DATE COMPLETED	D-7A REPORT NUMBER	REMARKS	
					ST	PT	MT							
24-10-145	B-7	85-11	N/A	MSE-3813	A 45'S					UT-1	024	4-7-92	287-UT-070	
					C 85'S					UT-1	024	4-7-92	287-UT-070	
					A 50'S					UT-1	024	4-8-92	287-UT-070A	
					BK 0"					UT-1	024	4-7-92	287-UT-069	
24-10-146	B-7	85-11	N/A	MSE-3813	A 45'S			X		MT-1		4-7-92	287-MT-052	
					C 45'S					UT-1	024	4-7-92	287-UT-071	
					BK 0"					UT-1	024	4-7-92	287-UT-071A	
										UT-1	024	4-7-92	287-UT-069	
								X		MT-1		4-7-92	287-MT-052	

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June 24, 1992

Project: J.A. FIVEPATRICK 1992 REFUEL OUTAGE		SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM													
WELD OR ITEM IDENTIFICATION	ITEM CAT.	ITEM NO.	WORG #013	ISO DRAWING NUMBER	REF METHOD			VT	PT	RT	NO PROCEDURES REQUIRED	CALIBRATION SLICES REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
24-18-140B	B-2	09-11	N/A	MSE-1013	A 45°S						UT-1	024	4-7-92	JAF-WT-071	
					C 45°S						UT-1	024	4-7-92	JAF-WT-071A	
					BR 0°						UT-1	024	4-7-92	JAF-WT-069	
									X		WT-1		4-7-92	JAF-WT-052	
24-18-140A	BE-1	010-10	N/A	MSE-1013					X		WT-1		4-13-92	JAF-WT-055	
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NEASCO SERVICES INCORPORATED

INDIVIDUAL EXAMINATION CHECKLIST

DATE: June 26, 1992

Project: J.A. PETERSON 1992 RAYOL OFFICE		SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM									
WELD OR ITEM IDENTIFICATION	ITEM NO.	ITEM NO.	ITEM NO.	ITEM NO.	ITEM NO.	ITEM NO.	ITEM NO.	ITEM NO.	ITEM NO.	ITEM NO.	ITEM NO.
20-10-344	C-7	C5.11	N/A	NSE-3010	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER
20-10-345	C-7	C5.11	N/A	NSE-3010	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER
8-10-511	C-7	C5.11	N/A	NSE-3013	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER
8-10-512	C-7	C5.11	N/A	NSE-3015	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER
8-10-513	C-7	C5.11	N/A	NSE-3015	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER
8-10-514	C-7	C5.11	N/A	NSE-3015	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER
8-10-515	C-7	C5.11	N/A	NSE-3015	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER
8-10-507	C-7	C5.11	N/A	NSE-3015	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER
8-10-508	C-7	C5.11	N/A	NSE-3015	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER
8-10-1078	C-6	C2.10	N/A	NSE-3017	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER
8-10-1079	C-6	C2.10	N/A	NSE-3017	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER
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16-10-1026	C-6	C2.10	N/A	NSE-3016	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER
16-10-465*	C-7	C5.11	N/A	NSE-3014	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER
16-10-466*	C-7	C5.11	N/A	NSE-3014	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER
16-10-467*	C-7	C5.11	N/A	NSE-3014	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER	ISO DRAWING NUMBER

NOTES:
* NC-256
** NC-227

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REVIEWED BY:

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DATE: June 24, 1992

SYSTEM: RESTORAL DENT REMOVAL SYSTEM

NOTES:

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张其成：《张其成讲读：孟子》，北京：中华书局，2007年。

Carol

DATE: June 24, 1992

SYSTEM: RESIDUAL HEAT REMOVAL

漢口平糶局

WASCO SERVICES INCORPORATED

INSERVICE EXAMINATION CHECKLIST

DATE: June 24, 1992

DATE:

Project: J.A. FIVEPENCE 1992 REPEL COFFEE		SYSTEM: RESIDUAL BEAT REMOVAL SYSTEM									
WELD OR ITEM IDENTIFICATION	ITEM NO.	ITEM CAT.	ITEM NO.	ITEM CAT.	ITEM NO.	ITEM CAT.	ITEM NO.	ITEM CAT.	ITEM NO.	ITEM CAT.	ITEM NO.
PPSE-2115	EL3	P-A	MSK-137A1	MSK-137A1	MSK-137A1	MSK-137A1	MSK-137A1	MSK-137A1	MSK-137A1	MSK-137A1	MSK-137A1
PPSE-2117	EL3	P-C	MSK-137B1	MSK-137B1	MSK-137B1	MSK-137B1	MSK-137B1	MSK-137B1	MSK-137B1	MSK-137B1	MSK-137B1
10-39-AB-165	EL2	P-C	MSK-3009	MSK-3009	MSK-3009	MSK-3009	MSK-3009	MSK-3009	MSK-3009	MSK-3009	MSK-3009
10-39-AC-169	EL2	P-C	MSK-3009	MSK-3009	MSK-3009	MSK-3009	MSK-3009	MSK-3009	MSK-3009	MSK-3009	MSK-3009
10-39-AB-171	EL2	P-C	MSK-3009	MSK-3009	MSK-3009	MSK-3009	MSK-3009	MSK-3009	MSK-3009	MSK-3009	MSK-3009
PPSE-2240	EL3	P-C	MSK-137B1	MSK-137B1	MSK-137B1	MSK-137B1	MSK-137B1	MSK-137B1	MSK-137B1	MSK-137B1	MSK-137B1
10-39-AB-206A	EL2	P-C	MSK-3015	MSK-3015	MSK-3015	MSK-3015	MSK-3015	MSK-3015	MSK-3015	MSK-3015	MSK-3015

NOTES:

Scott

EBASCO SERVICES INCORPORATED
INSERVICE EXAMINATION CHECKLIST

DATE: June 24, 1992

Project: J.A. WITSPATRICK
1992 RETUEL OUTAGE

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM (BOLTING & 10MOV-17 MODIFICATION)

WELD OR ITEM IDENTIFICATION	SEAM CAT.	ITEM NO.	NURC #313	ISO DRAWING NUMBER	NDE METHOD				VT				NDE PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					UT	PT	MT	1	3	4							
10-AOV-48B	R7	B-G-2	BT.70	N/A	NSK-3013				X				VT-1				PERFORMED BY QC 4-4-92
10-XRR-81B	R7	B-G-2	BT.70	N/A	NSK-3013				X				VT-1		4-4-92	JAT-VT-161	
WELDS ASSOC. W/10MOV-17																	
PWA					PH 0°												
					A 45°S								UT-1	021	4-10-92	JAT-UT-074B	
					C 45°S								UT-1	021	4-10-92	JAT-UT-074A	
																	PERFORMED BY QC PER MOD #71-87-017
PVB					PH 0°								UT-1	COMPONENT	4-10-92	JAT-UT-077	
					A 45°S								UT-1	022	4-10-92	JAT-UT-077A	LIMITED EXAM
					A & C 45°S								UT-1	022	4-10-92	JAT-UT-077B	
																	PERFORMED BY QC PER MOD #71-87-017
PWC					PH 0°								UT-1	COMPONENT	4-10-92	JAT-UT-077	
					A 45°S								UT-1	022	4-10-92	JAT-UT-077B	
					C 45°S								UT-1	022	4-10-92	JAT-UT-077B	
																	PERFORMED BY QC PER MOD #71-87-017

NOTES:

DATE: June 26, 1992

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SYSTEM: REACTOR CORE ISOLATION COOLING SYSTEM													
WELD OR ITEM IDENTIFICATION	ITEM CAT.	ITEM NO.	NURC 0013	ISO DRAWING NUMBER	FOR METHOD			VT	PROCEDURES REQUIRED	COLLIMATION SLICES REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					UT	RT	MT						
4-13-451	B-2	B9.11	N/A	MSK-3819	A	45°S			UT-1	012	1-15-92	JAF-UT-002	
					C	45°S			UT-1	012	1-16-92	JAF-UT-002A	
									MT-1		1-14-92	JAF-MT-004	
4-13-452	B-2	B9.11	N/A	MSK-3819	A	45°S			UT-1	012	1-16-92	JAF-UT-002	
					C	45°S			UT-1	012	1-16-92	JAF-UT-002A	
									MT-1		1-14-92	JAF-MT-004	
4-13-454	C-7	C5.21	N/A	MSK-3820					MT-1		1-15-92	JAF-MT-013	
4-13-458	B-2	B9.11	N/A	MSK-3819	A	45°S			UT-1	012	2-20-92	JAF-UT-0205	
					C	45°S			UT-1	012	2-20-92	JAF-UT-020	
									MT-1		2-2-92	JAF-MT-012	
4-13-445	B-2	B9.11	N/A	MSK-3819	A	45°S			UT-1	012	2-20-92	JAF-UT-020A	
					C	45°S			UT-1	012	2-20-92	JAF-UT-020	
									MT-1		2-12-92	JAF-MT-014	JAF-120-064
									MT-1		2-15-92	JAF-MT-014A	POST REPAIR
									UT-1	012	2-15-92	JAF-UT-011	POST REPAIR #NICKINGS

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INSERVICE EXAMINATION CHECKLISTS

DATE _____

SYSTEM: REACTOR CORE ISOLATION COOLING SYSTEM

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DATE: June 24, 1992

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1997年12月

June 24, 1992

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SYSTEM: CORE SPRAY SYSTEM TSCC												
WELD OR ITEM IDENTIFICATION	ITEM NO.	NOMENCLATURE	TSD DRAWING NUMBER	WELD METHOD			VT	SIZE PROCESSED REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
				UT	PT	RTP						
A-13 OF NOMENCLATURE				A 45°S				UT-1	103	3-13-92	JAF UT-02A	CLADDING BEAM PRIOR TO WELDING
				C 45°S				UT-1	103	3-13-92	JAF UT-02AB	"
				A 60°S				UT-1	103	3-13-92	JAF UT-02AC	"
				C 60°S				UT-1	103	3-13-92	JAF UT-02AD	"
				A 45°L				UT-1	103	3-13-92	JAF UT-02AE	"
				C 45°L				UT-1	103	3-13-92	JAF UT-02AF	"
				A 60°L				UT-1	103	3-13-92	JAF UT-02AG	"
				C 60°L				UT-1	103	3-13-92	JAF UT-02AH	"
								PT-1				PERFORMED AT QC PER MOD # 71-87-017

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1997年12月

DATE: 6/24/92

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Chas. L. Smith

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SYSTEM: CORE SPRAY SYSTEM									
PROJECT: J.A. VIRAPATICE 1992 OFFSHORE OUTRAGE	ITEM NO.	ITEM CAT.	DATE	TESTING METHOD	TEST METHOD				REMARKS
					BT	PT	ST	UT	
WELD JOINT IDENTIFICATION	8-2	8-2	8-2-2023	8-2-2023	BT	PT	ST	UT	DATA REPORT NUMBER
	8-2	8-2	8-2-2023	8-2-2023	BT	PT	ST	UT	DATA REPORT NUMBER
	8-2	8-2	8-2-2023	8-2-2023	BT	PT	ST	UT	DATA REPORT NUMBER
	8-2	8-2	8-2-2023	8-2-2023	BT	PT	ST	UT	DATA REPORT NUMBER
PSS EXAMINATION	8-2	8-2	8-2-2023	8-2-2023	BT	PT	ST	UT	DATA REPORT NUMBER
	8-2	8-2	8-2-2023	8-2-2023	BT	PT	ST	UT	DATA REPORT NUMBER
	8-2	8-2	8-2-2023	8-2-2023	BT	PT	ST	UT	DATA REPORT NUMBER
	8-2	8-2	8-2-2023	8-2-2023	BT	PT	ST	UT	DATA REPORT NUMBER
PSS EXAMINATION	8-2	8-2	8-2-2023	8-2-2023	BT	PT	ST	UT	DATA REPORT NUMBER
	8-2	8-2	8-2-2023	8-2-2023	BT	PT	ST	UT	DATA REPORT NUMBER
	8-2	8-2	8-2-2023	8-2-2023	BT	PT	ST	UT	DATA REPORT NUMBER
	8-2	8-2	8-2-2023	8-2-2023	BT	PT	ST	UT	DATA REPORT NUMBER

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Chas. D. Smith

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June 24, 1992

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1992 REFUEL OUTAGE														
WELD OR ITEM IDENTIFICATION	SEAM CAT.	ITEM NO.	MORC Q113	ISO DRAWING NUMBER	NDE METHOD			NDE PROCEDURES REQUIRED			CALIBRATION BLOCKS PROVIDED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					UT	PT	MT	VT	HT	RT				
14-1A-490	B-2	29.11	N/A	MSK-3022	A					VT-1	017	3-30-92	287-UT-055	
					C					VT-1	017	3-30-92	287-UT-055	
										MT-1		3-30-92	287-MT-049	
14-1A-700	C-C	01.20	N/A	MSK-3021						MT-1		3-15-92	287-MT-066	
14-1A-703	C-G	01.1	N/A	MSK-3021						MT-1		3-15-92	287-MT-066	
14-1A-704	C-G	01.1	N/A	MSK-3021						MT-1		3-15-92	287-MT-066	
14-4A-82-12	F-A	01.2	N/A	MSK-3022						VT-3		3-14-92	287-VT-009	WRONG REV.
14-1A-82-1	F-B	01.2	N/A	MSK-3021						VT-3		3-14-92	287-VT-002	WRONG REV.
14-4B-82-30A	F-A	01.2	N/A	MSK-3023						VT-3		2-12-92	287-VT-129	WRONG REV.

2000年12月

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DATE: June 24, 1992

SYSTEM: REACTOR BUILDING CLOSED LOOP COOLING SYSTEM

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NOTES

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张其成丁绍仪著 商务印书馆

DATE: June 26, 1992

SYSTEM: FUEL POOL COOLING SYSTEM

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NOTES

DAYS: June 26, 1992

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2000年12月

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SYNOPSIS

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DATE: June 24, 1992

SYSTEM: MAIN STEAM SYSTEM

NOTES:

INSERVICE EXAMINATION CHECKLIST

DATE: June 26, 1992

Project: J.A. FITZPATRICK
1992 RETUEL OUTAGE

SYSTEM: HIGH PRESSURE COOLANT INJECTION SYSTEM

WELD OR ITEM IDENTIFICATION	ITEM NO.	WELD NO.	ISO DRAWING NUMBER	UT	RT	MT	VT	PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
18-23-431	86	3-2	MSK-3026	A	45°S			UT-1	019	1-27-92	JAF-UT-001	
				C	45°S			UT-1	019	1-27-92	JAF-UT-001A	
						X		MT-1		1-15-92	JAF-MT-001	JAF 188-014
						X		MT-1		1-27-92	JAF-MT-001A	POST REPAIR
				TR	0°			UT-9	AR002	1-23-92	JAF-UT-001C	POST REPAIR THICKNESS
18-23-432	86	2-2	MSK-3026	A	45°S			UT-1	019	1-27-92	JAF-UT-001	
				C	45°S			UT-1	019	1-27-92	JAF-UT-001A	
						X		MT-1		1-17-92	JAF-MT-001	JAF 188-011
						X		MT-3		1-23-92	JAF-MT-001A	POST REPAIR
				TR	0°			UT-9	AR002	1-23-92	JAF-UT-001B	POST REPAIR THICKNESS
18-23-609	86	C-7	MSK-3034	BM	0°			UT-1	017	1-23-92	JAF-UT-001	
				A	45°S			UT-1	017	1-23-92	JAF-UT-001B	
				C	45°S			UT-1	017	1-23-92	JAF-UT-001A	
						X		MT-1		1-23-92	JAF-MT-011	

NOTES:

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[Signature]

EDASCO SERVICES INCORPORATED
INSERVICE EXAMINATION CHECKLIST

DATE: June 24, 1992

Project: J.A. TYPSPATRICK
1952 REFUEL OUTAGE

SYSTEM: HIGH PRESSURE COOLANT INJECTION SYSTEM

WELD OR ITEM IDENTIFICATION	SIAM CAT.	ITEM NO.	WUREG #313	ISO DRAWING NUMBER	NDE METHOD SURF				VT				NDE PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					UT	PT	MT		1	3	4						
14-23-491	B6	C-F	C5.21	N/A	NSK-3024	BN 0"							UT-1	017	1-23-92	JAF-UT-009	
						A 45°S							UT-1	017	1-23-92	JAF-UT-009B	
						C 45°S							UT-1	017	1-23-92	JAF-UT-009A	
								X					MT-1		1-23-92	JAF-MT-021	
14-23-466	B6	C-G	C2.1	N/A	NSK-3025	BN 0"							UT-1	198894	1-28-92	JAF-UT-005A	
						A 45°S							UT-1	009	1-28-92	JAF-UT-005	
						C 45°S							UT-1	009	1-28-92	JAF-UT-005B	
								X					MT-1		1-27-92	JAF-MT-022	
14-23-467	B6	C-G	C2.1	N/A	NSK-3025	BN 0"							UT-1	198894	1-27-92	JAF-UT-005A	
						A 45°S							UT-1	009	1-27-92	JAF-UT-005C	
						C 45°S							UT-1	009	1-27-92	JAF-UT-005B	
								X					MT-1		1-28-92	JAF-MT-023	
14-23-458A		C-C	C3.20	N/A	NSK-3025			X					MT-1		2-11-92	JAF-MT-035	
14-23-435*	B3	B-J	B9.11	N/A	NSK-1026	A 45°S							UT-1	009	2-12-92	JAF-UT-019	
						C 45°S							UT-1		" 12-92	JAF-UT-018	
								X					MT-1		2-12-92	JAF-MT-036	

NOTES: *TORUS ROOM B3

BRASCO SERVICES INCORPORATED
INSERVICE EXAMINATION CHECKLIST

DATE: June 24, 1992

Project: J. A. FITZPATRICK 1992 REPOEL OUTAGE					SYSTEM: HIGH PRESSURE COOLANT INJECTION SYSTEM										
WELD OR ITEM IDENTIFICATION	EXAM CAT.	ITEM NO.	NURRG #313	ISO DRAWING NUMBER	NDE METHOD			VT			NDE PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					UT	PT	MT	1	3	4					
23-3-NS-37	P-A	CL2	N/A	NSK-3025							VT-3		1-16-92	JAF-VT-090	JAF-IRR-025
23-3-NS-32	P-B	CL2	N/A	NSK-3025							VT-3		1-7-92	JAF-VT-060	
23-3-NS-34	P-B	CL2	N/A	NSK-3025							VT-3		1-7-92	JAF-VT-061	
23-3-NS-35	P-B	CL2	N/A	NSK-3025							VT-3		1-7-92	JAF-VT-059	
23-3-NS-38	P-B	CL2	N/A	NSK-3025							VT-3		1-16-92	JAF-VT-100	
23-3-NC-19	P-B	CL2	N/A	NSK-3025							VT-3		1-9-92	JAF-VT-062	
23-3-NS-41	P-B	CL2	N/A	NSK-3025							VT-3		1-9-92	JAF-VT-063	
23-19-AS-9	P-C	CL2	N/A	NSK-3024							VT-3		1-10-92	JAF-VT-070	JAF-IRR-022
23-19-AR-11	P-C	CL2	N/A	NSK-3024							VT-3 VT-3		1-10-92 2-6-92	JAF-VT-071 JAF-VT-071A	JAF-IRR-023 POST REPAIR
23-19-AR-12	P-C	CL2	N/A	NSK-3024							VT-3		1-10-92	JAF-VT-061	
23-3-AR-34	P-B	CL2	N/A	NSK-3025							VT-3		1-7-92	JAF-VT-050	
23-4-AR-27	R4	P-B	N/A	NSK-3026							VT-3 VT-3		2-17-92 2-25-92	JAF-VT-124 JAF-VT-124A	JAF-IRR-062 POST REPAIR
23-4-AR-28	R4	P-B	N/A	NSK-3026							VT-3		1-12-92	JAF-VT-131	
23-19-NS-20A	R4	P-A	N/A	NSK-3024							VT-3		2-12-92	JAF-VT-120	
23-3-NS-43B	R4	P-A	N/A	NSK-3025							VT-3		2-12-92	JAF-VT-127	

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BRASCO VENTURES INCORPORATED

INSERVICE EXAMINATION CHECKLIST

June 26, 1992

DATE

Project: J.A. PITIPATRICE
1592 REPEL OUTAGE

SYSTEM: HIGH PRESSURE COOLANT INJECTION SYSTEM

WELD OR ITEM IDENTIFICATION	ITEM CAT.	ITEM NO.	WELPS Q113	ISO DRAFTING NUMBER	WEL METHOD	UT	PT	MT	VT	4	WEL PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
14-23-460	R6	C-6	C2.1	N/A	WSE-3025	DN B*					UT-1	092	2-13-92	JAF-UT-014	
						A 45°S					UT-1	089	1-29-92	JAF-UT-011A	
						C 45°S					UT-1	089	1-29-92	JAF-UT-011	
											MT-1		1-29-92	JAF-MT-025	JAF-180-014
14-23-460	R6	C-6	C2.1	N/A	WSE-3025	DN B*					UT-1	092	2-13-92	JAF-UT-015	
						A 45°S					UT-1	089	2-10-92	JAF-UT-013	
						C 45°S					UT-1	089	2-10-92	JAF-UT-012	
											MT-1		2-6-92	JAF-MT-037	
14-23-461	R6	C-6	C2.1	N/A	WSE-3025	DN B*					UT-1	092	2-13-92	JAF-UT-015	LIMITED TIME
						A 45°S					UT-1	089	2-10-92	JAF-UT-013	
						C 45°S					UT-1	089	2-6-92	JAF-UT-012	
											MT-1		2-6-92	JAF-MT-038	LIMITED TIME
14-23-460A	R1	C-6	C2.20	N/A	WSE-3025						MT-1		2-6-92	JAF-MT-038	

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WELD OR ITEM IDENTIFICATION	SEAM CAT.	TYPE NO.	ASME SPEC. NO.	ISO DRAWING NUMBER	SEE METHOD PT UT RT	VT	MT PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
12-34-372	B-2	89-11	N/A	MSR-3013	UT A 45°S		UT-1	018	3-25-92	287-UT-041	
					C 45°S		UT-1	018	3-25-92	287-UT-041	
							MT-1		3-17-92	287-MT-041	
12-34-373	B-2	89-11	N/A	MSR-3013	UT A 45°S		UT-1	018	3-25-92	287-UT-041	
					C 45°S		UT-1	018	3-25-92	287-UT-041	
							MT-1		3-17-92	287-MT-041	
18-34-374	B-2	89-11	N/A	MSR-3013	UT A 45°S		UT-1	020	3-27-92	287-UT-044	
					C 45°S		UT-1	020	3-27-92	287-UT-044	
							MT-1		3-17-92	287-MT-040	

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DATE: June 24, 1992

Project: J.A. VITKATNICK 1992 BEVEL OUTAGE				SYSTEM: FRESHWATER SYSTEM												
WELD OR ITEM IDENTIFICATION	ITEM CAT.	ITEM NO.	WORK ORDER NO.	ISO DRAWING NUMBER	NDE METHOD				VT	NDE PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS		
18-3A-382	B-J	89-11	N/A	MSX-3031	UT	PT	MT	SURF	1	3	4	UT-1	Ø10	3-27-92	JAF-87-044	
					C							PT-1	Ø10	3-27-92	JAF-87-044B	
												MT-1		3-17-92	JAF-87-040	
12-3A-403	B-J	89-11	N/A	MSX-3034	A							UT-1	Ø10	3-26-92	JAF-87-043	
					C							PT-1	Ø10	3-26-92	JAF-87-043	
												MT-1		3-17-92	JAF-87-042	
12-3A-404	B-J	89-11	N/A	MSX-3034	A							UT-1	Ø10	3-26-92	JAF-87-043	
					C							PT-1	Ø10	3-26-92	JAF-87-043	
												MT-1		3-17-92	JAF-87-042	
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EDASCO SERVICES INCORPORATED

INSERVICE EXAMINATION CHECKLIST

DATE: June 24, 1992

Project: J.A. PITSPATRICK
1992 REFUEL OUTAGE

SYSTEM: REACTOR BUILDING VENTILATION SYSTEM

WELD OR ITEM IDENTIFICATION	EXAM CAT.	ITEM NO.	NORRG Q113	ISO DRAWING NUMBER	NDE METHOD			VT			NDE PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					UT	PT	MT	1	3	4					
BPSE-447C	F-A	CL3	N/A	MSK-1363					X		VT-3		1-15-92	JAF-VT-093	
BPSE-819	F-A	CL3	N/A	MSK-1361					X		VT-3		12-19-91	JAF-VT-052	
BPSE-826	F-A	CL3	N/A	MSK-1361					X		VT-3		12-19-91	JAF-VT-051	
BPSE-852	F-A	CL3	N/A	MSK-1363					X		VT-3		1-15-92	JAF-VT-094	
BPSE-942	F-A	CL3	N/A	MSK-1361					X		VT-3		12-19-91	JAF-VT-050	
BPSE-872	F-A	CL3	N/A	MSK-1361					X		VT-3		12-19-91	JAF-VT-049	
BPSE-875	F-A	CL3	N/A	MSK-1361					X		VT-3		12-19-91	JAF-VT-048	
BPSE-922	F-A	CL3	N/A	MSK-1363					X		VT-3		1-15-92	JAF-VT-095	
BPSE-955	F-A	CL3	N/A	MSK-1361					X		VT-3		12-19-91	JAF-VT-047	
BPSE-1002	F-A	CL3	N/A	MSK-1361					X		VT-3		12-19-91	JAF-VT-042	JAF-IRR-013
BPSE-1013	F-B	CL3	N/A	MSK-1361					X		VT-3		2-12-92	JAF-VT-133	JAF-IRR-009
BPSE-1014	F-B	CL3	N/A	MSK-1361					X		VT-3		3-2-92	JAF-VT-038	JAF-IRR-073
BPSE-1057	N4	F-A	CL3	MSK-1361					X		VT-3		2-10-92	JAF-VT-119	
BPSE-1032	N4	F-B	CL3	MSK-1361					X		VT-3		12-19-91	JAF-VT-037	JAF-IRR-005

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DATE: June 24, 1992

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June 24, 1992

PROJECT:		SYSTEM:										EMERGENCY SERVICE WATER SYSTEM				
J.A. FIDIPATRICE 1952 RIFLE OUTAGE																
WELD OR OTHER IDENTIFICATION	PIPE CAT.	ITER NO.	MOSEC #013	ISO DRAWING NUMBER	MSE METHOD				MSE PROCEDURES REQUIRED		CALIBRATION NOTES REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS		
					WT	PT	WT	PT	WT	PT						
PPSE-2144	P-B	CL3	N/A	MSE-166E1					X		VT-3		12-9-91	207-VT-007		
846-124	P-B	CL3	N/A	MSE-166E1					X		VT-3		12-9-91	207-VT-006		
PPSE-2302	P-B	CL3	N/A	MSE-166E1					X		VT-3		12-9-91	207-VT-005		
PPSE-2004	P-B	CL3	N/A	MSE-137E1					X		VT-3		1-28-92	207-VT-113		
PPSE-2014	P-B	CL3	N/A	MSE-137E1					X		VT-3		1-28-92	207-VT-109		
PPSE-1992	P-A	CL3	N/A	MSE-137E1					X		VT-3		1-28-92	207-VT-112		
PPSE-1123	P-B	CL3	N/A	MSE-137E1					X		VT-3		1-28-92	207-VT-115		
PPSE-1124	P-B	CL3	N/A	MSE-137E1					X		VT-3		1-28-92	207-VT-114		

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KRASCO SERVICES INCORPORATED
INSERVICE EXAMINATION CHECKLIST

DATE: June 24, 1992

PROJECT: J.A. FITSPATRICK
1992 REFUEL OUTAGE

SYSTEM: EMERGENCY SERVICE WATER SYSTEM

WELD OR ITEM IDENTIFICATION	EXAM CAT.	ITEM NO.	WRECC #313	ISO DRAWING NUMBER	WDE METHOD			VT			WDE PROCEDURES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					UT	PT	MT	1	3	4					
BFSK-230	F-A	CL3	N/A	MSK-1492					X		VT-3		12-10-91	JAF-VT-020	
H46-179	F-A	CL3	N/A	MSK-137F1					X		VT-3		12-11-91	JAF-VT-016	
H46-30	F-A	CL3	N/A	MSK-137K1					X		VT-3		12-11-91	JAF-VT-021	LIMITED EXAM
PPSK-2026	F-A	CL3	N/A	MSK-137M1					X		VT-3		12-11-91	JAF-VT-022	
H46-136	F-B	CL3	N/A	MSK-144E1					X		VT-3		12-9-91	JAF-VT-004	
H46-130	F-B	CL3	N/A	MSK-144E1					X		VT-3		12-9-91	JAF-VT-002	
H46-168	F-B	CL3	N/A	MSK-137Q1					X		VT-3		12-11-91	JAF-VT-014	
H46-168A	F-B	CL3	N/A	MSK-137Q1					X		VT-3		12-11-91	JAF-VT-013	
PPSK-2001	F-B	CL3	N/A	MSK-137Q1					X		VT-3		12-11-91	JAF-VT-015	
PPSK-2117	F-B	CL3	N/A	MSK-137M1					X		VT-3		12-11-91	JAF-VT-012	
PPSK-2432	F-B	CL3	N/A	MSK-164E1					X		VT-3		12-9-91	JAF-VT-003	
PPSK-2472	F-B	CL3	N/A	MSK-164E1					X		VT-3		12-9-91	JAF-VT-001	
PPSK-2612	F-B	CL3	N/A	MSK-103C1					X		VT-3		1-15-92	JAF-VT-092	

NOTES:

June 24, 1992

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STUDY NO.

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FIELD OR OTHER IDENTIFICATION	STATION CITY	ITEM NO.	MUSEC 9113	ISO DRAINING NUMBER	TEST METHOD			VT	WT	H	MSR PROCESSES REQUIRED	CALIBRATION BLOCKS REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
					SV	SV	SV								
SPSE-177	P-A	CL3	N/A	MSK-1476					1	3	WT-3		12-10-91	JAP-VT-010	
SPSE-956	P-A	CL3	N/A	MSK-1475					1	3	WT-3		12-10-91	JAP-VT-011	
SPSE-1064	P-B	CL3	N/A	MSK-1456					1	3	WT-3		12-10-91	JAP-VT-018	JAP-100-002
SPSE-1076	P-B	CL3	N/A	MSK-1457					1	3	WT-3		12-10-91	JAP-VT-019	JAP-100-003
SPSE-1077	P-B	CL3	N/A	MSK-1457					1	3	WT-3		12-10-91	JAP-VT-020	JAP-100-001
SPSE-392	P-B	CL3	N/A	MSK-1457					1	3	WT-3		12-10-91	JAP-VT-009	

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NEW YORK POWER AUTHORITY

JAMES A. FITZPATRICK NUCLEAR POWER PLANT
DOCKET NO. 50-333

MISCELLANEOUS EXAMINATION CHECKLIST

1992 REFUEL OUTAGE

NEW YORK POWER AUTHORITY
MISCELLANEOUS EXAMINATION CHECKLIST

DATE: 2/19/93

Project: J.A. VITAPRICE 1992 REBELL OUTAGE	SYSTEM: RECIRCULATION										REMARKS	
	WELD OR ITEM IDENTIFICATION		NDE METHOD				NDE PROCEDURES REQUIRED		DATE COMPLETED			DATA REPORT NUMBER
	PT	HT	1	2	3	4						
02-RV-71R			X					NDEP 9.5-4 NDEP 9.5-7	3-13-92 3-13-92			
02-RV-71A			X					NDEP 9.5-4 NDEP 9.5-7	8-24-92 8-24-92			
02-2P-1A			X					NDEP 9.5-4	5-11-92			VP-1 of Cap Screens.
02-2P-1A			X					NDEP 9.5-4	4-1-92			VP-1 of Seal Bolts [Code required VP].

NOTES:

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M. O'Neil

DATE: 2/19/93

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PAGE 2 OF 14

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DATE: 2/19/93

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DATE: 2/19/95

Project: J. A. FITZPATRICK
1992 REFUEL OUTAGE

SYSTEM:

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PAGE 4 OF 14

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PAGE 6 OF 14

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NEW YORK POWER AUTHORITY
MISCELLANEOUS EXAMINATION CHECKLIST

DATE: 2/19/95

Project: J.A. FITZPATRICK 1992 REFUEL OUTAGE	SYSTEM: RESIDUAL HEAT REMOVAL (RHR)										REMARKS	
	WELD OR ITEM IDENTIFICATION	PT	SURF	NDE METHOD				NDE PROCEDURES REQUIRED	DATE COMPLETED	DATA REPORT NUMBER		
				VT	1	2	3					4
10-AUV-68A				X						6-5-92		
10-AUV-68B		X		X						5-13-92 4-10-92		
10-AUV-18							X			3-26-92		
10-AUV-27B		X					X			7-16-92 7-4-92		
10-AUV-25A							X			8-14-92		
10-AUV-27A							X			5-21-92		

NOTES:

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M. O'Neil

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PAGE 10 OF 14

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NEW YORK POWER AUTHORITY
MISCELLANEOUS EXAMINATION CHECKLIST

DATE: 2/19/93

Project: J.A. FITZPATRICK
1992 REFUEL OUTAGE

SYSTEM: CRD (FLANGE BOLTING)

WELD OR ITEM IDENTIFICATION	NDE METHOD						NDE PROCEDURES REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
	SURF PT	MT	1	2	3	4				
06-27	X		X				NDEP 9.1-1 NDEP 9.5-4	4-14-92 4-14-92		
10-27	X		X				NDEP 9.1-1 NDEP 9.5-4	4-13-92 4-13-92		
10-31	X		X				NDEP 9.1-1 NDEP 9.5-4	4-14-92 4-14-92		
10-43	X		X				NDEP 9.1-1 NDEP 9.5-4	4-14-92 4-14-92		
14-15	X		X				NDEP 9.1-1 NDEP 9.5-4	4-13-92 4-13-92		
14-39	X		X				NDEP 9.1-1 NDEP 9.5-4	4-13-92 4-13-92		
14-47	X		X				NDEP 9.1-1 NDEP 9.5-4	4-13-92 4-13-92		
18-11	X		X				NDEP 9.1-1 NDEP 9.5-4	4-14-92 4-14-92		
18-27	X		X				NDEP 9.1-1 NDEP 9.5-4	4-11-92 4-11-92		
18-35	X		X				NDEP 9.1-1 NDEP 9.5-4	4-13-92 4-13-92		

NOTES:

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NEW YORK POWER AUTHORITY
MISCELLANEOUS EXAMINATION CHECKLIST

DATE: 2/19/95

Project: J.A. FITZPATRICK
1992 REFUEL OUTAGE

SYSTEM: CRO (FLANGE BOLTING) Continued

WELD OR ITEM IDENTIFICATION	NDE METHOD						NDE PROCEDURES REQUIRED	DATE COMPLETED	DATA REPORT NUMBER	REMARKS
	SURF		VT							
	PT	MT	1	2	3	4				
18-51	X		X				NDEP 9.1-1 NDEP 9.5-4	11-25-92 11-25-92		
22-27	X		X				NDEP 9.1-1 NDEP 9.5-4	11-25-92 11-25-92		
26-15	X		X				NDEP 9.1-1 NDEP 9.5-4	4-11-92 4-11-92		
30-07	X		X				NDEP 9.1-1 NDEP 9.5-4	4-13-92 4-13-92		
30-11	X		X				NDEP 9.1-1 NDEP 9.5-4	4-13-92 4-13-92		
34-15	X		X				NDEP 9.1-1 NDEP 9.5-4	4-11-92 4-11-92		
34-35	X		X				NDEP 9.1-1 NDEP 9.5-4	3-12-92 3-12-92		
34-38	X		X				NDEP 9.1-1 NDEP 9.5-4	4-9-92 4-9-92		
38-27	X		X				NDEP 9.1-1 NDEP 9.5-4	11-25-92 11-25-92		
38-39	X		X				NDEP 9.1-1 NDEP 9.5-4	4-9-92 4-9-92		

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PAGE 13 OF 18

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NEW YORK POWER AUTHORITY

JAMES A. FITZPATRICK NUCLEAR POWER PLANT
DOCKET NO. 50-333

LIMITED EXAMINATION SUMMARY REPORT

1992 REFUEL OUTAGE

The following are the welds/components that had limitations. Percent coverage is the percentage of volume or area that was achieved utilizing ASME Section XI as a basis.

<u>SYSTEM</u>	<u>COMPONENT I.D.</u>	<u>REPORT #</u>	<u>EXAM TYPE</u>	<u>PERCENT COMPLETE</u>	<u>COMMENTS</u>
RPV	VC-SKC-1	JAF-VT-153	VT-3	100% of O.D.	I.D. to be examined
	VC-SKC-2	"	VT-3	"	during future outage.
	VH-SKR-1	"	VT-3	"	" "
	VH-SKR-4	"	VT-3	"	" "
	VV-SKV-2	"	VT-3	"	" "
RPV	VC-SKC-1	JAF-VT-153A	VT-3	100% of O.D.	I.D. to be examined
	VC-SKC-2	"	VT-3	"	during future outage.
	VH-SKV-1	"	VT-3	"	" "
	VH-SKR-2	"	VT-3	"	" "
	VH-SKR-3	"	VT-3	"	" "
Recirc.	28-02-2-91-LS3	JAF-UT-032	UT	92.7%	
Recirc.	28-02-2-110E	JAF-PT-010	PT	75.0%	
Recirc.	N8A-SE-3	JAF-UT-061	UT	90.48%	
RHR	8-10-862B	JAF-MT-019	MT	Area not examined is 2" long and 1.5" wide, thus 3 in. ² per each lug was inaccessible. This includes the weld and Code required exam surfaces.	
RHR	12-10-697A	JAF-MT-024	MT	56.0%	Inner Region of Integral Attachment was inaccessible.
	" "	" "	VT-1	43.0%	
	" "	" "	VT-3	100.0%	
RHR	FWB	JAF-UT-077	UT	95.7%	
	FWB	JAF-UT-077A	UT	95.7%	
RHR	N-4B	JAF-UT-001A	UT	62.8%	Limited due to proximity of flange and flange bolting.
Core Spray	FWB (Upstream Sweep-o-let)	JAF-UT-074	UT	95.7%	
Core Spray	14-23-461	JAF-MT-038	MT	96.0%	
Core Spray	14-23-461	JAF-UT-015	UT	96.0%	

<u>SYSTEM</u>	<u>COMPONENT ID.</u>	<u>REPORT #</u>	<u>EXAM TYPE</u>	<u>PERCENT COMPLETE</u>	<u>COMMENTS</u>
HPCI	14-23-461	JAF-MT-038	MT	96.0%	
"	14-23-461	JAF-UT-013	UT	96.0%	
"	14-23-461	JAF-UT-015	UT	96.0%	
Jet Pump	N-8A-SE-3	JAF-UT-061	UT	90.5%	
Main Steam	24-29-618A	JAF-MT-057	MT		Limited access; Supplemental VT performed.
Emergency Service Water	H46-30	JAF-VT-021	VT-3		Unable to determine length of lug due to Fire Barrier Foam. One (1) inch length beyond the penetration is the only accessible surface.

NEW YORK POWER AUTHORITY

JAMES A. FITZPATRICK NUCLEAR POWER PLANT
DOCKET NO. 50-333

SUMMARY OF EXAMINATION RESULTS

1992 REFUEL OUTAGE

RECIRCULATION SYSTEM (02-2)

<u>VT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-VT-143	02-MOV-43B	VT-1	3/16/92	NRI
JAF-VT-144	02-2-3A-NN-1B	VT-3	3/16/92	NRI
JAF-VT-145	02-2-3B-AN-1	VT-3	4/9/92	NRI
JAF-VT-146	02-2-8A-NN-2A	VT-3	3/16/92	NRI
JAF-VT-147	02-2-7B-NN-2A	VT-3	3/16/92	NRI
JAF-VT-152	02-MOV-53B	VT-1	3/16/92	INR-077
JAF-VT-152A	(BOLTING)	VT-1	4/3/92	NRI
JAF-VT-162	02-2-3B-NN-1B	VT-3	3/16/92	NRI
 <u>PT</u>				
JAF-PT-002	28-02-2-106	PT	3/11/92	NRI
" "	28-02-2-106 LS1	PT	3/11/92	NRI
JAF-PT-003	12-02-2-24 LS2	PT	3/11/92	NRI
" "	22-02-2-5	PT	3/11/92	NRI
JAF-PT-004	12-02-2-10	PT	3/10/92	NRI
" "	22-02-2-11	PT	3/10/92	NRI
" "	12-02-2-17 LS1	PT	3/10/92	NRI
" "	22-02-2-6 LS1	PT	3/10/92	NRI
JAF-PT-005	12-02-2-10 LS1	PT	3/9/92	NRI
" "	N-2C-SE	PT	3/9/92	NRI
" "	12-02-2-24 LS1	PT	3/9/92	NRI
JAF-PT-006	N2F-SE	PT	3/9/92	NRI
" "	N2G-SE	PT	3/9/92	NRI
" "	N2J-SE	PT	3/9/92	NRI
JAF-PT-007	28-02-2-116 LS1	PT	3/14/92	NRI
" "	28-02-2-116 LS2	PT	3/14/92	NRI
" "	28-02-2-91	PT	3/14/92	NRI
" "	28-02-2-91 LS1	PT	3/14/92	NRI
" "	28-02-2-91 LS2	PT	3/14/92	NRI
" "	28-02-2-91 LS3	PT	3/14/92	NRI
" "	28-02-2-92 LS1	PT	3/14/92	NRI
" "	28-02-2-92 LS2	PT	3/14/92	NRI
JAF-PT-008	28-02-2-109	PT	3/14/92	NRI
" "	28-02-2-109 LS1	PT	3/14/92	NRI
" "	28-02-2-110	PT	3/14/92	NRI
" "	28-02-2-110 LS1	PT	3/14/92	NRI
JAF-PT-009	28-02-2-35 LS1	PT	3/14/92	NRI

RECIRCULATION SYSTEM (02-2)

<u>PT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-PT-010	28-02-2-110E	PT	3/14/92	NRI
" "	28-02-2-110G	PT	3/14/92	NRI
JAF-PT-011	28-02-2-155	PT	3/27/92	NRI
JAF-PT-012	28-02-2-153	PT	3/27/92	NRI
 <u>UT</u>				
JAF-UT-004	12-02-2-17	AX&C 45°S	1/29/92	GEO
JAF-UT-004A	12-02-2-17	AX 60°S	1/29/92	GEO
JAF-UT-004B	12-02-2-17	AX&C 45°S	3/10/92	GEO
JAF-UT-004C	12-02-2-17	AX 60°S	3/11/92	GEO
JAF-UT-006	12-02-2-10	AX 60°S	1/29/92	GEO
JAF-UT-006A	12-02-2-10	AX&C 45°S	1/29/92	GEO
JAF-UT-007	12-02-2-7	AX 60°S	1/29/92	GEO
JAF-UT-007A	12-02-2-7	AX&C 45°S	1/29/92	GEO
JAF-UT-007B	12-02-2-7	AX&C 45°S	3/10/92	GEO
JAF-UT-007C	12-02-2-7	AX 60°S	3-10-92	GEO
JAF-UT-008	22-02-2-6	AX&C 60°S	1/29/92	GEO
JAF-UT-008A	22-02-2-6	AX&C 45°S	1-29-92	GEO
JAF-UT-022	N-2C-SE	AX&C 45°S	3/10/92	NRI
" "	N-2D-SE	AX&C 45°S	3/10/92	NRI
JAF-UT-022A	N-2C-SE	AX&C 45°RL (SS)	3/10/92	NRI
" "	N-2D-SE	AX&C 45°RL (SS)	3/10/92	NRI
JAF-UT-022B	N-2C-SE	AX&C 45°RL (CS)	3/10/92	NRI
" "	N-2D-SE	AX&X 45°RL (CS)	3/10/92	NRI
JAF-UT-022C	N-2C-SE	AX&C 60°RL (CS)	3/10/92	NRI
" "	N-2D-SE	AX&C 60°RL (CS)	3/10/92	NRI
JAF-UT-023	N-2G-SE	AX&C 45°S	3/10/92	NRI
JAF-UT-023A	N-2G-SE	AX&C 45°RL (SS)	3/10/92	NRI
JAF-UT-023B	N-2G-SE	AX&C 45°RL (CS)	3/10/92	NRI
JAF-UT-023C	N-2G-SE	AX&C 60°RL (CS)	3/10/92	NRI
JAF-UT-025	N-2F-SE	AX&C 45°RL	3/11/92	NRI
" "	N-2J-SE	AX&C 45°RL	3/11/92	NRI
JAF-UT-025A	N-2F-SE	AX&C 60°RL	3/11/92	NRI
" "	N-2J-SE	AX&C 60°RL	3/11/92	NRI
JAF-UT-025B	N-2F-SE	AX&C 45°S	3/11/92	NRI
" "	N-2J-SE	AX&C 45°S	3/11/92	NRI
JAF-UT-025C	N-2F-SE	AX&C 45°RL	3/11/92	NRI

RECIRCULATION SY TEM (02-2)

<u>UT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-UT-026	28-02-2-55	CIRC 30°S	3/16/92	NRI
JAF-UT-026A	28-02-2-55	AX 45°S	3/16/92	NRI
JAF-UT-027	28-02-2-53	THICKNESS	3/14/92	
JAF-UT-028	12-02-2-24	AX&C 45°S	3/10/92	GEO
" "	12-02-2-24 LS1	AX&C 45°S	3/10/92	NRI
" "	12-02-2-24 LS2	AX&C 45°S	3/10/92	NRI
" "	12-02-2-7 LS1	AX&C 45°S	3/10/92	NRI
" "	12-02-2-10 LS1	AX&C 45°S	3/10/92	NRI
JAF-UT-028A	12-02-2-24	AX 60°S	3/10/92	GEO
JAF-UT-029	28-02-2-109 LS1	BM 0°	3/17/92	NRI
" "	28-02-2-110 LS1	BM 0°	3/17/92	NRI
JAF-UT-030	22-02-2-11	AX&C 45°S	3/16/92	GEO
JAF-UT-030A	22-02-2-11	AX&C 60°S	3/16/92	GEO
JAF-UT-031	12-02-2-65 LS1	B0°	3/16/92	NRI
JAF-UT-031A	12-02-2-65 LS1	AX&C 45°S	3/16/92	GEO
JAF-UT-032	28-02-2-91	AX&C 45°S	3/31/92	GEO
" "	28-02-2-91 LS3	AX&C 45°S	3/31/92	NRI
JAF-UT-032A	28-02-2-91	AX&C 52°S	4/3/92	GEO
JAF-UT-032B	28-02-2-91	AX 60°S	3/31/92	GEO
JAF-UT-033	28-02-2-35	AX&C 45°S	3/16/92	GEO
" "	28-02-2-35 LS1	AX&C 45°S	3/16/92	GEO
JAF-UT-034	28-02-2-109	AX&C 45°S	3/18/92	GEO
" "	28-02-2-109 LS1	AX&C 45°S	3/18/92	NRI
JAF-UT-035	28-02-2-91 LS1	AX&C 45°S	3/18/92	NRI
" "	28-02-2-91 LS2	AX&C 45°S	3/18/92	NRI
" "	28-02-2-92 LS1	AX&C 45°S	3/18/92	NRI
" "	28-02-2-92 LS2	AX&C 45°S	3/18/92	NRI
JAF-UT-036	28-02-2-110	AX&C 60°S	3/17/92	GEO
JAF-UT-036A	28-02-2-110	AX&C 45°S	3/17/92	NRI
" "	28-02-2-110 LS1	AX&C 45°S	3/17/92	NRI

RECIRCULATION SYSTEM (02-2)				
UT	COMPONENT	EXAM	DATE	RESULTS
JAF-UT-045	12-02-2-12	AX&C 60°RL	3/30/92	NRI
" "	12-02-2-18	AX&C 60°RL	3/30/92	NRI
" "	12-02-2-19	AX&C 60°RL	3/30/92	NRI
" "	12-02-2-23	AX&C 60°RL	3/30/92	NRI
JAF-UT-045A	12-02-2-12	AX&C 70°RL	3/30/92	NRI
" "	12-02-2-18	AX&C 70°RL	3/30/92	NRI
" "	12-02-2-19	AX&C 70°RL	3/30/92	NRI
" "	12-02-2-23	AX&C 70°RL	3/30/92	NRI
JAF-UT-046	12-02-2-64	AX&C 60°RL	3/30/92	NRI
" "	12-02-2-69	AX&C 60°RL	3/30/92	NRI
JAF-UT-046A	12-02-2-64	AX&C 70°RL	3/30/92	NRI
" "	12-02-2-69	AX&C 70°RL	3/30/92	NRI
JAF-UT-047	28-02-2-116	AX&C 60°RL	3/31/92	NRI
" "	22-02-2-63	AX&C 60°RL	3/31/92	NRI
JAF-UT-048	28-02-2-33	AX&C 60°RL	3/31/92	NRI
" "	28-02-2-53	AX&C 60° RL	3/31/92	NRI
JAF-UT-048A	28-02-2-53	BM 0°	3/31/92	NRI (OVL)
JAF-UT-048B	28-02-2-53	AX&C 70°RL	3/31/92	NRI
JAF-UT-049	28-02-2-106	AX&C 45°S	3/17/92	GEO
" "	28-02-2-106 LS1	AX&C 45°S	3/17/92	NRI
JAF-UT-051	04-02-2-118	AX&C 60°RL	4/1/92	NRI
JAF-UT-052	N-8A-SE-2	AX&C 60°RL	4/1/92	NRI
JAF-UT-053	28-02-2-92	AX&C 60°RL	4/1/92	NRI (OVL)
JAF-UT-056	N1A-SE	AX 45°S	3/17/92	GEO
JAF-UT-056A	"	C 45°S	3/17/92	NRI
JAF-UT-056B	"	AX 45°RL	3/14/92	GEO
JAF-UT-056C	"	C 45°RL	3/14/92	NRI
JAF-UT-056D	"	AX 45°RL	3/14/92	NRI
JAF-UT-056E	"	C 45°RL	3/14/92	NRI
JAF-UT-056F	"	AX 60°RL	3/14/92	GEO
JAF-UT-056G	"	C 60°RL	3/14/92	NRI
JAF-UT-058	28-02-2-116 LS1	AX&C 45°S	3/16/92	GEO
" "	28-02-2-116 LS2	AX&C 45°S	3/16/92	GEO
JAF-UT-059	22-02-2-5	AX&C 45°S	3/14/92	IGSCC
JAF-UT-059A	" "	AX&C 60°S	3/14/92	IGSCC
JAF-UT-059B	" "	AX 45°S	3/30/92	GEO
JAF-UT-059C	" "	AX 60°S	3/30/92	GEO
JAF-UT-059D	" "	AX 70°RL	3/30/92	NRI

JET PUMP INSTRUMENTATION (02-3)

<u>UT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-UT-060	N-8A-SE1	AX&C 45°S	4/2/92	ID GEO
JAF-UT-061	N-8A-SE3	AX&C 45°S	4/2/92	ID GEO
JAF-UT-062	N-8A-SE	AX&C 45°S	4/2/92	NRI
JAF-UT-062A	N-8A-SE	AX&C 60°RL (SS)	4/2/92	NRI
JAF-UT-062B	N-8A-SE	AX&C 60°RL (CS)	4/2/92	NRI
JAF-UT-062C	N-8A-SE	AX 70°RL (SS)	4/2/92	NRI
JAF-UT-062D	N-8A-SE	AX 70°RL (CS)	4/2/92	NRI

CONTROL ROD (03)

<u>VT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-VT-090	3-NS-14	VT-3	1/9/92	INR-053
 <u>PT</u>				
JAF-PT-001	8-03-22 8-03-23	PT	2/4/92	NRI
 <u>UT</u>				
JAF-UT-050	N-9-C1	AX&C 45°RL	3/18/92	NRI
JAF-UT-050A	" "	AX&C 45°RL	3/18/92	NRI
JAF-UT-050B	" "	AX&C 60°RL	3/18/92	NRI
JAF-UT-050C	" "	AX&C 45°S	3/18/92	ROOT GEO

RESIDUAL HEAT REMOVAL (10)

<u>VT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-VT-017	PFSK-2153		12/11/91	NRI
JAF-VT-023	PFSK-2095		12/17/91	NRI
JAF-VT-053	10-7D-NS-2A		12/19/91	NRI
JAF-VT-054	PFSK-2483		12/19/91	NRI
JAF-VT-055	PFSK-2095	VT-1	12/19/91	NRI
JAF-VT-056	10-39-AN-171		1/8/92	INR-018
JAF-VT-056A	" " "		2/11/92	NRI
JAF-VT-057	10-39-NS-172	1/8/92	INR-019	
JAF-VT-057A	" " "		2/10/92	NRI
JAF-VT-064	10-39-NS-170		1/9/92	NRI
JAF-VT-065	10-9B-AN-286A		1/8/92	NRI
JAF-VT-066	10-13A-NS-109C		1/8/92	NRI
JAF-VT-067	PFSK-2483	VT-1	1/7/92	NRI
JAF-VT-091	PFSK-2232	VT-1	1/15/92	NRI
JAF-VT-096	10-39-NS-164		1/16/92	INR-024
JAF-VT-096A	PFSK-2187		2/14/92	NRI
JAF-VT-097	10-39-AS-169		1/16/92	INR-025
JAF-VT-097A	PFSK-2149		2/11/92	NRI
JAF-VT-099	PFSK-2240	VT-1	1/16/92	NRI
JAF-VT-101	10-39-AN-155		1/16/92	NRI
JAF-VT-102	10-15B-NS-125A		1/16/92	NRI
JAF-VT-104	10-32B-NS-275A		1/18/92	NRI
JAF-VT-105	10-13A-NS-105A		1/18/92	NRI
JAF-VT-106	PFSK-2151		1/21/92	NRI
JAF-VT-107	PFSK-2145		1/21/92	NRI
JAF-VT-109	PFSK-2515		1/18/92	NRI
JAF-VT-110	PFSK-2013		1/28/92	NRI
JAF-VT-111	PFSK-2003		1/28/92	NRI
JAF-VT-116	H10-101		1/28/92	NRI
JAF-VT-118	12-10-697A	VT-1	2/4/92	NRI
JAF-VT-137	H10-99B		2/27/92	NRI
JAF-VT-148	10-12B-NW-144		3/18/92	NRI
JAF-VT-149	10-12A-NW-118		3/18/92	NRI
JAF-VT-161	10-RHR-81B	VT-1	4/4/92	NRI

RESIDUAL HEAT REMOVAL (10)

<u>MT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-MT-001	SUP-5B		1/13/92	NRI
JAF-MT-002	SUP-6B		1/13/92	NRI
JAF-MT-003	N-4B		1/13/92	NRI
JAF-MT-005	24-10-800		1/15/92	NRI
JAF-MT-008	14-23-432		1/15/92	RI
JAF-MT-008A	" "		1/27/92	NRI
JAF-MT-007	8-10-870		1/15/92	NRI
JAF-MT-010	6-10-1079		1/8/92	RI - INR-035
JAF-MT-010A	" " "		4/2/92	ACQR-92-067 INR-080 JAF-UT-057
JAF-MT-011	6-10-1078		1/18/92	NRI
JAF-MT-012	8-10-507		1/17/92	NRI
" "	8-10-508		1/17/92	NRI
JAF-MT-014	8-10-495		1/17/92	RI - INR-052 .2" ACCEPTABLE INDICATION
JAF-MT-015	20-10-944 20-10-945		1/16/92 " "	NRI "
JAF-MT-016	12-10-698		1/18/92	NRI
JAF-MT-017	16-10-1026		1/20/92	NRI
JAF-MT-018	8-10-511 8-10-512 8-10-513 8-10-514 8-10-515		1/18/92 " " " " " " " "	NRI " " " "

RESIDUAL HEAT REMOVAL (10)

<u>MT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-MT-019	8-10-862B		1/21/92	NRI LIMITATION ON LUGS DUE TO CLAMP
JAF-MT-020	20-10-849A		1/21/92	NRI
JAF-MT-024	12-10-697A		1/18/92	LIMITED EXAM SEE VT-118 INR-049
JAF-MT-026	24-10-946		1/30/92	RI -INR-057 LINEAR INDICATION SEE MT-030 FOR RE-EXAM
JAF-MT-027	16-10-465		1/31/92	NRI
JAF-MT-028	16-10-466		1/31/92	NRI
JAF-MT-029	20-10-925		1/30/92	NRI
JAF-MT-030	24-10-946		2/5/92	NRI SEE MT-026
JAF-MT-033	20-10-849B		1/21/92	NRI
JAF-MT-044	16-10-242B		3/27/92	NRI
JAF-MT-048	24-10-347A		3/30/92	NRI
JAF-MT-050	16-10-467		4/2/92	NRI
JAF-MT-052	24-10-145		4/7/92	NRI
" "	24-10-146		4/7/92	NRI
" "	24-10-146B		4/7/92	NRI
JAF-MT-055	24-10-144A		4/13/92	NRI

RESIDUAL HEAT REMOVAL (10)

<u>UT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-UT-001	N-4B	AX&C 45°S	1/15/92	NRI
	C-4B	" "	"	"
JAF-UT-001A	N-4B	BH 0°	1/15/92	NRI LIMITED
	C-4B	" "	"	NRI
JAF-UT-001B	N-4B	AX&C 70°S	3/27/92	ID GEO
JAF-UT-010	24-10-946	THICKNESS	2/4/92	INFO ONLY *MT-026
JAF-UT-057	6-10-1079	THICKNESS	4/2/92	MT-010A *INR-080
JAF-UT-066	24-10-142	AX 40°RL (CS)	4/4/92	NRI
JAF-UT-066A	24-10-142	AX 40°RL (SS)	4/4/92	NRI
JAF-UT-066B	24-10-142	CIRC 40°RL	4/4/92	NRI
JAF-UT-067	24-10-143	AX 40°RL (CS)	4/4/92	NRI
JAF-UT-067A	24-10-143	AX 40°RL (SS)	4/4/92	NRI
JAF-UT-067B	24-10-143	CIRC 40°RL	4/4/92	NRI
JAF-UT-068	24-10-144	AX 40°RL (CS)	4/4/92	NRI
JAF-UT-068A	24-10-144	AX 40°RL (SS)	4/4/92	NRI
JAF-UT-068B	24-10-144	CIRC 40°RL	4/4/92	NRI
JAF-UT-069	24-10-145	0°	4/7/92	NRI
" "	24-10-146	0°	4/7/92	NRI
" "	24-10-146B	0°	4/7/92	NRI
JAF-UT-070	24-10-145	AX&C 45°S	4/7/92	NRI
JAF-UT-070A	24-10-145	AX 60°S	4/8/92	NRI
JAF-UT-071	24-10-146	AX 45°S	4/7/92	COUNTERBORE
" "	24-10-146B	AX 45°S	4/7/92	NRI
JAF-UT-071A	24-10-146	CIRC 45°S	4/7/92	NRI
" "	24-10-146B	CIRC 45°S	4/7/92	NRI
JAF-UT-076	FWA	0°	4/10/92	NRI
JAF-UT-076A	FWA	CIRC 45°S	4/10/92	NRI
JAF-UT-076B	FWA	AX 45°S	4/10/92	OD GEO
JAF-UT-077	FWB, FWC	0°L	4/10/92	NRI
JAF-UT-077A	FWB	AX 45°S	4/10/92	ROOT GEO LIMITATION
JAF-UT-077B	FWB, FWC	AX&C 45°S	4/10/92	NRI

REACTOR CORE ISOLATION COOLING (13)

<u>VT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-VT-039	PFSK-2111	VT-3	12/11/91	INR-010 DRAWING ERROR NRI
JAF-VT-040	H13-7	VT-3	12/19/91	INR-011 DRAWING ERROR NRI
JAF-VT-041	PFSK-1961	VT-3	12/19/91	INR-012 DRAWING ERROR NRI
JAF-VT-043	PFSK-1049	VT-3	12/19/91	INR-014 INCORRECT COLD LOAD SETTING
JAF-VT-044	PFSK-1049	VT-1	12/19/91	NRI
JAF-VT-045	PFSK-1963	VT-3	12/19/91	NRI
JAF-VT-046	PFSK-1963	VT-1	12/19/91	NRI
JAF-VT-083	PFSK-2473	VT-3	1/10/92	NRI
JAF-VT-084	PFSK-2473	VT-1	1/10/92	NRI
JAF-VT-085	PFSK-2467	VT-3	1/10/92	NRI
JAF-VT-086	PFSK-2467	VT-1	1/10/92	NRI
JAF-VT-103	H13-13	VT-3	1/15/92	NRI
<u>MT</u>				
JAF-MT-004	4-13-451	MT	1/14/92	NRI
" "	4-13-452	MT	1/14/92	NRI
JAF-MT-013	6-13-1044	MT	1/15/92	NRI
JAF-MT-032	4-13-450	MT	2/7/92	NRI
JAF-MT-034	4-13-445	MT	2/12/92	INR-060
JAF-MT-034A	4-13-445	M	2/19/92	NRI REF.UT-017 (RE-EXAM)

REACTOR CORE ISOLATION COOLING (13)

<u>UT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-UT-002	4-13-451	AX 45°S	1/16/92	NRI
" "	4-13-452	AX 45°S	1/16/92	NRI
JAF-UT-002A	4-13-451	C 45°S	1/16/92	NRI
" "	4-13-452	C 45°S	1/16/92	NRI
JAF-UT-017	TOP OF TORUS	THICKNESS	2/19/92	NRI
JAF-UT-020	4-13-450	C 45°S	2/20/92	NRI
" "	4-13-445	C 45°S	2/20/92	NRI
JAF-UT-020A	4-13-445	AX 45°S	2/20/92	GEO
JAF-UT-020B	4-13-450	AX 45°S	2/20/92	GEO

REACTOR WATER CLEANUP (12)

<u>VT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-VT-138	12-1-AN-21	VT-3	3/16/92	NRI
JAF-VT-150	12-1-AN-16	VT-3	3/16/92	NRI
JAF-VT-151	12-1-AN-17	VT-3	3/16/92	INR-074
<u>MT</u>				
JAF-MT-047	6-12-906	MT-1	3/26/92	NRI
<u>UT</u>				
JAF-UT-037	6-12-906	TH 0°	3/26/92	NRI
JAF-UT-037A	6-12-906	C 45°S	3/27/92	NRI
JAF-UT-037B	6-12-906	A 45°S	3/27/92	GEO

CORE SPRAY (14)

<u>VT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-VT-082	14-1A-NS-1	VT-3	1/10/92	NRI
JAF-VT-089	14-4A-NS-12	VT-3	1/8/92	NRI
JAF-VT-129	14-4B-NS-30A	VT-3	2/12/92	NRI

MT

JAF-MT-006	16-14-700	MT	1/15/92	NRI
" "	16-14-703	MT	1/15/92	NRI
" "	16-14-704	MT	1/15/92	NRI
JAF-MT-049	10-14-490	MT	3/30/92	NRI

PT

FWA, FWB, FWC - PERFORMED BY QC

UT

JAF-UT-024	N-5B-SE	AX 45°S	3/13/92	NRI
JAF-UT-024A	N-5B-SE	C 45°S	3/13/92	NRI
JAF-UT-024B	N-5B-SE	A&C 45°RL	3/13/92	NRI
JAF-UT-024C	N-5B-SE	A 60°S	3/13/92	NRI
JAF-UT-024D	N-5B-SE	C 60°S	3/13/92	NRI
JAF-UT-024E	N-5B-SE	AX&C 60°RL	3/13/92	NRI
JAF-UT-024F	N-5B-SE	0°	4/8/92	NRI
JAF-UT-024G	N-5B-SE	AX&C 45°S (CS)	4/8/92	GEO
JAF-UT-024H	N-5B-SE	AX&C 45°S (SS)	4/8/92	GEO
JAF-UT-024I	N-5B-SE	AX&C 45°S (SS)	4/8/92	GEO
JAF-UT-024J	N-5B-SE	AX&C 45°RL (CS)	4/8/92	GEO
JAF-UT-024K	N-5B-SE	AX&C 45°RL (SS)	4/8/92	GEO
JAF-UT-024L	N-5B-SE	AX&C 60°RL (CS)	4/8/92	GEO
JAF-UT-024M	N-5B-SE	AX&C 60°RL (SS)	4/8/92	GEO
JAF-UT-055	10-14-490	AX&C 45°S	3/30/92	GEO
JAF-UT-074	FWA, FWB, FWC	BM 0°	4/8/92	NRI
JAF-UT-074A	FWA, FWB, FWC	AX 45°S	4/8/92	NRI
JAF-UT-074B	FWA, FWB, FWC	C 45°S	4/8/92	NRI
JAF-UT-074C	FWA, FWB, FWC	AX 60°S	4/8/92	NRI
JAF-UT-074D	FWA, FWB, FWC	AX 45°S (SS)	4/8/92	GEO
JAF-UT-074E	FWA, FWB, FWC	C 45°S	4/8/92	NRI
JAF-UT-074F	FWA, FWB, FWC	AX 60°S	4/8/92	GEO

REACTOR BUILDING CLOSED LOOP COOLING (15)

<u>VT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-VT-068	PFSK-2191	VT-3	1/13/92	INR-20
JAF-VT-069	PFSK-2371	VT-3	1/13/92	INR-21
JAF-VT-072	PFSK-949	VT-3	1/8/92	NRI
JAF-VT-073	PFSK-939	VT-3	1/13/92	NRI
JAF-VT-074	PFSK-925	VT-3	1/13/92	NRI
JAF-VT-075	H15-244	VT-3	1/13/92	NRI
JAF-VT-076	PFSK-943	VT-3	1/13/92	NRI
JAF-VT-077	PFSK-2181	VT-3	1/13/92	NRI
JAF-VT-078	PFSK-915	VT-3	1/13/92	NRI
JAF-VT-079	PFSK-920	VT-3	1/13/92	NRI
JAF-VT-080	PFSK-928	VT-3	1/13/92	NRI
JAF-VT-087	PFSK-2407	VT-3	1/9/92	NRI
JAF-VT-088	PFSK-2333	VT-3	1/9/92	NRI
JAF-VT-117	PFSK-2413	VT-3	1/30/92	NRI
JAF-VT-136	92-R15-41	VT-1	1/16/92	REF. EC-066

FUEL POOL COOLING (19)

<u>VT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-VT-024	PFSK-2067	VT-3	12/18/91	NRI
JAF-VT-025	PFSK-2330	VT-3	12/18/91	NRI
JAF-VT-026	PFSK-2491	VT-3	12/18/91	NRI
JAF-VT-027	PFSK-2480	VT-3	12/18/91	NRI
JAF-VT-028	PFSK-1867	VT-3	12/18/91	NRI
JAF-VT-029	PFSK-2479	VT-3	12/18/91	NRI
JAF-VT-030	PFSK-1927	VT-3	12/18/91	NRI
JAF-VT-031	H19-215	VT-3	12/18/91	NRI
JAF-VT-032	PFSK-2297	VT-3	12/18/91	NRI
JAF-VT-033	PFSK-2332	VT-3	12/18/91	INR-007
JAF-VT-034	PFSK-2276	VT-3	12/17/91	NRI
JAF-VT-035	PFSK-2231	VT-3	12/17/91	NRI
JAF-VT-036	PFSK-2309	VT-3	12/17/91	NRI

HIGH PRESSURE COOLANT INJECTION (23)

<u>VT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-VT-058	23-3-NN-36	VT-3	1/7/92	NRI
JAF-VT-059	23-3-NS-35	VT-3	1/7/92	NRI
JAF-VT-060	23-3-NS-32	VT-3	1/7/92	NRI
JAF-VT-061	23-3-NS-34	VT-3	1/7/92	NRI
JAF-VT-062	23-3-NS-39	VT-3	1/9/92	NRI
JAF-VT-063	23-3-NS-41	VT-3	1/9/92	NRI
JAF-VT-070	23-19-AS-9	VT-3	1/10/92	INR-022
JAF-VT-071	23-19-AN-11	VT-3	1/10/92	INR-023
JAF-VT-071A	23-19-AN-11	VT-3	2/5/92	NRI
JAF-VT-081	23-19-NN-12	VT-3	1/10/92	NRI
JAF-VT-098	23-3-NS-37	VT-3	1/16/92	INR-026
JAF-VT-100	23-3-NS-38	VT-3	1/16/92	NRI
JAF-VT-124	23-3-NN-27	VT-3	2/17/92	INR-062
JAF-VT-124A	23-3-NN-27	VT-3	2/20/92	NRI
JAF-VT-127	23-3-NS-43A	VT-3	2/12/92	NRI
JAF-VT-128	23-19-NS-20A	VT-3	2/12/92	NRI
JAF-VT-131	23-4-NN-28	VT-3	2/12/92	NRI
<u>MT</u>				
JAF-MT-008	14-23-432	MT	1/17/92	INR-033
				RI-AQCR-92-046
JAF-MT-008A	14-23-432	MT	1/23/92	NRI
JAF-MT-009	14-23-431	MT	1/15/92	INR-034
JAF-MT-009A	14-23-431	MT	1/27/92	NRI
JAF-MT-021	10-23-690	MT	1/23/92	NRI
JAF-MT-022	14-23-466	MT	1/27/92	NRI
JAF-MT-023	14-23-467	MT	1/28/92	NRI
JAF-MT-025	14-23-468	MT	1/29/92	ACCEPTABLE
				RI -
				INR-054
JAF-MT-035	14-23-458A	MT	2/11/92	NRI
JAF-MT-036	14-23-435	MT	2/12/92	NRI
JAF-MT-037	14-23-460	MT	2/6/92	NRI
JAF-MT-038	14-23-460A	MT	2/6/92	NRI
JAF-MT-038	14-23-461	MT	2/6/92	NRI

HIGH PRESSURE COOLANT INJECTION (23)

<u>UT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-UT-003	14-23-431	AX 45°S	1/28/92	GEO
	14-23-432	AX 45°S	1/28/92	GEO
JAF-UT-003A	14-23-431	C 45°S	1/27/92	NRI
	14-23-432	C 45°S	1/27/92	NRI
JAF-UT-003B	14-23-432	TH	1/23/92	INFO ONLY
JAF-UT-003C	14-23-431	TH	1/23/92	INFO ONLY
JAF-UT-005	14-23-466	AX 45°S	1/28/92	GEO
JAF-UT-005A	14-23-466	BM 0°	1/28/92	NRI
" "	14-23-467	BM 0°	1/28/92	NRI
JAF-UT-005B	14-23-466	C 45°S	1/28/92	NRI
" "	14-23-467	C 45°S	1/28/92	NRI
JAF-UT-005C	14-23-467	AX 45°S	1/28/92	NRI
JAF-UT-009	10-23-690	BM 0°	1/23/92	NRI
" "	10-23-691	BM 0°	1/23/92	NRI
JAF-UT-009A	10-23-691	C 45°S	1/23/92	NRI
JAF-UT-009B	10-23-691	AX 45°S	1/23/92	GEO
JAF-UT-011	14-23-468	C 45°S	1/29/92	NRI
JAF-UT-011A	14-23-468	A 45°S	1/29/92	GEO
JAF-UT-012	14-23-460	C 45°S	2/10/92	NRI
" "	14-23-461	C 45°S	2/10/92	NRI
JAF-UT-013	14-23-461	AX 45°S	2/10/92	NRI
JAF-UT-014	14-23-468	BM 0°	2/13/92	NRI
JAF-UT-015	14-23-460	BM 0°	2/13/92	NRI
" "	14-23-461	BM 0°	2/13/92	NRI
JAF-UT-018	14-23-435	C 45°S	2/12/92	NRI
JAF-UT-019	14-23-435	AX 45°S	2/12/92	GEO

MAIN STEAM (29)

<u>VT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-VT-139	29-ID-AN-33B	VT-3	3/17/92	NRI
JAF-VT-140	29-1C-AS-29	VT-3	3/17/92	NRI
JAF-VT-141	29-1D-AN-42	VT-3	3/17/92	NRI
JAF-VT-142	29-1D-NS-44	VT-3	3/17/92	NRI
JAF-VT-163	24-29-618A	VT-3	4/13/92	LIMITED MT-057

MT

JAF-MT-039	24-29-583	MT	3/16/92	NRI
	24-29-584	MT	" "	"
	24-29-589	MT	" "	"
JAF-MT-043	24-29-602	MT	3/25/92	NRI - INR-075 DRAWING INCORRECTLY INDICATES SUPPORTS
" "	24-29-603	MT	3/25/92	NRI
" "	24-29-603B	MT	3/25/92	NRI
JAF-MT-046	24-29-634C	MT	3/25/92	NRI
	24-29-633A	MT	" "	"
JAF-MT-053	24-29-581A	MT	4/1/92	NRI
JAF-MT-054	24-29-581	MT	4/9/92	NRI
JAF-MT-056	24-29-617A	MT	4/13/92	NRI
JAF-MT-057	24-29-618A	MT	4/13/92	NRI

LIMITED EXAM
SEE JAF-VT-163

UT

JAF-UT-040	24-29-581A	AX 45°S	4/1/92	ROOT GEO
JAF-UT-040A	24-29-581A	C 45°S	4/1/92	NRI
JAF-UT-042	24-29-583	AX 45°S	3/25/92	GEO
	24-29-584	AX 45°S	" "	"
	24-29-589	AX 45°S	" "	"
	24-29-602	AX 45°S	" "	"
	24-29-603	AX 45°S	" "	"
JAF-UT-042A	24-29-583	C 45°S	3/25/92	NRI
	24-29-584	C 45°S	" "	"
	24-29-589	C 45°S	" "	"
	24-29-602	C 45°S	" "	"
	24-29-603	C 45°S	" "	"
JAF-UT-072	24-29-581	AX&C 45°S	4/9/92	GEO

FEEDWATER (34)

<u>VT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-VT-134	31-34-391A	VT-1	2/17/92	NRI
JAF-VT-135	31-34-425B	VT-1	2/17/92	NRI
<u>MT</u>				
JAF-MT-040	18-34-374	MT	3/17/92	NRI
" "	18-34-382	MT	3/17/92	NRI
JAF-MT-041	12-34-373	MT	3/17/92	NRI
" "	12-34-372	MT	3/17/92	NRI
JAF-MT-042	12-34-403	MT	3/17/92	NRI
" "	12-34-404	MT	3/17/92	NRI
" "	12-34-405	MT	3/17/92	NRI
<u>UT</u>				
JAF-UT-041	12-34-372	AX&C 45°S	3/24/92	NRI
" "	12-34-373	AX&C 45°S	3/24/92	NRI
JAF-UT-043	12-34-403	AX&C 45°S	3/26/92	NRI
" "	12-34-404	AX&C 45°S	3/26/92	NRI
" "	12-34-405	AX&C 45°S	3/26/92	GEO
JAF-UT-044	18-34-382	AX 45°S	3/27/92	GEO
" "	18-34-374	AX 45°S	3/27/92	GEO
JAF-UT-044A	18-34-374	C 45°S	3/27/92	NRI
	18-34-382	C 45°S	3/27/92	NRI

REACTOR BUILDING VENTILATION (66)

<u>VT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-VT-037	BFSK-1032	VT-3	12/19/91	INR-008
JAF-VT-038	BFSK-1014	VT-3	3/2/92	INR-073
JAF-VT-042	BFSK-1002	VT-3	12/19/92	INR-013
JAF-VT-047	BFSK-955	VT-3	12/19/91	NRI
JAF-VT-048	BFSK-875	VT-3	12/19/91	NRI
JAF-VT-049	BFSK-872	VT-3	12/19/91	NRI
JAF-VT-050	BFSK-862	VT-3	12/19/91	NRI
JAF-VT-051	BFSK-826	VT-3	12/19/91	NRI
JAF-VT-052	BFSK-819	VT-3	12/19/91	NRI
JAF-VT-093	BFSK-447C	VT-3	1/15/92	NRI
JAF-VT-094	BFSK-852	VT-3	1/15/92	NRI
JAF-VT-095	BFSK-922	VT-3	1/15/92	NRI
JAF-VT-119	BFSK-1057	VT-3	2/10/92	NRI
JAF-VT-120	BFSK-956	VT-3	2/10/92	NRI
JAF-VT-121	BFSK-953	VT-3	2/10/92	NRI
JAF-VT-123	BFSK-446G	VT-3	2/10/92	NRI
JAF-VT-130	BFSK-421	VT-3	2/12/92	NRI
JAF-VT-133	BFSK-1013	VT-3	2/11/92	INR-009

EMERGENCY SERVICE WATER (46)

<u>VT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-VT-001	PFSK-2472	VT-3	12/9/91	NRI
JAF-VT-002	H46-138	VT-3	12/9/91	NRI
JAF-VT-003	PFSK-2432	VT-3	12/9/91	NRI
JAF-VT-004	H46-136	VT-3	12/9/92	NRI
JAF-VT-005	PFSK-2382	VT-3	12/9/91	NRI
JAF-VT-006	H46-134	VT-3	12/9/91	NRI
JAF-VT-007	PFSK-2144	VT-3	12/9/91	NRI
JAF-VT-008	BFSK-830	VT-3	12/10/91	NRI
JAF-VT-012	PFSK-2117	VT-3	12/11/91	NRI
JAF-VT-013	H46-168A	VT-3	12/11/91	NRI
JAF-VT-014	H46-168	VT-3	12/11/91	NRI
JAF-VT-015	PFSK-2001	VT-3	12/11/91	NRI
JAF-VT-016	H46-179	VT-3	12/11/91	NRI
JAF-VT-021	H46-30	VT-3	12/11/91	NRI -
			LIMITED EXAM DUE TO FIRE BARRIER FOAM	
JAF-VT-022	PFSK-2026	VT-3	12/13/91	NRI
JAF-VT-092	PFSK-2612	VT-3	1/15/92	NRI
JAF-VT-108	PFSK-2014	VT-3	1/28/92	NRI
JAF-VT-112	PFSK-1992	VT-3	1/28/92	NRI
JAF-VT-113	PFSK-2004	VT-3	1/28/92	NRI
JAF-VT-114	PFSK-1124	VT-3	1/28/92	NRI
JAF-VT-115	PFSK-1123	VT-3	1/28/92	NRI

CHILL WATER (66)

<u>VT</u>	<u>COMPONENT</u>	<u>EXAM</u>	<u>DATE</u>	<u>RESULTS</u>
JAF-VT-009	BFSK-392	VT-3	12/10/91	NRI
JAF-VT-010	BFSK-737	VT-3	12/10/91	NRI
JAF-VT-011	BFSK-936	VT-3	12/10/91	NRI
JAF-VT-018	BFSK-1064	VT-3	12/10/91	INR-002
JAF-VT-019	BFSK-1076	VT-3	12/10/91	INR-003
JAF-VT-020	BFSK-1077	VT-3	12/10/91	INR-001

NEW YORK POWER AUTHORITY

JAMES A. FITZPATRICK NUCLEAR POWER PLANT
DOCKET NO. 50-333

INSERVICE EXAMINATION CHECKLIST

SUMMER 1991 MAINTENANCE OUTAGE

INSERVICE EXAMINATION CHECKLIST

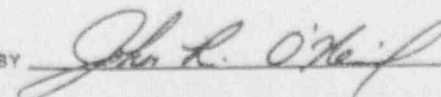
DATE June 18, 1991

JECT			SYSTEM IDENTIFICATION											
A. Fitzpatrick			Residual Heat Removal											
WELD OR ITEM IDENTIFICATION	EXAM CAT.	ITEM NO.	NUREG 0513	ISOMETRIC DRAWING NUMBER	NDE METHOD					PROCEDURE/S REQUIRED	CALIBRATION BLOCK REQUIRED	DATE COMPLETED	DATA REPORT NO.	
					UT	SURFACE		VT						
						PT	MT	1	3					4
14-10-990	B-J	B9.11	N/A	MSK-3013	A						UT-1	024	6/16/91	JAF-91MS-UT-01
					45°S						UT-1	024	6/16/91	JAF-91MS-UT-01A
					A						UT-1	024	6/16/91	JAF-91MS-UT-01B
					60°S						UT-1	024	6/16/91	JAF-91MS-UT-01C
24-10-991	C-F	C5.11	N/A	MSK-3006	C						UT-1	A00816	6/16/91	JAF-91MS-UT-01C
					45°S						UT-1	021	6/16/91	JAF-91MS-UT-02
					Thick & Lam						UT-1	021	6/16/91	JAF-91MS-UT-02A
					0°						UT-1	021	6/16/91	JAF-91MS-UT-02B
					A						UT-1	A00816	6/16/91	JAF-91MS-UT-01C
					45°S						UT-1	021	6/16/91	JAF-91MS-UT-02A
					A						UT-1	021	6/16/91	JAF-91MS-UT-02B
					60°S						UT-1	021	6/16/91	JAF-91MS-UT-02B
					C						UT-1	A00816	6/16/91	JAF-91MS-UT-01C
					45°S						UT-1	021	6/16/91	JAF-91MS-UT-02A
					Thick & Lam						UT-1	021	6/16/91	JAF-91MS-UT-02B
					0°						UT-1	021	6/16/91	JAF-91MS-UT-02B

MARKS: (REPORT DELAYS)

Welds 24-10-990, 24-10-991 examined for presservice baseline requirements due to 10-MOV-27A. Removal during Summer 1991 Maintenance Outage.

DATA VERIFIED BY



INSERVICE EXAMINATION CHECKLIST

DATE July 17, 1991

OBJECT J.A. Fitzpatrick - 1990 Summer Maintenance Outage				SYSTEM IDENTIFICATION Residual Heat Removal (RHR)											
WELD OR ITEM IDENTIFICATION	EXAM CAT.	ITEM NO.	NUREG 0313	ISOMETRIC DRAWING NUMBER	NDE METHOD						PRO- CEDURE/S REQUIRED	CALIBRA- TION BLOCK REQUIRED	DATE COMPLETED	DATA REPORT NO.	
					UT	SURFACE		VT							
						PT	MT	1	3	4					
24-10-997	B-J	89.11	N/A	MSK-3013	A						JAF-UT- W81-1 R1	24	7/15/91	JAF-UT-91MS-003	
					45s								7/15/91	JAF-UT-91MS-003A	
					C							24 + S/N 797082	7/15/91	JAF-UT-91MS-005	
24-10-98	C-F	C5.11	N/A	MSK-3006	0°LAM+ Thick- ness						JAF-UT- W81-1 R1	21	7/15/91	JAF-UT-91MS-004	
					A								7/15/91	JAF-UT-91MS-004A	
					45s							21 + S/N 797082	7/15/91	JAF-UT-91MS-005	

MARKS: (REPORT DELAYS)
Welds 24-10-997, 24-10-998 examined for preservice
baseline requirements due to 10-MOV-27B. Removal
during Summer 1991 Maintenance Outage.

DATA VERIFIED BY John R. O'Neil

NEW YORK POWER AUTHORITY

JAMES A. FITZPATRICK NUCLEAR POWER PLANT
DOCKET NO. 50-333

IN-VESSEL VISUAL INSPECTIONS

JET PUMP BEAM UT EXAMINATION

ACCESS HOLE COVER UT EXAMINATION

1992 REFUEL OUTAGE

**JAMES A. FITZPATRICK NUCLEAR POWER PLANT
INSERVICE INSPECTION OF IN-VESSEL COMPONENTS**

SPRING 1992 REPORT

EXAMINATION REPORT SUMMARY

The Spring 1992 In-Service Inspection of the James A. FitzPatrick Nuclear Power Plant Reactor Vessel Internals was performed by the General Electric Company, Nuclear Plant Services Department.

This inspection consisted of a visual inspection of selected internal components as specified by New York Power Authority (NYPA). The visual inspection was performed remotely using a Westinghouse underwater camera with straight and right angle lenses, Panasonic Tape Recorder, and Westinghouse Twin 50 light attachments. Details of the equipment utilized are noted on the Examination Data Sheets.

The cameral technique was hand held and controlled except for the core spray spargers, which was performed using the GE core spray sparger holding fixture.

The visual examinations were performed in accordance with New York Power Authority Procedure ISIP:2 and its applicable supplements. Guidance during the examination was provided by Mr. Richard Chau.

During the visual examination, two components revealed indications that were determined to be reportable. The first component was the 315 degree feedwater sparger which has four (4) damaged flow nozzles. The second component was the steam dryer support ring which revealed numerous fine cracklike indications around the circumference. Each of these areas is fully explained in the Examination Data Sheets.

Throughout the Visual Examination, a General Electric Underwater Resolution Fixture was used to ensure that visibility requirements were met. These Visual Standards were videotaped in the applicable examination area, under the same circumstances (lighting, lens, distance, etc.) with the same equipment as used for the examination of the component or area.

All Examiners were certified in accordance with SNT-TC-1A and IWA-2300 of ASME Section XI. The technicians who handled the camera and UT fixturing were BWR Refueling Specialists and were not certified to any inspection standard.

**JAMES A. FITZPATRICK NUCLEAR POWER PLANT
INSERVICE INSPECTION OF IN-VESSEL COMPONENTS**

SPRING 1992 REPORT

EXAMINATION REPORT SUMMARY
(continued)

Throughout the Visual Examination of the internals, a number of scratches, scrapes and scuff marks were noted by the GE Level III Evaluators. These indications are a common occurrence while performing these examinations. Any area that appeared to be suspicious was thoroughly evaluated and examined to the extent the evaluators were satisfied that the best lighting, angle and distance was used to evaluate the area.

NEW YORK POWER AUTHORITY
JAMES A. FITZPATRICK
NUCLEAR POWER PLANT

INVESSEL VISUAL INSPECTION
SUMMARY OF INSPECTIONS PERFORMED
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INTRODUCTION

GE NUCLEAR ENERGY WAS CONTRACTED BY NEW YORK POWER AUTHORITY TO PROVIDE REFUELING FLOOR SUPPORT DURING THE 1992 REFUELING OUTAGE AT JAMES A. FITZPATRICK NUCLEAR POWER PLANT. GE WAS ALSO CONTRACTED FOR THE PERFORMANCE OF THE VISUAL INSPECTION OF THE REACTOR PRESSURE VESSEL INTERNALS. THE INSPECTIONS WERE PERFORMED UNDER THE DIRECTION OF NEW YORK'S POWER AUTHORITY LEVEL III, UTILIZING FITZPATRICK'S INSPECTION PROCEDURE AND GE INSPECTION EQUIPMENT.

PERSONNEL:

THE FOLLOWING LIST IDENTIFIES THE CERTIFICATION LEVELS OF THE GE VISUAL EXAMINATION PERSONNEL INVOLVED WITH THE INVESSEL VISUAL INSPECTIONS:

<u>NAME</u>	<u>VISUAL LEVEL</u>
M.C. STAMM	LEVEL III
M.A. HEATH	LEVEL III
R.W. DRAZICH	LEVEL II
J. LIZARRAGO	LEVEL II
J. KEGEL	LEVEL II
D. THOMAS	LEVEL II

WORKSCOPE:

THE FOLLOWING IDENTIFIES THE INVESSEL VISUAL INSPECTION DURING THE 1992 REFUELING OUTAGE:



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INVESSEL VISUAL INSPECTION
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CORE SPRAY SPARGERS:

UPPER SPARGERS A AND C LOOKING AT THE SPARGERS, SPARGER WELDS INCLUDING TEE BOX WFLDS, NOZZLES, NOZZLE WELDS AND BRACKET (ATTACHMENT) WELDS.

LOWER SPARGERS B AND D LOOKING AT THE SPARGERS, SPARGER WELDS INCLUDING TEE BOX WELDS, NOZZLES, NOZZLE WELDS AND BRACKET (ATTACHMENT) WELDS.

JET PUMP #6 THRU #15 ASSEMBLIES:

BEAM BOLT LOCKING DEVICES

RISER BRACE

WEDGE ASSEMBLIES & RESTRAINER SET SCREWS

SLIP JOINT

SENSING LINES & WELDS (INSTRUMENT LINES)

ADAPTER AND DIFFUSER WELDS

A AND B CORE SPRAY PIPING

PIPING, BRACKETS, SPARGER WELDS INCLUDING TEE BOX WELDS.



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CRD NOZZLE

BLEND RADIUS

SURVEILLANCE SAMPLES 30 DEGREES, 120 DEGREES AND 300 DEGREES

SAMPLE HOLDERS AND ATTACHMENT WELDS

0 DEGREE GUIDE ROD

ROD AND BRACKETS

STEAM DRYER BRACKETS 40 DEGREES, 140 DEGREES, 230 DEGREES, AND 320 DEGREES

BRACKETS AND WELD

FEEDWATER SPARGERS 45 DEGREES AND 315 DEGREES

BRACKETS, NOZZLES, BLEND RADIUS, AND SPARGER
(4) FOUR BENT NOZZLES ON 315 DEGREES SPARGER, NO CHANGE FROM THE 1990
REFUELING OUTAGE.



NEW YORK POWER AUTHORITY
JAMES A. FITZPATRICK
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INVESSEL VISUAL INSPECTION
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TOP GUIDE HOLD DOWN BOLTS 0 DEGREES, 90 DEGREES, 180 DEGREES, AND 270 DEGREES

STEAM DRYER

UPPER RING (NUMEROUS LINEAR INDICATIONS)

LOWER VESSEL EXAMINATION

STUB TUBE TO VESSEL WELDS

STUB TUBE TO HOUSING WELDS

ICM HOUSING TO VESSEL WELDS

STABILIZERS

BOTTOM HEAD DRAIN



JAMES A. FITZPATRICK NUCLEAR POWER PLANT
IN-VESSEL IN-SERVICE VISUAL INSPECTION
TAPE LOG AND DATA SHEET
SPRING, 1982

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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-1	000-063	CAMERA RESOLUTION	.001" RESOLUTION
FITZ-92-1		A CORE SPRAY PIPING	
FITZ-92-1	063-400	WELD # 1, 2, & 3	NO RELEVANT INDICATION
FITZ-92-1	400-516	WELD # 4	NO RELEVANT INDICATION
FITZ-92-1	516-650	WELD # 5	NO RELEVANT INDICATION
FITZ-92-1	650-766	WELD # 6 & 7	NO RELEVANT INDICATION
FITZ-92-1	766-940	WELD # 8	NO RELEVANT INDICATION
FITZ-92-1	940-984	WELD # LS2	NO RELEVANT INDICATION
FITZ-92-1	984-1020	WELD # LS1	NO RELEVANT INDICATION
FITZ-92-1	1020-1147	WELD # 9	NO RELEVANT INDICATION
FITZ-92-1	1147-1360	BRACKET B-1	NO RELEVANT INDICATION
FITZ-92-1	1360-1445	WELD # 10 AND T-BOX	NO RELEVANT INDICATION
FITZ-92-1	1445-1577	WELD # 11 AND T-BOX	NO RELEVANT INDICATION
FITZ-92-1	1577-1682	WELD # 12 AND T-BOX	NO RELEVANT INDICATION
FITZ-92-1	1682-1927	BRACKET B-2	NO RELEVANT INDICATION
FITZ-92-1	1927-2025	WELD # 13	NO RELEVANT INDICATION
FITZ-92-1	2025-2073	WELD # LS3	NO RELEVANT INDICATION
FITZ-92-1	2073-2140	WELD # LS4	NO RELEVANT INDICATION
FITZ-92-1	2140-2330	WELD # 14	NO RELEVANT INDICATION
FITZ-92-1	2330-2420	WELD # 15	NO RELEVANT INDICATION



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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-1	2420-2490	WELD # 16	NO RELEVANT INDICATION
FITZ-92-1	2490-2580	WELD # 17	NO RELEVANT INDICATION
FITZ-92-1	2580-2690	WELD # 18	NO RELEVANT INDICATION
FITZ-92-1	2690-2786	WELD # 19 & 20	NO RELEVANT INDICATION
FITZ-92-1	2786-2905	WELD # 21	NO RELEVANT INDICATION
FITZ-92-1		B LOOP CORE SPRAY PIPING	
FITZ-92-1	2905-2968	WELD #1, LABELED # 22	NO RELEVANT INDICATION
FITZ-92-1	2968-3000	WELD #2 & 3, LABELED #20,21	NO RELEVANT INDICATION
FITZ-92-1	3000-3155	WELD #4, LABELED #19	NO RELEVANT INDICATION
FITZ-92-1	3155-3348	WELD #5, LABELED #18	NO RELEVANT INDICATION
FITZ-92-1	3348-3366	WELD #6, LABELED #17	NO RELEVANT INDICATION
FITZ-92-1	3366-3453	WELD #7, LABELED #16	NO RELEVANT INDICATION
FITZ-92-1	3453-3500	WELD #8, LABELED #15	NO RELEVANT INDICATION
FITZ-92-1	3500-3534	WELD #9, LABELED #14	NO RELEVANT INDICATION
FITZ-92-1	3534-3556	RESOLUTION CHECK	.001" RESOLUTION
FITZ-92-1	3556-3700	RE-LOOK AT WELD #1 THRU 8 LABELED CORRECTLY	NO RELEVANT INDICATION
FITZ-92-1	3700-3848	WELD # 8	NO RELEVANT INDICATION
FITZ-92-1	3848-3874	WELD # LS1	NO RELEVANT INDICATION
FITZ-92-1	3874-3908	WELD # LS2	NO RELEVANT INDICATION



JAMES A. FITZPATRICK NUCLEAR POWER PLANT
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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-1	3908-4030	WELD # 9	NO RELEVANT INDICATION
FITZ-92-1	4030-4240	BRACKET B-1	NO RELEVANT INDICATION
FITZ-92-1	4240-4395	WELD # 10 AND T-BOX	NO RELEVANT INDICATION
FITZ-92-1	4395-4490	WELD # 11 AND T-BOX	NO RELEVANT INDICATION
FITZ-92-1	4490-4795	WELD # 12 AND T-BOX	NO RELEVANT INDICATION
FITZ-92-1	4795-5072	BRACKET B-2	NO RELEVANT INDICATION
FITZ-92-1	5072-5384	WELD # 13	NO RELEVANT INDICATION
FITZ-92-1	5384-5429	WELD # LS3	NO RELEVANT INDICATION
FITZ-92-1	5429-5450	WELD # LS4	NO RELEVANT INDICATION
FITZ-92-1	5450-5540	WELD # 14	NO RELEVANT INDICATION
FITZ-92-1	5540-5560	WELD #15A, WELD SPLATTER	NO RELEVANT INDICATION
FITZ-92-1	5560-5760	WELD #15B, WELD SPLATTER	NO RELEVANT INDICATION
FITZ-92-1	5760-5800	WELD #16, PARTIAL	NO RELEVANT INDICATION
FITZ-92-2	0000-0079	RESOLUTION CHECK	.001" RESOLUTION
FITZ-92-2		B LOOP CORE SPRAY PIPING	
FITZ-92-2	0079-0217	WELD # 17	NO RELEVANT INDICATION
FITZ-92-2	0217-0400	WELD # 18	NO RELEVANT INDICATION
FITZ-92-2	0400-0713	WELD # 19	LINEAR INDICATION ACROSS WELD / REVIEW REQUIRED



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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-2	0713-0760	WELD # 20 & 21	NO RELEVANT INDICATION
FITZ-92-2	0760-0852	WELD # 22	NO RELEVANT INDICATION
FITZ-92-2	0852-1030	WELD # 20, 21 & 22	NO RELEVANT INDICATION
FITZ-92-2	1030-1050	RESOLUTION CHECK	.001" RESOLUTION
FITZ-92-2	1050-2063	0 DEGREES GUIDE ROD & BRACKETS	NO RELEVANT INDICATION
FITZ-92-2	2063-2328	40 DEGREES STEAM DRYER BRACKET	NO RELEVANT INDICATION
FITZ-92-2	2328-2516	140 DEGREES STEAM DRYER BRACKET	NO RELEVANT INDICATION
FITZ-92-2	2516-2770	230 DEGREES STEAM DRYER BRACKET	NO RELEVANT INDICATION
FITZ-92-2	2770-2930	320 DEGREES STEAM DRYER BRACKET	NO RELEVANT INDICATION
FITZ-92-2	2930-2940	RESOLUTION CHECK	.001" RESOLUTION
FITZ-92-2	2940-3370	45 DEGREES FEEDWATER SPARGER AND BRACKETS 5 DEGREES THRU 40 DEGREES	NO RELEVANT INDICATION
FITZ-92-2	3370-3690	45 DEGREES FEEDWATER SPARGER AND T-BOX/ BLEND RADIUS	NO RELEVANT INDICATION
FITZ-92-2	3690-4067	45 DEGREES FEEDWATER SPARGER AND BRACKETS 50 DEGREES THRU 85 DEGREES	NO RELEVANT INDICATION
FITZ-92-2	4067-4084	RESOLUTION CHECK	.001" RESOLUTION



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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-2	4084-4290	315 DEGREES FEEDWATER SPARGER (4) NOZZLES ONLY	4 BENT FLOW NOZZLES REVIEW REQUIRED
FITZ-92-2	4290-4500	30 DEGREES SURVEILLANCE SAMPLE	NO RELEVANT INDICATION
FITZ-92-2	4500-4630	120 DEGREES SURVEILLANCE SAMPLE	NO RELEVANT INDICATION
FITZ-92-2	4630-4728	300 DEGREES SURVEILLANCE SAMPLE	NO RELEVANT INDICATION
FITZ-92-2	4728-4773	0 DEGREE TOP GUIDE HOLD DOWN BOLTS	NO RELEVANT INDICATION
FITZ-92-2	4773-4812	90 DEGREES TOPE GUIDE HOLD DOWN BOLTS	NO RELEVANT INDICATION
FITZ-92-2	4812-4840	180 DEGREES TOP GUIDE HOLD DOWN BOLTS	NO RELEVANT INDICATION
FITZ-92-2	4840-4880	270 DEGREES TOP GUIDE HOLD DOWN BOLTS	NO RELEVANT INDICATION
FITZ-92-2	4880-4919	RESOLUTION CHECK	.001" RESOLUTION
FITZ-92-2	4919-5187	JET PUMP # 6/HOLD DOWN BEAM RISER BRACE	SCRATCHES ON RISER BRACE NO RELEVANT INDICATION
FITZ-92-2	5187-5419	JET PUMP # 6/SENSING LINE SHROUD SUPPORT WELD	NO RELEVANT INDICATION
FITZ-92-2	5419-5490	JET PUMP # 7/SENSING LINE	NO RELEVANT INDICATION
FITZ-92-2	5490-5773	JET PUMP # 7/ HOLD DOWN BEAM RISER BRACE	NO RELEVANT INDICATION
FITZ-92-3	0000-0070	RESOLUTION CHECK	.001" RESOLUTION



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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-3	0070-0300	JET PUMP #7 & 8 RISER BRACE	WELD SPLATTER NO RELEVANT INDICATION
FITZ-92-3	0300-0456	JET PUMP # 7	NO RELEVANT INDICATION
FITZ-92-3	0456-0633	JET PUMP # 8	NO RELEVANT INDICATION
FITZ-92-3	0633-0738	JET PUMP # 8/SENSING LINE	NO RELEVANT INDICATION
FITZ-92-3	0738-0900	JET PUMP # 9	NO RELEVANT INDICATION
FITZ-92-3	0900-1230	JET PUMP #9/RISER BRACE	NO RELEVANT INDICATION
FITZ-92-3	1230-1540	JET PUMP #9/SENSING LINE	NO RELEVANT INDICATION
FITZ-92-3	1540-1625	JET PUMP #9/SHROUD SUPPORT	NO RELEVANT INDICATION
FITZ-92-3	1625-1712	JET PUMP # 10	NO RELEVANT INDICATION
FITZ-92-3	1712-1775	JET PUMP # 9 & 10 RISER BRACE	DEGRIS ON UPPER BRACE NO RELEVANT INDICATION
FITZ-92-3	1775-2118	JET PUMP #10/RISER BRACE	NO RELEVANT INDICATION
FITZ-92-3	2118-2210	JET PUMP #10/SENSING LINE	NO RELEVANT INDICATION
FITZ-92-3	2210-2235	JET PUMP #10/SHROUD SUPPORT WELD	NO RELEVANT INDICATION
FITZ-92-3	2235-2327	JET PUMP # 11	NO RELEVANT INDICATION
FITZ-92-3	2327-2575	JET PUMP #11/RISER BRACE	NO RELEVANT INDICATION
FITZ-92-3	2575-2715	JET PUMP #11/SENSING LINE	NO RELEVANT INDICATION
FITZ-92-3	2715-2747	JET PUMP #11/ SHROUD SUPPORT WELD	NO RELEVANT INDICATION



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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-3	2747-2823	JET PUMP # 11 & 12 RISER BRACE	NO RELEVANT INDICATION
FITZ-92-3	2823-2850	JET PUMP # 12	NO RELEVANT INDICATION
FITZ-92-3	2850-3007	JET PUMP #12/RISER BRACE	DEBRIS ON BRACE NO RELEVANT INDICATION
FITZ-92-3	3007-3170	JET PUMP #12/SENSING LINE	NO RELEVANT INDICATION
FITZ-92-3	3170-3180	JET PUMP #12/SHROUD SUPPORT WELD	NO RELEVANT INDICATION
FITZ-92-3	3180-3190	RESOLUTION CHECK	.001" RESOLUTION
FITZ-92-3	3190-3302	JET PUMP # 13	NO RELEVANT INDICATION
FITZ-92-3	3302-3460	JET PUMP # 14	DEBRIS ON BEAM NO RELEVANT INDICATION
FITZ-92-3	3460-4116	JET PUMP # 13 & 14 RISER BRACE	NO RELEVANT INDICATION
FITZ-92-3	4116-4176	JET PUMP #13/SENSING LINE	NO RELEVANT INDICATION
FITZ-92-3	4176-4315	JET PUMP #14/SENSING LINE	NO RELEVANT INDICATION
FITZ-92-3	4315-4435	JET PUMP #15/SENSING LINE	MILLING CHIP ON SENSING LINE NO RELEVANT INDICATION
FITZ-92-3	4435-4515	JET PUMP # 14 & 15 SHROUD SUPPORT WELD	NO RELEVANT INDICATION
FITZ-92-3	4515-4680	JET PUMP #15/RISER BRACE	DEBRIS ON UPPER BRACE NO RELEVANT INDICATION
FITZ-92-3	4680-4740	JET PUMP # 15	NO RELEVANT INDICATION
FITZ-92-3	4740-4816	CRD NOZZLE	NO RELEVANT INDICATION



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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-4	0000-0070	RESOLUTION CHECK	.001" RESOLUTION
FITZ-92-4	0070-1276	UPPER DRYER SUPPORT RING 0 DEGREES TO 360 DEGREES	FINE CRACKING AT 35 DEGREES 90 DEGREES 150 DEGREES 185 DEGREES 225 DEGREES 230 DEGREES 315 DEGREES REVIEW REQUIRED
FITZ-92-4	1276-1915	UPPER DRYER SUPPORT RING 0 DEGREES TO 360 DEGREES LOOKING UP	NO RELEVANT INDICATIONS
FITZ-92-5	0000-0055	RESOLUTION CHECK	.001" RESOLUTION
FITZ-92-5	0055-1572	UPPER DRYER SUPPORT RING 0 DEGREES TO 360 DEGREES STRAIGHT ON VIEW	FINE CRACKING AT 40 DEGREES 45 DEGREES 150 DEGREES 220 DEGREES 315 DEGREES 350 DEGREES REVIEW REQUIRED
FITZ-92-5	1572-1689	MOISTURE SEPARATOR AT 0 DEGREES	NO RELEVANT INDICATION
FITZ-92-6	0000-0050	RESOLUTION CHECK	.001" RESOLUTION
FITZ-92-6		A LOOP CORE SPRAY PIPING	
FITZ-92-6	0050-0300	WELD # 1	NO RELEVANT INDICATION



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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-6	0300-0468	WELD # 2	NO RELEVANT INDICATION
FITZ-92-6	0468-0684	WELD # 3	UNDERCUT, TAPE COUNT 600 NO RELEVANT INDICATION
FITZ-92-6	0684-0788	WELD # 4	NO RELEVANT INDICATION
FITZ-92-6	0788-0898	WELD # 5	NO RELEVANT INDICATION
FITZ-92-6	0898-1006	WELD # 6	NO RELEVANT INDICATION
FITZ-92-6	1006-1030	WELD # 7	NO RELEVANT INDICATION
FITZ-92-6	1030-1270	WELD # 8	NO RELEVANT INDICATION
FITZ-92-6	1270-1398	WELD # 9	NO RELEVANT INDICATION
FITZ-92-6	1398-1447	WELD # LS2	NO RELEVANT INDICATION
FITZ-92-6	1447-1538	WELD # LS1	NO RELEVANT INDICATION
FITZ-92-6	1538-1723	BRACKET B-1	NO RELEVANT INDICATION
FITZ-92-6	1723-1999	WELD # 10 AND T-BOX	NO RELEVANT INDICATION
FITZ-92-6	1999-2124	WELD # 11 AND T-BOX	NO RELEVANT INDICATION
FITZ-92-6	2124-2376	WELD # 12 AND T-BOX	SCRATCHES ON VESSEL WALL, TAPE COUNT 2300. NO RELEVANT INDICATION
FITZ-92-6	2376-2576	BRACKET B-2	NO RELEVANT INDICATION
FITZ-92-6	2576-2788	WELD # 13	NO RELEVANT INDICATION
FITZ-92-6	2788-2898	WELD # LS3	NO RELEVANT INDICATION
FITZ-92-6	2898-2929	WELD # LS4	NO RELEVANT INDICATION



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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-6	2929-3006	WELD # 14	NO RELEVANT INDICATION
FITZ-92-6	3006-3080	WELD # 15	NO RELEVANT INDICATION
FITZ-92-6	3080-3166	WELD # 16	NO RELEVANT INDICATION
FITZ-92-6	3166-3270	WELD # 17	NO RELEVANT INDICATION
FITZ-92-6	3270-3375	WELD # 18	NO RELEVANT INDICATION
FITZ-92-6	3375-3475	WELD # 19 & 20	NO RELEVANT INDICATION
FITZ-92-6	3475-3530	WELD # 21	NO RELEVANT INDICATION
FITZ-92-6	3530-4412	A LOOP CORE SPRAY PIPING	NO RELEVANT INDICATION
FITZ-92-6	4412-4544	B LOOP CORE SPRAY PIPING RE-LOOK/SHADOW	NO RELEVANT INDICATION
FITZ-92-7	0000-0136	RESOLUTION CHECK	.001" RESOLUTION
FITZ-92-7		B LOOP CORE SPRAY PIPING	
FITZ-92-7	0136-0509	T-BOX	FABRICATION INDICATION AT 180 DEGREES NO RELEVANT INDICATION
FITZ-92-7	0509-0671	WELD # 12	NO RELEVANT INDICATION
FITZ-92-7	0671-0924	WELD # 10	RUB MARKS NO RELEVANT INDICATION
FITZ-92-7	0924-1670	A CORE SPARY SPARGER STARTING AT 270 DEGREES WORKING CW	RUB MARKS NO RELEVANT INDICATION
FITZ-92-7	1670-1776	BRACKET AT 300 DEGREES	NO RELEVANT INDICATION



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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-7	1776-2449	CORE SPRAY SPARGER	NO RELEVANT INDICATION
FITZ-92-7	2449-2460	BRACKET AT 335 DEGREES	NO RELEVANT INDICATION
FITZ-92-7	2460-2676	B CORE SPRAY SPARGER	NO RELEVANT INDICATION
FITZ-92-7	2676-2686	B T-BOX	NO RELEVANT INDICATION
FITZ-92-7	2686-2950	A & B CORE SPRAY SPARGER	NO RELEVANT INDICATION
FITZ-92-7	2950-3004	A T-BOX	NO RELEVANT INDICATION
FITZ-92-7	3004-3020	RESOLUTION CHECK	.001" RESOLUTION
FITZ-92-7	3020-3290	C & D CORE SPARY SPARGER STARTING AT 267 DEGREES WORKING CCW	NO RELEVANT INDICATION
FITZ-92-7	3290-3310	NOZZLE 50 D	UNDERCUT NO RELEVANT INDICATION
FITZ-92-7	3310-3406	NOZZLES 50, C & D	RUB MARKS NO RELEVANT INDICATION
FITZ-92-7	3406-3453	NOZZLES 49, C & D	NO RELEVANT INDICATION
FITZ-92-7	3453-3614	NOZZLES 48, C & D	NO RELEVANT INDICATION
FITZ-92-7	3614-3664	NOZZLES 47, C & D	NO RELEVANT INDICATION
FITZ-92-7	3664-3678	NOZZLES 46 & 45, C & D	NO RELEVANT INDICATION
FITZ-92-7	3678-3740	BRACKET AT 241 DEGREES	NO RELEVANT INDICATION
FITZ-92-7	3740-3800	NOZZLES 44 & 43, C & D	NO RELEVANT INDICATION
FITZ-92-7	3800-3850	NOZZLES 42 & 41, C & D	NO RELEVANT INDICATION
FITZ-92-7	3850-4016	NOZZLES 40 & 39, C & D	NO RELEVANT INDICATION



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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-7	4016-4080	BRACKET AT 200 DEGREES	NO RELEVANT INDICATION
FITZ-92-7	4080-4134	NOZZLES 38 & 35, C & D	NO RELEVANT INDICATION
FITZ-92-7	4134-4199	NOZZLES 34 & 33, C & D	NO RELEVANT INDICATION
FITZ-92-7	4199-4230	NOZZLES 32 & 31, C & D	RUB MARKS NO RELEVANT INDICATION
FITZ-92-7	4230-4278	NOZZLES 31 & 30, C & D	NO RELEVANT INDICATION
FITZ-92-7	4278-4340	D T-BOX	NO RELEVANT INDICATION
FITZ-92-7	4340-4401	NOZZLES 29 & 27, C & D	NO RELEVANT INDICATION
FITZ-92-7	4401-4490	NOZZLES 29 & 27, C & D	NO RELEVANT INDICATION
FITZ-92-7		C & D CORE SPRAY SPARGER	
FITZ-92-7	4490-4560	NOZZLES 27 & 26, C & D	NO RELEVANT INDICATION
FITZ-92-7	4560-4686	NOZZLES 26 & 25, C & D	NO RELEVANT INDICATION
FITZ-92-7	4686-4808	C T-BOX AT 170 DEGREES	RUB MARKS NO RELEVANT INDICATION
FITZ-92-7	4808-4876	NOZZLES 25 & 24, C & D	NO RELEVANT INDICATION
FITZ-92-7	4876-4954	NOZZLES 24 & 23, C & D	NO RELEVANT INDICATION
FITZ-92-7	4954-5003	NOZZLES 22 & 21, C & D	NO RELEVANT INDICATION
FITZ-92-7	5003-5045	NOZZLES 20 & 19, C & D	NO RELEVANT INDICATION
FITZ-92-7	5045-5080	NOZZLES 19 & 18, C & D	NO RELEVANT INDICATION
FITZ-92-7	5080-5093	BRACKET AT 145 DEGREES	NO RELEVANT INDICATION
FITZ-92-7	5093-5149	NOZZLES 18 & 17, C & D	NO RELEVANT INDICATION



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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-7	5149-5218	NOZZLES 16 & 15, C & D	NO RELEVANT INDICATION
FITZ-92-7	5218-5372	NOZZLES 15 & 14, C & D	UNDERCUT NO RELEVANT INDICATION
FITZ-92-7	5372-5418	NOZZLE 13, C & D	NO RELEVANT INDICATION
FITZ-92-7	5418-5472	NOZZLE 12, C & D	NO RELEVANT INDICATION
FITZ-92-7	5472-5536	NOZZLE 11 & 10, C & D	NO RELEVANT INDICATION
FITZ-92-7	5536-5590	BRACKET AT 119 DEGREES	NO RELEVANT INDICATION
FITZ-92-7	5590-5624	NOZZLE 9, C & D	NO RELEVANT INDICATION
FITZ-92-7	5624-5650	NOZZLE 8, C & D	NO RELEVANT INDICATION
FITZ-92-7	5650-5676	NOZZLE 7, C & D	NO RELEVANT INDICATION
FITZ-92-7	5676-5721	NOZZLE 6, C & D	NO RELEVANT INDICATION
FITZ-92-7	5721-5760	NOZZLE 5, C & D	NO RELEVANT INDICATION
FITZ-92-7	5760-5782	NOZZLE 4, C & D	NO RELEVANT INDICATION
FITZ-92-8		C & D CORE SPRAY SPARGER	
FITZ-92-8	0000-0030	TITLE/RESOLUTION CHECK	.001" RESOLUTION
FITZ-92-8	0030-0280	NOZZLE 4, C & D	NO RELEVANT INDICATION
FITZ-92-8	0280-0388	NOZZLE 3 & 4, C & D	NO RELEVANT INDICATION
FITZ-92-8	0388-0500	BRACKET AT 93 DEGREES	NO RELEVANT INDICATION
FITZ-92-8	0500-0540	NOZZLE 1 D	NO RELEVANT INDICATION
FITZ-92-8	0540-0586	NOZZLE 53 C	NO RELEVANT INDICATION



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FITZ-92-8	0586-0696	BRACKET AT 270 DEGREES	NO RELEVANT INDICATION
FITZ-92-8	0696-0828	NOZZLES 52 & 51, C & D	NO RELEVANT INDICATION
FITZ-92-8	0828-0900	NOZZLE 50, C & D	NO RELEVANT INDICATION
FITZ-92-8	0900-0940	NOZZLE 49, C & D	NO RELEVANT INDICATION
FITZ-92-8	0940-1040	NOZZLE 48, C & D	NO RELEVANT INDICATION
FITZ-92-8	1040-1135	NOZZLE 47, C & D	NO RELEVANT INDICATION
FITZ-92-8		C AND D CORE SPRAY SPARGER	
FITZ-92-8	1135-1205	NOZZLE 46, C & D	RUB MARKS NO RELEVANT INDICATION
FITZ-92-8	1205-1245	NOZZLE 45, C & D	NO RELEVANT INDICATION
FITZ-92-8	1245-1420	BRACKET AT 240 DEGREES	NO RELEVANT INDICATION
FITZ-92-8	1420-1480	NOZZLES 44 & 43, C & D	NO RELEVANT INDICATION
FITZ-92-8	1480-1517	NOZZLE 42, C & D	NO RELEVANT INDICATION
FITZ-92-8	1517-1560	NOZZLE 41, C & D	NO RELEVANT INDICATION
FITZ-92-8	1560-1595	NOZZLE 40, C & D	NO RELEVANT INDICATION
FITZ-92-8	1595-1658	NOZZLE 39, C & D	NO RELEVANT INDICATION
FITZ-92-8	1658-1725	NOZZLE 38, C & D	NO RELEVANT INDICATION
FITZ-92-8	1725-1783	NOZZLE 37, C & D	NO RELEVANT INDICATION
FITZ-92-8	1783-1819	NOZZLE 36, C & D	NO RELEVANT INDICATION
FITZ-92-8	1819-2016	BRACKET AT 210 DEGREES	NO RELEVANT INDICATION

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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-8	2016-2218	NOZZLES 35 & 34, C & D	RUB MARKS NO RELEVANT INDICATION
FITZ-92-8	2218-2286	NOZZLE 33, C & D	NO RELEVANT INDICATION
FITZ-92-8	2286-2316	NOZZLE 32, C & D	NO RELEVANT INDICATION
FITZ-92-8	2316-2335	NOZZLE 31, C & D	NO RELEVANT INDICATION
FITZ-92-8	2335-2360	NOZZLE 30, C & D	NO RELEVANT INDICATION
FITZ-92-8	2360-2378	NOZZLE 29, C & D	NO RELEVANT INDICATION
FITZ-92-8	2378-2484	C T-BOX AT 170 DEGREES	NO RELEVANT INDICATION
FITZ-92-8	2484-2526	NOZZLE 28, C & D	NO RELEVANT INDICATION
FITZ-92-8	2526-2536	RESOLUTION CHECK	001" RESOLUTION
FITZ-92-8	2536-2627	BRACKET AT 273 DEGREES	NO RELEVANT INDICATION
FITZ-92-8	2583-2600	NOZZLE 1, B	NO RELEVANT INDICATION
FITZ-92-8	2600-2650	NOZZLE 2, A & B	NO RELEVANT INDICATION
FITZ-92-8	2650-2672	NOZZLE 3, A & B	NO RELEVANT INDICATION
FITZ-92-8	2672-2706	NOZZLE 4, A & B	NO RELEVANT INDICATION
FITZ-92-8	2706-2730	NOZZLE 5, A & B	NO RELEVANT INDICATION
FITZ-92-8	2730-2780	NOZZLE 6, A & B	NO RELEVANT INDICATION
FITZ-92-8	2780-2838	NOZZLE 7, A & B	NO RELEVANT INDICATION

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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-8	2838-2874	NOZZLE 8, A & B	NO RELEVANT INDICATION
FITZ-92-8	2874-2909	NOZZLE 9, A & B	NO RELEVANT INDICATION
FITZ-92-8	2909-2993	BRACKET AT 300 DEGREES	NO RELEVANT INDICATION
FITZ-92-8	2993-3055	NOZZLE 10, A & B	NO RELEVANT INDICATION
FITZ-92-8	3055-3090	NOZZLE 11, A & B	NO RELEVANT INDICATION
FITZ-92-8	3090-3163	NOZZLE 12, A & B	NO RELEVANT INDICATION
FITZ-92-8	3163-3200	NOZZLE 13, A & B	NO RELEVANT INDICATION
FITZ-92-8	3200-3228	NOZZLE 14, A & B	NO RELEVANT INDICATION
FITZ-92-8	3228-3260	NOZZLE 15, A & B	NO RELEVANT INDICATION
FITZ-92-8	3260-3295	NOZZLE 16, A & B	NO RELEVANT INDICATION
FITZ-92-8	3295-3328	NOZZLE 17, A & B	NO RELEVANT INDICATION
FITZ-92-8	3328-3350	NOZZLE 18, A & B	NO RELEVANT INDICATION
FITZ-92-8	3350-3400	BRACKET AT 325 DEGREES	NO RELEVANT INDICATION
FITZ-92-8	3400-3425	NOZZLE 19, A & B	NO RELEVANT INDICATION
FITZ-92-8	3425-3450	NOZZLE 20, A & B	NO RELEVANT INDICATION
FITZ-92-8	3450-3490	NOZZLE 21, A & B	NO RELEVANT INDICATION
FITZ-92-8	3490-3519	NOZZLE 22, A & B	NO RELEVANT INDICATION

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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-8	3519-3540	NOZZLE 23, A & B	NO RELEVANT INDICATION
FITZ-92-8	3540-3575	NOZZLE 24, A & B	NO RELEVANT INDICATION
FITZ-92-8	3568-3590	NOZZLE 25, A & B	NO RELEVANT INDICATION
FITZ-92-8	3590-3660	B T-BOX AT 350 DEGREES	NO RELEVANT INDICATION
FITZ-92-8	3660-3690	NOZZLE 25, A & B	NO RELEVANT INDICATION
FITZ-92-8	3690-3715	NOZZLE 26, A & B	NO RELEVANT INDICATION
FITZ-92-8	3715-3756	NOZZLE 27, A & B	NO RELEVANT INDICATION
FITZ-92-8	3756-3778	NOZZLE 28, A & B	NO RELEVANT INDICATION
FITZ-92-8	3778-3794	NOZZLE 29, A & B	NO RELEVANT INDICATION
FITZ-92-8	3794-3840	A T-BOX AT 10 DEGREES	NO RELEVANT INDICATION
FITZ-92-8	3840-3860	NOZZLE 30, A & B	NO RELEVANT INDICATION
FITZ-92-8	3860-3900	NOZZLE 31, A & B	NO RELEVANT INDICATION
FITZ-92-8	3900-3920	NOZZLE 32, A & B	NO RELEVANT INDICATION
FITZ-92-8	3920-3935	NOZZLE 33, A & B	NO RELEVANT INDICATION
FITZ-92-8	3935-3960	NOZZLE 34, A & B	NO RELEVANT INDICATION
FITZ-92-8	3960-3975	NOZZLE 35, A & B	NO RELEVANT INDICATION
FITZ-92-8	3975-4050	BRACKET AT 30 DEGREES	NO RELEVANT INDICATION

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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-8	4050-4115	NOZZLE 36, A & B	NO RELEVANT INDICATION
FITZ-92-8	4115-4170	NOZZLE 37, A & B	NO RELEVANT INDICATION
FITZ-92-8	4170-4210	NOZZLE 38, A & B	NO RELEVANT INDICATION
FITZ-92-8	4210-3240	NOZZLE 39, A & B	NO RELEVANT INDICATION
FITZ-92-8	3240-4280	NOZZLE 40, A & B	NO RELEVANT INDICATION
FITZ-92-8	4280-4310	NOZZLE 41, A & B	NO RELEVANT INDICATION
FITZ-92-8	4310-4345	NOZZLE 42, A & B	NO RELEVANT INDICATION
FITZ-92-8	4345-4393	NOZZLE 43, A & B	NO RELEVANT INDICATION
FITZ-92-8	4393-4425	NOZZLE 44, A & B	NO RELEVANT INDICATION
FITZ-92-8	4425-4530	BRACKET AT 60 DEGREES	NO RELEVANT INDICATION
FITZ-92-8	4530-4564	NOZZLE 45, A & B	NO RELEVANT INDICATION
FITZ-92-8	4564-4616	NOZZLE 46, A & B	NO RELEVANT INDICATION
FITZ-92-8	4616-4660	NOZZLE 47, A & B	NO RELEVANT INDICATION
FITZ-92-8	4660-4690	NOZZLE 48, A & B	NO RELEVANT INDICATION
FITZ-92-8	4690-4720	NOZZLE 49, A & B	NO RELEVANT INDICATION
FITZ-92-8	4720-4770	NOZZLE 50, A & B	NO RELEVANT INDICATION
FITZ-92-8	4770-4805	NOZZLE 51, A & B	NO RELEVANT INDICATION

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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-8	4805-4870	NOZZLE 52, A & B	NO RELEVANT INDICATION
FITZ-92-8	4805-4915	BRACKET AT 88 DEGREES	NO RELEVANT INDICATION
FITZ-92-8	4890-4915	NOZZLE 53 A	NO RELEVANT INDICATION
FITZ-92-8	4915-4975	TOP GUIDE, 14-27, WEST	NO RELEVANT INDICATION
FITZ-92-8	4975-5015	TOP GUIDE, 14-27, NORTH	NO RELEVANT INDICATION
FITZ-92-8	5015-5075	TOP GUIDE, 14-27, EAST	NO RELEVANT INDICATION
FITZ-92-8	5075-5135	TOP GUIDE, 14-27, SOUTH	NO RELEVANT INDICATION
FITZ-92-8	5135-5195	TOP GUIDE, 26-23, SOUTH	NO RELEVANT INDICATION
FITZ-92-8	5195-5245	TOP GUIDE, 26-23, NORTH	NO RELEVANT INDICATION
FITZ-92-8	5245-5310	TOP GUIDE, 26-23, WEST	NO RELEVANT INDICATION
FITZ-92-8	5310-5388	TOP GUIDE, 26-23, EAST	NO RELEVANT INDICATION
FITZ-92-8	5388-5540	TOP GUIDE, 14-27, BOTTOM	NO RELEVANT INDICATION
FITZ-92-8	5540-5657	TOP GUIDE, 26-23, BOTTOM	NO RELEVANT INDICATION
FITZ-92-9	0000-0087	TITLE/RESOLUTION CHECK	001" RESOLUTION
FITZ-92-9	0087-0882	STUB TUBE TO VESSEL WELD 22-27	SCRATCH AND RUB MARKS DUE TO TOOLING REF. TAPE NO. Fitz-92-9 3158 to 3556

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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-9	0882-0952	18-27	NO RELEVANT INDICATION
FITZ-92-9	0952-1067	18-31	(DEBRIS) MAY BE A WING NUT / REVIEW REQUIRED
FITZ-92-9	1067-1129	22-31	MARKS IN THE OXIDE NO RELEVANT INDICATION
FITZ-92-9	1129-1190	26-31	MARKS IN THE OXIDE NO RELEVANT INDICATION
FITZ-92-9	1190-1278	26-27	NO RELEVANT INDICATION
FITZ-92-9	1278-1348	26-23	(DEBRIS) LOOKS LIKE SAND NO RELEVANT INDICATION
FITZ-92-9	1348-1409	22-23	MARKS IN THE OXIDE NO RELEVANT INDICATION
FITZ-92-9	1409-1474	18-23	NO RELEVANT INDICATION
FITZ-92-9		STUB TUBE TO HOUSING WELDS	
FITZ-92-9	1474-1600	22-27	RUB MARK IN THE OXIDE NO RELEVANT INDICATION
FITZ-92-9	1600-1630	18-27	NO RELEVANT INDICATION
FITZ-92-9	1630-1680	18-31	NO RELEVANT INDICATION
FITZ-92-9	1680-1720	22-31	NO RELEVANT INDICATION
FITZ-92-9	1720-1760	26-31	NO RELEVANT INDICATION

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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-9	1760-1790	26-27	RUB MARKS IN THE OXIDE NO RELEVANT INDICATION
FITZ-92-9	1790-1869	26-23	RUB MARKS IN THE OXIDE NO RELEVANT INDICATION
FITZ-92-9	1869-1910	22-23	NO RELEVANT INDICATION
FITZ-92-9	1910-1930	18-23	NO RELEVANT INDICATION
FITZ-92-9		ICM HOUSING TO VESSEL WELDS	
FITZ-92-9	1930-2133	20-25	STAIN MARKS NO RELEVANT INDICATION
FITZ-92-9	2133-2550	20-29	(DEBRIS) 2 1/2" LONG APPEARS TO BE METAL REF TAPE NO 10 REVIEW REQUIRED
FITZ-92-9	2550-2700	STABILIZER 20-29 AND HOUSING TO VESSEL WELD	RUB MARKS IN THE OXIDE NO RELEVANT INDICATION
FITZ-92-9	2700-2886	CORE PLATE 22-27	(DEBRIS) NO RELEVANT INDICATION
FITZ-92-9	2886-2989	STABILIZER 20-25 AND HOUSING TO VESSEL WELD	NO RELEVANT INDICATION
FITZ-92-9	2989-3101	BOTTOM HEAD DRAIN	NO RELEVANT INDICATION
FITZ-92-9	3101-3138	CENTER GUIDE TUBES	NO RELEVANT INDICATION

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TAPE NUMBER	TAPE COUNT	COMPONENT DESCRIPTION	RESULTS
FITZ-92-9	3138-3158	RESOLUTION CHECK	NO RELEVANT INDICATION
FITZ-92-9	3158-3556	ICM HOUSING TO VESSEL WELD AFTER BRUSHING	SCRATCHES
FITZ-92-9	3556-3569	RESOLUTION CHECK	NO RELEVANT INDICATION
FITZ-92-9	3569-3766	FUEL SUPPORT CASTING 22-27	NO RELEVANT INDICATION
FITZ-92-9	3766-3788	RESOLUTION CHECK	NO RELEVANT INDICATION
FITZ-92-9	3788-3864	GUIDE TUBE 22-27	NO RELEVANT INDICATION
FITZ-92-10	0000-1990	ICM 20-29	MOVING DEBRIS ON ICM HOUSING TO VESSEL WELD REVIEW REQUIRED
FITZ-92-11	00-140	TILE/RESOLUTION CHECK	NO RELEVANT INDICATION
FITZ-92-11		JET PUMP TACK WELDS AND LOCKING DEVICE	
	140-389	JET PUMP #01	NO RELEVANT INDICATION
FITZ-92-11	389-545	JET PUMP #02	NO RELEVANT INDICATION
FITZ-92-11	545-802	JET PUMP #03	NO RELEVANT INDICATION
FITZ-92-11	802-944	JET PUMP #04	NO RELEVANT INDICATION
FITZ-92-11	944-1104	JET PUMP #05	NO RELEVANT INDICATION
FITZ-92-11	1104-1260	JET PUMP #06	DEBRIS ON RAMS HEAD (1/4" TUNGSTON)

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FITZ-92-11	1260-1374	JET PUMP #07	NO RELEVANT INDICATION
FITZ-92-11	1374-1554	JET PUMP #08	NO RELEVANT INDICATION
FITZ-92-11	1554-1657	JET PUMP #09	NO RELEVANT INDICATION
FITZ-92-11	1657-1775	JET PUMP #10	NO RELEVANT INDICATION
FITZ-92-11	1775-1913	JET PUMP #11	NO RELEVANT INDICATION
FITZ-92-11	1913-2040	JET PUMP #12	NO RELEVANT INDICATION
FITZ-92-11		JET PUMP TACK WELDS, LOCKING DEVICE, AND RETAINER CUT	
	2040-2223	JET PUMP #13	NO RELEVANT INDICATION
FITZ-92-11	2223-2370	JET PUMP #14	NO RELEVANT INDICATION
FITZ-92-11	2370-2519	JET PUMP #15	NO RELEVANT INDICATION
FITZ-92-11	2519-2650	JET PUMP #16	NO RELEVANT INDICATION
FITZ-92-11	2650-2779	JET PUMP #17	NO RELEVANT INDICATION
FITZ-92-11	2779-2914	JET PUMP #18	NO RELEVANT INDICATION
FITZ-92-11	2914-3030	JET PUMP #19	GOUGE IN RETAINER
FITZ-92-11	3030-3122	JET PUMP #20	NO RELEVANT INDICATION
FITZ-92-11		JET PUMP RETAINER CUT	
	3122-3139	JET PUMP #01	NO RELEVANT INDICATION

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FITZ-92-11	3139-3158	JET PUMP #02	NO RELEVANT INDICATION
FITZ-92-11	3158-3176	JET PUMP #03	NO RELEVANT INDICATION
FITZ-92-11	3176-3197	JET PUMP #04	NO RELEVANT INDICATION
FITZ-92-11	3197-3217	JET PUMP #05	NO RELEVANT INDICATION
FITZ-92-11	3217-3246	JET PUMP #06	NO RELEVANT INDICATION
FITZ-92-11	3246-3262	JET PUMP #07	NO RELEVANT INDICATION
FITZ-92-11	3262-3269	JET PUMP #08	NO RELEVANT INDICATION
FITZ-92-11	3269-3281	JET PUMP #09	NO RELEVANT INDICATION
FITZ-92-11	3281-3297	JET PUMP #10	NO RELEVANT INDICATION
FITZ-92-11	3297-3305	JET PUMP #11	NO RELEVANT INDICATION
FITZ-92-11	3305-3314	JET PUMP #12	NO RELEVANT INDICATION



General Electric Company
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January 28, 1992

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Jack Clark, GE
John Lukas, GE
Robert Penny, NYPA
Paul Quinn, GE
Dave Richardson, GE

TO: Aturo Smith
ISI QA Level III
NYPA

FROM: M.G. Smith
GE

SUBJECT: ULTRASONIC EXAMINATION - JET PUMP BEAMS,
FITZPATRICK NUCLEAR POWER PLANT

SUMMARY

On Saturday, January 25, 1992 examination personnel from GE Nuclear Energy performed ultrasonic examinations on all twenty (20) jet pump hold down beams attached to the Fitzpatrick Reactor Pressure Vessel. Of the twenty (20) jet pump beams examined, one (1) exhibited indications of cracking.

INTRODUCTION

Cracking has been detected in jet pump hold down beams associated with boiling water reactors. This cracking originates in the ligament area (top thread) of the beam's top surface and is typically IGSCC in nature. In BWR 4's and above, the cracking cannot be seen by visual techniques because of a flat plate attached to the beam top surface. A remote ultrasonic technique and fixturing (patented) has been developed by GE Nuclear Energy, whereby the jet pump beam can be examined, in place, underwater, for indications of cracking.

DISCUSSION

The jet pump hold down beams are located on top of the jet pumps between the shroud and the pressure vessel wall. To examine the beams a special ultrasonic test fixture is lowered on poles from the refueling bridge and set down over the beam to be examined. This special ultrasonic fixture contains two sets of ultrasonic transducers that can be operated in pairs (through transmission) or individually (pulse echo) and can examine both sides of the beam without removal. In these examinations the examiner chose to remove the fixture from the beam after examination, rotate the fixture 180 degrees, place it back down on the beam again, thus examining the beam twice with a different set of transducers on each side of the beam.

This examination began on the first beam clockwise from vessel zero, looking down on the vessel, and proceeded clockwise until all twenty beams had been inspected. The data sheets herein presented number the beams according to GE Drawing # 197R564. (i.e., the first beam examined was #10, then #9, etc., and the final beam examined was #11).

After examining all twenty beams, the examiner reexamined beam #18.

PROCEDURE USED

GE-Nuclear Test Procedure TP508.0654 Rev. D "UT Examination, Jet Pump Beam, BWR 4's and Later".

EXAMINATION PERSONNEL

M.G. Smith, UT Level II Examiner

EQUIPMENT

1. Special UT fixture
2. Krautkramer USIP-II Ultrasonic Instrument
3. Ultran Focused (4 ea) PS50-2 Ultrasonic Transducers
4. Inconel Jet Pump Beam used as calibration reference containing a 0.100" deep calibration notch
5. 4 ea, 100 feet long, RG 174 ultrasonic cables
6. Water used as couplant


TEST RESULTS

Indications of cracking were detected in one (1) jet pump beam, #18.



M.G. Smith, UT Level II Examiner

Reviewed by:

 1-28-92

D.L. Richardson, Senior Engineer

UT Level III

Examination Technology

GE Nuclear Energy

/bn

Attachments



GE Nuclear Energy

EXAMINATION SUMMARY SHEET

REPORT NO.:

R-001

PROJECT: FITZPATRICK UNIT I 1CH74

PROCEDURE: GE-UT-211

REV. 2

PRR NO.

N/A

N/A

REV. N/A

PRR NO.

N/A

N/A

REV. N/A

PRR NO.

N/A

SYSTEM: RPV

WELD NO.: ACCESS HOLE COVER @ 0°

CONFIGURATION: COVER TO SHROUD LEDGE

EXAMINER: WES MONEY

LEVEL III

EXAMINER: N/A

LEVEL N/A

EXAMINER: N/A

LEVEL N/A

NDE METHOD:

☐ MT☐ PT☒ UT☐ VT

WELD TYPE:

☐ CIRCUMFERENTIAL☐ LONGITUDINAL☒ OTHER ACCESS HOLE COVER

CAL SHEET NO.(S) C-001, C-002, C-003, C-004

REPORT NO.(S)

R-001

DURING THE EXAMINATION OF THE ABOVE REFERENCED SHROUD ACCESS HOLE COVER WELD, NO INDICATIONS ASSOCIATED WITH IGSCC WERE RECORDED BY THE SMART 2000 SYSTEM UTILIZING BOTH 45° SHEAR WAVE AND 60° REFRACTED LONGITUDINAL WAVE SEARCH UNITS.

THE 45° SHEAR WAVE DID RECORD ROOT CONDITION GEOMETRY AND NON-RELEVANT INDICATIONS FROM BOTH THE COVER AND LEDGE SIDES OF THE WELD.

THE 60° REFRACTED LONGITUDINAL WAVE RECORDED SHEAR COMPONENT AND REDIRECTED SHEAR COMPONENT FROM THE LEDGE SIDE OF THE WELD AND NON-RELEVANT INDICATIONS FROM BOTH THE COVER AND LEDGE SIDES OF THE WELD.

THIS IS A PRE-EXISTING WELD, WITHOUT ANY KNOWN PRIOR NDE EXAMINATION DOCUMENTATION, THEREFORE THIS EXAMINATION WAS PERFORMED AS A BASELINE INSPECTION.

Stephen W. Stanley
SUMMARIZED BY

LEVEL II

DATE 1-29-92

Wes Money
REVIEWED

LEVEL III

DATE 1-29-92

Steve Smith
REVIEWED N/A

LEVEL III

DATE 1-30-92

PAGE 1 OF 1

FORM 161 3-6-90

ANIL - RM 7/6/92

NEW YORK POWER AUTHORITY

JAMES A. FITZPATRICK NUCLEAR POWER PLANT
DOCKET NO. 50-333

INSERVICE EXAMINATION CHECKLIST

SPRING 1991 MAINTENANCE OUTAGE

EBASCO SERVICES INCORPORATED

INSERVICE EXAMINATION CHECKLIST

DATE February 25, 1991

OBJECT

J.A. Fitzpatrick - 1991 Maintenance Outage

SYSTEM IDENTIFICATION

Reactor Recirculation

WELD OR ITEM IDENTIFICATION	EXAM CAT.	ITEM NO.	NUREG 0313	ISOMETRIC DRAWING NUMBER	NDE METHOD						PRO- CEDURE/S REQUIRED	CALIBRA- TION BLOCK REQUIRED	DATE COMPLETED	DATA REPORT NO	
					UT	SURFACE		VT							
						PT	MT	1	3	4					
I-02-2-53	B-J	B9.11	F	MSK-3001	60°s						UT-4 R3	28-A376-1.53	3/9/91	JAF-UT-001-91M	
					45°s						UT-4 R3	28-A376-1.53	3/9/91	JAF-UT-001A-91M	
					WSY-70						UT-5 R1 A1	28-A376-1.53	3/9/91	JAF-UT-001B-91M	
					SLIC40						UT-5 R1 A1	Sizing Blk RL-1, RL-2 RL-3, RL-4	3/9/91	JAF-UT-001C-91M	
					60°L						UT-5 R1 A1	Sizing Blk RL-1, RL-2 RL-3, RL-4	3/9/91	JAF-UT-001D-91M	
					60°s						UT-4 R3	28-A376-1.53	3/9/91	JAF-UT-001E-91M	
					60°L						ISIP-1 RO	Sizing Blk RL-1, RL-2 RL-3, RL-4	3/9/91	JAF-UT-001F-91M	
					WSY-70						ISIP-1 RO	28-A376-1.53	3/9/91	JAF-UT-001G-91M	

ARKS. (REPORT DELAYS)

MARKS. (REPORT DELAYS)

I-IGSCC End./Circ. & Sm. Fx. (L=.9", D=.4")
 CC Verification and Sizing of Previously Detected Indications
 performed at 84"ccw (12" Length, .37" Depth) and 12"ccw -
 "ccw (54" Length, .18" Depth).

DATA VERIFIED BY



INSERVICE EXAMINATION CHECKLIST

DATE February 25, 1991

PROJECT				SYSTEM IDENTIFICATION											
J.A. Fitzpatrick - 1991 Maintenance Outage				Reactor Recirculation											
WELD OR ITEM IDENTIFICATION	EXAM CAT.	ITEM NO.	NUREG 0313	ISOMETRIC DRAWING NUMBER	NDE METHOD						PRO- CEDURE/S REQUIRED	CALIBRA- TION BLOCK REQUIRED	DATE COMPLETED	DATA REPORT NO	
					UT	SURFACE		VT							
						PT	MT	1	3	4					
28-02-2-53 (Weld Overlay)	B-J	B9.11	F	MSK-3001	0°T (Base Mtrl)						UT-9 R2	SS-1/SS-2	3/10/91	JAF-UT-001H-91M	
					0°T (1st Layer)						UT-9 R2	SS-1/SS-2	3/11/91	JAF-UT-001I-91M	
					0°T (4th Layer)						UT-9 R2	SS-1/SS-2	3/12/91	JAF-UT-001J-91M	
					0°T (5th Layer)						UT-9 R2	SS-1/SS-2	3/13/91	JAF-UT-001K-91M	
					0°T (6th Layer)						UT-9 R2	SS-1/SS-2	3/13/91	JAF-UT-001L-91M	
					0°T (Final)						UT-9 R2	SS-1/SS-2	3/14/91	JAF-UT-001M-91M	
					0°T Lack of Bond						UT-6 R2	SS-304-22	3/14/91	JAF-UT-001N-91M	

REMARKS: (REPORT DELAYS)

LHSI-IGSCC Ind./Circ. & Sm. Fw. (L=.9", D=.4)
 Preservice Inspection consisted of a Lack of
 Bond Examination only.

DATA VERIFIED BY



INSERVICE EXAMINATION CHECKLIST

DATE February 25, 1991

PROJECT

J.A. Fitzpatrick Maintenance Outage - 1991

SYSTEM IDENTIFICATION

Reactor Recirculation

WELD OR ITEM IDENTIFICATION	EXAM CAT.	ITEM NO	NUREG 0313	ISOMETRIC DRAWING NUMBER	NDE METHOD						PRO- CEDURE/S REQUIRED	CALIBRA- TION BLOCK REQUIRED	DATE COMPLETED	DATA REPORT NO	
					UT	SURFACE		VT							
						PT	MT	1	3	4					
28-02-2-53 (Weld Overlay)	B-J	B9.11	F	MSK-3001		X					NDEP 9.1.1	N/A	3/10/91	N/A	
						X							3/11/91	N/A	
						X							3/14/91	N/A	
						X							3/14/91	N/A	
									X		NDEP 9.5	N/A	3/11/91	N/A	
								X		3/11/91			N/A		
								X		3/12/91			N/A		
								X		3/13/91			N/A		
								X		3/14/91			N/A		
								X		3/15/91			N/A		
								X		3/15/91			N/A		

REMARKS: (REPORT DELAYS)

Examinations performed by NYPA/QC.

DATA VERIFIED BY

Steve Smith

INSERVICE EXAMINATION CHECKLIST

DATE February 25, 1991

PROJECT					SYSTEM IDENTIFICATION										
J.A. Fitzpatrick Maintenance Outage - 1991					NYPA MISCELLANEOUS EXAMINATIONS (CORE SPRAY SYSTEM)										
WELD OR ITEM IDENTIFICATION	EXAM CAT.	ITEM NO.	NUREG 0313	ISOMETRIC DRAWING NUMBER	NDE METHOD						PRO- CEDURE/S REQUIRED	CALIBRA- TION BLOCK REQUIRED	DATE COMPLETED	DATA REPORT NO.	
					UT	SURFACE		VT							
						PT	MT	1	3	4					
(MOD D1-90-30) Reinforcing Pad	N/A	N/A	N/A	N/A		X					NDEP9.1-1	N/A	5/2/90	NRI	
Line#14 12"-W23-302-4B	N/A	N/A	N/A	N/A		X					NDEP9.1-1	N/A	3/28/90	NRI	
** 14-4B-NS-38 (PFSK-2561)	F-A	CLS2	N/A	N/A					X		NDEP9.5-2	N/A	12/14/90		
** 14-4B-AS-39 (PFSK-2557)	F-C	CLS2	N/A	N/A					X		NDEP9.5-2	N/A	1/14/91		
** 14-4B-NS-40 (PFSK-2024)	F-B	CLS2	N/A	N/A					X		NDEP9.5-2	N/A	1/15/91		

REMARKS: (REPORT DELAYS)

** These exams were performed per the Pipe Support Program (PSP).
Observations noted during the performance of these inspections have
been evaluated and/or reworked and deemed satisfactory for continued operation.

DATA VERIFIED BY

