

Exelon Nuclear
Limerick Generating Station
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T.S. 4.0.5

June 14, 2002

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

Limerick Generating Station, Unit 1
Facility Operating License Nos. NPF-39
NRC Docket Nos. 50-352

Subject:: LGS Unit 1 Summary Report for Inservice Inspections and ASME Section
XI Repairs and Replacement (1R09)

The LGS Unit 1 Summary Report for Inservice Inspections and ASME Section XI
Repairs and Replacements for the period April 29, 2000 to April 21, 2002 Report No. 9
is submitted in accordance with Unit 1 Technical Specifications section 4.0.5 and
10CFR50.55a(g).

If you have any questions or require additional information, please do not hesitate to
contact us.

Sincerely,



William Levis
Vice President- LGS

Attachment

cc: H. J. Miller, Administrator, Region I, USNRC
A. L. Burritt, LGS USNRC Senior Resident Inspector

A047

LIMERICK GENERATING STATION

UNIT 1

SUMMARY REPORT FOR THE

APRIL 29, 2000 TO APRIL 21, 2002

PERIODIC INSERVICE INSPECTION

REPORT No. 9

TABLE OF CONTENTS

		<u>Pages</u>
Form NIS-1	Owner's Report for Inservice Inspections	2
Introduction	Examination Period and Requirements	1
Section 1	Summary of Inservice Inspections, Results Prior To and During the Unit 1 9 th Refuel Cycle	24
	Summary of In-Vessel Visual Inspections, Results From the Unit 1 9 th Refuel Outage	14
Section 2	Summary of Reportable Conditions Observed During Inservice Inspection	1
	GE-NE-B13-01869-10, Rev. 0	25
	GE-NE-0000-0003-0247-1, Rev. 0	30
Section 3	Summary of ASME Section XI Repairs And Replacements	3
Form NIS-2	Owner's Report for Repairs and Replacements	130

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
As required by the Provisions of the ASME Code Rules

1. Owner Exelon Generation Company, LLC, 300 Exelon Way, Kennett Square, PA 19348
(Name and Address of Owner)

2. Plant Limerick Generating Station, P.O. Box 2300, Sanatoga, PA 19464-2300
(Name and Address of Plant)

3. Plant Unit 1 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date February 1, 1986 6. National Board Number for Unit 3908

7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Nuclear Reactor				
Vessel	Chicago Bridge & Iron Co.	T31	B116767	3908
Class 1, 2, & 3				
Piping Systems				
& Supports	*	*	*	*

* Traceability per Form N-5 Data Report, Design Specification and Line Number.

Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

This Form (E00029) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

FORM NIS-1 (Back)

8. Examination Dates April 29, 2000 to April 21, 2002 9. Inspection Interval from February 1, 1997 to February 1, 2006

10. Applicable Editions of Section XI 1989 Class 1, 2, and 3 / 1992 Containment w/ Addenda 1992

11. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.
SEE: Section 1, Summary of Inservice Inspection Results

12. Abstract of Conditions Noted.
SEE: Section 2, Summary of Reportable Conditions Observed

13. Abstract of Corrective Measures Recommended and Taken.
SEE: Section 3, Summary of ASME Section XI Repairs and Replacements

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.

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

Date June 13, 2002 Signed Exelon Generation Company, LLC By Michelle Crowley

Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, Connecticut have inspected the components described in this Owner's Report during the period April 29, 2000 to April 21, 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature] Commissions PA 2497 I.N&A, C
Inspector's Signature National Board, State, Province, and Endorsements

Date 13 JUNE 20 02

INTRODUCTION

During the period from April 29, 2000 to April 21, 2002, Inservice Inspections were performed at Limerick Generating Station Unit 1. Unit 1 was shutdown for a scheduled refuel outage during the period March 4th through March 21st, 2002. The inspections performed during this period were credited towards the second period of the second ten-year interval.

Examinations of Class 1, 2, and 3 components completed during this period were performed by Exelon Generation Company, LLC, and General Electric Company in accordance with the requirements of ASME Section XI, 1989 Edition. Risk-Informed Inservice Inspections were performed in accordance with Relief Request RR-32 for Class 1 and 2 piping welds during 1R09. Also, the examinations of Class MC and CC (Containment) components were completed in accordance with the requirements of ASME Section XI 1992 Edition with the 1992 Addenda.

Other examinations were performed, in addition to ASME Section XI, to meet numerous augmented inspection requirements. The augmented inspection requirements are as follows:

Generic Letter 88-01 Intergranular Stress Corrosion Cracking

NUREG-0619 BWR Feedwater Nozzle Cracking

NUREG-0800 No Break Boundaries

SIL 455 ISI of Alloy 182 Nozzle Weldments

FSAR Table 3.2-1 Non-Q RPV Internal Components

Tech Spec 3/4.7.4 Snubber Examination and Testing Program

BWRVIP-18 Core Spray Internals Inspection and Flaw Evaluation Guidelines

BWRVIP-41 Jet Pump Assembly

BWRVIP-42 BWR LPCI Coupling

BWRVIP-48 BWR Pressure Vessel ID Attachment Welds

SECTION 1

**SUMMARY OF INSERVICE INSPECTION RESULTS
PRIOR TO AND DURING THE 9TH REFUEL OUTAGE
LIMERICK GENERATING STATION
UNIT 1
APRIL 29, 2000 TO APRIL 21, 2002**

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments <u>Cal Block</u>
Li1/BB Shell Ring No. 1 Vertical Seam Weld	XI-RPV-1 03/06/2002	B-A B1.12	XI AUG	AUTO	99.8%	RI	600210	GE-UT-704V4 (2) ACCEPTABLE RECORDABLE INDICATIONS <u>STD. No. 1A</u>
Li1/BE Shell Ring No. 2 Vertical Seam Weld	XI-RPV-1 03/06/2002	B-A B1.12	XI AUG	AUTO	100%	RI	600270	GE-UT-704V4 (1) ACCEPTABLE RECORDABLE INDICATION <u>STD. No. 1A</u>
Li1/BF Shell Ring No. 2 Vertical Seam Weld	XI-RPV-1 03/06/2002	B-A B1.12	XI AUG	AUTO	85.9%	RI	600290	GE-UT-704V4 (2) ACCEPTABLE RECORDABLE INDICATIONS <u>STD. No. 1A</u>
Li1/BM Shell Ring No. 4 Vertical Seam Weld	XI-RPV-1 03/06/2002	B-A B1.12	XI AUG	AUTO	83.1%	RI	600390	GE-UT-704V4 (1) ACCEPTABLE RECORDABLE INDICATION <u>STD. No. 1A</u>
Li1/BN Shell Ring No. 5 Vertical Seam Weld	XI-RPV-1 03/06/2002	B-A B1.12	XI AUG	AUTO	91.5%	NRI	600410	GE-UT-704V4 <u>STD. No. 1A</u>
Li1/DA Bottom Head Weld	XI-RPV-1 03/08/2002	B-A B1.22	XI	UT	100%	NRI	600470	PDI-UT-6 REFERENCE RR-01 <u>STD. No. 2</u>
Li1/DB Bottom Head Weld	XI-RPV-1 03/08/2002	B-A B1.22	XI	UT	100%	RI	600480	PDI-UT-6 (1) RECORDABLE INDICATION. INDICATION SIZED UTILIZING PDI-UT- 7 AND FOUND TO BE ACCEPTABLE. REFERENCE RR-01. <u>STD. No. 2</u>
Li1/DC Bottom Head Weld	XI-RPV-1 03/08/2002	B-A B1.22	XI	UT	100%	NRI	600490	PDI-UT-6 REFERENCE RR-01 <u>STD. No. 2</u>
Li1/AF Shell Ring No. 5 to Flange Weld	XI-RPV-1 03/11/2002	B-A B1.30	XI	UT	99.1%	NRI	600170	GE-UT-300 PERFORMED EXAMINATION FROM 0 TO 180 DEGREES. REFERENCE RR- 01. <u>STD. No. 2</u>

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Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments <u>Cal Block</u>
Li1/N2B-IR Recirculation Inlet "B" Loop Nozzle Inside Radius Section	XI-RPV-1 03/09/2002	B-D B3.100	XI	AUTO	100%	NRI	600740	GE-UT-703 V4 ZONE 1 AND ZONE 2A EXAMINATIONS <u>LIM-2/STD. No. 1A</u>
Li1/N2C-IR Recirculation Inlet "B" Loop Nozzle Inside Radius Section	XI-RPV-1 03/08/2002	B-D B3.100	XI	AUTO	100%	NRI	600770	GE-UT-703 V4 ZONE 1 AND ZONE 2A EXAMINATIONS <u>LIM-2/STD. No. 1A</u>
Li1/N2E-IR Recirculation Inlet "B" Loop Nozzle Inside Radius Section	XI-RPV-1 03/08/2002	B-D B3.100	XI	AUTO	100%	NRI	600830	GE-UT-703 V4 ZONE 1 AND ZONE 2A EXAMINATIONS <u>LIM-2/STD. No. 1A</u>
Li1/N3A-IR Main Steam "A" Loop Nozzle Inside Radius Section	XI-RPV-1 03/10/2002	B-D B3.100	XI	AUTO	100%	NRI	601010	GE-UT-703 V4 ZONE 1 AND ZONE 2A EXAMINATIONS <u>LIM-2</u>
Li1/N3B-IR Main Steam "B" Loop Nozzle Inside Radius Section	XI-RPV-1 03/10/2002	B-D B3.100	XI	AUTO	100%	NRI	601040	GE-UT-703 V4 ZONE 1 AND ZONE 2A EXAMINATIONS <u>LIM-2</u>
Li1/N4A-IR Feedwater "A" Loop Nozzle Inside Radius Section	XI-RPV-1 03/10/2002	B-D B3.100	XI AUG	AUTO	100%	NRI	601130	GE-UT-703 V4 ZONE 1 AND ZONE 2A EXAMINATIONS <u>LIM-2/STD. No. 1A</u>
Li1/N2B Recirculation Inlet "B" Loop Nozzle to Vessel Weld	XI-RPV-1 03/08/2002	B-D B3.90	XI	AUTO	59.3%	RI	600730	GE-UT-702- V2 (2) ACCEPTABLE RECORDABLE INDICATIONS <u>STD. No. 1A</u>
Li1/N2C Recirculation Inlet "B" Loop Nozzle to Vessel Weld	XI-RPV-1 03/08/2002	B-D B3.90	XI	AUTO	51.9%	RI	600760	GE-UT-702 V2 (4) ACCEPTABLE RECORDABLE INDICATIONS <u>STD. No. 1A</u>

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments Cal Block
Li1/N2E Recirculation Inlet "B" Loop Nozzle to Vessel Weld	XI-RPV-1 03/07/2002	B-D B3.90	XI	AUTO	59.3%	NRI	600820	GE-UT-702 V2 <u>STD. No. 1A</u>
Li1/N3A Main Steam "A" Loop Nozzle to Vessel Weld	XI-RPV-1 03/06/2002	B-D B3.90	XI	AUTO	58.2%	RI	601000	GE-UT-702 V2 (4) ACCEPTABLE RECORDABLE INDICATIONS <u>STD. No. 1A</u>
Li1/N3B Main Steam "B" Loop Nozzle to Vessel Weld	XI-RPV-1 03/10/2002	B-D B3.90	XI	AUTO	58.2%	NRI	601030	GE-UT-702-V2 <u>STD. No. 1A</u>
Li1/N4A Feedwater "A" Loop Nozzle to Vessel Weld	XI-RPV-1 03/10/2002	B-D B3.90	XI	AUTO	68.8%	RI	601120	GE-UT-702 V2 (2) ACCEPTABLE RECORDABLE INDICATIONS <u>STD. No. 1A</u>
Li1/RPV CLOSURE HEAD NUTS Nuts SN 1 - SN 76 - Bolting > 2 IN. Dia.	XI-RPV-1 PG. 3 03/07/2002	B-G-1 B6.10	XI	UT	100%	NRI	602340	GE-UT-317 V0 EXAMINED SN#1 THRU 38 WITH UPGRADED NDE TECHNIQUE (UT) PER DEMONSTRATION. <u>8.5-6-8-CS-22-PEB</u>
RRA-P-C001A (STUDS) 16 Pump Casing Studs	XI-1P-201 03/08/2002	B-G-1 B6.180	XI	UT	100%	NRI	108350	PDI-UT-5 EXAMINED IN PLACE AND UNDER TENSION. <u>LIM-3.00-STUD-CS</u>
Li1/RPV CLOSURE STUDS IN PLACE Studs SN 1 - SN 76 - Bolting > 2 IN. DIA.	XI-RPV-1 PG. 3 03/05/2002	B-G-1 B6.20	XI	UT	100%	NRI	602350	PDI-UT-5 EXAMINED SN#1 - 17, #22 - 38. <u>CLOSURE STUD</u>
RRA-P-C001A (NUTS) 16 Pump Casing Nuts	XI-1P-201 03/07/2002	B-G-1 B6.200	XI	VT-1	100%	NRI	108352	MAG-CG-407 REV. 7 EXAMINED IN PLACE AND UNDER TENSION.
Li1/RPV CLOSURE STUDS WHEN REMOVED Studs SN 1 - SN 76 - Bolting > 2 IN. DIA.	XI-RPV-1 PG. 3 03/08/2002	B-G-1 B6.30	XI	MT UT	100% 100%	NRI	602360	PDI-UT-5 & GE-MT-100 EXAMINED SN# 18, 19, 20, 21. <u>CLOSURE STUD</u>

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments <u>Cal Block</u>
LI1/THREADED HOLES IN RPV FLANGE	XI-RPV-1 PG. 3	B-G-1	XI	UT	100%	NRI	602370	GE-UT-308
Holes SN1 - SN 76 - Bolting > 2 IN. Dia.	03/05/2002	B6.40						EXAMINED SN#1 THRU 38. STD. No. 2
LI1/RPV CLOSURE WASHERS	XI-RPV-1 PG. 3	B-G-1	XI	VT-1	100%	NRI	602380	MAG-CG-407 REV. 7
Washers SN 1 - SN 76 - Bolting > 2 IN. Diameter	03/07/2002	B6.50						EXAMINED SN#1 THRU 38.
LI1/INCORE HOUSING FLANGE BOLTING	XI-BE-5 PG. 1	B-G-2	XI	VT-1	100%	NRI	602420	MAG-CG-407 REV. 7
55 InCore Housing Flanges 4/FNG	03/12/2002	B7.10						EXAMINED ALL BOLTING FROM 180 TO 360 DEGREES. SPECIFIC CORE LOCATIONS ARE AS FOLLOWS: 08- 17, 08-25, 08-33, 08-41, 08-49, 16-09, 1 13, 16-17, 16-21, 16-25, 16-33, 16-41, 1 45, 16-49, 16-53, 16-57, 24-09, 24-17, 2 25, 24-29, 24-33, 24-37, 24-41, 24-49, AND 24-57.
03-02-M1	03-002	B-G-2	XI	VT-1	100%	NRI	103440	MAG-CG-407 REV. 7
Flange Bolting	03/08/2002	B7.50						EXAMINED IN PLACE AND UNDER TENSION
HV-51-1F017A (BOLTING)	01-001	B-G-2	XI	VT-1	100%	NRI	114770	MAG-CG-407 REV. 7
12" M.O. Gate Valve Internal Surfaces	03/16/2002	B7.70						16 STUDS AND NUTS EXAMINED.
HV-52-108 (BOLTING)	04-004	B-G-2	XI	VT-1	100%	NRI	100010	MAG-CG-407 REV. 7
12" A.O. Check Valve (Bolting)	11/13/2001	B7.70						EXAMINED IN PLACE AND UNDER TENSION.
HV-52-1F005 (BOLTING)	04-001	B-G-2	XI	VT-1	100%	NRI	100020	MAG-CG-407 REV. 7
12" M.O. Gate Valve Bonnet Bolting	11/13/2001	B7.70						EXAMINED IN PLACE AND UNDER TENSION.
HV-52-1F006A (BOLTING)	04-001	B-G-2	XI	VT-1	100%	NRI	100030	MAG-CG-407 REV. 7
12" Check Valve Bonnet and Bearing Cover Boltin	03/09/2002	B7.70						EXAMINED IN PLACE AND UNDER TENSION.

Limerick ISI Component Inspection Results Listing

Interval: 2
Period 2
Outage: 1R09

Unit 1

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments <u>Cal Block</u>
LI1/CRD HOUSING FLANGE BOLTING	XI-BE-5 PG. 1	B-G-2	XI	VT-1	100%	NRI	600000	MAG-CG-407 REV. 7
185 CRD Housing Flanges - 8 Cap Screws per Flange	03/10/2002	B7.80						EXAMINED BOLTS, STUDS, AND NUTS UPON DISASSEMBLY. SPECIFIC CORE LOCATIONS ARE AS FOLLOWS: 02-27, 06-31, 06-35, 06-47, 14-07, 18-19, 22-59, 26-39, 30-23, 30-35 30-51, 34-55, 38-39, 38-59, 42-11, 42-23 42-39, 46-07, 46-31, 50-31, 50-35, AND 58-43.
DCA-105-H002 (IA)	01-111	B-K	XI	PT	100%	NRI	118180	GE-PT-100
Pipe Support, 4 Lugs	03/12/2002	B10.20						
HV-51-1F017A (INT. SURF.)	01-001	B-M-2	XI	VT-3	100%	NRI	118890	MAG-CG-407 REV. 7
12" M.O. Gate Valve Bonnet Bolting	03/16/2002	B12.50						EXAMINED UPON DISASSEMBLY.
HV-51-1F050B (INT. SURF.)	01-004	B-M-2	XI	VT-3	100%	NRI	118990	MAG-CG-407 REV. 7
12" A.O. Check Valve Internal Surfaces	03/10/2002	B12.50						EXAMINED UPON DISASSEMBLY.
ST-4-041-950-1	ST-INDEX	B-P	XI	VT-2	100%	NRI		ST-4-041-950-1
ISI Pressure Test for all Class 1 Systems and some Class 2 Systems	03/18/2002	B15.10						
RHR-HXAR-3	XI-1E-205	C-A	XI	UT	100%	NRI	244751	PDI-UT-1
Shell Ring 2 to Shell Ring 1 Weld	03/09/2002	C1.10						<u>LIM-F-1.18-CS</u>
RHR-HXAR-4	XI-1E-205	C-A	XI	UT	100%	NRI	244761	PDI-UT-1
Shell Ring 1 to Flange Weld	03/09/2002	C1.10						<u>LIM-F-1.18-CS</u>
RHR-HXAR-N4	XI-1E-205	C-B	XI	UT	100%	NRI	244791	PDI-UT-1 & GE-MT-100
Nozzle to Shell 1 Weld	03/09/2002	C2.21		MT	100%	NRI		<u>LIM-F-1.18-CS</u>
RHR-HXAR-N4IR	XI-1E-205	C-B	XI	UT	100%	NRI	244801	GE-UT-311
Nozzle N4 Inner Radius	03/09/2002	C2.22						<u>LIM-RHR-HT-EX-IR</u>
RHR-HXAR-2-A (IA)	XI-1E-205	C-C	XI	MT	100%	NRI	260141	GE-MT-100
Heat Exchanger Support, Bot. Mtg. A	03/09/2002	C3.10						

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments Cal Block
RC-P-PS1 (IA) Pump Support, Structure	XI-10P-203 03/01/2002	C-C C3.30	XI	MT	100%	NRI	243980	GE-MT-100
CSA-P-E Elbow to Outlet Head Weld	XI-1P-206 03/02/2002	C-G C6.10	XI	MT	100%	NRI	228490	GE-MT-100
CSA-P-G Stuffing Box to Outlet Elbow Weld	XI-1P-206 03/02/2002	C-G C6.10	XI	MT	100%	NRI	228510	GE-MT-100
RC-P-SWD1 Outlet Nozzle to Casing Weld	XI-10P-203 03/01/2002	C-G C6.10	XI	MT	100%	NRI	241730	GE-MT-100
RC-P-SWS1 Inlet Nozzle to Casing Weld	XI-10P-203 03/01/2002	C-G C6.10	XI	MT	100%	NRI	241740	GE-MT-100
RHB-P-G Stuffing Box to Outlet Elbow Weld	XI-1P-202 02/22/2002	C-G C6.10	XI	MT	100%	NRI	245020	MAG-CG-403 REV. 6
ST-4-001-950-1 ISI Inservice Pressure Test of the Main Steam System	ST-INDEX 03/04/2002	C-H C7.30	XI	VT-2	100%	NRI		ST-4-001-950-1
ST-4-013-950-1 ISI Inservice Pressure Test of Class II RECW Piping	ST-INDEX 01/18/2001	C-H C7.30	XI	VT-2	100%	NRI		ST-4-013-950-1
ST-4-044-950-1 ISI Inservice Pressure Test of Reactor Water Clean-Up	ST-INDEX 03/18/2002	C-H C7.30	XI	VT-2	100%	NRI		ST-4-044-950-1
ST-4-047-952-1 ISI Pressure Test of East Bank of CRD HCU'S	ST-INDEX 06/28/2001	C-H C7.30	XI	VT-2	100%	NRI		ST-4-047-952-1
ST-4-047-953-1 ISI Pressure Test of West Bank of CRD HCU'S	ST-INDEX 06/28/2001	C-H C7.30	XI	VT-2	100%	NRI		ST-4-047-953-1

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
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Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments Cal Block
ST-4-048-950-1 ISI Functional Pressure Test of Standby Liquid Control Discharge Piping to Squib Valves	ST-INDEX 08/21/2001	C-H C7.30	XI	VT-2	100%	NRI		ST-4-048-950-1
ST-4-048-951-1 ISI Functional Pressure Test of Standby Liquid Control Piping Downstream of Squib Valves	ST-INDEX 03/17/2002	C-H C7.30	XI	VT-2	100%	NRI		ST-4-048-951-1
ST-4-048-952-1 ISI Inservice Pressure Test of Standby Liquid Control Suction Piping	ST-INDEX 08/21/2001	C-H C7.30	XI	VT-2	100%	NRI		ST-4-048-952-1
ST-4-049-950-1 ISI Functional Pressure Test of RCIC Pump Discharge and Turbine Exhaust	ST-INDEX 09/05/2001	C-H C7.30	XI	VT-2	100%	NRI		ST-4-049-950-1
ST-4-049-951-1 ISI Inservice Pressure Test of RCIC Pump and Turbine Supply	ST-INDEX 09/05/2001	C-H C7.30	XI	VT-2	100%	NRI		ST-4-049-951-1
ST-4-051-952-1 ISI Functional Pressure Test of RHR Loop B	ST-INDEX 02/08/2002	C-H C7.30	XI	VT-2	100%	NRI		ST-4-051-952-1
ST-4-051-953-1 ISI Functional Pressure Test of RHR Loop C	ST-INDEX 06/14/2001	C-H C7.30	XI	VT-2	100%	NRI		ST-4-051-953-1
ST-4-051-954-1 ISI Functional Pressure Test of RHR Loop D	ST-INDEX 06/29/2001	C-H C7.30	XI	VT-2	100%	NRI		ST-4-051-954-1
ST-4-051-955-1 ISI Inservice Pressure Test of RHR Shutdown Cooling	ST-INDEX 03/08/2002	C-H C7.30	XI	VT-2	100%	NRI		ST-4-051-955-1
ST-4-052-952-1 ISI Functional Pressure Test Class II Core Spray B and D Loops	ST-INDEX 01/09/2002	C-H C7.30	XI	VT-2	100%	NRI		ST-4-052-952-1

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
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Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments <u>Cal Block</u>
ST-4-055-950-1 ISI Functional Pressure Test of HPCI Pump Discharge and Turbine Exhaust	ST-INDEX 03/23/2001	C-H C7.30	XI	VT-2	100%	NRI		ST-4-055-950-1
ST-4-061-950-1 ISI Inservice Pressure Test of Liquid Radwaste Collection System	ST-INDEX 03/07/2002	C-H C7.30	XI	VT-2	100%	NRI		ST-4-061-950-1
ST-4-087-950-1 ISI Inservice Pressure Test of Class 2 Drywell Chilled Water System Components	ST-INDEX 11/07/2001	C-H C7.30	XI	VT-2	100%	NRI		ST-4-087-950-1
ST-4-042-951-1 ISI Inservice Pressure Test of Class 2 and 3 Instrument Tubing and Suppression Pool Cleanup Piping	ST-INDEX 03/18/2002	C-H, D-A C7.30, D1.10	XI	VT-2	100%	NRI		ST-4-042-951-1
ST-4-047-951-1 ISI Pressure Test of Class 2 SCRAM Discharge Volume Components	ST-INDEX 03/04/2002	C-H, D-A C7.30, D1.10	XI	VT-2	100%	NRI		ST-4-047-951-1
ST-4-057-951-1 A Post LOCA Recombiner Pneumatic Pressure Test and Contaminated Piping Inspection	ST-INDEX 03/15/2002	C-H, D-A C7.30, D1.10	XI	VT-2	100%	NRI		ST-4-057-951-1
ST-4-057-952-1 B Post LOCA Recombiner Pneumatic Pressure Test and Contaminated Piping Inspection	ST-INDEX 03/16/2002	C-H, D-A C7.30, D1.10	XI	VT-2	100%	NRI		ST-4-057-952-1
ST-4-059-955-1 Service Air & PCIG Drywell Piping Inservice Test	ST-INDEX 03/17/2002	C-H, D-A C7.30, D1.10	XI	VT-2	100%	NRI		ST-4-059-955-1

Limerick ISI Component Inspection Results Listing

Interval: 2
Period 2
Outage: 1R09

Unit 1

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments <u>Cal Block</u>
ST-4-020-961-1 D11 Diesel Fuel Oil Storage and Transfer System Buried Pipe and Storage Tank 1A-T527 Pressure Decay Test	ST-INDEX 10/01/2001	D-A D1.10	XI	VT-2	100%	NRI		ST-4-020-961-1
ST-4-020-962-1 D12 Diesel Fuel Oil Storage and Transfer System Buried Pipe and Storage Tank 1BT527 Pressure Decay Test	ST-INDEX 11/09/2001	D-A D1.10	XI	VT-2	100%	NRI		ST-4-020-962-1
ST-4-020-963-1 D13 Diesel Fuel Oil Storage and Transfer System Buried Pipe and Storage Tank 1CT527 Pressure Decay Test	ST-INDEX 11/15/2001	D-A D1.10	XI	VT-2	100%	NRI		ST-4-020-963-1
ST-4-041-951-1 ISI Pressure Test of Class 3 MSIV Accumulators and Pipe	ST-INDEX 03/14/2002	D-A D1.10	XI	VT-2	100%	NRI		ST-4-041-951-1
ST-4-041-960-1 'A' MSRV Discharge Pipe Pneumatic Test	ST-INDEX 03/08/2002	D-A D1.10	XI	VT-2	100%	NRI		ST-4-041-960-1
ST-4-041-961-1 "B" MSRV Discharge Pipe Pneumatic Test	ST-INDEX 03/08/2002	D-A D1.10	XI	VT-2	100%	NRI		ST-4-041-961-1
ST-4-041-963-1 'D' MSRV Discharge Pipe Pneumatic Test	ST-INDEX 03/11/2002	D-A D1.10	XI	VT-2	100%	NRI		ST-4-041-963-1
ST-4-041-964-1 "E" MSRV Discharge Pipe Pneumatic Test	ST-INDEX 03/09/2002	D-A D1.10	XI	VT-2	100%	NRI		ST-4-041-964-1
ST-4-041-965-1 'F' MSRV Discharge Pipe Pneumatic Test	ST-INDEX 03/09/2002	D-A D1.10	XI	VT-2	100%	NRI		ST-4-041-965-1
ST-4-041-966-1 'G' MSRV Discharge Pipe Pneumatic Test	ST-INDEX 03/08/2002	D-A D1.10	XI	VT-2	100%	NRI		ST-4-041-966-1

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments Cal Block
ST-4-041-967-1 'H' MSRV Discharge Pipe Pneumatic Test	ST-INDEX 03/07/2002	D-A D1.10	XI	VT-2	100%	NRI		ST-4-041-967-1
ST-4-041-968-1 'J' MSRV Discharge Pipe Pneumatic Test	ST-INDEX 03/07/2002	D-A D1.10	XI	VT-2	100%	NRI		ST-4-041-968-1
ST-4-041-971-1 'L' MSRV Discharge Pipe Pneumatic Test	ST-INDEX 03/11/2002	D-A D1.10	XI	VT-2	100%	NRI		ST-4-041-971-1
ST-4-041-972-1 'M' MSRV Discharge Pipe Pneumatic Test	ST-INDEX 03/10/2002	D-A D1.10	XI	VT-2	100%	NRI		ST-4-041-972-1
ST-4-041-973-1 'N' MSRV Discharge Pipe Pneumatic Test	ST-INDEX 03/11/2002	D-A D1.10	XI	VT-2	100%	NRI		ST-4-041-973-1
ST-4-041-974-1 'S' MSRV Discharge Pipe Pneumatic Test	ST-INDEX 03/10/2002	D-A D1.10	XI	VT-2	100%	NRI		ST-4-041-974-1
ST-4-059-953-1 PCIG Loop "A" Pressure Decay Test	ST-INDEX 03/12/2002	D-A D1.10	XI	VT-2	100%	NRI		ST-4-059-953-1
ST-4-059-954-1 PCIG Loop "B" Pressure Decay Test	ST-INDEX 03/10/2002	D-A D1.10	XI	VT-2	100%	NRI		ST-4-059-954-1
ST-4-092-961-1 ISI Pressure Test of the D11 Diesel (1AG501) Fuel and Diesel Oil Storage and Transfer Systems	ST-INDEX 10/30/2001	D-A D1.10	XI	VT-2	100%	NRI		ST-4-092-961-1
ST-4-092-962-1 ISI Pressure Test of the D12 Diesel (1BG501) Fuel and Diesel Oil Storage and Transfer Systems	ST-INDEX 02/06/2001	D-A D1.10	XI	VT-2	100%	NRI		ST-4-092-962-1

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments <u>Cal Block</u>
ST-4-092-963-1 ISI Pressure Test of the D13 Diesel (1CG501) Fuel and Diesel Oil Storage and Transfer Systems	ST-INDEX 11/13/2001	D-A D1.10	XI	VT-2	100%	NRI		ST-4-092-963-1
ST-4-092-964-1 ISI Pressure Test of the D14 Diesel (1DG501) Fuel and Diesel Oil Storage and Transfer Systems	ST-INDEX 06/26/2001	D-A D1.10	XI	VT-2	100%	NRI		ST-4-092-964-1
GBC-101-H200 (IA) Pipe Support, Sleeve	GBC-101-1 03/08/2002	D-A D1.20	XI	VT-1	100%	NRI	374330	MAG-CG-407 REV. 7
GBC-103-H003 (IA) Pipe Support, 12 Lugs	GBC-103-1 08/02/2001	D-A D1.20	XI	VT-1	100%	NRI	379640	MAG-CG-407 REV. 7
GBC-103-H004 (IA) Pipe Support, 4 Lugs	GBC-103-1 08/01/2001	D-A D1.20	XI	VT-1	100%	NRI	379650	MAG-CG-407 REV. 7
HBC-091-H170 (IA) Pipe Support, 2 Lugs	HBC-091-19 08/06/2001	D-A D1.20	XI	VT-1	100%	NRI	379750	MAG-CG-407 REV. 7
HBC-091-H174 (IA) Pipe Support, Sleeve	HBC-091-1 08/06/2001	D-A D1.20	XI	VT-1	100%	NRI	379760	MAG-CG-407 REV. 7
HBC-181-H005 (IA) Pipe Support, 16 Lugs	HBC-181-1 08/01/2001	D-A D1.20	XI	VT-1	100%	NRI	379790	MAG-CG-407 REV. 7
HBC-507-H077 (IA) Pipe Support, 8 Lugs	HBC-507-10 08/06/2001	D-A D1.20	XI	VT-1	100%	NRI	379890	MAG-CG-407 REV. 7
ST-4-011-951-0 ISI Functional Pressure Test of Emergency Service Water Loop A	ST-INDEX 01/29/2002	D-B D2.10	XI	VT-2	100%	NRI		ST-4-011-951-0
ST-4-011-953-0 ESW and RHRSW Loop A Buried Pipe Flow Test	ST-INDEX 10/10/2001	D-B D2.10	XI	VT-2	100%	NRI		ST-4-011-953-0
ST-4-011-955-0 ISI Functional Pressure Test of Emergency Service Water Pump C	ST-INDEX 02/07/2001	D-B D2.10	XI	VT-2	100%	NRI		ST-4-011-955-0

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments <u>Cal Block</u>
ST-4-011-956-0 ISI Functional Pressure Test of Emergency Service Water Pump D	ST-INDEX 01/23/2001	D-B D2.10	XI	VT-2	100%	NRI		ST-4-011-956-0
ST-4-012-951-0 ISI Functional Pressure Test of Residual Heat Removal Service Water Loop A	ST-INDEX 01/05/2001	D-B D2.10	XI	VT-2	100%	NRI		ST-4-012-951-0
ST-4-012-951-1 ISI Functional Pressure Test of 1B Residual Heat Removal Service Water HX	ST-INDEX 02/05/2001	D-B D2.10	XI	VT-2	100%	NRI		ST-4-012-951-1
ST-4-012-952-0 ISI Functional Pressure Test of Residual Heat Removal Service Water Loop B	ST-INDEX 02/05/2001	D-B D2.10	XI	VT-2	100%	NRI		ST-4-012-952-0
ST-4-012-955-0 ISI Functional Pressure Test of Residual Heat Removal Service Water Pump A	ST-INDEX 01/05/2001	D-B D2.10	XI	VT-2	100%	NRI		ST-4-012-955-0
ST-4-012-956-0 ISI Functional Pressure Test of Residual Heat Removal Service Water Pump B	ST-INDEX 02/05/2001	D-B D2.10	XI	VT-2	100%	NRI		ST-4-012-956-0
ST-4-012-957-0 ISI Functional Pressure Test of Residual Heat Removal Service Water Pump C	ST-INDEX 01/05/2001	D-B D2.10	XI	VT-2	100%	NRI		ST-4-012-957-0
ST-4-012-958-0 ISI Functional Pressure Test of Residual Heat Removal Service Water Pump D	ST-INDEX 02/05/2001	D-B D2.10	XI	VT-2	100%	NRI		ST-4-012-958-0
ST-4-012-962-0 ISI Pressure Test of Residual Heat Removal Service Water "C" Spray Network	ST-INDEX 10/24/2001	D-B D2.10	XI	VT-2	100%	NRI		ST-4-012-962-0

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments Cal Block
ST-4-012-963-0 ISI Pressure Test of Residual Heat Removal Service Water "D" Spray Network	ST-INDEX 08/11/2001	D-B D2.10	XI	VT-2	100%	NRI		ST-4-012-963-0
ST-4-090-950-0 ISI Inservice Pressure Test of Control Structure Chilled Water Loop "A"	ST-INDEX 01/16/2001	D-B D2.10	XI	VT-2	100%	NRI		ST-4-090-950-0
ST-4-090-951-0 ISI Inservice Pressure Test of Control Structure Chilled Water Loop "B"	ST-INDEX 09/07/2001	D-B D2.10	XI	VT-2	100%	NRI		ST-4-090-951-0
ST-4-053-951-1 ISI Inservice Pressure Test of the Fuel Pool Cooling System	ST-INDEX 03/21/2002	D-C D3.10	XI	VT-2	100%	NRI		ST-4-053-951-1
10S199-DS Diaphragm Slab	C-0294 03/11/2002	E-A E1.11	XI	VT-3	100%	NRI	902100	MAG-CG-425 REV. 4
10S199-DS-IA Diaphragm Slab - Integral Attachment	C-0284 03/11/2002	E-A E1.11	XI	VT-3	100%	NRI	900060	MAG-CG-425 REV. 4 PARTIALLY ENCASED IN CONCRETE.
10S199-DWH Drywell Head	C-0290 03/05/2002	E-A E1.11	XI	VT-3	100%	NRI	900020	MAG-CG-425 REV. 4
10S199-DWH-LF Drywell Head - Lower Flange	C-0290 03/05/2002	E-A E1.11	XI	VT-3	100%	NRI	900030	MAG-CG-425 REV. 4
10S199-DWH-LFSP Drywell Head - Lower Flange Seal Plate	C-0290 03/05/2002	E-A E1.11	XI	VT-3	100%	NRI	900040	MAG-CG-425 REV. 4
10S199-DWL Drywell Liner	C-0276 03/11/2002	E-A E1.11	XI	VT-3	100%	NRI	900000	MAG-CG-425 REV. 4
10S199-PEN All Penetrations of Containment	C-0287 03/11/2002	E-A E1.11	XI	VT-3	100%	NRI	902530	MAG-CG-425 REV. 4
10S199-RP-IA RPV Pedestal - Integral Attachment	C-0281 03/11/2002	E-A E1.11	XI	VT-3	100%	NRI	900362	MAG-CG-425 REV. 4 PARTIALLY ENCASED IN CONCRETE.

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments Cal Block
10S199-RP-VS RPV Pedestal - Vapor Space	C-0296 03/10/2002	E-A E1.11	XI	VT-3	100%	NRI	902120	MAG-CG-425 REV. 4 EXTERIOR PEDESTAL LINER ONLY.
10S199-SPL-VS Suppression Pool Liner - Vapor Space	C-0247 03/10/2002	E-A E1.11	XI	VT-3	100%	NRI	900010	MAG-CG-425 REV. 4
10S199-ST-IA Seismic Truss - Integral Attachment	C-0286 03/11/2002	E-A E1.11	XI	VT-3	100%	NRI	900050	MAG-CG-425 REV. 4
APE-1MS-HHB1 Variable Support	03-101 03/06/2002	F-A F1.10	XI	VT-3	100%	NRI	104360	MAG-CG-407 REV. 7
APE-1MS-HHC1 Variable Support	03-104 03/06/2002	F-A F1.10	XI	VT-3	100%	NRI	104770	MAG-CG-407 REV. 7
DCA-101-H006 Rigid Restraint	08-102 03/15/2002	F-A F1.10	XI	VT-3	100%	NRI	112560	MAG-CG-407 REV. 7
DCA-101-H007 Rigid Restraint	08-102 03/15/2002	F-A F1.10	XI	VT-3	100%	NRI	112570	MAG-CG-407 REV. 7
DCA-105-H002 Variable Support	01-111 03/07/2002	F-A F1.10	XI	VT-3	100%	NRI	118010	MAG-CG-407 REV. 7
DCA-185-E01-H001 Variable Support	07-104 03/07/2002	F-A F1.10	XI	VT-3	100%	NRI	111230	MAG-CG-407 REV. 7
DCA-185-E01-H004 Rigid Restraint	07-104 03/07/2002	F-A F1.10	XI	VT-3	100%	NRI	111260	MAG-CG-407 REV. 7
DCA-185-E01-H005 Variable Support	07-104 03/07/2002	F-A F1.10	XI	VT-3	100%	NRI	111270	MAG-CG-407 REV. 7
DCA-185-E01-H007 Rigid Restraint	07-104 03/07/2002	F-A F1.10	XI	VT-3	100%	NRI	111290	MAG-CG-407 REV. 7
DCA-320-H002 Mechanical Snubber	04-101 03/09/2002	F-A F1.10	XI	VT-3	100%	NRI	100490	MAG-CG-407 REV. 7
DCA-320-H004 Variable Support	04-101 03/09/2002	F-A F1.10	XI	VT-3	100%	NRI	100510	MAG-CG-407 REV. 7
DLA-107-H003 Variable Support	05-101 03/08/2002	F-A F1.10	XI	VT-3	100%	NRI	101370	MAG-CG-407 REV. 7

Limerick ISI Component Inspection Results Listing Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments Cal Block
DLA-107-H004 Variable Support	05-101 03/08/2002	F-A F1.10	XI	VT-3	100%	NRI	101380	MAG-CG-407 REV. 7
DLA-108-H003 Variable Support	05-103 03/14/2002	F-A F1.10	XI	VT-3	100%	NRI	102070	MAG-CG-407 REV. 7
DLA-108-H004 Variable Support	05-103 03/07/2002	F-A F1.10	XI	VT-3	100%	NRI	102080	MAG-CG-407 REV. 7
DLA-108-H005 Variable Support	05-103 03/07/2002	F-A F1.10	XI	VT-3	100%	NRI	102090	MAG-CG-407 REV. 7
DBB-103-H004 Rigid Restraint	05-102 03/11/2002	F-A F1.20	XI	VT-3	100%	NRI	233330	MAG-CG-407 REV. 7
EBB-101-H007 Rigid Restraint	03-105 03/09/2002	F-A F1.20	XI	VT-3	100%	NRI	239220	MAG-CG-407 REV. 7
EBB-101-H008 Rigid Restraint	03-105 03/09/2002	F-A F1.20	XI	VT-3	100%	NRI	239230	MAG-CG-407 REV. 7
EBB-101-H016 Rigid Restraint	03-105 03/09/2002	F-A F1.20	XI	VT-3	100%	NRI	239310	MAG-CG-407 REV. 7
EBB-101-H017 Rigid Restraint	03-105 03/09/2002	F-A F1.20	XI	VT-3	100%	NRI	239320	MAG-CG-407 REV. 7
EBB-142-SH-E04 Rigid Restraint	09-101 07/31/2001	F-A F1.20	XI	VT-3	100%	NRI	227600	MAG-CG-407 REV. 7
GBB-101-H016 Rigid Restraint	01-103 08/01/2001	F-A F1.20	XI	VT-3	100%	NRI	248090	MAG-CG-407 REV. 6
GBB-102-H008 Mechanical Snubbers (A & B)	01-103A 03/08/2002	F-A F1.20	XI	VT-3	100%	NRI	248160	MAG-CG-407 REV. 7
GBB-102-H009 Variable Support	01-103A 07/30/2001	F-A F1.20	XI	VT-3	100%	NRI	248170	MAG-CG-407 REV. 6
GBB-105-H001 Variable Support	01-102 03/09/2002	F-A F1.20	XI	VT-3	100%	NRI	248310	MAG-CG-407 REV. 7
GBB-107-H028 Mechanical Snubber	01-102 07/31/2001	F-A F1.20	XI	VT-3	100%	NRI	248650	MAG-CG-407 REV. 6

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments <u>Cal Block</u>
GBB-111-H004 Rigid Restraint	01-117 07/31/2001	F-A F1.20	XI	VT-3	100%	NRI	258670	MAG-CG-407 REV. 6
GBB-111-H005 Rigid Restraint	01-117 07/31/2001	F-A F1.20	XI	VT-3	100%	NRI	258680	MAG-CG-407 REV. 6
GBB-112-H001 Rigid Restraint	04-106 08/01/2001	F-A F1.20	XI	VT-3	100%	NRI	231640	MAG-CG-407 REV. 6
GBB-112-H002 Rigid Restraint	04-106 08/01/2001	F-A F1.20	XI	VT-3	100%	NRI	231650	MAG-CG-407 REV. 6
GBB-112-H901 Anchor	04-105 07/31/2001	F-A F1.20	XI	VT-3	100%	NRI	231940	MAG-CG-407 REV. 6
GBB-118-H001 Rigid Restraint	01-103 07/30/2001	F-A F1.20	XI	VT-3	100%	NRI	248850	MAG-CG-407 REV. 6
GBB-118-H017 Variable Support	01-103 07/30/2001	F-A F1.20	XI	VT-3	100%	NRI	248900	MAG-CG-407 REV. 6
GBB-119-H016 Variable Support	01-110 08/02/2001	F-A F1.20	XI	VT-3	100%	NRI	256870	MAG-CG-406 REV. 6
GBB-119-H032 Variable Support	01-109 07/30/2001	F-A F1.20	XI	VT-3	100%	NRI	257000	MAG-CG-407 REV. 6
HBB-117-H011 Mechanical Snubber	01-110 08/02/2001	F-A F1.20	XI	VT-3	100%	NRI	257270	MAG-CG-407 REV. 6
HBB-118-H057 Rigid Restraint	01-112 07/31/2001	F-A F1.20	XI	VT-3	100%	NRI	258990	MAG-CG-407 REV. 6
HBB-120-H008 Rigid Restraint	04-107 08/01/2001	F-A F1.20	XI	VT-3	100%	NRI	232000	MAG-CG-407 REV. 6
HBB-120-H009 Rigid Restraint	04-107 08/01/2001	F-A F1.20	XI	VT-3	100%	NRI	232010	MAG-CG-407 REV. 6
GBC-101-H028 Variable Support	GBC-101-013 03/07/2002	F-A F1.30	XI	VT-3	100%	NRI	373310	MAG-CG-407 REV. 7
GBC-101-H036 Variable Support	GBC-101-2 03/07/2002	F-A F1.30	XI	VT-3	100%	NRI	373380	MAG-CG-407 REV. 7

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments <u>Cal Block</u>
GBC-101-H200 Variable Support	GBC-101-1 03/08/2002	F-A F1.30	XI	VT-3	100%	NRI	373810	MAG-CG-407 REV. 7
GBC-102-H007 Rigid Restraint	GBC-102-1 08/02/2001	F-A F1.30	XI	VT-3	100%	NRI	375340	MAG-CG-407 REV. 6
GBC-102-H008 Rigid Restraint	GBC-102-1 08/02/2001	F-A F1.30	XI	VT-3	100%	NRI	375350	MAG-CG-407 REV. 6
GBC-102-H009 Mechanical Snubber	GBC-102-1 08/02/2001	F-A F1.30	XI	VT-3	100%	NRI	375360	MAG-CG-407 REV. 6
GBC-103-H003 Rigid Restraint	GBC-103-1 08/02/2001	F-A F1.30	XI	VT-3	100%	NRI	375390	MAG-CG-407 REV. 6
GBC-103-H004 Rigid Restraint	GBC-103-1 08/01/2001	F-A F1.30	XI	VT-3	100%	NRI	375400	MAG-CG-407 REV. 6
GBC-110-H002 Rigid Restraint	GBC-110-1 08/02/2001	F-A F1.30	XI	VT-3	100%	NRI	376590	MAG-CG-407 REV. 6
HBC-081-H019 Variable Support	HBC-081-2 08/06/2001	F-A F1.30	XI	VT-3	100%	NRI	364930	MAG-CG-407 REV. 6
HBC-081-H020 Rigid Restraint	HBC-081-2 08/06/2001	F-A F1.30	XI	VT-3	100%	NRI	364940	MAG-CG-407 REV. 6
HBC-091-H163 Rigid Restraint	HBC-091-2 08/06/2001	F-A F1.30	XI	VT-3	100%	NRI	379420	MAG-CG-407 REV. 6
HBC-091-H170 Rigid Restraint	HBC-091-19 08/06/2001	F-A F1.30	XI	VT-3	100%	NRI	376230	MAG-CG-407 REV. 6
HBC-138-H006 Rigid Restraint	HBC-138-1 08/01/2001	F-A F1.30	XI	VT-3	100%	NRI	365270	MAG-CG-407 REV. 6
HBC-138-H018 Rigid Restraint	HBC-138-3 07/31/2001	F-A F1.30	XI	VT-3	100%	NRI	365410	MAG-CG-407 REV. 6
HBC-138-H021 Rigid Restraint	HBC-138-3 07/31/2001	F-A F1.30	XI	VT-3	100%	NRI	365440	MAG-CG-407 REV. 6
HBC-138-H023 Rigid Restraint	HBC-138-2 07/31/2001	F-A F1.30	XI	VT-3	100%	NRI	365460	MAG-CG-407 REV. 6

Limerick ISI Component Inspection Results Listing

Interval: 2
 Period 2
 Outage: 1R09

Unit 1

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments Cal Block
HBC-138-H025 Rigid Restraint	HBC-138-1 08/01/2001	F-A F1.30	XI	VT-3	100%	NRI	365480	MAG-CG-407 REV. 6
HBC-143-H018 Rigid Restraint	HBC-143-3 07/31/2001	F-A F1.30	XI	VT-3	100%	NRI	367240	MAG-CG-407 REV. 6
HBC-143-H019 Rigid Restraint	HBC-143-3 07/31/2001	F-A F1.30	XI	VT-3	100%	NRI	367250	MAG-CG-407 REV. 6
HBC-143-H020 Rigid Restraint	HBC-143-3 07/31/2001	F-A F1.30	XI	VT-3	100%	NRI	367260	MAG-CG-407 REV. 6
HBC-181-H005 Mechanical Snubbers (A & B)	HBC-181-1 08/01/2001	F-A F1.30	XI	VT-3	100%	NRI	376680	MAG-CG-407 REV. 6
HBC-507-H074 Rigid Restraint	HBC-507-10 08/06/2001	F-A F1.30	XI	VT-3	100%	NRI	378630	MAG-CG-407 REV. 6
HBC-507-H075 Rigid Restraint	HBC-507-10 08/06/2001	F-A F1.30	XI	VT-3	100%	NRI	378640	MAG-CG-407 REV. 6
HBC-507-H076 Rigid Restraint	HBC-507-10 08/06/2001	F-A F1.30	XI	VT-3	100%	NRI	378650	MAG-CG-407 REV. 6
HBC-507-H077 Rigid Restraint	HBC-507-10 08/06/2001	F-A F1.30	XI	VT-3	100%	NRI	378660	MAG-CG-407 REV. 6
10P-203A RCIC Pump Support Assembly	XI-10P-203 08/02/2001	F-A F1.40	XI	VT-3	100%	NRI	241760	MAG-CG-407 REV. 6
HP-P-A HPCI Main & Booster Pump Support Assembly	XI-10P-204 08/02/2001	F-A F1.40	XI	VT-3	100%	NRI	234620	MAG-CG-407 REV. 6
Li1/RPV STABILIZER (000 DEG) Stabilizer Assembly & Brackets - Intermediate Mech. Conn.	XI-FA-2 PG. 1-3 03/06/2002	F-A F1.40	XI	VT-3	100%	NRI	605390	MAG-CG-407 REV. 7
Li1/RPV STABILIZER (045 DEG) Stabilizer Assembly & Brackets - Intermediate Mech. Conn.	XI-FA-2 PG. 1-3 03/06/2002	F-A F1.40	XI	VT-3	100%	NRI	605400	MAG-CG-407 REV. 7

Limerick ISI Component Inspection Results Listing

Interval: 2
Period 2
Outage: 1R09

Unit 1

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments Cal Block
Li1/RPV STABILIZER (090 DEG) Stabilizer Assembly & Brackets - Intermediate Mech. Conn.	XI-FA-2 PG. 1-3 03/06/2002	F-A F1.40	XI	VT-3	100%	NRI	605410	MAG-CG-407 REV. 7
Li1/RPV STABILIZER (135 DEG) Stabilizer Assembly & Brackets - Intermediate Mech. Conn.	XI-FA-2 PG. 1-3 03/06/2002	F-A F1.40	XI	VT-3	100%	NRI	605420	MAG-CG-407 REV. 7
Li1/RPV SUPPORT Support Skirt Assembly	XI-FA-1 PG. 1,3 03/13/2002	F-A F1.40	XI	VT-3	100%	NRI	605465	MAG-CG-407 REV. 7 EXAMINED FROM 120 DEG. TO 360 DEG.
RHR-HXAR-2-A Heat Exchanger Support	XI-1E-205 03/09/2002	F-A F1.40	XI	VT-3	100%	NRI	252151	MAG-CG-407 REV. 7
RHR-HXAR-2-B Heat Exchanger Support	XI-1E-205 03/09/2002	F-A F1.40	XI	VT-3	100%	NRI	252161	MAG-CG-407 REV. 7
RHR-HXAR-2-C Heat Exchanger Support	XI-1E-205 03/09/2002	F-A F1.40	XI	VT-3	100%	NRI	252171	MAG-CG-407 REV. 7
RHR-HXAR-2-D Heat Exchanger Support	XI-1E-205 03/09/2002	F-A F1.40	XI	VT-3	100%	NRI	252181	MAG-CG-407 REV. 7
1A1F211 Pump Suction Strainer Module	01-127 03/10/2002	N/A N/A	AUG	VT-3	50%	NRI	250284	MAG-CG-425 REV. 4
1A1F214 Pump Suction Strainer Module	04-108 03/10/2002	N/A N/A	AUG	VT-3	50%	NRI	229344	MAG-CG-425 REV. 4
1A2F211 Pump Suction Strainer Module	01-127 03/10/2002	N/A N/A	AUG	VT-3	50%	NRI	250285	MAG-CG-425 REV. 4
1B1F211 Pump Suction Strainer Module	01-128 03/10/2002	N/A N/A	AUG	VT-3	50%	NRI	254094	MAG-CG-425 REV. 4
1B1F214 Pump Suction Strainer Module	04-109 03/10/2002	N/A N/A	AUG	VT-3	50%	NRI	231034	MAG-CG-425 REV. 4

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments Cal Block
1B2F211 Pump Suction Strainer Module	01-128 03/10/2002	N/A N/A	AUG	VT-3	50%	NRI	254095	MAG-CG-425 REV. 4
Li1/CS STRAINER MODULE Pump Suction Strainer Module	04-108 03/10/2002	N/A N/A	AUG	VT-3	50%	NRI	258127	MAG-CG-425 REV. 4
Li1/RHR STRAINER MODULE Pump Suction Strainer Module	01-127 03/10/2002	N/A N/A	AUG	VT-3	50%	NRI	258126	MAG-CG-425 REV. 4
DCA-101-1 FW 2401 6" Pipe to 6" Pub Piece on Valve HV-44-1F001	08-002 03/11/2002	NA NA	BL AUG	PT UT	100% 100%	NRI NRI	113402	UT-MAROG-605, PDI-UT-2 & MAG-CG-402 REV. 4 BASELINE EXAMINATION <u>LIM-6-432-SS316</u>
DCA-101-1 FW 2404 6" Pub Piece on Valve HV-44-1F001 to 6" Pipe	08-002 03/12/2002	NA NA	BL AUG	PT UT	100% 100%	NRI NRI	113412	UT-MAROG-605, PDI-UT-2 & MAG-CG-402 REV. 4 BASELINE EXAMINATION. <u>LIM-6-432-SS316</u>
DCA-101-1 SW 2402 6" Pub Piece to Valve HV 44-1F001	08-002 02/22/2002	NA NA	BL AUG	PT UT	100% 50%	NRI NRI	113400	UT-MAROG-605, PDI-UT-2 & MAG-CG-402 REV. 4 BASELINE EXAMINATION <u>LIM-6-432-SS316</u>
DCA-101-1 SW 2403 6" Valve HV-44-1F001 to 6" Pub Piece	08-002 02/22/2002	NA NA	BL AUG	PT UT	100% 50%	NRI NRI	113410	UT-MAROG-605, PDI-UT-2 & MAG-CG-402 REV. 4 BASELINE EXAMINATION <u>LIM-6-432-SS316</u>
DCB-102-1 FW 902 6" Pub Piece on Valve HV-44-1F004 to 6" Pipe	08-002 03/11/2002	NA NA	BL AUG	PT UT	100% 100%	NRI NRI	244642	UT-MAROG-605, PDI-UT-2 & MAG-CG-402 REV. 4 BASELINE EXAMINATION. <u>LIM-6-432-SS316</u>
DCB-102-1 SW 901 6" Valve HV-44-1F004 to 6" Pub Piece	08-002 02/22/2002	NA NA	BL AUG	PT UT	100% 50%	NRI NRI	244640	UT-MAROG-605, PDI-UT-2 & MAG-CG-402 REV. 4 BASELINE EXAMINATION <u>LIM-6-432-SS316</u>

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments <u>Cal Block</u>
FWA 041 16" Pipe to Valve HV-41-109A	05-002 03/12/2002	NA NA	AUG	MT UT	100% 100%	NRI NRI	233410	GE-MT-100 & PDI-UT-1 WELD ID: DBB-103-1-1A FW2. <u>LIM-16-1.219-CS</u>
HP 024AR2 12" Pipe to Pipe	02-001A 03/08/2002	NA NA	AUG	MT UT	100% 100%	NRI NRI	234660	GE-MT-100 & PDI-UT-1 WELD ID: EBB-108-1-1 FW53 <u>LIM-12-.688-CS</u>
HP 025R1 12" Pipe to Elbow	02-001A 03/08/2002	NA NA	AUG	MT UT	100% 100%	NRI NRI	234670	GE-MT-100 & PDI-UT-1 WELD ID: EBB-108-1 FW54 <u>LIM-12-.688-CS</u>
HP 027 12" Pipe to Elbow	02-001A 03/08/2002	NA NA	AUG	MT UT	100% 100%	NRI NRI	234690	GE-MT-100 & PDI-UT-1 WELD ID: EBB-108-1-2 SW1 <u>LIM-12-.688-CS</u>
MSD 020 26" Pipe (FE 1N054) to Elbow	03-004 03/14/2002	NA NA	AUG	MT UT	100% 100%	NRI NRI	105370	GE-MT-100 & PDI-UT-1 WELD ID: APE-1MS-LD-38 SWN054 <u>LIM-26-1.013-CS</u>
MSD 021 26" Elbow to Valve HV-41 1F022D	03-004 03/14/2002	NA NA	AUG	MT UT	100% 100%	NRI GEOM	105380	GE-MT-100 & PDI-UT-1 WELD ID: APE-1MS-LD-38 FWWD04 <u>LIM-26-1.013-CS</u>
MSD 022 26" Valve HV-41-1F022D to Flued Head (X-7D)	03-004 03/14/2002	NA NA	AUG	MT UT	100% 100%	NRI NRI	105390	GE-MT-100 & PDI-UT-1 WELD ID: APE-1MS-LD-17 FWWD05 <u>LIM-26-1.013-CS</u>
RW 012 6" Pipe to Elbow	08-002 03/13/2002	NA NA	AUG	PT UT	100% 100%	NRI NRI	113360	GE-PT-100 & PDI-UT-2 WELD ID: DCA-101-1-8 SW4 <u>LIM-6-.432-SS316</u>
RW 014 6" Pipe to Elbow	08-002 03/14/2002	NA NA	AUG	PT UT	100% 100%	NRI NRI	113380	GE-PT-100 & PDI-UT-2 WELD ID: DCA-101-1-8 SW2 <u>LIM-6-.432-SS316</u>
RW 018 6" Pipe to Flued Head (X-14)	08-002 03/13/2002	NA NA	AUG	PT UT	100% 100%	NRI NRI	113420	GE-PT-100 & PDI-UT-2 WELD ID: DCA-101-1-9 FW6 <u>LIM-6-.432-SS316</u>

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments Cal Block
RW 021 6" Pipe to Valve HV-44-1F040	08-002 03/14/2002	NA NA	AUG	PT UT	100% 50%	NRI GEOM	244650	GE-PT-100 & PDI-UT-2 WELD ID: DCB-102-1-1 FW2. ROOT GEOMETRY WAS RECORDED. <u>LIM-6-432-SS316</u>
VRR-1RD-1B N2B Safe End to Nozzle (Az.60)	07-002 03/07/2002	NA NA	AUG	PT AUTO	100% 100%	NRI NRI	601810	GE-PT-100 & GE-UT-209/V10 <u>S/S No. 4</u>
VRR-1RD-1B N2C Safe End to Nozzle (Az.90)	07-002 03/07/2002	NA NA	AUG	PT AUTO	100% 100%	NRI NRI	601830	GE-PT-100 & GE-UT-209/V10 <u>S/S No. 4</u>
VRR-1RD-1B N2E Safe End to Nozzle (Az.150)	07-002 03/07/2002	NA NA	AUG	PT AUTO	100% 100%	NRI NRI	601870	GE-PT-100 & GE-UT-209/V10 <u>S/S No. 4</u>
DLA-107-1 N4A1 Safe End to Safe End (Az. 30 Deg.)	05-001 03/06/2002	R-A R1.11, R1.18	XI AUG	MT AUTO	100% 100%	NRI GEOM	602780	GE-MT-100 & GE-UT-230 RECORDED INSIDE SURFACE GEOMETRY <u>PART No. 7</u>
DLA-107-1 N4A2 Safe End to Nozzle (Az. 30 Deg.)	05-001 03/06/2002	R-A R1.11, R1.18	XI AUG	MT AUTO	100% 100%	NRI GEOM	602785	GE-MT-100 & GE-UT-230 ROOT GEOMETRY WAS RECORDED <u>PART No. 7</u>
DLA-107-1 S4A 12" Pipe to Safe End (Az. 30 Deg.)	05-001 03/16/2002	R-A R1.11, R1.18	XI	MT UT	100% 100%	NRI NRI	602790	GE-MT-100 & PDI-UT-1 <u>PART No. 8 & LIM-12-688-CS</u>
FWA 033 24" Valve 41-1F010A to Flued Head (X-9A)	05-001 03/09/2002	R-A R1.11, R1.18	XI AUG	MT UT	100% 100%	NRI NRI	101990	GE-MT-100 & PDI-UT-1 WELD ID: DLA-105-1-2 FW3 <u>LIM-24-1.812-CS-F</u>
FWA 034 24" Flued Head (X-9A) to Valve HV-41-1F074A	05-001 03/13/2002	R-A R1.11, R1.18	XI AUG	MT UT	100% 100%	NRI NRI	102000	GE-MT-100 & PDI-UT-1 WELD ID: DLA-105-1-2 FW1 <u>LIM-24-1.812-CS-F</u>
FWA 035 Valve HV-41-1F074A to 24" Pipe	05-002 03/13/2002	R-A R1.11, R1.18	XI AUG	MT UT	100% 100%	NRI NRI	233350	GE-MT-100 & PDI-UT-1 WELD ID: DBB-103-1-1 FW3 <u>LIM-24-1.812-CS</u>

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments Cal Block
FWA 037 24"X24"X16" Tee to 24" Valve HV-41-1F032A	05-002 03/12/2002	R-A R1.11, R1.18	XI AUG	MT UT	100% 98.9%	NRI GEOM	233370	PDI-UT-1 & GE-MT-100 WELD ID: DBB-103-1-1 FW1. <u>LIM-24-1.812-CS</u>
FWA 038 24"X24"X16" Tee to 16" Elbow	05-002 03/12/2002	R-A R1.11, R1.18	XI AUG	MT UT	100% 100%	NRI GEOM	233380	GE-MT-100 & PDI-UT-1 WELD ID: DBB-103-1-1A FW50. ROOT GEOMETRY WAS RECORDED. <u>LIM-16-1.219-CS</u>
FWA 039 16" Elbow to Elbow	05-002 03/12/2002	R-A R1.11, R1.18	XI AUG	MT UT	100% 100%	NRI NRI	233390	GE-MT-100 & PDI-UT-1 WELD ID: DBB-103-1-1A SW3. <u>LIM-16-1.219-CS</u>
FWA 040 16" Elbow to Pipe	05-002 03/13/2002	R-A R1.11, R1.18	XI AUG	MT UT	100% 100%	NRI GEOM	233400	GE-MT-100 & PDI-UT-1 WELD ID: DBB-103-1-1A SW4. <u>LIM-16-1.219-CS</u>
DCA-101-1 FW 2405 6" Flued Head (X-14) to 6" Pub Piece on Valve HV-44-1F004	08-002 03/12/2002	R-A R1.20	BL AUG	PT UT	100% 100%	NRI NRI	113432	UT-MAROG-605, PDI-UT-2 & MAG-CG- 402 REV. 4 BASELINE EXAMINATION. <u>LIM-6-432-SS316</u>
DCA-101-1 SW 2406 6" Pub Piece to Valve HV 44-1F004	08-002 02/22/2002	R-A R1.20	BL AUG	PT UT	100% 50%	NRI NRI	113430	UT-MAROG-605, PDI-UT-2 & MAG-CG- 402 REV. 4 BASELINE EXAMINATION <u>LIM-6-432-SS316</u>
HP 015 10" Pipe to Elbow	02-001 03/14/2002	R-A R1.20	XI AUG	UT MT	100% 100%	NRI NRI	103250	GE-MT-100 & PDI-UT-1 WELD ID: DBA-106-1-3 SW6 <u>LIM-10-.593-CS</u>
HP 016 10" Elbow to Pipe	02-001 03/13/2002	R-A R1.20	XI AUG	MT UT	100% 100%	NRI NRI	103260	GE-MT-100 & PDI-UT-1 WELD ID: DBA-106-1-3 SW7 <u>LIM-10-.593-CS</u>
HP 017 10" Pipe to Valve HV-55- 1F002	02-001 03/13/2002	R-A R1.20	XI AUG	MT UT	100% 100%	NRI NRI	103270	GE-MT-100 & PDI-UT-1 WELD ID: DBA-106-1-3 FW50 <u>LIM-10-.593-CS</u>

Limerick ISI Component Inspection Results Listing

Unit 1

Interval: 2
 Period 2
 Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Code Coverage	Results	Summary Number	Procedure(s) Inspection Comments <u>Cal Block</u>
MSD 023	03-004	R-A	XI	MT	100%	NRI	105400	GE-MT-100 & PDI-UT-1
26" Flued Head (X-7D) to Valve HV-41-1F028D	03/15/2002	R1.20	AUG	UT	100%	NRI		WELD ID: APE-1MS-LD-17 FWWD06 <u>LIM-26-1.013-CS</u>

Limerick IVVI Component Inspection Results Listing

Unit 1

Interval: 2
 Period 2
 Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Coverage	Results	Summary Number	Procedure(s) Comments
Li1/JP15-16 RBSP1 Jet Pump Nos. 15 & 16 Riser Support Pads to RPV Welds - Interior Support Pad (263 & 278 Az)	XI-BNN 03/10/2002	B-N-2 B13.20	BL	EVT-1	90%	NRI		VT-LIM-204V1
Li1/JP17-18 RBSP1 Jet Pump Nos. 17 & 18 Riser Support Pads to RPV Welds - Interior Support Pad (293 & 307 Az)	XI-BNN 03/10/2002	B-N-2 B13.20	BL	EVT-1	90%	NRI		VT-LIM-204V1
Li1/P1A Core Spray "A" Loop N5B Thermal Sleeve to T-Box Weld 300 Az	XI-BN-8 03/09/2002	N/A N/A	RE	UT-60S	50%	NRI		GE-UT-511
Li1/P1B Core Spray "B" Loop N5A Thermal Sleeve to T-Box Weld 60 Az	XI-BN-8 03/09/2002	N/A N/A	RE	UT-60S	50%	NRI		GE-UT-511
Li1/P2A Core Spray "A" Loop Header T-Box Cover Plate Weld 300 Az	XI-BN-8 03/09/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P2B Core Spray "B" Loop Header T-Box Cover Plate Weld 60 Az	XI-BN-8 03/09/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P3aA Core Spray "A" Loop Header T-Box to Pipe Weld Right Side 300 Az	XI-BN-8 03/07/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P3aB Core Spray "B" Loop Header T-Box to Pipe Weld Right Side 60 Az	XI-BN-8 03/07/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P3bA Core Spray "A" Loop Header T-Box to Pipe Weld Left Side 300 Az	XI-BN-8 03/07/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	RI RI		GE-UT-511

Indication evaluation reference NCR LG
02-00167.

Limerick IVVI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Coverage	Results	Summary Number	Procedure(s) Comments
Li1/P3bB Core Spray "B" Loop Header T-Box to Pipe Weld Left Side 60 Az	XI-BN-8 03/07/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P4cA Core Spray "A" Loop "A" Downcomer Pipe to Elbow Weld 352.5 Az (Shroud Elevation)	XI-BN-8 03/07/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P4cB Core Spray "B" Loop "B" Downcomer Pipe to Elbow Weld 7.5 Az (Shroud Elevation)	XI-BN-8 03/08/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P4cC Core Spray "A" Loop "C" Downcomer Pipe to Elbow Weld 187.5 Az (Shroud Elevation)	XI-BN-8 03/07/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P4cD Core Spray "B" Loop "D" Downcomer Pipe to Elbow Weld 172.5 Az (Shroud Elevation)	XI-BN-8 03/08/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P4dB Core Spray "B" Loop "B" Downcomer Elbow to Shroud Pipe Weld 7.5 Az	XI-BN-8 03/10/2002	N/A N/A	RE	EVT-1	95%	NRI		VT-LIM-204V1
Li1/P4dC Core Spray "A" Loop "C" Downcomer Elbow to Shroud Pipe Weld 187.5 Az	XI-BN-8 03/10/2002	N/A N/A	RE	EVT-1	95%	NRI		VT-LIM-204V1
Li1/P4dD Core Spray "B" Loop "D" Downcomer Elbow to Shroud Pipe Weld 172.5 Az	XI-BN-8 03/10/2002	N/A N/A	RE	EVT-1	95%	NRI		VT-LIM-204V1
Li1/P5A Core Spray "A" Loop "A" Downcomer Pipe to Sliding Sleeve Field Weld 352.5 Az	XI-BN-8 03/07/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511

Limerick IVVI Component Inspection Results Listing

Unit 1

Interval: 2
 Period: 2
 Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Coverage	Results	Summary Number	Procedure(s) Comments
Li1/P5B Core Spray "B" Loop "B" Downcomer Pipe to Sliding Sleeve Field Weld 7.5 Az	XI-BN-8 03/07/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P5C Core Spray "A" Loop "C" Downcomer Pipe to Sliding Sleeve Field Weld 187.5 Az	XI-BN-8 03/07/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P5D Core Spray "B" Loop "D" Downcomer Pipe to Sliding Sleeve Field Weld 172.5 Az	XI-BN-8 03/07/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P6A Core Spray "A" Loop "A" Sliding Sleeve to Outer Sleeve Field Weld 352.5 Az	XI-BN-8 03/07/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P6B Core Spray "B" Loop "B" Sliding Sleeve to Outer Sleeve Field Weld 7.5 Az	XI-BN-8 03/07/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P6C Core Spray "A" Loop "C" Sliding Sleeve to Outer Sleeve Field Weld 187.5 Az	XI-BN-8 03/06/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P6D Core Spray "B" Loop "D" Sliding Sleeve to Outer Sleeve Field Weld 172.5 Az	XI-BN-8 03/06/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P7A Core Spray "A" Loop "A" Outer Sleeve to Pipe Shop Weld 352.5 Az	XI-BN-8 03/07/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511
Li1/P7B Core Spray "B" Loop "B" Outer Sleeve to Pipe Shop Weld 7.5 Az	XI-BN-8 03/07/2002	N/A N/A	RE	UT-60S UT-70S	100% 100%	NRI NRI		GE-UT-511

Limerick IVVI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Coverage	Results	Summary Number	Procedure(s) Comments
Li1/P7C	XI-BN-8	N/A	RE	UT-60S	100%	NRI		GE-UT-511
Core Spray "A" Loop "C" Outer Sleeve to Pipe Shop Weld 187.5 Az	03/06/2002	N/A		UT-70S	100%	NRI		
Li1/P7D	XI-BN-8	N/A	RE	UT-60S	100%	NRI		GE-UT-511
Core Spray "B" Loop "D" Outer Sleeve to Pipe Shop Weld 172.5 Az	03/06/2002	N/A		UT-70S	100%	NRI		
Li1/P8aA	XI-BN-8	N/A	RE	EVT-1	95%	NRI		VT-LIM-204V1
Core Spray "A" Loop "A" Shroud Pipe to Collar Weld 352.5 Az	03/10/2002	N/A						
Li1/P8aB	XI-BN-8	N/A	RE	EVT-1	95%	NRI		VT-LIM-204V1
Core Spray "B" Loop "B" Shroud Pipe to Collar Weld 7.5 Az	03/10/2002	N/A						
Li1/P8aC	XI-BN-8	N/A	RE	EVT-1	95%	NRI		VT-LIM-204V1
Core Spray "A" Loop "C" Shroud Pipe to Collar Weld 187.5 Az	03/10/2002	N/A						
Li1/P8aD	XI-BN-8	N/A	RE	EVT-1	95%	NRI		VT-LIM-204V1
Core Spray "B" Loop "D" Shroud Pipe to Collar Weld 172.5 Az	03/10/2002	N/A						
Li1/P8bA	XI-BN-8	N/A	RE	UT-60S	100%	NRI		GE-UT-511
Core Spray "A" Loop "A" Collar to Shroud Weld 352.5 Az	03/08/2002	N/A		UT-70S	100%	NRI		
Li1/P8bB	XI-BN-8	N/A	RE	UT-60S	100%	NRI		GE-UT-511
Core Spray "B" Loop "B" Collar to Shroud Weld 7.5 Az	03/08/2002	N/A		UT-70S	100%	NRI		
Li1/P8bC	XI-BN-8	N/A	RE	UT-60S	100%	NRI		GE-UT-511
Core Spray "A" Loop "C" Collar to Shroud Weld 187.5 Az	03/08/2002	N/A		UT-70S	100%	NRI		
Li1/P8bD	XI-BN-8	N/A	RE	UT-60S	100%	NRI		GE-UT-511
Core Spray B Loop "D" Collar to Shroud Weld 172.5 Az	03/08/2002	N/A		UT-70S	100%	NRI		
Li1/PB3	XI-BN-8	N/A	RE	EVT-1	100%	NRI		VT-LIM-204V1
Core Spray "B" Loop "B and D" Header Pipe Radia Bracket 112.5 Az	03/10/2002	N/A						

Limerick IVVI Component Inspection Results Listing

Unit 1

Interval: 2
 Period 2
 Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Coverage	Results	Summary Number	Procedure(s) Comments
Li1/PB4 Core Spray "B" Loop "B and D" Header Pipe Bracket 165 Az	XI-BN-8 03/10/2002	N/A N/A	RE	EVT-1	100%	NRI		VT-LIM-204V1
Li1/S1C "C" Sparger T-Box Cover Plate Weld (187.5 Az)	XI-BN-8 03/10/2002	N/A N/A	RE	EVT-1	100%	NRI		VT-LIM-204V1
Li1/S1D "D" Sparger T-Box Cover Plate Weld (172.5 Az)	XI-BN-8 03/10/2002	N/A N/A	RE	EVT-1	100%	NRI		VT-LIM-204V1
Li1/S2aC "C" Sparger T-Box to Pipe Weld (Right Side) (187.5 Az)	XI-BN-8 03/10/2002	N/A N/A	RE	EVT-1	70%	NRI		VT-LIM-204V1
Li1/S2aD "D" Sparger T-Box to Pipe Weld (Right Side) (172.5 Az)	XI-BN-8 03/10/2002	N/A N/A	RE	EVT-1	70%	NRI		VT-LIM-204V1
Li1/S2bC "C" Sparger T-Box to Pipe Weld (Left Side) (187.5 Az)	XI-BN-8 03/10/2002	N/A N/A	RE	EVT-1	70%	NRI		VT-LIM-204V1
Li1/S2bD "D" Sparger T-Box to Pipe Weld (Left Side) (172.5 Az)	XI-BN-8 03/10/2002	N/A N/A	RE	EVT-1	70%	NRI		VT-LIM-204V1
Li1/S3aXXB "B" Sparger Pipe to Nozzl Weld, Typical of 65 Nozzles (XX) (273 - 88 Az)	XI-BN-8 03/10/2002	N/A N/A	RE	VT-1	50%	NRI		VT-LIM-204V1
Li1/S3bXXB "B" Sparger Nozzle to Orifice Weld, Typical of 65 Orifices (XX) (273 - 88 Az)	XI-BN-8 03/10/2002	N/A N/A	RE	VT-1	100%	NRI		VT-LIM-204V1
Li1/S3c4B "B" Sparger to Drain Pipe Weld (Left Side) (275 Az)	XI-BN-8 03/10/2002	N/A N/A	RE	VT-1	50%	NRI		VT-LIM-204V1
Li1/S3c62B "B" Sparger to Drain Pipe Weld (Right Side) (83 Az)	XI-BN-8 03/10/2002	N/A N/A	RE	VT-1	50%	NRI		VT-LIM-204V1

Limerick IVVI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Coverage	Results	Summary Number	Procedure(s) Comments
Li1/S3d4B	XI-BN-8	N/A	RE	VT-1	50%	NRI		VT-LIM-204V1
"B" Sparger Drain Stitch Welds (Left Side), 2 Welds 180 Deg Apt, 5 Pics Ea Noz. (275 Az)	03/10/2002	N/A						
Li1/S3d62B	XI-BN-8	N/A	RE	VT-1	50%	NRI		VT-LIM-204V1
"B" Sparger Drain Stitch Welds (Right Side), 2 Welds 180 Deg Apt, 5 Pics Ea Noz. (83 Az)	03/10/2002	N/A						
Li1/S3dXXB	XI-BN-8	N/A	RE	VT-1	100%	NRI		VT-LIM-204V1
"B" Sparger Nozzle Stitch Welds, 2 Welds 180 Deg Apt, 5 Pics Ea Noz. (273 - 88 Az)	03/10/2002	N/A						
Li1/S4aC	XI-BN-8	N/A	RE	EVT-1	70%	NRI		VT-LIM-204V1
"C" Sparger Pipe to End Cap Weld (Right Side) (267 Az)	03/10/2002	N/A						
Li1/S4aD	XI-BN-8	N/A	RE	EVT-1	70%	NRI		VT-LIM-204V1
"D" Sparger Pipe to End Cap Weld (Right Side) (267 Az)	03/10/2002	N/A						
Li1/S4bC	XI-BN-8	N/A	RE	EVT-1	70%	NRI		VT-LIM-204V1
"C" Sparger Pipe to End Cap Weld (Left Side) (93 Az)	03/10/2002	N/A						
Li1/S4bD	XI-BN-8	N/A	RE	EVT-1	70%	NRI		VT-LIM-204V1
"D" Sparger Pipe to End Cap Weld (Left Side) (93 Az)	03/10/2002	N/A						
Li1/SB04	XI-BN-8	N/A	RE	VT-1	100%	NRI		VT-LIM-204V1
"C and D" Sparger Bracket and Shroud Attachment Welds (96 Az)	03/10/2002	N/A						
Li1/SB05	XI-BN-8	N/A	RE	VT-1	100%	NRI		VT-LIM-204V1
"C and D" Sparger Bracket and Shroud Attachment Welds (136 Az)	03/10/2002	N/A						
Li1/SB06	XI-BN-8	N/A	RE	VT-1	50%	NRI		VT-LIM-204V1
"C and D" Sparger Bracket and Shroud Attachment Welds (172.5 Az)	03/10/2002	N/A						

Limerick IVVI Component Inspection Results Listing

Unit 1

Interval: 2
 Period 2
 Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Coverage	Results	Summary Number	Procedure(s) Comments
Li1/SB07 "C and D" Sparger Bracket and Shroud Attachment Welds (187.5 Az)	XI-BN-8 03/10/2002	N/A N/A	RE	VT-1	100%	NRI		VT-LIM-204V1
Li1/SB08 "C and D" Sparger Bracket and Shroud Attachment Welds (224 Az)	XI-BN-8 03/10/2002	N/A N/A	RE	VT-1	100%	NRI		VT-LIM-204V1
Li1/SB09 "C and D" Sparger Bracket and Shroud Attachment Welds (264 Az)	XI-BN-8 03/10/2002	N/A N/A	RE	VT-1	100%	NRI		VT-LIM-204V1
Li1/JP01 AS-1 Jet Pump Restrainer Bracket Adjusting Screw Tack Welds	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope. GE Report references comp id as Li1/JP 1-RK-2a & 2b, Set Screw Gaps. Examined for contact with riser only.
Li1/JP01 AS-2 Jet Pump Restrainer Bracket Adjusting Screw Tack Welds-Shroud Side	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope. GE Report references comp id as Li1/JP 1-RK-2a & 2b, Set Screws Gap. Examined for contact with riser only.
Li1/JP01 WD-1 Jet Pump Wedge Bearing Surface	XI-BN-04 03/11/2002	N/A N/A	ES	VT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP01-02 RS-8 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.

Limerick IVVI Component Inspection Results Listing

Unit 1

Interval: 2
 Period: 2
 Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Coverage	Results	Summary Number	Procedure(s) Comments
Li1/JP01-02 RS-9 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope. RI called by examiner was spider webbin from Noble Metals. Indication was brushed away - See IVVI Tape 10 at 1:17:07.
Li1/JP02 AS-1 Jet Pump Restrainer Bracket Adjusting Screw Tack Welds	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope. GE Report references comp id as Li1/JP 2-RK-2a & 2b, Set Screws Gap. Examined for contact with riser only.
Li1/JP02 AS-2 Jet Pump Restrainer Bracket Adjusting Screw Tack Welds-Shroud Side	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope. GE Report references comp id as Li1/JP 2-RK-2a & 2b, Set Screws Gap. Examined for contact with riser only.
Li1/JP02 WD-1 Jet Pump Wedge Bearing Surface	XI-BN-04 03/11/2002	N/A N/A	ES	VT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP03-04 RS-8 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP03-04 RS-9 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP05-06 RS-8 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.

Limerick IVVI Component Inspection Results Listing

Interval: 2
Period 2
Outage: 1R09

Unit 1

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Coverage	Results	Summary Number	Procedure(s) Comments
Li1/JP05-06 RS-9 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP07-08 RS-8 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP07-08 RS-9 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP09-10 RS-8 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP09-10 RS-9 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP11-12 RB-2a Jet Pump Riser Brace Leaf to Yoke Weld	XI-BN-04 03/10/2002	N/A N/A	BL	EVT-1	50%	NRI		VT-LIM-204V1
Li1/JP11-12 RB-2b Jet Pump Riser Brace Leaf to Yoke Weld	XI-BN-04 03/10/2002	N/A N/A	BL	EVT-1	50%	NRI		VT-LIM-204V1
Li1/JP11-12 RB-2d Jet Pump Riser Brace Leaf to Yoke Weld	XI-BN-04 03/10/2002	N/A N/A	BL	EVT-1	50%	NRI		VT-LIM-204V1
Li1/JP11-12 RS-8 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP11-12 RS-9 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.

Limerick IVVI Component Inspection Results Listing

Unit 1

Interval: 2
 Period: 2
 Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Coverage	Results	Summary Number	Procedure(s) Comments
Li1/JP13 AS-1 Jet Pump Restrainer Bracket Adjusting Screw Tack Welds	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope. GE Report references comp id as Li1/JP 13-RK-2a & 2b, Set Screw Gaps. Examined for contact with riser only.
Li1/JP13 AS-2 Jet Pump Restrainer Bracket Adjusting Screw Tack Welds-Shroud Side	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope. GE Report references comp id as Li1/JP 13-RK-2a & 2b, Set Screw Gaps. Examined for contact with riser only.
Li1/JP13 WD-1 Jet Pump Wedge Bearing Surface	XI-BN-04 03/11/2002	N/A N/A	ES	VT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP13-14 RB-1a Jet Pump Riser Brace Leaf to RPV Pad Weld	XI-BN-04 03/10/2002	N/A N/A	BL	EVT-1	100%	NRI		VT-LIM-204V1
Li1/JP13-14 RB-1b Jet Pump Riser Brace Leaf to RPV Pad Weld	XI-BN-04 03/10/2002	N/A N/A	BL	EVT-1	50%	NRI		VT-LIM-204V1
Li1/JP13-14 RB-1c Jet Pump Riser Brace Leaf to RPV Pad Weld	XI-BN-04 03/10/2002	N/A N/A	BL	EVT-1	100%	NRI		VT-LIM-204V1
Li1/JP13-14 RB-1d Jet Pump Riser Brace Leaf to RPV Pad Weld	XI-BN-04 03/10/2002	N/A N/A	BL	EVT-1	50%	NRI		VT-LIM-204V1
Li1/JP13-14 RB-2a Jet Pump Riser Brace Leaf to Yoke Weld	XI-BN-04 03/11/2002	N/A N/A	BL	EVT-1	50%	NRI		VT-LIM-204V1
Li1/JP13-14 RB-2b Jet Pump Riser Brace Leaf to Yoke Weld	XI-BN-04 03/11/2002	N/A N/A	BL	EVT-1	50%	NRI		VT-LIM-204V1
Li1/JP13-14 RB-2c Jet Pump Riser Brace Leaf to Yoke Weld	XI-BN-04 03/11/2002	N/A N/A	BL	EVT-1	50%	NRI		VT-LIM-204V1

Limerick IVVI Component Inspection Results Listing

Unit 1

Interval: 2
Period 2
Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Coverage	Results	Summary Number	Procedure(s) Comments
Li1/JP13-14 RB-2d Jet Pump Riser Brace Leaf to Yoke Weld	XI-BN-04 03/11/2002	N/A N/A	BL	EVT-1	50%	NRI		VT-LIM-204V1
Li1/JP13-14 RS-8 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	BL	EVT-1	100%	NRI		VT-LIM-204V1
Li1/JP13-14 RS-9 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	BL	EVT-1	100%	RI		VT-LIM-204V1 Indication evaluation reference NCR LG 02-00170.
Li1/JP14 AS-1 Jet Pump Restrainer Bracket Adjusting Screw Tack Welds	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope. GE Report references comp id as Li1/JP 14-RK-2a & 2b, Set Screw Gaps. Examined for contact with riser only.
Li1/JP14 AS-2 Jet Pump Restrainer Bracket Adjusting Screw Tack Welds-Shroud Side	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope. GE Report references comp id as Li1/JP 14-RK-2a & 2b, Set Screw Gaps. Examined for contact with riser only.
Li1/JP14 WD-1 Jet Pump Wedge Bearing Surface	XI-BN-04 03/11/2002	N/A N/A	ES	VT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP15-16 RB-1c Jet Pump Riser Brace Leaf to RPV Pad Weld	XI-BN-04 03/11/2002	N/A N/A	BL	EVT-1	100%	NRI		VT-LIM-204V1
Li1/JP15-16 RS-8 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP15-16 RS-9 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.

Limerick IVVI Component Inspection Results Listing

Unit 1

Interval: 2
 Period: 2
 Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Coverage	Results	Summary Number	Procedure(s) Comments
Li1/JP16 AD-1 Jet Pump Adapter Top to Adapter Bottom Weld - Bimetallic Weld	XI-BN-04 03/11/2002	N/A N/A	BL	EVT-1	25%	NRI		VT-LIM-204V1
Li1/JP16 AD-2 Jet Pump Adapter Bottom (Lower Ring) to Shroud Support Plate Weld	XI-BN-04 03/11/2002	N/A N/A	BL	EVT-1	25%	NRI		VT-LIM-204V1
Li1/JP16 DF-1 Jet Pump Diffuser Collar to Diffuser Shell Weld	XI-BN-04 03/11/2002	N/A N/A	BL	EVT-1	25%	NRI		VT-LIM-204V1
Li1/JP16 DF-2 Jet Pump Diffuser Shell to Tailpipe Weld	XI-BN-04 03/11/2002	N/A N/A	BL	EVT-1	25%	NRI		VT-LIM-204V1
Li1/JP16 IN-4 Jet Pump Inlet to Mixer Weld	XI-BN-04 03/11/2002	N/A N/A	BL	EVT-1	25%	NRI		VT-LIM-204V1
Li1/JP16 MX-2 Jet Pump Barrel to Adapter Weld	XI-BN-04 03/11/2002	N/A N/A	BL	EVT-1	25%	NRI		VT-LIM-204V1
Li1/JP17-18 RS-3 Jet Pump Riser Pipe to Transition Piece Weld	XI-BN-04 03/11/2002	N/A N/A	BL	EVT-1	50%	NRI		VT-LIM-204V1
Li1/JP17-18 RS-8 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP17-18 RS-9 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP19-20 RS-8 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.
Li1/JP19-20 RS-9 Jet Pump Riser Pipe to Riser Brace Circumferential Weld	XI-BN-04 03/11/2002	N/A N/A	ES	EVT-1	100%	NRI		VT-LIM-204V1 Expanded Scope.

Limerick IVVI Component Inspection Results Listing

Unit 1

Interval: 2
 Period: 2
 Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Coverage	Results	Summary Number	Procedure(s) Comments
Li1/45-03b N17A LPCI Coupling Shroud Attachment Ring to Shroud Weld (045 Az)	XI-BN-14 03/10/2002	N/A	RE	EVT-1	100%	NRI		VT-LIM-204V1
Li1/45-06a N17A LPCI Coupling Clamp / Bolt RPV (045 Az)	XI-BN-14 03/10/2002	N/A	RE	VT-3	100%	NRI		VT-LIM-204V1
Li1/45-06b N17A LPCI Coupling Clamp / Bolt Shroud (045 Az)	XI-BN-14 03/10/2002	N/A	RE	VT-3	100%	NRI		VT-LIM-204V1
Li1/45-06c N17A LPCI Coupling Clamp / Bolt RPV (045 Az)	XI-BN-14 03/10/2002	N/A	RE	VT-3	100%	NRI		VT-LIM-204V1
Li1/45-06d N17A LPCI Coupling Clamp / Bolt Shroud (045 Az)	XI-BN-14 03/10/2002	N/A	RE	VT-3	100%	NRI		VT-LIM-204V1
Li1/CSB 112.5 Az Core Spray "B and D" Header Radial Bracket (PB3) Attachment Weld to RPV	XI-BNN 03/10/2002	B-N-2 B13.30	RE	EVT-1	100%	NRI		VT-LIM-204V1
Li1/CSB 165 Az Core Spray "B and D" Header Bracket (PB4) Attachment Weld to RPV	XI-BNN 03/10/2002	B-N-2 B13.30	RE	EVT-1	100%	NRI		VT-LIM-204V1
Li1/FWSB 005 Az N4A Feedwater Sparger Bracket Attachment Weld to RPV	XI-BNN 03/06/2002	B-N-2 B13.30	BL	EVT-1	80%	NRI		VT-LIM-204V1
Li1/FWSB 055 Az N4A Feedwater Sparger Bracket Attachment Weld to RPV	XI-BNN 03/10/2002	B-N-2 B13.30	BL	EVT-1	80%	NRI		VT-LIM-204V1
Li1/FWSB 065 Az N4B Feedwater Sparger Bracket Attachment Weld to RPV	XI-BNN 03/10/2002	B-N-2 B13.30	BL	EVT-1	80%	NRI		VT-LIM-204V1
Li1/FWSB 115 Az N4B Feedwater Sparger Bracket Attachment Weld to RPV	XI-BNN 03/10/2002	B-N-2 B13.30	BL	EVT-1	80%	NRI		VT-LIM-204V1

Limerick IVVI Component Inspection Results Listing

Unit 1

Interval: 2
 Period 2
 Outage: 1R09

Component ID Description	Iso Number Insp. Date	Sect. XI Cat. Item	Inspection Reason(s)	Actual Exam	Coverage	Results	Summary Number	Procedure(s) Comments
Li1/SDSB 004 Az Steam Dryer Support Bracket Attachment Weld to RPV	XI-BNN 03/10/2002	B-N-2 B13.30	BL	EVT-1	100%	NRI		VT-LIM-204V1
Li1/SDSB 094 Az Steam Dryer Support Bracket Attachment Weld to RPV	XI-BNN 03/10/2002	B-N-2 B13.30	BL	EVT-1	100%	NRI		VT-LIM-204V1
Li1/SD Steam Dryer Assembly Welds, Surfaces & Lugs	XI-BN-01 03/07/2002	N/A N/A	RE	VT-1	100%	NRI		VT-LIM-204V1
Li1/SDDC Steam Dryer Drain Channel Welds, Vertical & Horizontal	XI-BN-01 03/07/2002	N/A N/A	RE	VT-1	100%	RI		VT-LIM-204V1 Indication evaluation reference AR A1359523.
Li1/FWS N4D N4D Feedwater Sparger Assembly and Brackets (185-235 Az)	XI-BN-09 03/10/2002	N/A N/A	RE	VT-3	100%	NRI		VT-LIM-204V1
Li1/FWS N4E N4E Feedwater Sparger Assembly and Brackets (245-295 Az)	XI-BN-09 03/10/2002	N/A N/A	RE	VT-3	100%	NRI		VT-LIM-204V1
Li1/FWS N4F N4F Feedwater Sparger Assembly and Brackets (305-355 Az)	XI-BN-09 03/10/2002	N/A N/A	RE	VT-3	100%	NRI		VT-LIM-204V1

SECTION 2

**SUMMARY OF REPORTABLE CONDITIONS OBSERVED
DURING INSERVICE INSPECTION
LIMERICK GENERATING STATION
UNIT 1
APRIL 29, 2000 TO APRIL 21, 2002**

SUMMARY OF REPORTABLE CONDITIONS OBSERVED

As a result of the examinations performed prior to and during the Limerick Unit 1, 9th Refuel Outage, there were no reportable conditions observed. Numerous other conditions were recorded and subsequent examinations and/or evaluations determined all conditions to be either non-relevant or geometric in nature.

General Electric Company (GE) performed the following evaluations for Limerick Generating Station Unit 1. The engineering analyses were performed in accordance with USNRC approved industry guidelines. By agreement between the BWRVIP and the USNRC, a copy of the relevant analyses are provided in Section 2 of this ISI summary report, 90 days after completion of the refueling outage.



**Internal Core Spray Line
Flaw Evaluation
for
Limerick Generating Station Units 1 and 2**

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TABLE OF CONTENTS

1.0 INTRODUCTION	1
2.0 METHODS	1
3.0 ASSUMPTIONS	2
4.0 DESIGN INPUTS	2
4.1 Deadweight (DW)	3
4.2 Dynamic Inertia	3
4.3 Dynamic Anchor Displacement	4
4.4 Fluid Drag	4
4.5 Core Spray Injection Loading (CSIN)	5
4.6 Thermal Loads	6
5.0 LOAD COMBINATIONS & STRESS LEVELS	7
5.1 Load Combinations	7
5.2 Calculated Stress Levels	8
6.0 FRACTURE MECHANICS EVALUATION	10
6.1 Limit Load Methodology	10
6.2 Allowable Flaw Length Calculation	12
6.3 Crack Growth Evaluation	13
7.0 LEAKAGE EVALUATION	14
7.1 Leak Rate Calculation Methodology	14
7.2 Overall Leak Rate Calculation	15
7.3 Leakage Acceptance Criterion	16
8.0 SUMMARY & CONCLUSIONS	16
9.0 REFERENCES	17

1.0 INTRODUCTION

Cracking in the core spray line internal piping at several Boiling Water Reactor (BWR) plants has been recently observed. Cracking is believed to be intergranular stress corrosion cracking (IGSCC) typically in the vicinity of circumferential welds. In addition, there have been cases of cracking at creviced areas. The availability of a flaw evaluation handbook prior to actual inspection of the line can help reduce any potential outage delay in order to disposition cracking, if any.

The objective of this report is to document the results of the flaw evaluation of the core spray internal piping at Limerick Generating Station. The outcome of flaw evaluation is a set of allowable flaw lengths at key locations in the core spray internal piping system. The evaluation also includes leak rate calculations for postulated through-wall indications which can be used in an evaluation to determine if the conclusions predicted by current LOCA analyses remain valid with the postulated leakage. The overall package constitutes a flaw handbook that could be used to disposition any indications that may be detected during the inspection of core spray internal piping.

2.0 METHODS

This section presents the methodology and procedure used in performing the core spray line analysis. Following are the steps used in the analysis.

1. Create a finite element analysis of the core spray line using the PISYS and ANSYS finite element codes [References 1a and 1b]. Determine the membrane and bending stresses resulting from the loadings identified in Section 4.
2. Determine the applied stresses at several key locations in the piping system and use the limit load methods of Paragraph IWB-3640, Section XI, ASME Code (see References 2 and 3) as a

guide to determine the allowable flaw lengths. The rules of 1989 Edition of Section XI are used as a guide in determining the allowable flaw lengths.

3. Perform leak rate evaluations corresponding to the allowable flaw sizes (end-of-cycle).

3.0 ASSUMPTIONS

This section describes the assumptions made in the methodology of the analysis.

1. The piping system geometry is as described in the referenced drawings (Reference 4). The dimensional tolerances specified on the reference drawings are such that any variations within those values will have insignificant impact on the calculated stress values. It was also judged that any deviations between the as-built geometry and the geometry indicated in the reference drawings would not be significant in terms of stress analysis and the allowable flaw calculations.
2. The dynamic inertia loads and anchor displacements are as determined in the referenced reports (References 8-11).
3. Any other assumptions are stated in the body of the report.

4.0 DESIGN INPUTS

The core spray piping in the annulus is 6-inch schedule 40 and the material is type 304L stainless steel. Figure 1 shows a schematic of one of the loops of the internal core spray lines. For the convenience of identification, the welds in Figure 1 have been numbered from P1 through P8. A finite element model consisting of one loop of the internal core spray piping was developed to determine the stresses from various design loads. Figure 2 provides a line plot showing the nodes of the finite element model.

The core spray sparger is 4-inch schedule 40 piping, type 304L stainless steel. The sparger was analyzed using essentially the same method as the core spray line in the annulus. Figure 3 shows the model geometry.

The design inputs in this evaluation consisted of: (1) the geometry of the internal core spray line and sparger, and (2) the applied loads. The geometry of the internal core spray line was obtained from the drawings listed in Reference 4. The applied loads on the core spray line consist of the following: deadweight, dynamic inertia, dynamic anchor displacements, fluid drag, loads due to flow initiation and thermal (and internal pressure) anchor displacements. Each of these loads are briefly discussed next.

4.1 Deadweight (DW)

The deadweight loading consists of the weight of the core spray pipe and the weight of the entrapped water. The metal weight was determined as 1.58 lb/in (0.90 for sparger) and the weight of the entrapped water as 1.04 lb/in (0.46 for sparger). Nozzle weight was also included for the sparger. The stresses for this loading were calculated by applying a 1.0g vertical acceleration in the finite element model of the core spray internal piping. For flaw evaluation purposes, the stress from this loading is treated as a primary stress.

4.2 Dynamic Inertia

The dynamic inertia loading consists of horizontal and vertical inertia forces acting on the entire core spray line due to seismic and hydrodynamic excitation of the RPV and the core shroud. The dynamic excitation is imparted to the core spray line at the vessel nozzle, the support brackets and the points where it is attached to the shroud.

Response spectra for the attachment points were obtained from Reference 8 through 11. For the purpose of specifying load combinations, the following designations are used:

Operating Basis Earthquake Inertia - X Direction: OBEIX

Operating Basis Earthquake Inertia - Z Direction: OBEIZ

Operating Basis Earthquake Inertia Vertical - Y Direction: OBEIY
 Safe Shutdown (or design Basis) Earthquake Inertia - X Direction: SSEIX
 Safe Shutdown (or design Basis) Earthquake Inertia - Z Direction: SSEIZ
 Safe Shutdown (or design Basis) Earthquake Inertia - Y (Vertical) Direction: SSEIY
 Safety Relief Valve Inertia - X Direction: SRVX
 Safety Relief Valve Inertia - Z Direction: SRVZ
 Safety Relief Valve Inertia - Y (Vertical) Direction: SRVY
 Loss of Coolant Accident (LOCA) Inertia - X Direction: LOCAX
 LOCA Inertia - Z Direction: LOCAZ
 LOCA Inertia - Y (Vertical) Direction: LOCAY
 Annulus Pressurization Inertia - X Direction: APX
 Annulus Pressurization Inertia - Z Direction: APZ

For the flaw evaluation purposes, the stresses from the dynamic inertia loading are treated as primary stresses.

4.3 Dynamic Anchor Displacement

Dynamic anchor displacements are applied to the attachment points of the core spray lines at the RPV and the shroud. A relative horizontal dynamic anchor motion of 0.25" was obtained from the New Loads Analysis Procedure (Reference 7). As shown in Reference 7, this covers all dynamic upset, emergency, and faulted load combinations. For flaw evaluation purposes, the stresses from the dynamic anchor displacement loading are treated as secondary. The load case designations used are the following:

Dynamic Anchor Displacement - X Direction: DYNDX
 Dynamic Anchor Displacement - Z Direction: DYNDZ

4.4 Fluid Drag

The drag loads consist of the forces resulting from the fluid flow past the core spray line. The flow in the annulus region during the normal operation exerts some downward drag force on the core spray piping. The magnitude of this loading was determined to be approximately 0.82 lb/in assuming a conservative value of 5 ft/second for the fluid velocity in the vessel annulus region. During the upset condition, core spray operation is assumed (no feedwater flow) and, therefore, the drag loads are insignificant. During a postulated double-ended break of either the recirculation line or the main steam line, the drag loads on the core spray line were determined to be significant. The drag loads are treated as primary loads for the flaw evaluation purposes and are designated as follows:

Drag Load During Normal Operation: DRG1

Drag Loads During LOCA Condition: DRG2.

4.5 Core Spray Injection Loading (CSIN)

Two types of loads result when the core spray flow is initiated: internal pressure and the axial loads due to flow. During normal operation, the pressure differential between the inside and the outside of the core spray line is essentially negligible. During core spray injection, an internal pressure of 133 psi was calculated based on Reference 6.

The axial load due to flow, which is a function of flow velocity and pipe diameter, was calculated separately for each pipe cross-section. The force was added to that due to the 133 psi pressure difference. The membrane stress due to this force was calculated using strength of materials formulas. Also, reaction forces and moments due to flow out of the sparger nozzles were applied at the nozzle locations. The force calculation is similar to the calculation of axial force in the nozzle. Moment is based on the force times the applicable moment arm.

Stresses due to water hammer loads are insignificant since the core spray inlet valve ramps open over a period of time upon system actuation. Additionally, the piping is full of water during actuation due to the presence of the vent hole on the top of the T-box.

4.6 Thermal Loads

The two anchor points of the internal core spray line (the core spray nozzle and the brackets on the vessel at one end and the shroud attachment points at the other end) expand vertically and horizontally at different rates due to differences in the materials' thermal expansion coefficients (low alloy steel for the vessel versus stainless steel for the shroud). Also, these displacements are expected to vary during certain transients due to the differences in temperatures between the vessel and the shroud. The loads produced by these thermal anchor displacements and thermal expansion are treated as secondary. The internal pressure in the vessel also produces vertical and horizontal anchor motion at the nozzle and the brackets. This displacement was included along with the thermal anchor displacements. The following thermal load cases need to be considered:

Thermal displacements during Normal Steady State Operation: NOD

Thermal displacements during Loss of Feedwater Pumps: LFWPD

Thermal displacements during LOCA: LOCAD

The LOCA thermal displacements may consist of several sub-cases. One case occurs when the core spray is just initiated following the LOCA event. Another sub-case may be several hours following the LOCA event. The only difference between the various LOCA sub-cases would be the assumed temperatures for the vessel, the shroud, the shroud support legs and the core spray piping. An intermediate term case, for which the shroud, the shroud support legs and the core spray line have reached final temperature, but vessel temperature has not changed, was determined to be bounding.

The Limerick core support structure includes shroud support legs (stilts). The stilt material is nickel-chrome-iron (Alloy 600). The RPV, shroud, and stilt lengths are used to determine the

thermal displacements. The calculated values of differential thermal displacements for the various transient conditions are shown in Table 1.

Table 1. Thermal Displacements for Transient Conditions.

Operating Condition	Temperatures (°F)					RPV Press. (psi)	Displacements (in.)		
	middle RPV	lower RPV	Shroud	Stilts	Pipe		RPV Horiz.	Shrd. Horiz.	Rel. Vert.
NOD	529	529	541	529	529	1053	0.501	0.482	-0.138
LFWPD	566	368	566	368	303	1178	0.549	0.514	-0.200
LOCAD	529	529	281	281	160.5	35	0.448	0.200	-0.926

The temperatures and pressures stated in the above table are derived from the information contained in the RPV thermal cycle drawing (Reference 5).

5.0 LOAD COMBINATIONS & STRESS LEVELS

This section describes the manner in which the various loads were combined for the purpose of obtaining stress levels for flaw evaluation. The limiting stress levels are then summarized.

5.1 Load Combinations

The flaw evaluation methodology used in this analysis (similar to that in Section XI in the ASME Code), makes the distinction between two categories by specifying different safety factors. A distinction is made between the normal/upset (Level A/B) condition loads, for which the factor of safety is 2.77, and the emergency/faulted (Level C/D) condition loads, for which the safety factor is 1.39.

The following load combinations were considered for normal/upset conditions:

- (1) $DW(P) + DRG1(P) + NOD(S)$
- (2) $DW(P) + CSIN(P) + LFWPD(S)$
- (3) $DW(P) + DRG1(P) + LFWPD(S)$
- (4) $DW(P) + DRG1(P) + (OBEIX^2 + OBEIY^2 + OBEIZ^2 + SRVX^2 + SRVY^2 + SRVZ^2)^{0.5} (P) + (DYNDX^2 + DYNDZ^2)^{0.5} (S)$

Note that the letter in the parenthesis indicates whether a load is primary (P) or secondary (S) as defined by the ASME Code. The load combinations used for Emergency/Faulted conditions consist of the following:

- (5) $DW(P) + DRG1(P) + (SSEIX^2 + SSEIY^2 + SSEIZ^2 + SRVX^2 + SRVY^2 + SRVZ^2 + LOCAX^2 + LOCAY^2 + LOCAZ^2)^{0.5} (P) + NOD(S) + (DYNDX^2 + DYNDZ^2)^{0.5} (S)$
- (6) $DW(P) + DRG2(P) + (SSEIX^2 + SSEIY^2 + SSEIZ^2 + APX^2 + APZ^2)^{0.5} (P) + NOD(S) + (DYNDX^2 + DYNDZ^2)^{0.5} (S)$
- (7) $DW(P) + CSIN(P) + (SSEIX^2 + SSEIY^2 + SSEIZ^2 + SRVX^2 + SRVY^2 + SRVZ^2 + LOCAX^2 + LOCAY^2 + LOCAZ^2)^{0.5} (P) + LOCAD(S) + (DYNDX^2 + DYNDZ^2)^{0.5} (S)$
- (8) $DW(P) + CSIN(P) + (SSEIX^2 + SSEIY^2 + SSEIZ^2 + APX^2 + APZ^2)^{0.5} (P) + LOCAD(S) + (DYNDX^2 + DYNDZ^2)^{0.5} (S)$

The LOCAD loads need not be included in emergency/faulted combinations 5 and 6 since these displacement-controlled loadings develop much later in time when the drag loads due to LOCA have decreased to an insignificant level.

5.2 Calculated Stress Levels

The forces and moments at various nodes in the model for all of the load sources were calculated using the PISYS and ANSYS finite element codes [References 1a and 1b]. These forces and moments were then combined to obtain the total forces and moments for a given load combination. Thus, for each load combination and each node, a set of forces and moments were obtained. Furthermore, within each set, the forces and moments from the displacement-controlled loadings were tabulated separately for the calculation of the P_e stress. As described later, the flaw

evaluation methodology uses the primary membrane (P_m), primary bending (P_b) and the expansion stress (P_e).

Figure 1 shows the core spray line weld locations analyzed for allowable flaw lengths. The calculated values of P_m , P_b and P_e stress levels at these locations are summarized in Table 2 for the governing load combinations. Since the equations for combining stresses differ for flux and non-flux type welds, the governing load combination is different for each weld type. The sparger stress is given at the weld of the sparger arm to the sparger T-box.

Table 2. Primary and Bending Stresses

Joint (Fig. 2)	Weld ID (Fig. 1)	Non-Flux				Flux			
		Comb.	P_m , psi	P_b , psi	P_e , psi	Comb.	P_m , psi	P_b , psi	P_e , psi
N/A	P2	2	$\tau=690$	---	---	2	$\tau=690$	---	---
001.	P8	2	1413	287	3910	8	1510	1016	10952
002.	P4d	2	818	162	4008	8	899	842	11258
004.	P4c	2	761	81	3537	7	956	314	10068
015.	P7, P5	2	765	62	2939	8	921	480	7897
015.	P6	2	1210	76	3619	8	1422	591	9725
025N	P4b	2	797	111	2031	7	912	524	11969
026.	P4a	2	819	53	2269	8	898	467	11618
035.	P3	7	922	1194	20178	7	922	1194	20178
037.	P3	8	1166	2276	4035	8	1166	2276	4035
058.	P4a	4	59	2406	3752	7	893	2761	10063
059F	P4b	4	213	2944	3337	7	1060	3367	9081
069.	P5, P7	7	1093	378	10816	8	1077	504	10816
069.	P6	2	1189	98	7089	8	1634	621	13319
080.	P4c	7	1097	740	13114	8	1081	815	13114
082.	P4d	8	881	1177	14755	8	881	1177	14755
083.	P8	2	1409	355	7526	8	1488	1475	14346
084.	P1	8	996	1987	11996	8	996	1987	11996
Elem 32	S1	8	894	1798	465	2	669	505	1192

The stress levels in the preceding table were used in the allowable flaw evaluations as described in the next section.

6.0 FRACTURE MECHANICS EVALUATION

The limit load methodology was used in calculating the allowable flaw lengths. This methodology is first described followed by the results of allowable flaw evaluations.

6.1 Limit Load Methodology

Consider a circumferential crack of length, $l = 2Ra$ and constant depth, d . In order to determine the point at which limit load is achieved, it is necessary to apply the equations of equilibrium assuming that the cracked section behaves like a hinge. For this condition, the assumed stress state at the cracked section is as shown in Figure 4 where the maximum stress is the flow stress of the material, σ_f . Equilibrium of longitudinal forces and moments about the axis gives the following equations:

$$\beta = [(\pi - \alpha d/t) - (P_m/\sigma_f)\pi]/2 \quad (1)$$

$$P_b' = (2\sigma_f/\pi) (2 \sin \beta - d/t \sin \alpha) \quad (2)$$

Where t = pipe thickness, inches

α = crack half-angle as shown in Figure 4

β = angle that defines the location of the neutral axis

Z = Weld type factor

P_e = Piping expansion stress

P_m = Primary membrane stress

P_b = Primary bending stress

P_b' = Failure bending stress

The safety factor is then incorporated as follows:

$$P_b' = Z * SF (P_m + P_b + P_e/SF) - P_m \quad (3)$$

P_m and P_b are primary stresses. P_c is secondary stress and includes stresses from all displacement-controlled loadings such as thermal expansion and dynamic anchor motion. All three quantities are calculated from the analysis of applied loading. The safety factor value is 2.77 for normal/upset conditions and 1.39 for emergency/faulted conditions.

Z Factor

The test data considered by the ASME Code in developing the flaw evaluation procedure (Appendix C, Section XI) indicated that the welds produced by a process without using a flux had fracture toughness as good or better than the base metal. However, the flux welds had lower toughness. To account for the reduced toughness of the flux welds (as compared to non-flux welds) the Section XI procedures prescribe a penalty factor, called a 'Z' factor. The examples of flux welds are submerged arc welds (SAW) and shielded metal arc welds (SMAW). Gas metal-arc welds (GMAW) and gas tungsten-arc welds (GTAW) are examples of non-flux welds. Figure IWB-3641-1 may be used to define the weld-base metal interface. The expressions for the value of the Z factor in Appendix C of Section XI are given as follows:

$$\begin{aligned} Z &= 1.15 [1 + 0.013(OD-4)] \text{ for SMAW} \\ &= 1.30 [1 + 0.010(OD-4)] \text{ for SAW} \end{aligned}$$

where OD is the nominal pipe size (NPS) in inches. The procedures of Appendix C recommend the use of $OD = 24$ for pipe sizes less than 24 inches. This approach is very conservative and, therefore, the use of actual NPS was made in calculating the 'Z' factor. This approach is considered reasonable as recent discussions in the Section XI Code Working Group on Pipe Flaw Evaluation indicate that for small diameter pipes, such as the 6-inch diameter core spray piping, the Z-factor may be close to or less than 1.0.

Nevertheless, the allowable flaw size calculations were conducted using both the approaches (i.e., assuming nominal diameters of 6 inches and 24 inches). Similar method was performed for the 4

inch sparger. The flux-type welding process used in the field was shielded metal arc type (SMAW). therefore, the Z-factors by the two approaches are:

$$\begin{aligned} Z_{4\text{-inch}} &= 1.15[1 + 0.013(4-4)] = 1.15 && \text{(sparger)} \\ Z_{6\text{-inch}} &= 1.15[1 + 0.013(6-4)] = 1.18 && \text{(core spray line)} \\ Z_{24\text{-inch}} &= 1.15[1 + 0.013(24-4)] = 1.45 && \text{(both)} \end{aligned}$$

If the indication is located in the base metal or near the non-flux weld, Z is as:
 P_e stresses are not used in the calculation, consistent with Appendix C guideli

Typically a search of the QC records is required to ascertain whether a weld at any location in the core spray line was completed using a flux or non-flux process. A search through Limerick engineering (non-QC) records produced the following information. The vendor for the internal core spray line (piping between the thermal sleeve and the sliding sleeve in the vertical riser) was Murdock. The weld procedure submitted by vendor (as required by GE specification 21A8705) is contained in VPF 3405-2-4 and is a Gas Tungsten Arc non-flux weld process. Since this was the only procedure submitted by the vendor, it is reasonable to conclude that all of the shop welds in the internal core spray lines (piping between the thermal sleeve and the sliding sleeve in the vertical riser) were completed using this weld procedure. The shroud vendor (including the CSL shroud attachment and the spargers) was Sun Shipbuilding and Drydock, Inc. Sun Shipbuilding submitted Procedures 39 (VPF 3398-009-00, non-flux) and 54 (VPF 3398-010-00, TIG first pass, remainder flux weld) for welds P7, P4c, P4d, P8a, and S1; and Procedure 37 (VPF 3398-008-00, flux or non-flux) for weld P8b. For the field welds, no definite information was available to determine whether a flux or non-flux type weld procedure was used. For information purposes, all of the allowable flaw calculations were conducted considering both the flux and non-flux cases.

6.2 Allowable Flaw Length Calculation

The stresses from the table in the preceding section were used to determine the acceptable end-of-cycle through-wall flaw lengths. The acceptable flaw size was determined by requiring a safety factor. The flow stress was taken as $3S_m$ ($S_m = 14.4$ ksi for Type 304L stainless steel at 550°F).

As specified in Reference 2, safety factors of 2.77 for normal/upset conditions and 1.39 for emergency/faulted conditions, respectively, were used. Since the stress analysis considered the welds at the coupling to be intact, the allowable flaw lengths were independent of the engagement length. The calculated values of the allowable flaw lengths are tabulated, and shown in Table 3. Crack growth of 1.6 inches, based on reinspection at the end of a 24-month fuel cycle, is deducted from the allowable crack lengths. The basis for the 1.6 inch crack growth is discussed in the next Subsection.

Table 3. Allowable Flaw Lengths (Beginning-of-Cycle)

Joint (Fig. 2)	Weld ID (Fig. 1)	non-flux		flux, Z(nom OD)		flux, Z = 1.45	
		2 α , °	2a, in	2 α , °	2a, in	2 α , °	2a, in
N/A	P2	207.7	16.1	200.3	15.5	193.3	14.9
001.	P8	197.5	13.7	123.4	8.6	108.4	7.5
002.	P4d	216.3	12.5	125.7	7.2	108.9	6.2
004.	P4c	221.5	12.8	136.3	7.8	120.8	6.9
015.	P7, P5	222.1	12.8	148.8	8.6	134.8	7.7
015.	P6	206.1	12.7	132.3	8.1	117.6	7.2
025N	P4b	218.9	12.6	124.1	7.1	107.1	6.1
026.	P4a	219.9	12.7	126.6	7.3	109.9	6.3
035.	P3	212.9	12.3	78.5	4.5	55.1	3.1
037.	P3	193.6	11.1	155.0	8.9	141.9	8.2
058.	P4a	182.8	10.5	117.7	6.8	99.9	5.7
059F	P4b	168.3	9.7	117.0	6.7	99.2	5.7
069.	P5, P7	221.8	12.8	129.2	7.4	113.0	6.5
069.	P6	206.2	12.7	110.8	6.8	93.6	5.7
080.	P4c	215.7	12.4	114.3	6.6	96.2	5.5
082.	P4d	214.2	12.3	104.8	6.0	85.3	4.9
083.	P8	196.1	13.6	102.8	7.1	85.3	5.9
084.	P1	206.0	15.0	116.0	8.4	99.6	7.2
Elem 32	S1	191.7	7.5	180.6	7.0	169.8	6.6

6.3 Crack Growth Evaluation

Prior crack growth analyses performed for BWR shroud indications have conservatively used a crack growth rate of 5×10^{-5} inch/hot hour.

The stresses induced in the core spray line are very low, as evidenced by the stress results presented in the previous section. Those stress results also conservatively include the effects of seismic and core spray injection loads, which are not typically present. Therefore, the applied stress intensity factor is low, and the corresponding crack growth rate would be significantly below the upper bound value of 5×10^{-5} inch/ hot hour used here.

Pre-operational testing of BWR internals has demonstrated that high cycle fatigue resulting from flow induced vibration is not a concern for the core spray piping. Additionally, low cycle fatigue caused by assumed thermal transients which could be potentially imposed by cold fluid injections through the feedwater spargers located directly above the core spray lines have been found to be insignificant. Therefore, fatigue crack propagation of indications in the core spray lines is concluded to be negligible, and is not considered to be a further contributor to the crack growth values discussed here.

Thus, a conservative crack growth rate of 5×10^{-5} in/ hot hr can be used in the flaw evaluations. This crack growth rate translates into a crack length increase of (8000 hrs per year)(2.0 years) (5×10^{-5}) or 0.8 inch at each end of an indication assuming a 24-month fuel cycle. Thus, the projected length, l_f , of any indication whose current length at the time of inspection is l_p , would be $(l_p + 0.8 \times 2)$ inches. A factor of 2 in the preceding parenthesis is to account for the growth at each end of the indication.

7.0 LEAKAGE EVALUATION

7.1 Leak Rate Calculation Methodology

The leakage from the core spray line into the RPV annulus could come from a number of sources such as through the 0.25 inch vent hole at the top of the T-box, through the gap between the sleeve and the nozzle ID, and through the presence of any through-wall cracks in the piping. The leakage rate through the vent hole was estimated assuming incompressible Bernoulli flow through the hole:

$$Q = CA\sqrt{2g_c\Delta P / \rho} \quad (4)$$

- where, Q = Leakage
 C = flow coefficient (assumed to be 0.6 for an abrupt contraction as in the case of vent hole)
 A = area
 ρ = mass density of fluid
 ΔP = pressure difference across the pipe/vent

A ΔP value of 85.8 psi based on Reference 6 was used. This is the upper bound value of steady state pressure during the core spray operation for this plant.

Leak rate from the through-wall indications in the core spray line can also be estimated using the preceding equation with the value of flow coefficient, C, assumed as 1.0. A key input needed is the crack opening area, A.

The approach used in this evaluation to calculate the value of A, was to assume a conservative value of crack opening displacement, δ , and assume the crack opening configuration to be like a rectangular slot with one side being the crack length, 2a, and the other side as the crack opening displacement. A value of 0.01 inch was assumed for δ . Linear elastic fracture mechanics

calculations indicated this assumed value of δ to be conservative for cracks up to 120°. The crack opening area is then simply:

$$A = 2a(\delta) \quad (5)$$

7.2 Overall Leak Rate Calculation

The leak rate was calculated using a differential pressure of 85.8 psi. Using this value as the ΔP in equation (4) gave a 10.4 gpm leak rate from the vent hole.

The leak rates from any indications would be a function of the detected number and lengths of the indications which will be known only after an examination of the internal core spray piping has been conducted. To facilitate this calculation after the examination results are determined, leak rate per inch of crack length is provided herein. This leak rate was calculated as 3.5 gpm per inch of crack length. It should be noted that the crack length to be used for leak rate calculation should include expected crack growth during the next operating cycle.

This leakage calculation can be used to evaluate the effect on the current SAFER/GESTR LOCA analysis, and to demonstrate that the conclusions are still applicable.

7.3 Leakage Acceptance Criterion

Any fluid that leaks from the core spray piping into the RPV annulus is potentially unavailable for core cooling during the event when core spray operation is postulated. A reduction in the core spray flow (whether as a result of leakage through cracks or for any other reason) may result in an increase in the Peak Cladding Temperature (PCT). Thus, the tolerable leakage is a function of acceptable increase in the calculated value of PCT. The current licensing basis PCT value for Units 1 and 2 is 1625°F, and the calculated value is less than 1430°F [Reference 12]. The flow rate for LPCS system used in that evaluation was 5000 gpm. An approximate analysis assuming a 250 gpm reduction in the LPCS flow rate predicted an increase of 17°F in the calculated value of PCT. Based on these temperatures, a leak rate of 250 gpm is acceptable since the calculated

value of PCT, including the increase due to LPCS flow leakage, is still less than the licensing basis PCT value.

8.0 SUMMARY & CONCLUSIONS

A flaw evaluation, consisting of stress and limit load analyses of the internal core spray piping of Limerick was performed to develop a flaw disposition handbook. Procedures similar to those in Paragraph IWB-3640, ASME Section XI, were used in determining the allowable flaw lengths. Allowable flaw lengths were calculated at several critical locations and leak rate calculation methodology was presented. The methodology presented in this report can also be used to disposition any indications detected during future inspections of the internal core spray lines.

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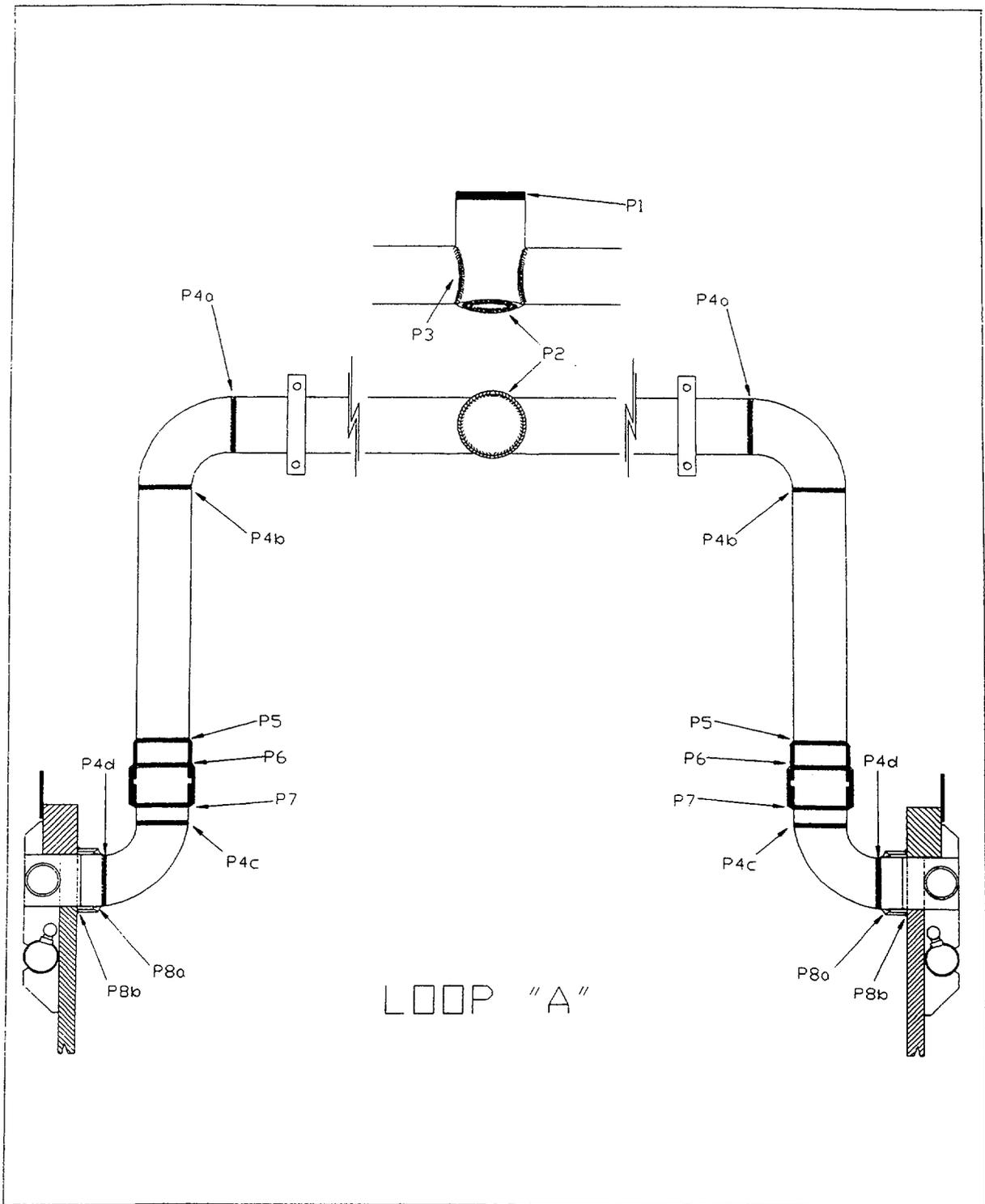


Figure 1 Schematic of Limerick Internal Core Spray Piping Configuration

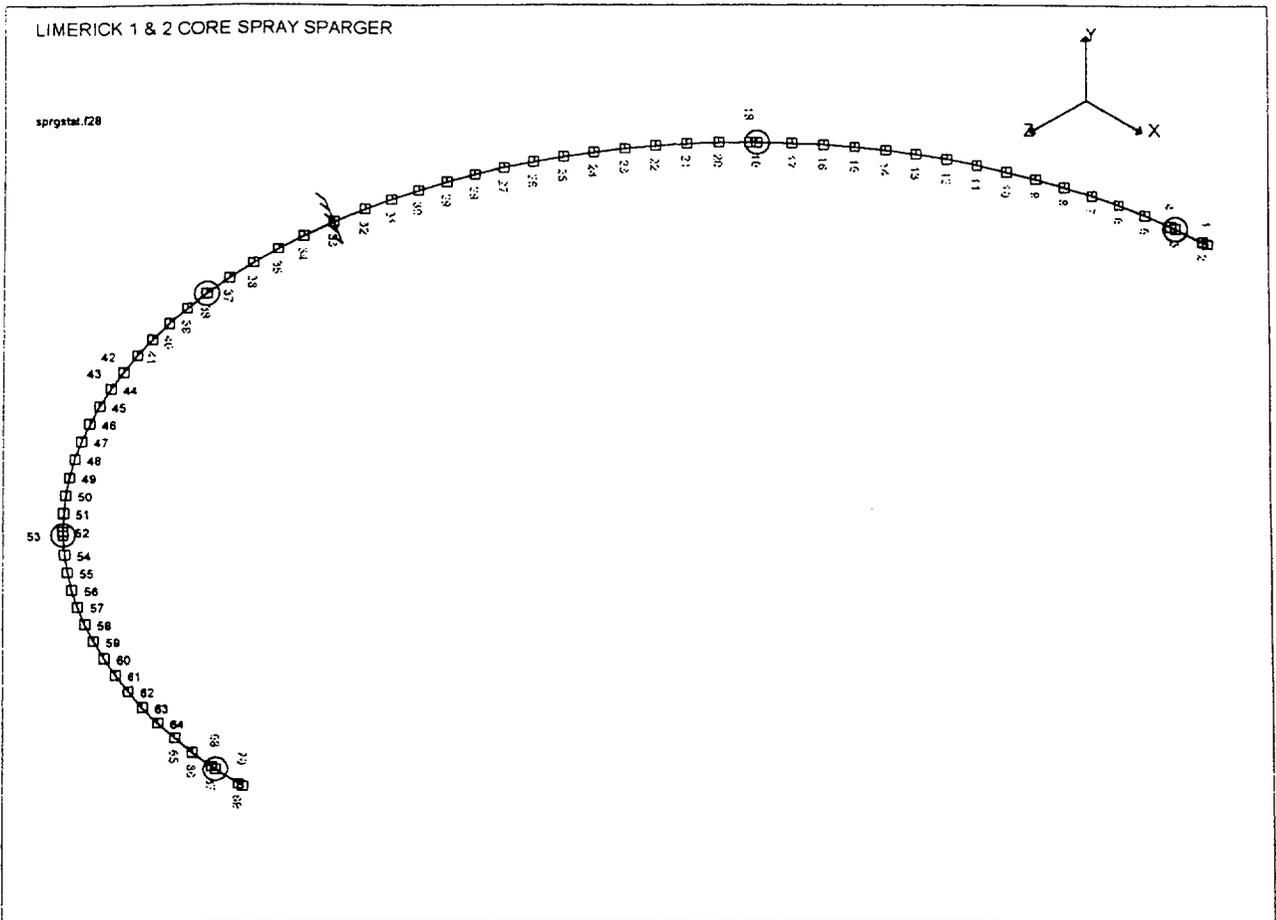


Figure 3 Finite Element Model of the Limerick Core Spray Sparger

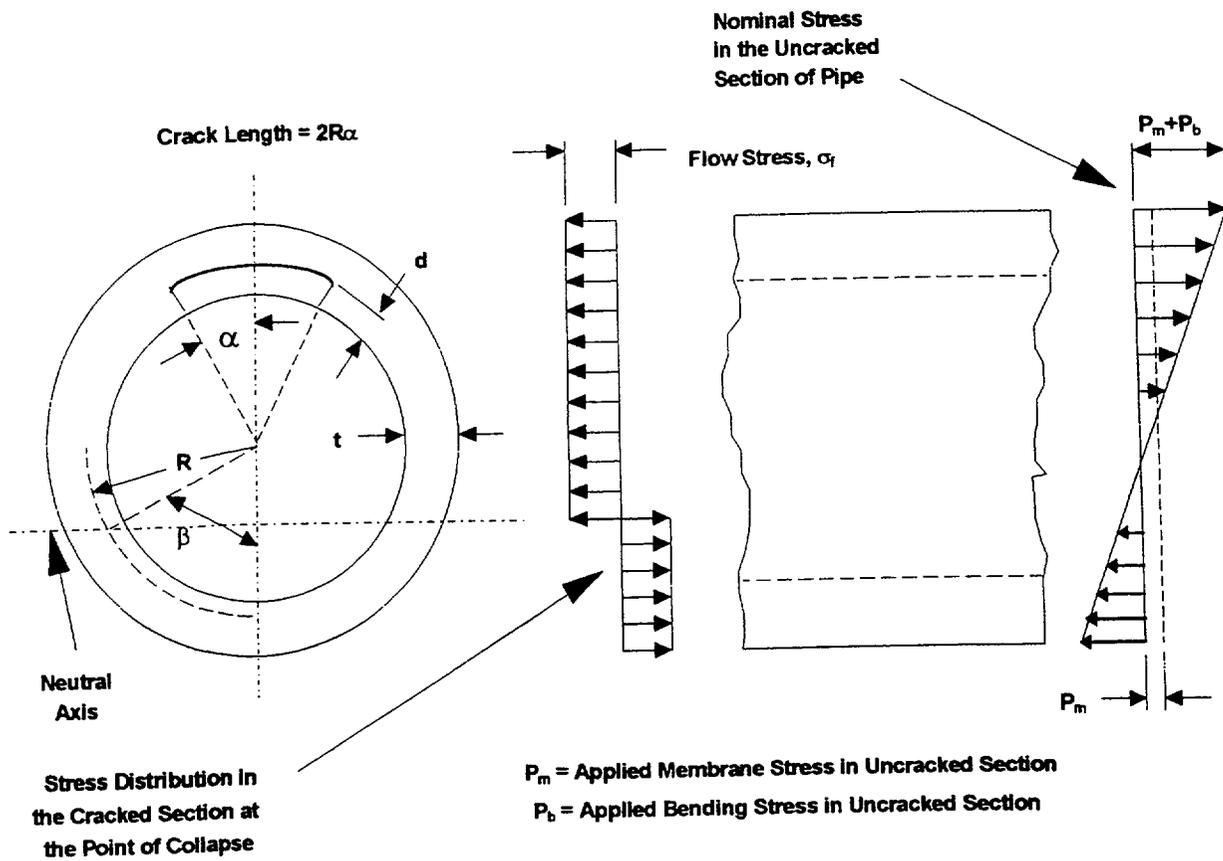


Figure 4 Stress Distribution in a Cracked Pipe at the Point of Collapse



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AT
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Prepared for

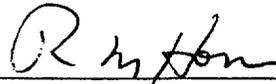
Exelon Corp.
Limerick, Unit 1

**JET PUMP RISER TO YOKE WELD FLAW EVALUATION
AT
LIMERICK GENERATING STATION, UNIT 1**

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Table of Contents

<u>Subject</u>	<u>Page No.</u>
1. EXECUTIVE SUMMARY	1
2. INTRODUCTION & BACKGROUND.....	2
3. BRACE WELD GEOMETRY	2
4. FLOW-INDUCED VIBRATION (FIV) EVALUATION.....	3
4.1. Vibration Stress Calculation Procedure Summary.....	3
4.2. Detailed Vibration Stress Calculation Procedure.....	4
4.3. Beam Finite Element Model and Mode Shape Factors.....	5
4.4. FIV Loads at the Riser to Yoke Junction.....	5
4.5. FIV Review of Past Events at Limerick 1	6
5. THREE DIMENSIONAL STRESS ANALYSIS	6
5.1. Finite Element Model	6
5.2. Calculation of Stresses.....	7
6. FRACTURE MECHANICS EVALUATION	7
6.1. Fatigue Threshold ΔK Value	8
6.2. FIV threshold Crack Length	8
6.3. SCC Crack Growth	9
6.4. Allowable Flaw Length Comparison.....	9
6.5. Leak Rate Prediction.....	9
6.6. Summary of Fracture Mechanics Evaluation.....	10
7. INSPECTION RECOMMENDATION	11
8. SUMMARY AND CONCLUSIONS	11
9. REFERENCES.....	12
ATTACHMENT	22

<u>Table</u>	<u>Page No.</u>
Table 1 Frequencies and Mode Shape Factors.....	13
Table 2 Calculated Modal Moments for 100% Core Flow	13

<u>Figure</u>	<u>Page No.</u>
Figure 1: Jet Pump Riser to Yoke Weld Designations	14
Figure 2: RS-8 and RS-9 Weld Geometry	15
Figure 3: Finite Element Beam Model for FIV Evaluation	16
Figure 4: Riser Brace Response Spectrum During BF1 Start-up Test	17
Figure 5: Three Dimensional Finite Element Model	18
Figure 6: Stress Intensities at Yoke Weld for 100% Core Flow FIV Loads.....	19
Figure 7: ΔK Threshold Values for Various Steels as a Function of R-Ratios	20
Figure 8: GE Test Data on ΔK_{th} and Fatigue Crack Growth Rates in Type 304 SS	21

1. EXECUTIVE SUMMARY

Several RS-8 and RS-9 jet pump welds at Limerick Generating Station, Unit 1 (LGS1) were inspected during RF-09 (March 2002). The end of the RS-9 weld on jet pump 14 side showed a short indication. This report presents the results of flaw evaluation for this indication.

The flow induced vibration (FIV) loads at the RS-9 weld were calculated using the lead plant start-up test data and from the summation of the contributions from significant modes of flow-induced vibration. The calculated loads were adjusted to account for currently rated thermal power and increased core flow to 110% conditions.

The calculated FIV loads were then applied to a three-dimensional finite element model of the riser pipe to yoke weld region to determine the stress state at the observed cracking location. From this stress analysis it was concluded that given some unusual discontinuity at the end of the riser pipe to yoke weld, initiation of a fatigue crack due to FIV stresses at this location is conceivable.

The FIV loads were also used in the fracture mechanics evaluation to determine the through-wall flaw length at the weld that would be below the threshold length for fatigue crack growth due to FIV. A circumferential crack was postulated in the riser pipe. The current allowable fatigue threshold flaw length was determined as 1.6 inches after subtracting the projected SCC growth of 1.6 inches (for a two-year fuel cycle of operation) from the fatigue threshold flaw length of 3.2 inches. Since the estimated current crack length of 0.39 inch is less than the allowable value of 1.6 inches, plant operation for at least one fuel cycle in as-is condition is technically justified.

The leak rate for the end of inspection period flaw length was calculated as 14 gpm. This leak rate does not affect the normal plant operation or the LOCA response. It is recommended that the RS-9 weld at jet pumps 13-14 at LGS1 be re-inspected during RF-10.

2. INTRODUCTION & BACKGROUND

Several jet pump riser to yoke attachment welds (RS-8 and RS-9) at Limerick Generating Station, Unit 1 (LGS1) were inspected during RF-09 (March 2002). The weld designations are per Reference 1. Figure 1 shows the locations of these welds. The RS-9 weld on Jet Pump 14 side contained a crack (Reference 2). The indication was re-examined after brushing the area and it was noted that the indication continued into the pipe material and down the side of the yoke to pipe weld. The indication geometry is described in the GE inspection report included here as Attachment. The estimated total length of the indication is 0.39 inch.

The objective of this report is to present the results of the flaw evaluation conducted to justify operation in the as-is condition for at least one fuel cycle of operation. Section 3 describes the weld geometry, materials, etc. The jet pump structure is subjected to FIV loading. Section 4 describes the evaluation process and the calculation results for the flow-induced loads at the RS-9 weld. Section 5 presents the results of three-dimensional finite element analysis that characterized the stress state at the location of the observed cracking. This information is used to determine the propensity of fatigue crack initiation at the observed crack location. The FIV loads determined earlier were also used in Section 6 to calculate the allowable circumferential flaw length at this location that will assure no fatigue crack growth due to FIV loading. Future inspection recommendation is presented in Section 7. Finally, Section 8 presents the results and conclusions.

3. BRACE WELD GEOMETRY

The riser pipe, the yoke and the brace geometries are covered in Reference 3 drawings. The material of construction is Type 304 stainless steel. The riser pipe is 10-inch schedule 30 (10.75-inch OD and thickness = 0.31 inch).

Drawing 197R626 (Reference 4) shows the riser brace yoke weld joint configuration to be a single sided, partial penetration design and to have a central yoke recess with the upper and lower edges extended 0.09 + .05, -.00 inch with some weld preparation angle,

possibly 37.5 degrees with some land thickness (see Figure 2). The top of the partial penetration weld is called out on the drawing as being flush or flat.

The weldment in the photo (see Figure A-2 of Attachment) appears to be convex with some fillet weld leg and throat dimension(s) above flush. A fillet weld's convex condition would appear to be preferred over a flush condition because the perpendicular transition between the yoke and the pipe would not be as sharp but more of a gradual transition. However, the weldment in the photo, although very uniform with good wetting and apparent fusion to the base metals along the weld length, shows possible irregularities at the fillet weld stop area. The most prominent indication is a "Crater" in the center of the weld bead back slightly from the stop. The welders, using a fixed current welding system and "pulling" the arc out to terminate the weld, probably formed this crater. The resulting crater is not desired but not uncommon. There does not appear to be any cracks emanating from the crater. Normally, the end of a fillet weld is "wrapped" or tapered down and blended into the base metals. The photo below shows a possible small "void" (dark area) at the end of the convex fillet weld layers. The crack appearing at the end of the fillet weld final layer may have initiated at the edge of a thin area (throat) if there is a slight void present. This condition combined with normal weldment shrinkage across the fillet face could be responsible for the observed crack initiation.

4. FLOW-INDUCED VIBRATION (FIV) EVALUATION

4.1. Vibration Stress Calculation Procedure Summary

Flow induced vibration (FIV) loads are caused when turbulent flow excites the natural frequencies of the jet pump assembly. The process of determining the FIV stresses in the region of riser pipe to yoke weld can be summarized as follows:

4.1.1 Review the startup vibration data for the Browns Ferry 1(BF1) plant, the prototype plant for LGS1, to determine the jet pump primary structural vibration modes of interest and their modal amplitudes.

4.1.2 Create a finite element beam model of the LGS1 jet pump.

4.1.3 Use the beam model and determine the natural frequencies, mode shapes, and modal stresses of all structural modes of interest using the SAP4G07 computer program. Compare the frequency results to the startup test data to assure applicability of strain measurements.

4.1.4 From the modal stresses determine the “mode shape factors” for each mode of interest to relate the strain measured at the riser brace to the loads (forces and moments) at the yoke/riser pipe connection point.

4.1.5 From the startup data for the BF1 plant, determine the maximum vibration amplitudes at the riser brace for each mode of interest.

4.1.6 Multiply these individual maximum modal strains by their corresponding mode shape factors to arrive at the loads (forces and moments) at the yoke/riser pipe connection point. The calculated moments are the inputs to the detailed three-dimensional finite element model discussed in Section 5 and to the flaw evaluation discussed in Section 6.

4.2. Detailed Vibration Stress Calculation Procedure

4.2.1 Startup Vibration Strain Time-History Data

In order to perform a realistic fatigue initiation evaluation at the riser to yoke weld, it is necessary to calculate the FIV stress amplitudes at this location. To determine the FIV stress, use is made of the measured JP riser brace modal vibration amplitudes obtained during startup testing of the BF1 plant. The first step in the process is to determine an appropriate digitized riser brace time history from the analog strain time history obtained during startup testing. During startup testing, strain gages were attached to jet pump riser braces for the purpose of measuring jet pump vibration strains at operating conditions. The strain time histories were recorded on magnetic tapes for later data analysis. For the fatigue evaluation reported here, riser brace strain time histories from BF1 jet pumps during the 100% power and rated flow test condition was used as the source for calculating the yoke/riser pipe stresses.

4.2.2 Digitization of the BF1 Riser Brace Strain Signal

The riser brace leaf strain gage signal tape from the 100% power, rated flow test condition was played back on a 14-channel tape recorder to produce the analog signal. This analog signal was fed into a Hewlett Packard signal analyzer (HP 3566). To ensure that the signal characteristics of all frequencies of interest (up to 100 Hz.) are captured, a digitizing time interval of 0.00390625 seconds was used in the digitization process.

The digitized riser brace strain signal was further processed by the HP analyzer to determine its response spectrum. The response spectrum was used to arrive at the strain amplitudes at the riser brace locations for each of the mode of interest.

4.3. Beam Finite Element Model and Mode Shape Factors

Figure 3 shows the beam finite element model of LGS1 jet pump. The effect of hydrodynamic mass on the jet pump assembly dynamic response was accounted for in the model by using a direct added mass input. From the mode shapes, the corresponding 'mode shape factors'(MSF) were determined to translate for each mode the forces and moments from the riser brace to riser pipe to yoke junction. The MSF is essentially the ratio between the strain at the strain gage location on the riser brace and the forces and moments at the riser pipe to yoke junction. Figure 4 shows the riser brace strain response spectrum from the BF1 test data. Table 1 shows the modal frequencies of interest and the corresponding MSF values.

4.4. FIV Loads at the Riser to Yoke Junction

The calculated FIV moments at the riser to yoke junction are summarized in Table 2. These loads were used in the three-dimensional finite element analysis described in Section 5 and in the fracture mechanics evaluation of Section 6.

4.5. FIV Review of Past Events at Limerick 1

The following events were reviewed to see if they could have resulted in increased FIV loads.

1. March 21, 1985: Reactor scram from 97% power
2. January 31, 1985: Reactor scram from 3.5% power
3. July 8, 1989: Power transient for 22 seconds caused by M/G set speed from 87% to 54%
4. July 19, 1995: Reactor power perturbation caused by M/G set response to speed decrease signal
5. February 10, 1998: Flow mismatch in Jet pump pair 1 & 2
6. April 11, 2000: Debris (feedwater tubesheet plug and tailpieces) around base of Jet Pump 11.

It was concluded that the FIV loads resulting from these events were not significant enough to contribute to initiation of a fatigue crack at the riser pipe to yoke weld. The FIV analysis assumed that there are no set screw gaps and no significant cracking exists at the other welds in jet pumps 13 and 14.

5. THREE DIMENSIONAL STRESS ANALYSIS

The objective of this stress analysis was to determine the propensity of fatigue crack initiation due to FIV loads at the observed crack location.

5.1. Finite Element Model

Figure 5 shows the details of the three-dimensional finite element model including the riser brace and the riser pipe to yoke region. The FIV moment loads in Table 2 for each mode were applied on this model to calculate the resulting stress state. It should be noted that the loads in Table 2 are amplitudes.

5.2. Calculation of Stresses

Both the stresses and the stress intensities were calculated at several locations. It was determined that the stresses can be estimated by the square root of the sum of the squares of the individual mode stresses. Figure 6 shows the distribution of calculated stress intensities at the yoke to riser pipe junction. It is seen that the stress intensity value is the highest near the end of the yoke to riser pipe weld and then tapers off quickly as one moves towards the center of the weld. The highest value of the calculated stress intensity in Figure 6 is approximately 3900 psi. If the factors for currently rated thermal power (1.05) and increased core flow operation (1.21) are applied, this value becomes $(3900 \times 1.05 \times 1.21)$ or 4960 psi. If a typical stress concentration factor (SCF) of 1.8 is used here, the amplitude of the stress intensity at the weld is calculated as (4960×1.8) or 8930 psi. This stress intensity amplitude is less than 10000 psi used as the fatigue initiation threshold value in FIV analyses. However, if some unusual discontinuity is present at the end of the weld, it is not inconceivable to have an SCF of 3 or higher. In that case, the calculated stress intensity would exceed 10000 psi and fatigue initiation at this location cannot be ruled out.

Based on the preceding discussion, it is concluded that given some unusual discontinuity at the end of the riser pipe to yoke weld, initiation of a fatigue crack due to FIV stresses at this location is conceivable.

6. FRACTURE MECHANICS EVALUATION

The key step in the fracture mechanics evaluation is to determine the through-wall flaw length at the weld that would be below the threshold length for fatigue crack growth due to FIV. A circumferential crack is postulated in the riser pipe. Between the current crack length and the fatigue threshold flaw length, the potential mechanism for crack growth is stress corrosion cracking (SCC). Therefore, discussion is also provided for the value of SCC growth rate used in the flaw evaluation.

6.1. Fatigue Threshold ΔK Value

Figure 7 from Reference 5 shows a plot of a reasonably conservative set of ΔK_{th} values as a function of R-ratio for 18/8 stainless steels of which Type 304 stainless steel is a subset. The R-ratio is an indication of the relative magnitudes of the mean and the fluctuating stresses. The R-ratio at the yoke to riser pipe weld location is expected to range from 0.5 to 0.7. GE test data to determine ΔK_{th} values for Type 304 stainless steels as reported in Reference 6 were also reviewed. Figure 8 shows this data. Although the testing did not cover the full range of R-ratios and temperatures, it is clear from the data in Figure 8 that a ΔK_{th} value of 5 ksi $\sqrt{\text{in}}$ is a reasonably conservative value. Therefore, a ΔK_{th} value of 5 ksi $\sqrt{\text{in}}$ was used in this evaluation.

6.2. FIV threshold Crack Length

For the purpose of this calculation, a through-wall circumferential indication is assumed in the riser pipe. The ΔK value for a given bending moment range is calculated using the following expressions from Reference 7:

$$\Delta K = \sigma_b (\pi R \theta)^{0.5} F_b$$

Where

$$\sigma_b = M/\pi R^2 t$$

$$F_b = 1 + A [4.5967(\theta/\pi)^{1.5} + 2.6422(\theta/\pi)^{4.24}]$$

$$A = [0.4(R/t) - 3.0]^{0.25} \quad \text{for } 10 \leq R/t \leq 20$$

M is the applied moment range. R, t, and θ are the pipe mean radius, wall thickness, and crack half-angle, respectively. The R/t value for the riser pipe is 17. The bending moment used in the calculation is 25454 in-lbs that includes the effect of currently rated thermal power and increased core flow to 110% (see footnote to Table 2). The allowable fatigue threshold crack length ($\pi R \theta$) was calculated by iteration such that the calculated value of ΔK was equal to or less than 5 ksi $\sqrt{\text{in}}$. The calculated value of this allowable length was 3.2 inches. The projected SCC growth over the next inspection period need to be subtracted from this value to determine the current allowable flaw length.

6.3. SCC Crack Growth

The LGS1 operates with hydrogen water chemistry (HWC) and has had NobleChem application. However, for the purpose of this evaluation a bounding crack growth rate of 5×10^{-5} in/hr was used. Assuming 8000 nominal operating hours in a year and a two-year fuel cycle, the number of operating hours work out to be 16000 for an inspection interval of one fuel cycle. The calculated SCC growth is then $(16000 \times 5 \times 10^{-5})$ or 0.8 inch at each end of the indication. The growth in total length of the indication is 2×0.8 or 1.6 inches.

6.4. Allowable Flaw Length Comparison

As indicated in Section 6.2, the calculated fatigue threshold allowable crack length of 3.2 inches applies to the end of the inspection period. Assuming that the inspection period is a two-year fuel cycle, the projected SCC growth rate is 1.6 inches. Therefore, the current allowable crack length is $(3.2 - 1.6)$ or 1.6 inches. The total crack length reported in the Attachment is 0.39 inch. Since this length is less than the allowable value of 1.6 inches, plant operation for at least one fuel cycle in as-is condition is technically justified.

6.5. Leak Rate Prediction

The leak rate calculation methodology outlined in Reference 1 was used to determine the predicted leak rate at the end of inspection period. The relationship used is the following:

$$Q = CA (2g_c \Delta P / \rho)^{0.5}$$

where,

- Q = leakage
- C = flow coefficient, assumed as 1.0 for a crack
- A = area
- g_c = gravitational constant
- ρ = mass density of fluid
- ΔP = pressure difference across the pipe

The crack opening area A could be defined as $(2a\delta)$, where $2a$ is the end of inspection period crack length and δ is the crack opening displacement. A constant value of 0.01 inch was assumed for δ . Linear elastic fracture mechanics calculations have shown that this assumption is conservative for short flaw lengths. The values of other parameters used are the following:

$$\begin{aligned} \Delta P &= 250 \text{ psi.} \\ \rho &= 46 \text{ lbs/cu.-ft at } 550^\circ \text{ F} \\ 2a &= (0.39+1.6) \text{ or } \approx 2.0 \text{ inches} \end{aligned}$$

The leak rate using the preceding relationship was calculated as 14 gpm. This leak rate will not affect the normal operation of the plant. Additionally, the short-term peak cladding temperature response and the ability to provide adequate long-term core cooling are also unaffected by this leak rate.

6.6. Summary of Fracture Mechanics Evaluation

The fracture mechanics evaluation to determine fatigue threshold flaw length was conducted using the FIV bending moment calculated in the footnote to Table 2. The current allowable fatigue threshold flaw length was determined as 1.6 inches after subtracting the projected SCC growth of 1.6 inches (for a two-year fuel cycle of operation) from the fatigue threshold flaw length of 3.2 inches based on a material ΔK_{th} of 5.0 ksi $\sqrt{\text{in}}$. Since the estimated current crack length of 0.39 inch is less than the allowable value of 1.6 inches, plant operation for at least one fuel cycle in as-is condition is technically justified. The leak rate for the end of inspection period flaw length was calculated as 14 gpm. This leak rate does not affect the normal operation or the LOCA response.

7. INSPECTION RECOMMENDATION

It is recommended that the RS-9 weld at Jet pups 13-14 at LGS1 be re-inspected during RF-10. This would also help benchmark the SCC growth rate assumption used in this evaluation.

8. SUMMARY AND CONCLUSIONS

Several RS-8 and RS-9 jet pump welds at LGS1 were inspected during RF-09 (March 2002). The end of the RS-9 weld on jet pump 14 side showed a short indication. This report presents the results of flaw evaluation for this indication.

The FIV loads at the RS-9 weld were calculated using the lead plant start-up test data and from the summation of the contributions from significant modes of flow-induced vibration. The calculated loads were adjusted to account for currently rated thermal power and increased core flow to 110% conditions.

The calculated FIV loads were then applied on a three-dimensional finite element model of the riser pipe to yoke weld region to determine the stress state at the observed cracking location. From this stress it was concluded that given some unusual discontinuity at the end of the riser pipe to yoke weld, initiation of a fatigue crack due to FIV stresses at this location is conceivable.

The FIV loads were also used in the fracture mechanics evaluation to determine the through-wall flaw length at the weld that would be below the threshold length for fatigue crack growth due to FIV. A circumferential crack was postulated in the riser pipe. The current allowable fatigue threshold flaw length was determined as 1.6 inches after subtracting the projected SCC growth of 1.6 inches (for a two-year fuel cycle of operation) from the fatigue threshold flaw length of 3.2 inches. Since the estimated current crack length of 0.39 inch is less than the allowable value of 1.6 inches, plant operation for at least one fuel cycle in as-is condition is technically justified.

The leak rate for the end of inspection period flaw length was calculated as 14 gpm. This leak rate does not affect the normal plant operation or the LOCA response. It is

recommended that the RS-9 weld at jet pumps 13-14 at LGS1 be re-inspected during RF-10.

9. REFERENCES

1. "BWR Jet Pump Assembly Inspection and Flaw Evaluation Guidelines (BWRVIP-41)," EPRI Report No. TR-108728, October 1997.
2. LGS1R09 Ind Note Report 03.doc.
3. GE Drawings: (a) 730E896 G001 for Riser Assembly, (b) 117C2809 P001 for Riser Pipe, (c) 158B102 P001 for Brace Arm.
4. GE Drawing 197R626.
5. J.M. Barsom and S.T. Rolfe, "Fracture and Fatigue Control in Structures – Applications of Fracture Mechanics," Prentice Hall, Inc., Second Edition (1987).
6. P.K. Liaw, M.G. Peck and H.S. Mehta, "Fatigue Crack Propagation Behavior of Stainless Steels," Report prepared by Westinghouse STC for GE Nuclear Energy, Contract No. 529-88B860X, April 1990 (GE Proprietary).
7. "Ductile Fracture Handbook, Volume 1, Circumferential Throughwall Cracks," EPRI Report No. NP-6301-D, June 1989.

Table 1 Frequencies and Mode Shape Factors

Mode of Interest	Frequency (Hertz)	Mode Shape Factors for		
		Mx	My	Mz
1	15.0	2.32	272.75	0.0
2	23.5	-0.25	0.18	244.29
3	33.0	-17.4	77.83	172.20
4	45.5	-143.70	374.44	-15.35

Table 2 Calculated Modal Moments for 100% Core Flow

Mode	Mx (in-lbs)	My (in-lbs)	Mz (in-lbs)
1	47	5531	0
2	-10	7	10334
3	-1075	4810	10642
4	-4026	10492	-430
SRSS	4168	12799	14840

Total SRSS Moment = $\sqrt{\{(4168)^2 + (12799)^2 + (14840)^2\}}$ or 20035 in-lb.

Note: The above total moment was conservatively multiplied by 1.05 for 105% power uprate and by 1.21 to account for increased core flow to 110%. Therefore, the SRSS moment accounting for currently rated thermal power and increased core flow to 110%, is 20035x1.05x1.21 or 25454 in-lbs.

RISER BRACE WELD LOCATION & IDENTIFICATION

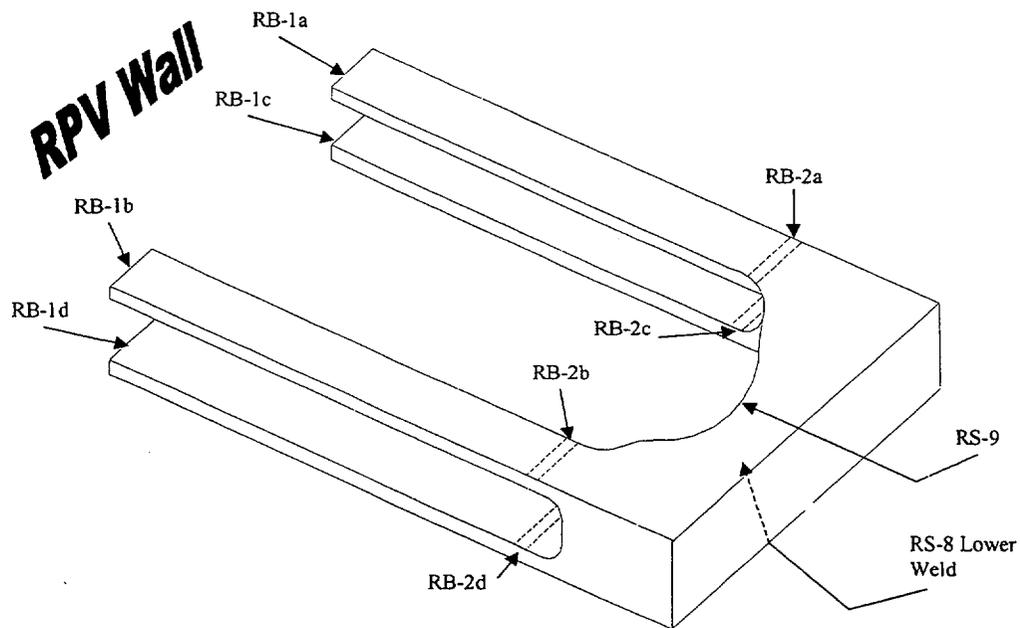


Figure 1: Jet Pump Riser to Yoke Weld Designations

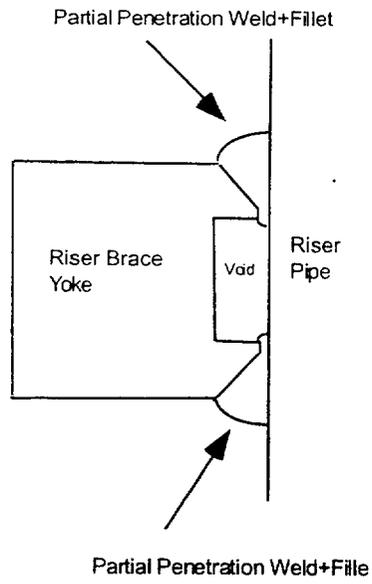


Figure 2: RS-8 and RS-9 Weld Geometry

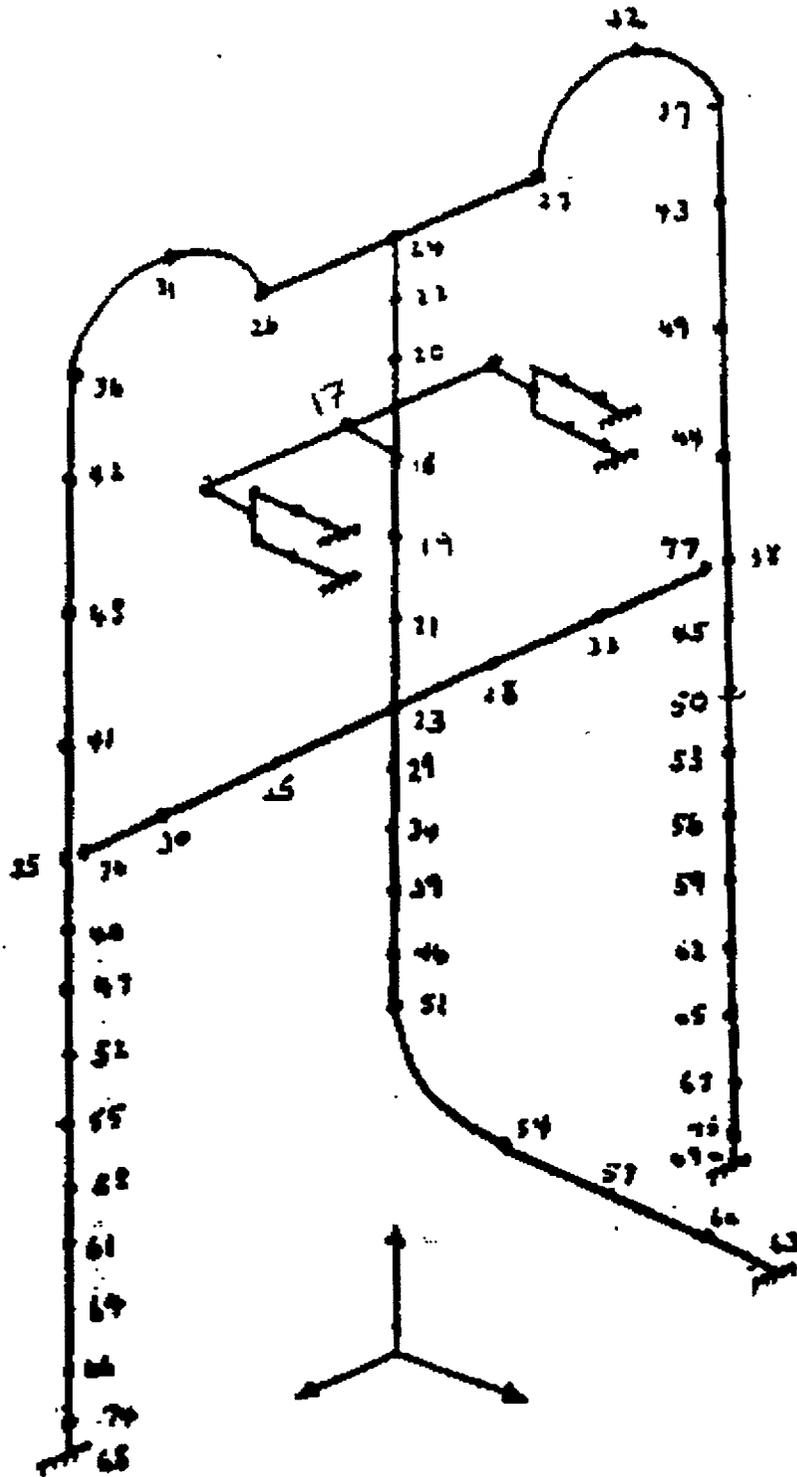


Figure 3: Finite Element Beam Model for FIV Evaluation

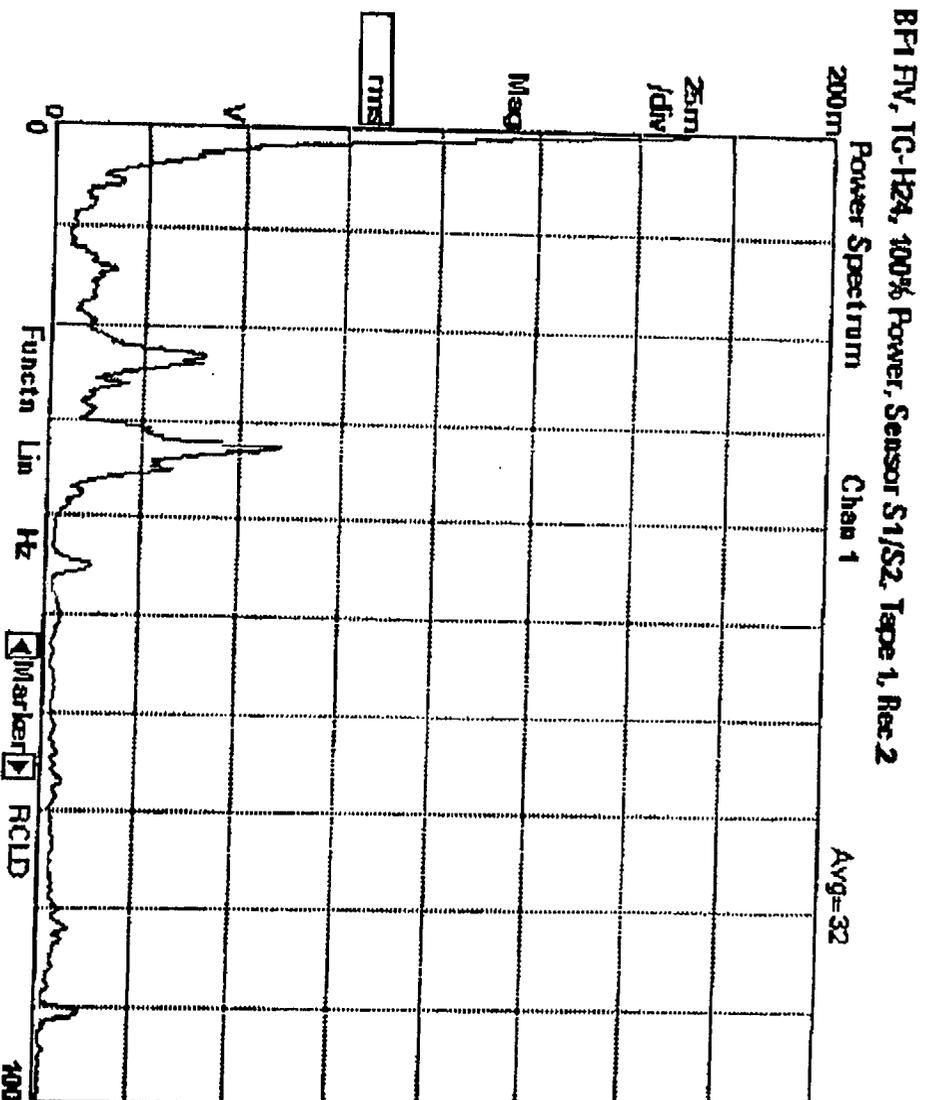


Figure 4: Riser Brace Response Spectrum During BF1 Start-up Test

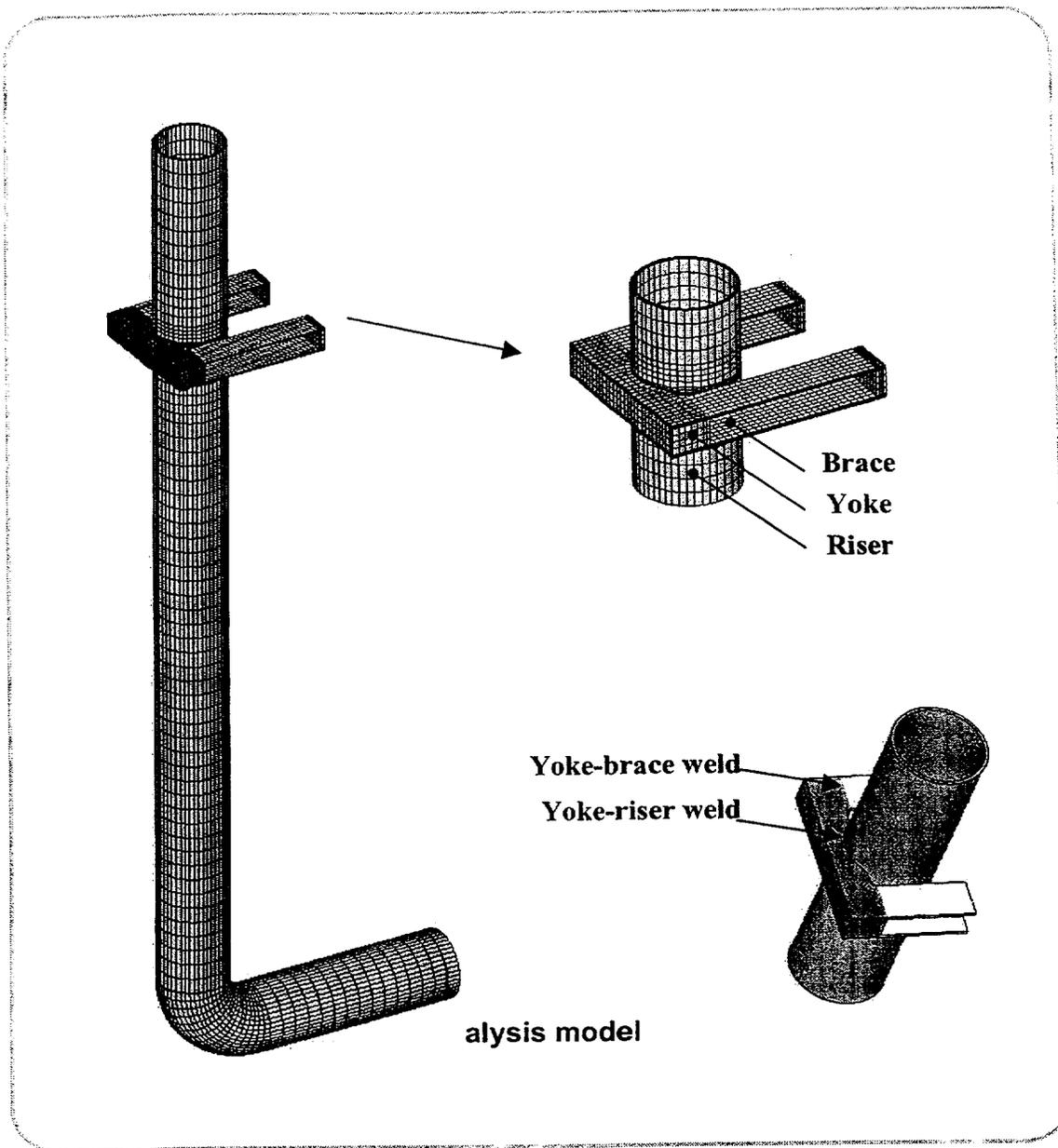


Figure 5: Three Dimensional Finite Element Model

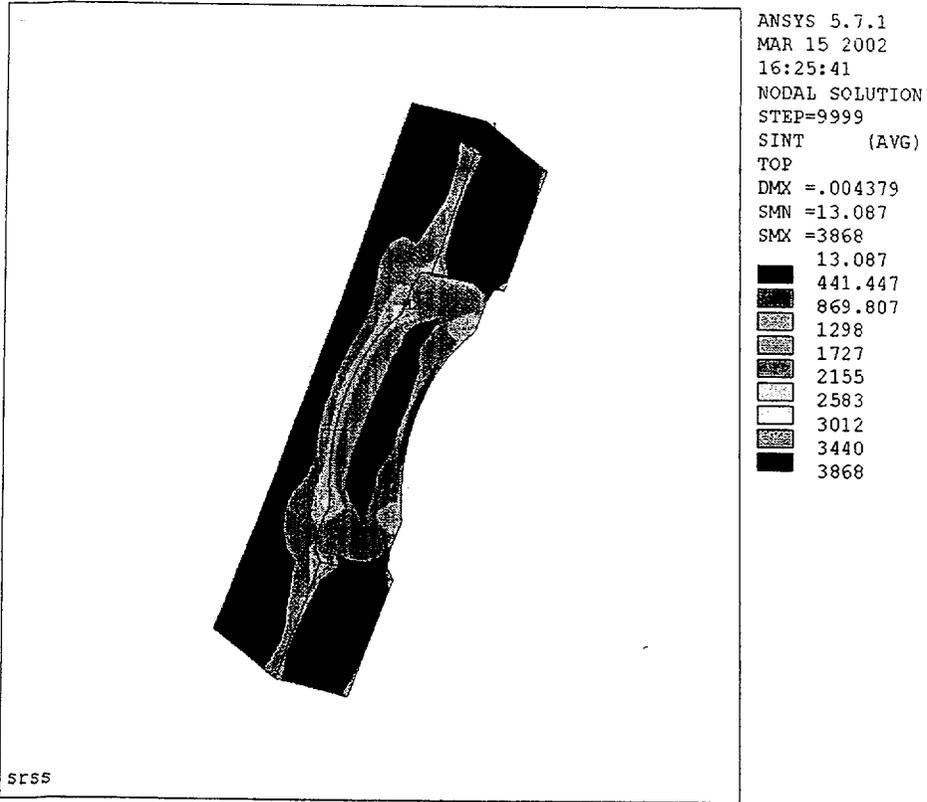


Figure 6: Stress Intensities at Yoke Weld for 100% Core Flow FIV Loads

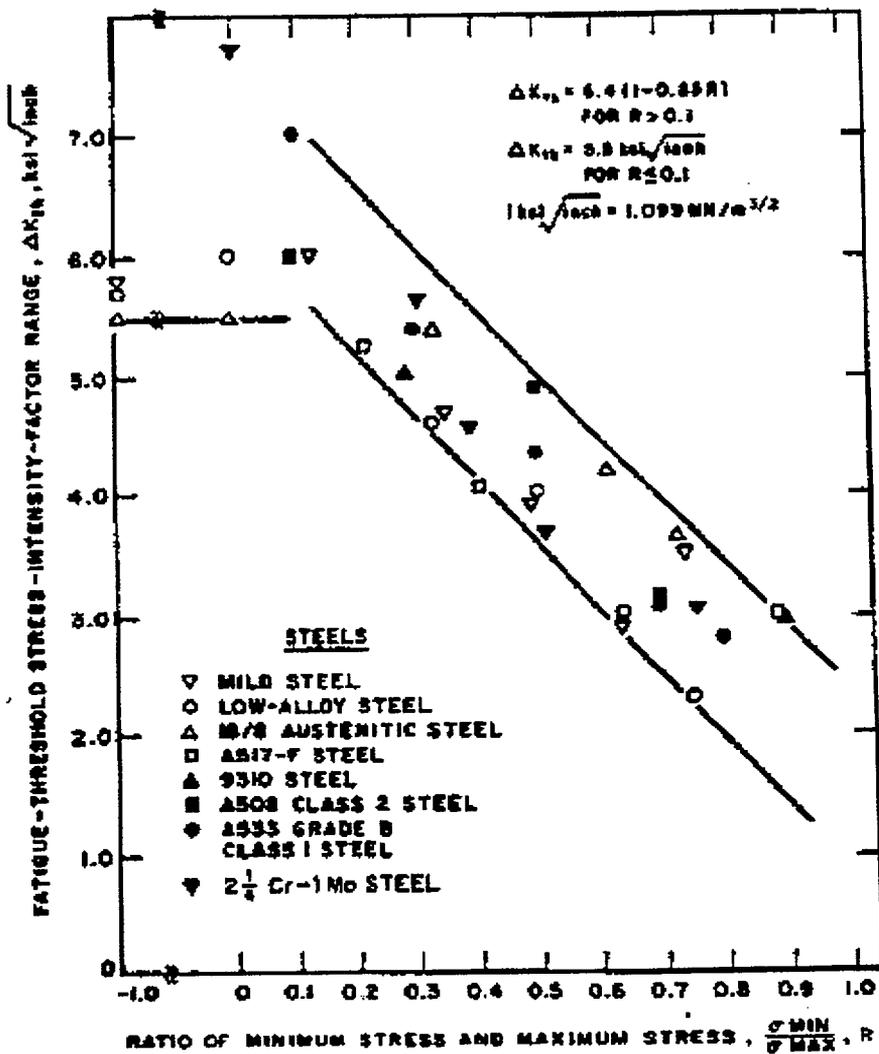


Figure 7: ΔK Threshold Values for Various Steels as a Function of R-Ratios

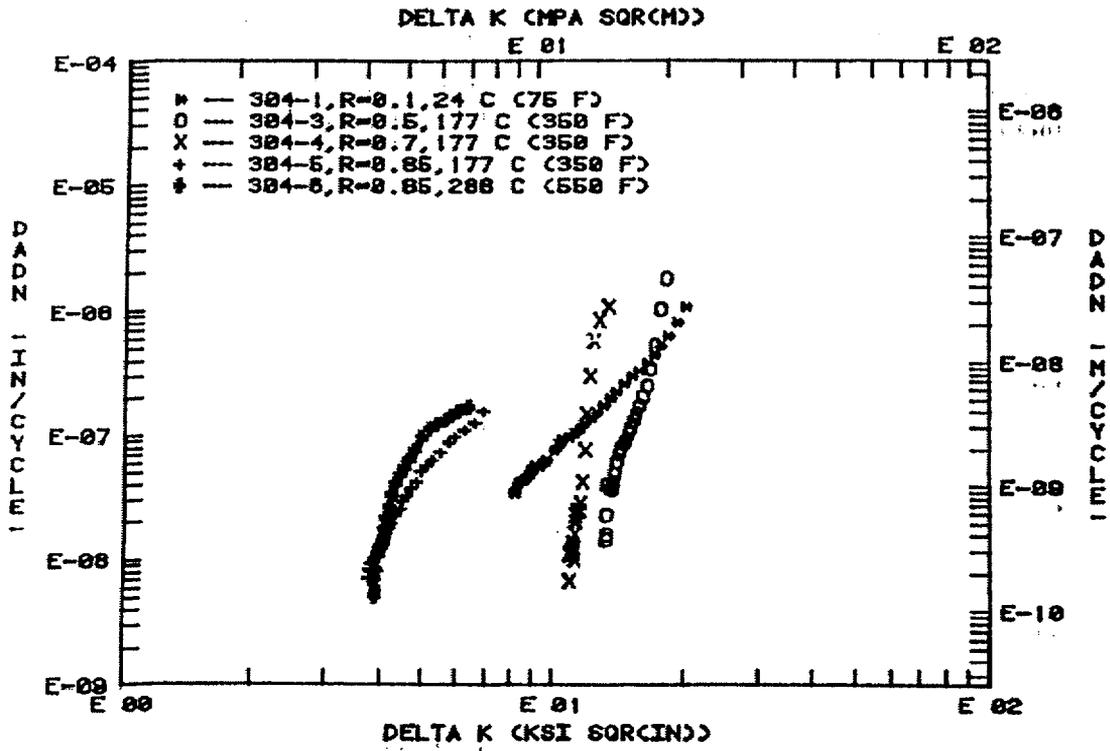


Figure 8: GE Test Data on ΔK_{th} and Fatigue Crack Growth Rates in Type 304 SS

ATTACHMENT
IVVI INSPECTION RESULTS

ATTACHMENT 3

IVVI INDICATION NOTIFICATION REPORTINR # LGS1R09-03

Plant / Unit	Component Description	Reference(s)
Unit 1, LGS1R09, Spring 2002 Outage	Jet Pump 13/14 Riser Brace Upper Attachment Weld (RS-9) to Riser at 240°.	IVVI Tape 2002-07 from 0: Tape 2002-09 from 0:00:00 to 0:07:43.

BACKGROUND

During scheduled examination of the Jet Pump 13/14 Riser Brace to Riser attachment welds, a relevant linear indication was noted. The RS-9 weld on the Jet Pump 14 side contained a crack. The indication was re-examined after brushing the area and it was noted that the indication continued into the pipe material and down the side of the yoke to pipe weld.

RELEVANT INFORMATION AND RECOMMENDATIONS

1. The linear indication was identified in the upper weld of the (RS-9) yoke to riser pipe weld. After brushing the indication showed propagation from the weld to the riser pipe. The indication traveled down in the weld through a pit and then started down the vertical portion of the yoke to riser pipe attachment weld. The estimated overall length of the indications is .386"
2. Exelon's Black & White cameras were used for the examinations. Photographs are included on the following pages.
3. For more information, contact Michael D. Patch or Rudy Paillaman during the Limerick Outage at ext. 5058.
4. Contact GENE Engineering for more information and review BWRVIP documents for additional required examinations.

Prepared by: Michael D. Patch Date: 3/11/02
 Reviewed by: F. L. Leck Date: 3/11/02
 Owner Review By: Karl J. Fure Date: 3/11/02

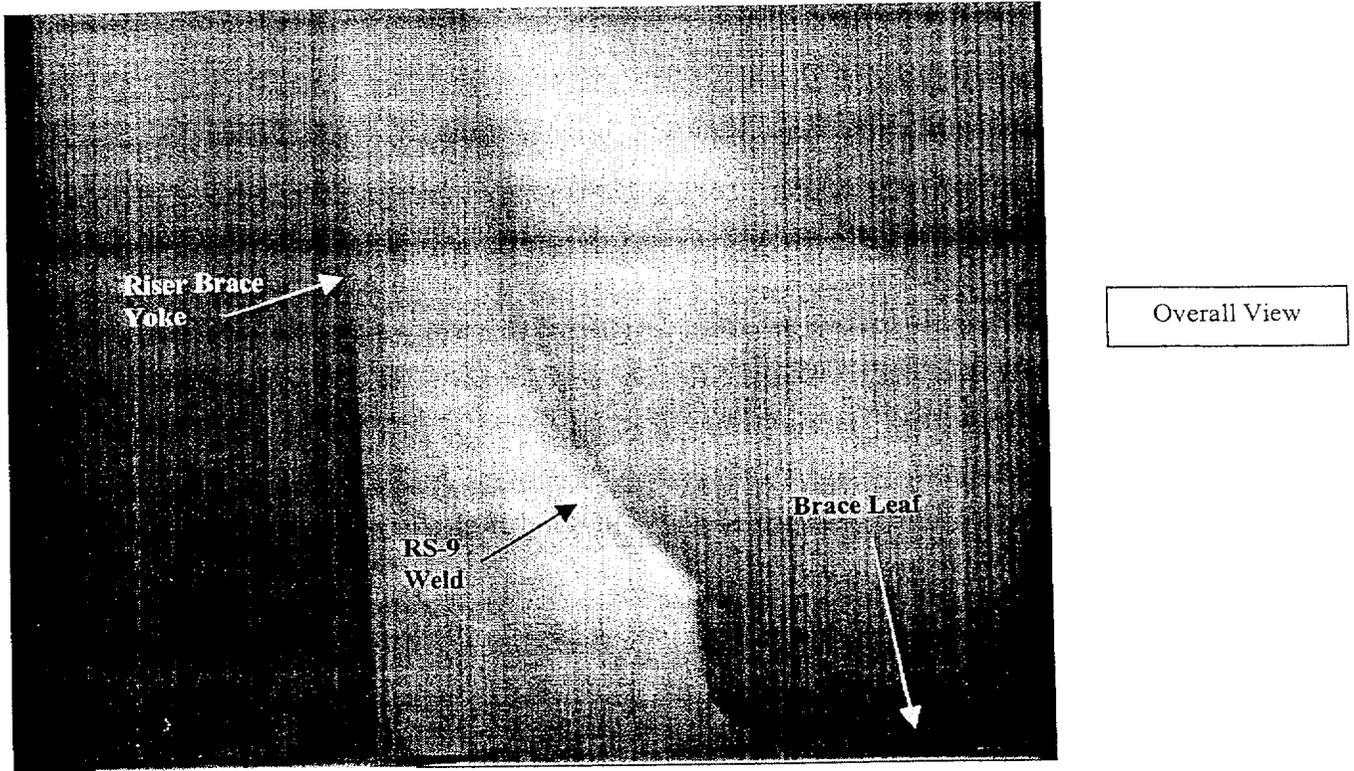


Figure A-1

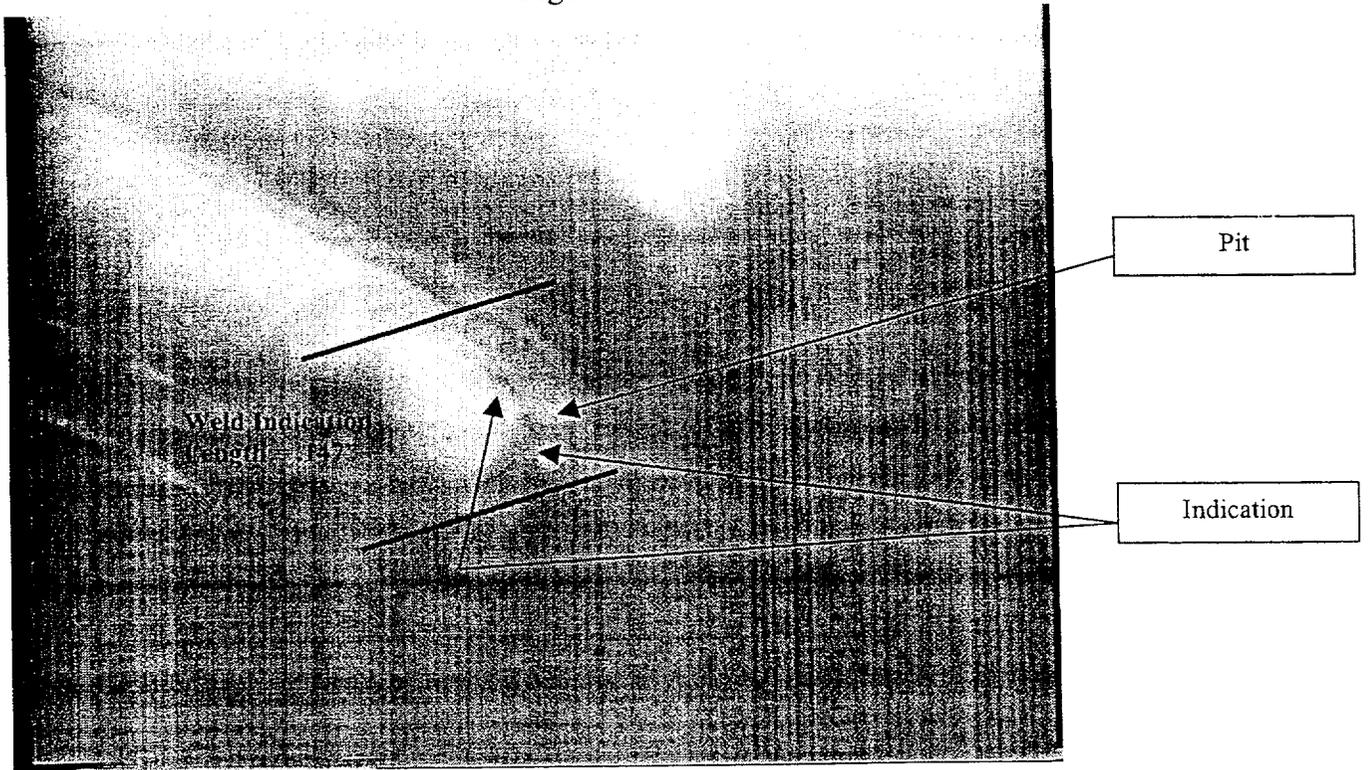
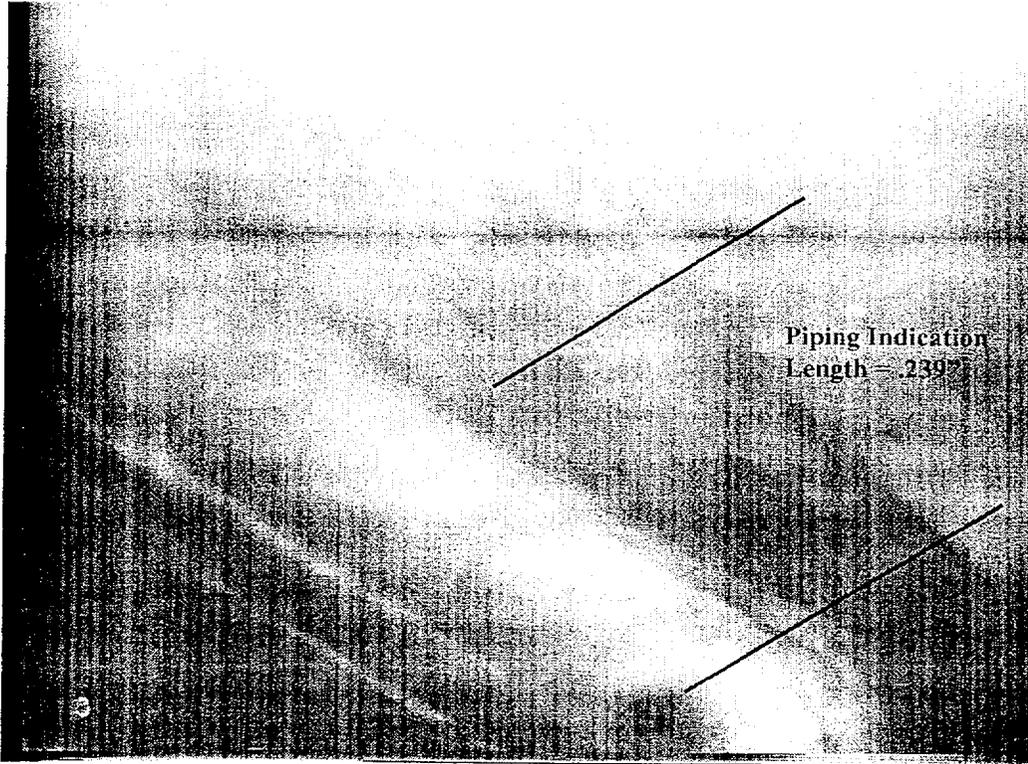


Figure A-2



Piping Indication
View

Figure A-3

SECTION 3

**SUMMARY OF ASME SECTION XI REPAIRS
AND REPLACEMENTS COMPLETED FOR
LIMERICK GENERATING STATION
UNIT 1
APRIL 29, 2000 TO APRIL 21, 2002**

SUMMARY OF ASME SECTION XI REPAIRS AND REPLACEMENTS

SYSTEM 011 EMERGENCY SERVICE WATER

- C0189487 HV-011-101D REPLACED 2" VALVE AND ADJACENT PIPE
- C0192634 1D-E220 REPLACED RHR MOTOR OIL COOLER PIPING WITH STAINLESS STEEL
- C0192642 1C-E220 REPLACED RHR MOTOR OIL COOLER PIPING WITH STAINLESS STEEL.
- C0199688 HBC-148-3 REPLACED 4" EMERGENCY SERVICE WATER PIPING
- C0200618 HBC-507-1 REPAIRED WELD FW-50

SYSTEM 041 MAIN STEAM RELIEF VALVES

- R0836359 PSV-041-1F013A REPLACED MAIN STEAM RELIEF VALVE S/N 175 AND PILOT S/N 16 WITH REWORKED BODY S/N 168 AND PILOT S/N 13.
REPLACED VALVE MAIN SEAT AND DISC.
REPLACED MAIN BODY TO BONNET SPLINE BOLTS AND NUTS.
- R0836364 PSV-041-1F013B REPLACED MAIN STEAM RELIEF VALVE S/N 169 AND PILOT S/N 21 WITH REWORKED BODY S/N 182 AND PILOT S/N 11.
- R0836361 PSV-041-1F013C REPLACED MAIN STEAM RELIEF VALVE S/N 189 AND PILOT S/N 22 WITH REWORKED BODY S/N 158 AND PILOT S/N 6.
- R0836360 PSV-041-1F013D REPLACED MAIN STEAM RELIEF VALVE S/N 174 AND PILOT S/N 17 WITH REWORKED BODY S/N 188 AND PILOT S/N 9.
- R0840112 PSV-041-1F013E REPLACED MAIN STEAM RELIEF VALVE S/N 181 AND PILOT S/N 29 WITH REWORKED BODY S/N 171 AND PILOT S/N 14.
- R0836371 PSV-041-1F013F REPLACED MAIN STEAM RELIEF VALVE S/N 150 AND PILOT S/N 27 WITH REWORKED BODY S/N 159 AND PILOT S/N 3.
- R0836370 PSV-041-1F013G REPLACED MAIN STEAM RELIEF VALVE S/N 170 AND PILOT S/N 15 WITH REWORKED BODY S/N 178 AND PILOT S/N 10.
REPLACED PILOT BONNET CAP SCREWS AND NUTS.
REPLACED VALVE MAIN DISC.
REPLACED MAIN BODY TO BONNET SPLINE BOLTS AND NUTS.
- R0838326 PSV-041-1F013H REPLACED MAIN STEAM RELIEF VALVE S/N 148 AND PILOT S/N 18 WITH REWORKED BODY S/N 167 AND PILOT S/N 5.
- R0836369 PSV-041-1F013J REPLACED MAIN STEAM RELIEF VALVE S/N 145 AND PILOT S/N 26 WITH REWORKED BODY S/N 155 AND PILOT S/N 8.
REPLACED PILOT BONNET CAP SCREWS AND NUTS.
- R0839060 PSV-041-1F013K REPLACED MAIN STEAM RELIEF VALVE S/N 176 AND PILOT S/N 20 WITH REWORKED BODY S/N 173 AND PILOT S/N 12.

- R0836365 PSV-041-1F013L REPLACED MAIN STEAM RELIEF VALVE S/N 180 AND PILOT S/N 25 WITH REWORKED BODY S/N 165 AND PILOT S/N 7.
REPLACED PILOT BONNET CAP SCREWS AND NUTS.
REPLACED VALVE MAIN SEAT.
- R0840505 PSV-041-1F013M REPLACED MAIN STEAM RELIEF VALVE S/N 147 AND PILOT S/N 23 WITH REWORKED BODY S/N 166 AND PILOT S/N 1.
- R0836366 PSV-041-1F013N REPLACED MAIN STEAM RELIEF VALVE S/N 190 AND PILOT S/N 24 WITH REWORKED BODY S/N 161 AND PILOT S/N 2.
INLET FLANGE WELD REPAIRED PER C0199270.
- R0839379 PSV-041-1F013S REPLACED MAIN STEAM RELIEF VALVE S/N 151 AND PILOT S/N 30 WITH REWORKED BODY S/N 185 AND PILOT S/N 4.

SYSTEM 041 NUCLEAR BOILER

- C0180427 HV-041-1F022B REPLACED PILOT POPPET.
- C0180429 HV-041-1F022D REPLACED PILOT POPPET.
- C0193385 HV-041-1F028B REPLACED PILOT POPPET.
- C0199101 HV-041-142 REPLACED VALVE BONNET

SYSTEM 044 REACTOR WATER CLEAN-UP

- C0186041 HV-044-1F042 REPLACED 4" VALVE AND ADJACENT PIPE
- C0198581 HV-044-1F001 REPLACED 6" VALVE AND ADJACENT PIPE.
- C0198626 HV-044-1F004 REPLACED 6" VALVE AND ADJACENT PIPE.

SYSTEM 047 CONTROL ROD DRIVES

- R0844627 REPLACED CONTROL ROD DRIVES
- C0199597 REPLACED CONTROL ROD DRIVES

SYSTEM 048 STAND-BY LIQUID CONTROL

- R0660342 XV-048-1F004C REPLACED EXPLOSIVE VALVE TRIGGER BODY
- R0840706 XV-048-1F004C REPLACED EXPLOSIVE VALVE TRIGGER BODY

SYSTEM 049 REACTOR CORE ISOLATION COOLING

- C0197777 HV-049-1F007 UPGRADE VALVE INTERNALS

SYSTEM 051 RESIDUAL HEAT REMOVAL

- C0198226 051-1F090C REPLACED CHECK VALVE INTERNALS
- C0200659 HV-051-1F050B REPLACED CHECK VALVE DISC
-

R0663250 051-1F090D REPLACED CHECK VALVE DISC

SYSTEM 055 HIGH PRESSURE COOLANT INJECTION

C0197778 HV-055-1F002 UPGRADE VALVE INTERNALS

SYSTEM 056 HPCI PUMP AND TURBINE

C0192545 056-1065 REPLACED VALVE & ADJECENT PIPE

C0196591 056-1F057 REPLACED 2" CHECK VALVE DISC

SYSTEM-090 CONTROL BUILDING CHILLED WATER

C0192190 SV-090-045A REPLACED SOLENOID VALVE AND ADJACENT PIPE

C0192041 SV-090-045B REPLACED SOLENOID VALVE AND ADJACENT PIPE

SYSTEM 103 SNUBBERS

A1279034 REPLACED MECHANICAL SNUBBERS

A1279040 REPLACED MECHANICAL SNUBBERS

A1357741 DCA-101-H045 REPLACED MACHANICAL SNUBBER

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 23, 2002
Name
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address
2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0189487
Address Repair Organization P.O. No., Job No. etc.,
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System Emergency Service Water (System-011) Line No. HBC-141 Valve HV-011-101D
5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter 1974 Addenda, N-416-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
2" VALVE HV-011-101D	EDWARD-VOGT	97 ATM	N/A	* 114-85129 PO# 257797-348107	2001	REPLACEMENT	YES
2" PIPE PIECE No's 59 AND 60	U.S. STEEL	HEAT No. S42839	N/A	* 114-90045 PO# 179484	N/A	REPLACEMENT	NO
2" COUPLING PIECE NO. 61	BONNEY FORGE	LOT No. 9113	N/A	* 114-90782 PO# 165944	N/A	REPLACEMENT	NO
2" FLANGE PIECE No. 62	CONSOLIDATED POWER	HEAT CODE S1245	N/A	* 114-90527 PO# 009825-348216	N/A	REPLACEMENT	NO
SP-HBC-141-E4-H8 & 17 PIPE CLIPS	BERGEN-POWER	HEAT No. 5500I2111	N/A	* 114-07276 PO# 257795-348093	N/A	REPLACEMENT	NO

* Traceability per Exelon part code number.

7. Description of Work: Replaced 2" air operated valve HV-011-104D and adjacent piping.. Replaced pipe hanger clips.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 127 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Work completed in accordance with Exelon ECR # 99-01576.
Applicable Manufacturer's Data Reports to be attached

Valve HV-011-101D manufactured in accordance with ASME III, 1974 edition, addenda through summer 1976.

Manufacturer's data reports are traceable by Exelon work order package.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer, engineer Date April 23, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 11/26/2001 to 4/25/2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature] Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 4/25 20 02

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 16, 2002
Name _____
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 3
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0192634
Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name _____ Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System Emergency Service Water (System-011) Line No. HBC-139-E5 & HBC-148-E5 Valve 011-1016D
5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter 1974 Addenda, N-416-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
2" PIPE (80) FEET	SANDVIK	HEAT No. 8324H	N/A	* 114-90030 PO# 178390	N/A	REPLACEMENT	NO
(11) 2" 90 DEGREE ELL	ALLOY STAINLESS PRODUCTS	HEAT CODE A05	N/A	* 114-92276 PO# 178848	N/A	REPLACEMENT	NO
(4) 2" 45 DEGREE ELL	CAMCO FITTING CO.	HEAT CODE 39A	N/A	* 114-92266 PO# 178390	N/A	REPLACEMENT	NO
(2) 2" REDUCING TEE	ALLOY STAINLESS PRODUCTS	HEAT CODE MS	N/A	* 114-07003 PO# 178849	N/A	REPLACEMENT	NO
(1) 2" FULL COUPLING	ALLOY STAINLESS PRODUCTS	HEAT CODE HAM	N/A	* 114-92271 PO# 180479	N/A	REPLACEMENT	NO

* Traceability per Exelon part code number.

7. Description of Work: Replaced 2" emergency service water piping with stainless steel.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other _____ Pressure 105 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 16, 2002
Name
300 Exelon Way, Kennett Square, PA 19348 Sheet 2 of 3
Address
2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0192634
Address Repair Organization P.O. No., Job No. etc.,
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System Emergency Service Water (System-011) Line No. HBC-139-E5 & HBC-148-E5 Valve 011-1016D
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 1974 Addenda, N-416-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
(2) 2" HALF COUPLING	ALLOY STAINLESS PRODUCTS	HEAT CODE JFP	N/A	* 114-92054 PO# 178390	N/A	REPLACEMENT	NO
(2) 2" REDUCING INSERT	ALLOY STAINLESS PRODUCTS	HEAT CODE JEG	N/A	* 114-93893 PO# 178390	N/A	REPLACEMENT	NO
(4) 2" PIPE FLANGE	IDEAL FORGING	HEAT CODE C5031	N/A	* 114-98205 PO# 179484	N/A	REPLACEMENT	NO
(2) 2" PIPE CAP	LADISH	HEAT CODE DA7D	N/A	* 114-90656 PO# 177473	N/A	REPLACEMENT	NO
2" VALVE 011-1016D	FLOWSERVE	E917A-1-1	N/A	* 114-06589 PO# 257805-348365	2000	REPLACEMENT	YES
(8) 5/8" FLANGE STUDS	NOVA MACHINE	HEAT CODE RVX	N/A	* 114-92558 PO# 159325-348843	N/A	REPLACEMENT	NO
(16) 5/8" FLANGE NUTS	NOVA MACHINE	HEAT CODE DJQ	N/A	* 114-92648 PO# 159325-348205	N/A	REPLACEMENT	NO
(3) WELDED PIPE LUGS	ALLEGHENY LUDLUM	HEAT No. 877687	N/A	* 114-83473 PO# 178398	N/A	REPLACEMENT	NO

* Traceability per Exelon part code number.

FORM NIS-2 (BACK)

9. Remarks: Work completed in accordance with Exelon ECR # 99-02396.
Applicable Manufacturer's Data Reports to be attached

Valve 011-1016D manufactured in accordance with ASME III, 1971 edition, addenda through summer 1971.

Manufacturer's data reports are traceable by Exelon work order package.

Pressure testing completed in accordance with ASME XI, 1992 edition.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Jam H. Kramer J.H. Kramer, engineer Date May 20, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 8 JUNE 2000 to 22 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature] Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 22 MAY 20 02

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 16, 2002
Name _____
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 3
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0192642
Address _____ Repair Organization P.O. No., Job No. etc., _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name _____ Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System Emergency Service Water (System-011) Line No. HBC-139-E4 & HBC-148-E4 Valve 011-1016C
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 1974 Addenda, N-416-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
2" PIPE (47) FEET	SANDVIK	HEAT No. 8324H	N/A	* 114-90030 PO# 178390	N/A	REPLACEMENT	NO
2" PIPE (3) FEET	SUMITOMO METAL INDUSTRIES	HEAT No. D852752	N/A	* 114-90030 PO# 178256	N/A	REPLACEMENT	NO
(2) 2" 90 DEGREE ELL	ALLOY STAINLESS PRODUCTS	HEAT CODE 'PP'	N/A	* 114-92276 PO# 178390	N/A	REPLACEMENT	NO
(3) 2" 90 DEGREE ELL	ALLOY STAINLESS PRODUCTS	HEAT CODE 'PN'	N/A	* 114-92276 PO# 178390	N/A	REPLACEMENT	NO
(9) 2" 90 DEGREE ELL	ALLOY STAINLESS PRODUCTS	HEAT CODE 'A05'	N/A	* 114-92276 PO# 178390	N/A	REPLACEMENT	NO
(2) WELDED PIPE LUGS	NORTH AMERICAN STAINLESS	HEAT CODE AE07	N/A	* 114-83473 PO# 165155	N/A	REPLACEMENT	NO

* Traceability per Exelon part code number.

7. Description of Work: Replaced 2" emergency service water piping with stainless steel.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other _____ Pressure 129 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 16, 2002
Name _____
300 Exelon Way, Kennett Square, PA 19348 Sheet 2 of 3
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0192642
Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name _____ Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System Emergency Service Water (System-011) Line No. HBC-139-E4 & HBC-148-E4 Valve 011-1016C
5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter 1974 Addenda, N-416-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
(1) 2" REDUCING TEE	ALLOY STAINLESS PRODUCTS	HEAT CODE MS	N/A	* 114-07003 PO# 178849	N/A	REPLACEMENT	NO
(2) 2" REDUCING TEE	WFI NUCLEAR PRODUCTS	HEAT CODE VY	N/A	* 114-07003 PO# 178396	N/A	REPLACEMENT	NO
(2) 2" HALF COUPLINGS	WFI NUCLEAR PRODUCTS	HEAT CODE 342YNA	N/A	* 114-92054 PO# 178599	N/A	REPLACEMENT	NO
(1) 2" REDUCING COUPLING	CAMCO FITTINGS	HEAT CODE FNH	N/A	* 114-15724 PO# 182907	N/A	REPLACEMENT	NO
(1) 2" REDUCING INSERT	ALLOY STAINLESS PRODUCTS	HEAT CODE JEG	N/A	* 114-93893 PO# 178390	N/A	REPLACEMENT	NO
(4) 2" FLANGE	IDEAL FORGING	HEAT CODE C4001	N/A	* 114-98205 PO# 178398	N/A	REPLACEMENT	NO
(1) 2" PIPE CAP	BONNEY FORGE	LOT No. 9144	N/A	* 114-90656 PO# 178398	N/A	REPLACEMENT	NO
(1) 2" PIPE CAP	BECHTEL POWER	HEAT CODE CJ91	N/A	* 114-90656 PO# 386535-000233	N/A	REPLACEMENT	NO
2" VALVE 011-1016C	FLOWERVE	E030T-1-2	N/A	* 114-06589 PO# 257805-348412	2000	REPLACEMENT	YES
(8) 5/8" FLANGE STUDS	NOVA MACHINE	HEAT CODE RXY	N/A	* 114-92558 PO# 159325-348843	N/A	REPLACEMENT	NO
(16) 5/8" FLANGE NUTS	NOVA MACHINE	HEAT CODE SJP	N/A	* 114-92648 PO# 159325-348872	N/A	REPLACEMENT	NO

* Traceability per Exelon part code number.

FORM NIS-2 (BACK)

9. Remarks: Work completed in accordance with Exelon ECR # 99-02396.
Applicable Manufacturer's Data Reports to be attached

Valve 011-1016C manufactured in accordance with ASME III, 1971 edition, addenda through summer 1971.

Manufacturer's data reports are traceable by Exelon work order package.

Pressure testing completed in accordance with ASME XI, 1992 edition.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer, engineer Date May 20, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 25 SEP 2000 to 22 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Hernandez Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 22 MAY 20 02

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 23, 2002
Name
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address
2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0199688
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System Emergency Service Water (System-011) Line No. HBC-148-3
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 1974 Addenda, N-416-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
4" PIPE HBC-148-3	U.S. STEEL	HEAT No. B05940	N/A	* 114-90061 PO# 183058	N/A	REPLACEMENT	NO
4" ELBOW	CONSOLIDATED POWER	HEAT No. H676V	N/A	* 114-91553 PO# 009825- 348023	N/A	REPLACEMENT	NO

* Traceability per Exelon part code number.

7. Description of Work: Replaced 4" Emergency Service Water pipe and elbow.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 125 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: None
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA
Certificate of Authorization No. NA Expiration Date NA
Signed Jam H. Kramer J.H. Kramer, engineer Date April 23, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 01/18/2002 to 4/25/2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul DeCaro Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 4/25 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 29, 2002
 Name _____
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
 Address _____
2. Plant Limerick Generating Station Unit 1
 Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0200618
 Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
 Name _____ Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
 Address _____
4. Identification of System Emergency Service Water (System-011) Line No. HBC-507-01
5. (a) Applicable Construction Code ASME III 1983 Edition, Summer 1983 Addenda, N-416-1 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
20" HBC-507-01 FIELD WELD# 50	N/A	N/A	N/A	N/A	N/A	REPAIR	NO

7. Description of Work: Weld repair 20" emergency service water pipe weld.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 120 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Weld repair completed in accordance with ASME III, 1983 edition with addenda through summer 1983, ND-4453.1.
Applicable Manufacturer's Data Reports to be attached

Pressure testing completed in accordance with ASME XI, 1992 edition.

NDE completed in accordance with ASME III, 1992 edition.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the
ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer, engineer Date April 29, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or Province of Pennsylvania and employed by HSBCT of
Hartford, CT have inspected the components described
in this Owner's Report during the period 8 MAR 2002 to 10 MAY 2002, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's 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 Owner's 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.

Paul Bernard J. Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 10 MAY 20 02

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 20, 2002
 Name _____
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
 Address _____
2. Plant Limerick Generating Station Unit 1
 Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0836359
 Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
 Name _____ Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
 Address _____
4. Identification of System Nuclear Boiler (System 041) Line No. APE-1MS PSV-041-1F013A
5. (a) Applicable Construction Code ASME III 19 68 Edition, Summer 1970 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSRV PILOT ASSEMBLY	TARGET ROCK	013	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MSRV BODY	TARGET ROCK	168	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MAIN DISC	TARGET ROCK	4549	N/A	* 114-76023 PO# 350395-000015	1992	REPLACEMENT	YES
MAIN SEAT	TARGET ROCK	56	N/A	* 114-76024 PO# 204066-348074	N/A	REPLACEMENT	NO
(6) 1-1/8" SPLINE BOLT	ENERGY STEEL	HEAT No. 3-6171 LOT No. ENK	N/A	TARGET ROCK PART No. 204018-1	N/A	REPLACEMENT	NO
(6) 1-1/8" SPLINE NUT	ENERGY STEEL	HEAT No. 2-3471LC LOT No. CEY5	N/A	TARGET ROCK PART No. 204041-1	N/A	REPLACEMENT	NO

* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam relief valve main body No.175 and pilot No.16 with reworked body No.168 and pilot No.13.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other _____ Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks Manufacturers Data Reports are traceable by Exelon Work Order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer, Engineer Date May 20, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 14 AUG 2001 to 6 JUNE 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Dever Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 6 JUNE 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 20, 2002
Name
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0836364
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address

4. Identification of System Nuclear Boiler (System 041) Line No. APE-1MS PSV-041-1F013B

5. (a) Applicable Construction Code ASME III 1968 Edition, Summer 1970 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSRV PILOT ASSEMBLY	TARGET ROCK	011	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MSRV BODY	TARGET ROCK	182	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES

* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam relief valve main body No.169 and pilot No.21 with reworked body No.182 and pilot No.11.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E.47th St., New York, N.Y. 10017

FORM NIS-2 (BACK)

9. Remarks Manufacturers Data Reports are traceable by Exelon Work Order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp NA repair or replacement

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer, Engineer Date May 20, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 14 AUG 2001 to 6 JUNE 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Hernandez Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 6 JUNE 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 20, 2002
Name _____
- 300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
- P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0836361
Address Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System Nuclear Boiler (System 041) Line No. APE-1MS PSV-041-1F013C
5. (a) Applicable Construction Code ASME III 19 68 Edition, Summer 1970 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSRV PILOT ASSEMBLY	TARGET ROCK	6	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MSRV BODY	TARGET ROCK	158	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES

* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam relief valve main body No.189 and pilot No.22 with reworked body No.158 and pilot No.6.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other ___ Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E.47th St., New York, N.Y. 10017

FORM NIS-2 (BACK)

9. Remarks Manufacturers Data Reports are traceable by Exelon Work Order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp NA repair or replacement

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer, Engineer Date May 20, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 14 AUG 2001 to 6 JUNE 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Bennett Commissions PA-2497 I.N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 6 JUNE 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 20, 2002
Name _____
- 300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
- P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0836360
Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name _____ Authorization No. N/A
- P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System Nuclear Boiler (System 041) Line No. APE-1MS PSV-041-1F013D
5. (a) Applicable Construction Code ASME III 1968 Edition, Summer 1970 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSRV PILOT ASSEMBLY	TARGET ROCK	9	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MSRV BODY	TARGET ROCK	188	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES

* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam relief valve main body No.174 and pilot No.17 with reworked body No.188 and pilot No.9.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks Manufacturers Data Reports are traceable by Exelon Work Order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp NA repair or replacement

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer, Engineer Date May 20, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 11 AUG 2001 to 6 JUNE 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Bernat Commissions PA-2497 I.N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 6 JUNE 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 20, 2002
 Name _____
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
 Address _____
2. Plant Limerick Generating Station Unit 1
 Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0840112
 Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
 Name _____ Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
 Address _____
4. Identification of System Nuclear Boiler (System 041) Line No. APE-1MS PSV-041-1F013E
5. (a) Applicable Construction Code ASME III 1968 Edition, Summer 1970 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSRV PILOT ASSEMBLY	TARGET ROCK	014	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MSRV BODY	TARGET ROCK	171	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES

* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam relief valve main body No.181 and pilot No.29 with reworked body No.171 and pilot No.14.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E.47th St., New York, N.Y. 10017

FORM NIS-2 (BACK)

9. Remarks Manufacturers Data Reports are traceable by Exelon Work Order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI. repair or replacement
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer, Engineer Date May 20, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or Province of Pennsylvania and employed by HSBCT of
Hartford, CT have inspected the components described
in this Owner's Report during the period 18 AUG 2001 to 6 JUNE 2002, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's 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 Owner's 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.

[Signature] Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 6 JUNE 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 20, 2002
Name _____
- 300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
- P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0836371
Address Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
- P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System Nuclear Boiler (System 041) Line No. APE-1MS PSV-041-1F013F
5. (a) Applicable Construction Code ASME III 19 68 Edition, Summer 1970 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSRV PILOT ASSEMBLY	TARGET ROCK	3	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MSRV BODY	TARGET ROCK	159	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES

* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam relief valve main body No.150 and pilot No.27 with reworked body No.159 and pilot No.3.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E.47th St., New York, N.Y. 10017

FORM NIS-2 (BACK)

9. Remarks Manufacturers Data Reports are traceable by Exelon Work Order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp NA repair or replacement

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer, Engineer Date May 20, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 18 AUG 2001 to 6 JUNE 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Howard Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 6 JUNE 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date June 7, 2002
Name
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address
2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0836370
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System Nuclear Boiler (System 041) Line No. APE-1MS PSV-041-1F013G
5. (a) Applicable Construction Code ASME III 19 68 Edition, Summer 1970 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSRV PILOT ASSEMBLY	TARGET ROCK	010	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MSRV BODY	TARGET ROCK	178	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MAIN DISC	TARGET ROCK	4547	N/A	* 114-76023 PO# 350395-000015	1992	REPLACEMENT	YES
(8) 9/16" CAP SCREWS	TARGET ROCK	HEAT No. 698928	N/A	TARGET ROCK PART No. 001-0084	N/A	REPLACEMENT	NO
(8) 9/16" NUTS	TARGET ROCK	HEAT No. 8999091	N/A	TARGET ROCK PART No. 100-0050	N/A	REPLACEMENT	NO
(2) 1-1/8" SPLINE BOLT	ENERGY STEEL	HEAT No. 3-6171 LOT No. ENK	N/A	TARGET ROCK PART No. 204018-1	N/A	REPLACEMENT	NO
(2) 1-1/8" SPLINE NUT	ENERGY STEEL	HEAT No. 2-3471LC LOT No. CEY5	N/A	TARGET ROCK PART No. 204041-1	N/A	REPLACEMENT	NO

* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam relief valve main body No.170 and pilot No.15 with reworked body No.178 and pilot No.10.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E.47th St., New York, N.Y. 10017

FORM NIS-2 (BACK)

9. Remarks Manufacturers Data Reports are traceable by Exelon Work Order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer, Engineer Date June 7, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 18 AUG 2001 to 7 JUNE 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature] Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 7 JUNE 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 20, 2002
Name _____
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0838326
Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name _____ Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System Nuclear Boiler (System 041) Line No. APE-1MS PSV-041-1F013H
5. (a) Applicable Construction Code ASME III 1968 Edition, Summer 1970 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSRV PILOT ASSEMBLY	TARGET ROCK	5	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MSRV BODY	TARGET ROCK	167	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES

* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam relief valve main body No.148 and pilot No.18 with reworked body No.167 and pilot No.5.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other _____ Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E.47th St., New York, N.Y. 10017

FORM NIS-2 (BACK)

9. Remarks Manufacturers Data Reports are traceable by Exelon Work Order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp NA repair or replacement

Certificate of Authorization No. NA Expiration Date NA

Signed Jan H. Kramer J.H. Kramer, Engineer Date May 20, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 18 AUG 2001 to 6 JUNE 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature] Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 6 JUNE 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date June 7, 2002
Name _____
- 300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
- P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0836369
Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name _____ Authorization No. N/A
- P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System Nuclear Boiler (System 041) Line No. APE-1MS PSV-041-1F013J
5. (a) Applicable Construction Code ASME III 1968 Edition, Summer 1970 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSRV PILOT ASSEMBLY	TARGET ROCK	008	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MSRV BODY	TARGET ROCK	155	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
(8) 9/16" CAP SCREWS	TARGET ROCK	HEAT No. 698928	N/A	TARGET ROCK PART No. 001-0084	N/A	REPLACEMENT	NO
(8) 9/16" NUTS	TARGET ROCK	HEAT No. 8999091	N/A	TARGET ROCK PART No. 100-0050	N/A	REPLACEMENT	NO

* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam relief valve main body No.145 and pilot No.26 with reworked body No.155 and pilot No.8.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E.47th St., New York, N.Y. 10017

FORM NIS-2 (BACK)

9. Remarks Manufacturers Data Reports are traceable by Exelon Work Order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp NA repair or replacement

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer, Engineer Date June 7, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 18 AUG 2001 to 7 JUNE 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Cervantez Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 7 JUNE 15 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 20, 2002
Name _____
- 300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
- P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0839060
Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp _____ N/A
Name _____ Authorization No. _____ N/A
- P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date _____ N/A
Address _____
4. Identification of System Nuclear Boiler (System 041) Line No. APE-1MS PSV-041-1F013K
5. (a) Applicable Construction Code ASME III 1968 Edition, Summer 1970 Addenda, _____ N/A _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSRV PILOT ASSEMBLY	TARGET ROCK	012	N/A	* 114-03966 PO# 183965 AND 184947	N/A	REPLACEMENT	YES
MSRV BODY	TARGET ROCK	173	N/A	* 114-03966 PO# 183965 AND 184947	N/A	REPLACEMENT	YES

* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam relief valve main body No.176 and pilot No.20 with reworked body No.173 and pilot No.12.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other _____ Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E.47th St., New York, N.Y. 10017

FORM NIS-2 (BACK)

9. Remarks Manufacturers Data Reports are traceable by Exelon Work Order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp NA repair or replacement

Certificate of Authorization No. NA Expiration Date NA

Signed Jam H. Kramer J.H. Kramer, Engineer Date May 20, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 18 AUG 2001 to 6 JUNE 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Demura Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 6 JUNE 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date June 7, 2002
Name _____
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0836365
Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name _____ Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System Nuclear Boiler (System 041) Line No. APE-1MS PSV-041-1F013L
5. (a) Applicable Construction Code ASME III 1968 Edition, Summer 1970 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSRV PILOT ASSEMBLY	TARGET ROCK	007	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MSRV BODY	TARGET ROCK	165	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MAIN SEAT	TARGET ROCK	49	N/A	* 114-76024 PO# 204066-348027	N/A	REPLACEMENT	NO
(8) 9/16" CAP SCREWS	TARGET ROCK	HEAT No. 698928	N/A	TARGET ROCK PART No. 001-0084	N/A	REPLACEMENT	NO
(8) 9/16" NUTS	TARGET ROCK	HEAT No. 8999091	N/A	TARGET ROCK PART No. 100-0050	N/A	REPLACEMENT	NO

* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam relief valve main body No.180 and pilot No.25 with reworked body No.165 and pilot No.7.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other _____ Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E.47th St., New York, N.Y. 10017

FORM NIS-2 (BACK)

9. Remarks Manufacturers Data Reports are traceable by Exelon Work Order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer, Engineer Date June 7, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 14 AUG 2001 to 7 JUNE 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Leonard J. Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 7 JUNE 10 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 20, 2002
Name

300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit 1
Name

P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0840505
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A

P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address

4. Identification of System Nuclear Boiler (System 041) Line No. APE-1MS PSV-041-1F013M

5. (a) Applicable Construction Code ASME III 19 68 Edition, Summer 1970 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSRV PILOT ASSEMBLY	TARGET ROCK	001	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MSRV BODY	TARGET ROCK	166	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES

* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam relief valve main body No.147 and pilot No.23 with reworked body No.166 and pilot No.1.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E.47th St., New York, N.Y. 10017

FORM NIS-2 (BACK)

9. Remarks Manufacturers Data Reports are traceable by Exelon Work Order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp NA repair or replacement

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer, Engineer Date May 20, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 18 AUG 2001 to 6 JUNE 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature] Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 6 JUNE 15 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 20, 2002
Name _____
- 300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
- P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0836366
Address Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
- P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System Nuclear Boiler (System 041) Line No. APE-1MS PSV-041-1F013N
5. (a) Applicable Construction Code ASME III 19 68 Edition, Summer 1970 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSRV PILOT ASSEMBLY	TARGET ROCK	002	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MSRV BODY	TARGET ROCK	161	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MSRV BODY INLET FLANGE	TARGET ROCK	161	N/A	WORK ORDER C0199270	N/A	REPAIRED	NO

* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam relief valve main body No.180 and pilot No.25 with reworked body No.161 and pilot No.2.
Repaired inlet flange by welding.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E.47th St., New York, N.Y. 10017

FORM NIS-2 (BACK)

9. Remarks Manufacturers Data Reports are traceable by Exelon Work Order package.
Applicable Manufacturer's Data Reports to be attached

MSRV inlet flange weld repaired by Exelon under work order C0199270.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI. repair or replacement
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer, Engineer Date May 20, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or Province of Pennsylvania and employed by HSBCT of
Hartford, CT have inspected the components described
in this Owner's Report during the period 18 AUG 2001 to 6 JUNE 2002, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's 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 Owner's 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.

[Signature] Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 6 JUNE 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 20, 2002
Name

300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit 1
Name

P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0839379
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A

P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address

4. Identification of System Nuclear Boiler (System 041) Line No. APE-1MS PSV-041-1F013S

5. (a) Applicable Construction Code ASME III 1968 Edition, Summer 1970 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
MSRV PILOT ASSEMBLY	TARGET ROCK	004	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES
MSRV BODY	TARGET ROCK	185	N/A	* 114-03966 PO# 184947	N/A	REPLACEMENT	YES

* Traceability per Exelon Part Code Number.

7. Description of Work: Replaced main steam relief valve main body No.151 and pilot No.30 with reworked body No.185 and pilot No.4.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/82) This Form (E00030) may be obtained from the Order Dept., ASME, 345 E.47th St., New York, N.Y. 10017

FORM NIS-2 (BACK)

9. Remarks Manufacturers Data Reports are traceable by Exelon Work Order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp NA repair or replacement

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer, Engineer Date May 20, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 7 SEP 2001 to 6 JUNE 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Bennett Jr. Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 6 JUNE 15 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Energy Company Date January 2, 2001
Name
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address
2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. C0180427
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by PECO Energy Company Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System Nuclear Boiler (MSIV'S) (System 041) Line No. APE-1MS HV-041-1F022B
5. (a) Applicable Construction Code ASME III 19 68 Edition, N/A Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PILOT POPPET	ATWOOD & MORRILL	HEAT# 227S967	N/A	* 114-14347 PO# 257696-348089	2000	REPLACED	YES

* Traceability per PECO part code.

7. Description of Work Replaced MSIV pilot poppet and welded to pilot nut.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1051 psi Test Temp. 165 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks Manufacturers data reports are traceable by work order package.
Applicable Manufacturer's Data Reports to be attached

Work completed in accordance with Exelon ECR's LG-00-00621 and 00-00749.

Weld procedure qualification completed under Exelon Power Labs project # PEC-64527.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (Engineer) Date February 5, 2001
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & J. Company of Hartford, CT

Hartford, CT have inspected the components described in this Owner's Report during the period 11 APR 00 to 12 FEB 01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul [Signature] Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 12 FEB 01 2001

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Energy Company Date January 2, 2001
Name
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address
2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. C0180429
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by PECO Energy Company Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System Nuclear Boiler (MSIV'S) (System 041) Line No. APE-1MS HV-041-1F022D
5. (a) Applicable Construction Code ASME III 19 68 Edition, N/A Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 86
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PILOT POPPET	ATWOOD & MORRILL	HEAT# 227S967	N/A	* 114-14347 PO# 257696-348089	2000	REPLACED	YES
MAIN POPPET	ATWOOD & MORRILL	HEAT# D2899 S/N 4	N/A	N/A	N/A	REPAIRED	YES

* Traceability per PECO part code.

7. Description of Work Replaced MSIV pilot poppet and welded to pilot nut. Repaired main poppet.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1051 psi Test Temp. 165 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks Manufacturers data reports are traceable by work order package.
Applicable Manufacturer's Data Reports to be attached

Work completed in accordance with Exelon ECR's LG-00-00621, 00-00650 and 00-00749.

Weld procedure qualification completed under Exelon Power Labs project # PEC-64527.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (Engineer) Date February 5, 2001
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described

in this Owner's Report during the period 11 APR 00 to 12 FEB 01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul J. ... Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 12 FEB 18 2001

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Energy Company Date January 2, 2001
 Name _____
200 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
 Address _____
2. Plant Limerick Generating Station Unit 1
 Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. C0193385
 Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by PECO Energy Company Type Code Symbol Stamp N/A
 Name _____ Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
 Address _____
4. Identification of System Nuclear Boiler (MSIV'S) (System 041) Line No. APE-1MS HV-041-1F028B
5. (a) Applicable Construction Code ASME III 1968 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
PILOT POPPET	ATWOOD & MORRILL	HEAT# 227S967	N/A	* 114-14347 PO# 257696-348089	2000	REPLACED	YES
MAIN POPPET	ATWOOD & MORRILL	HEAT# Y0725 S/N 3	N/A	N/A	N/A	REPAIRED	YES

* Traceability per PECO part code.

7. Description of Work Replaced MSIV pilot poppet and welded to pilot nut. Repaired main poppet.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1051 psi Test Temp. 165 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks Manufacturers data reports are traceable by work order package.
Applicable Manufacturer's Data Reports to be attached

Work completed in accordance with Exelon ECR's LG-00-00621, 00-00650 and 00-00749.

Weld procedure qualification completed under Exelon Power Labs project # PEC-64527.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (Engineer) Date February 5, 2001
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described

in this Owner's Report during the period 11 APR 00 to 12 FEB 01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Devan Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 12 FEB 18 2001

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 25, 2002
 Name _____
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
 Address _____
2. Plant Limerick Generating Station Unit _____
 Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0199101
 Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
 Name _____ Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
 Address _____
4. Identification of System Nuclear Boiler (System-041) Line No. EBD-108 Valve HV-041-142
5. (a) Applicable Construction Code ASME III 1971 Edition, Summer 1973 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
VALVE BONNET	VELAN	S/N 15682 HEAT No. 07251	N/A	* 114-33919 PO# 186999	2002	REPLACEMENT	YES

* Traceability per Exelon part code number.

7. Description of Work : Replaced 3" valve bonnet.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other _____ Pressure 960 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Manufacturer's data reports are traceable by Exelon work order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer, engineer Date April 25, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 5 OCT 2001 to 10 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature] Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 10 MAY 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 19, 2002
 Name
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
 Address
2. Plant Limerick Generating Station Unit 2
 Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. C0186041
 Address Repair Organization P.O. No., Job No. etc._
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
 Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
 Address
4. Identification of System Reactor Water Clean-up (System 044) Line No. DCC-104-1 Valve HV-044-1F042
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 1974 Addenda, N-416-1 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
4" VALVE HV-044-1F042	FLOWSERVE	E921A-1-1	N/A	* 114-41120 PO# 257805-348373	2000	REPLACEMENT	YES
4" DCC-104-1-2B	CONSOLIDATED POWER	HEAT# 056529 LOT# 119286	N/A	* 114-90014 PO# 009825-348231	N/A	REPLACEMENT	NO

* Traceability per Exelon stock code number.

7. Description of work: Replaced 4" valve and adjacent pipe.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other 1250 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks Manufacturers data reports are traceable by work order package.
Applicable Manufacturer's Data Reports to be attached

Valve HV-044-1F042 manufactured to ASME III, 1971 edition with addenda through Summer 1971.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp NA (repair or replacement)

Certificate of Authorization No. NA Expiration Date NA

Signed Jam D. Kramer J.H. Kramer, Engineer Date April 19, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 11/18/99 to 4/25/2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Stewart Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 4/25 10 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date March 19, 2002
Name _____
- 300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
- P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0198581
Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name _____ Authorization No. N/A
- P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System Reactor Water Clean-up (System-044) Line No. DCA-101 HV-044-1F001
5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter 1974 Addenda, N-416-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
6" VALVE HV-044-1F001	FLOWSERVE	E149T-2-1	N/A	* 114-14957 PO# 180895	2001	REPLACEMENT	YES
6" PIPE STUBS	FLOWSERVE	E149T-7-2 HEAT# D732506	N/A	*114-14957 PO# 180895	N/A	REPLACEMENT	YES

* Traceability per Exelon part code number.

7. Description of Work Replaced 6" motor operated valve HV-044-1F001 with attached pipe stubs.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1050 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Work completed in accordance with Exelon ECR # 00-01540.
Applicable Manufacturer's Data Reports to be attached

Manufacturer's data reports are traceable by Exelon work order package.

Valve HV-044-1F001 manufactured in accordance with ASME III, 1971 edition, addenda through summer 1973 and code case N-62.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (engineer) Date March 19, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 11/09/2001 to 04/11/2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul A. ... Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 04/11 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date March 19, 2002
Name
300 Exelon Way, Kennett Square, PA 19348 Address Sheet 1 of 2
2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Address Work order # C0198626
Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Address Expiration Date N/A
4. Identification of System Reactor Water Clean-up (System-044) Line No. DCA-101 & DCB-102 HV-044-1F004
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 1974 Addenda, N-416-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
6" VALVE HV-044-1F004	FLOWSERVE	E149T-2-2	N/A	* 114-14957 PO# 180895	2001	REPLACEMENT	YES
6" PIPE STUBS	FLOWSERVE	E149T-8-2 HEAT# D732506	N/A	*114-14957 PO# 180895	N/A	REPLACEMENT	YES
DCB-102-1 HALF COUPLING	CONSOLIDATED POWER	HEAT CODE 'CJA'	N/A	* 114-92057 PO# 90- 009825-348346	N/A	REPLACEMENT	NO

* Traceability per Exelon part code number.

7. Description of Work Replaced 6" motor operated valve HV-044-1F004 with attached pipe stubs. Replaced 1" pipe half coupling.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1050 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Work completed in accordance with Exelon ECR 02-00087 and 00-01539.
Applicable Manufacturer's Data Reports to be attached

Manufacturer's data reports are traceable by Exelon work order package.

Valve HV-044-1F004 manufactured in accordance with ASME III, 1971 edition, addenda through summer 1973 and code case N-62.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer (engineer) Date March 19, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 11/09/2001 to 04/11/2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Pennington Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 4/11 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
 Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
 Address

2. Plant Limerick Generating Station Unit one
 Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
 Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc.,
 Name Type Code Symbol Stamp N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Authorization No. N/A
 Address Expiration Date N/A

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-02-27

5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 1 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	6207	N/A	N/A	1974	REPLACEMENT	YES

7. Description of Work REPLACE ONE CONTROL ROD DRIVE

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other : Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Robert Szary, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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[Signature] Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
 Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
 Address
2. Plant Limerick Generating Station Unit one
 Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
 Address
3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc.,
 Name Type Code Symbol Stamp N/A
 Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
 Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-02-35
5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 1 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	6407	N/A	N/A	1974	REPLACEMENT	YES
TWO CAP SCREWS 1"-8 X 5.50"	NOVA MACHHINE PRODUCTS	82890	N/A	111-02622	N/A	REPLACEMENT	NO

7. Description of Work REPLACE ONE CONTROL ROD DRIVE AND TWO FLANGE BOLTS
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other : Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Robert C. Conway, President Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Demery Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc.
Name Type Code Symbol Stamp N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-06-31

5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	6610	N/A	N/A	1975	REPLACEMENT	YES

7. Description of Work REPLACE ONE CONTROL ROD DRIVE

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other : Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Robert D. Crigmore, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Paul Percival Commissions PA-2497 I.N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 19 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc. _____
Name Type Code Symbol Stamp N/A
Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-06-35

5. (a) Applicable Construction Code ASME III 19 68 Edition, w 69 Addenda, 1361-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	6249	N/A	N/A	1974	REPLACEMENT	YES

7. Description of Work REPLACE ONE CONTROL ROD DRIVE

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure _____
Other ; Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Roberto Siqueira, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Paul A. ... Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 19 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA, 19348 Sheet 1 of 2
Address
2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address
3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc. _____
Name Type Code Symbol Stamp N/A
Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-06-47
5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	5504	N/A	N/A	1974	REPLACEMENT	YES

7. Description of Work REPLACE ONE CONTROL ROD DRIVE
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure _____
Other : Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Roberto Quijano, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Paul K... J. Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc.
Name Type Code Symbol Stamp N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-18-19

5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	5820	N/A	N/A	1974	REPLACEMENT	YES

7. Description of Work REPLACE ONE CONTROL ROD DRIVE

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other ; Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Roberto Suarez, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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[Signature] Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
 Name _____
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
 Address _____

2. Plant Limerick Generating Station Unit one
 Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
 Address _____

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc. _____
 Name _____ Type Code Symbol Stamp N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Authorization No. N/A
 Address _____ Expiration Date N/A

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-22-59

5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 2 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	A8887	N/A	N/A	1975	REPLACEMENT	YES
ONE CAP SCREW 1"-8 X 5.50"	NOVA MACHINE PRODUCTS	82890	N/A	111-02622	N/A	REPLACEMENT	N/A

7. Description of Work REPLACE ONE CONTROL ROD DRIVE AND ONE CRD FLANGE BOLT

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure _____
 Other ; Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Roberto Serrano, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Paul Bernat Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 18 2002

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Roberto Miramya, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Paul Bennett Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 15 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc.
Name Type Code Symbol Stamp N/A
Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-30-35

5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	5151	N/A	N/A	1973	REPLACEMENT	YES

7. Description of Work REPLACE ONE CONTROL ROD DRIVE

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Roberto Ciriaco Planner Date 5-20, 20 02
Owner or Owner's Designer, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature] Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
Address
2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address
3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc.
Name Type Code Symbol Stamp N/A
Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-30-51
5. (a) Applicable Construction Code ASME III 19 74 Edition, w' 75 Addenda, 1361- 2 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	A8619	N/A	N/A	1988	REPLACEMENT	YES
EIGHT CAP SCREWS 1"-8 X 5.50"	NOVA MACHINE PRODUCTS	82890	N/A	111-02622	N/A	REPLACEMENT	N/A

7. Description of Work REPLACE ONE CONTROL ROD DRIVE AND EIGHT FLANGE BOLTS

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA
Certificate of Authorization No. NA Expiration Date NA
Signed Robert S. Crisany, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Bernard J. Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 19 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc.
Name Type Code Symbol Stamp N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-38-39

5. (a) Applicable Construction Code ASME III 19 68 Edition, w 69 Addenda, 1361- 1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	7135	N/A	N/A	1975	REPLACEMENT	YES

7. Description of Work REPLACE ONE CONTROL ROD DRIVE

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other : Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Robert J. Sweeney, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature] Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
 Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
 Address

2. Plant Limerick Generating Station Unit one
 Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
 Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc.,
 Name Type Code Symbol Stamp N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Authorization No. N/A
 Address Expiration Date N/A

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-38-59

5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 1 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	5784	N/A	N/A	1974	REPLACEMENT	YES

7. Description of Work REPLACE ONE CONTROL ROD DRIVE

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other ; Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Robert Murray, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature]
Inspector's Signature

Commissions PA-2497 I.N & A
National Board, State, Province, and Endorsements

Date 24 MAY 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
 Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
 Address

2. Plant Limerick Generating Station Unit one
 Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
 Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc. _____
 Name Type Code Symbol Stamp N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Authorization No. N/A
 Address Expiration Date N/A

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-42-11

5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 1 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	6288	N/A	N/A	1974	REPLACEMENT	YES
ONE CAP SCREW 1"-8 X 5.50"	NOVA MACHINE PRODUCTS	82890	N/A	111-02622	N/A	REPLACEMENT	NO

7. Description of Work REPLACE ONE CONTROL ROD DRIVE AND ONE CRD FLANGE BOLT

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other ; Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Roberto Serrano, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Paul Placencia
Inspector's Signature

Commissions PA-2497 I.N & A
National Board, State, Province, and Endorsements

Date 24 MAY 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
Address
2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address
3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc.
Name Type Code Symbol Stamp N/A
Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-42-23
5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	4176	N/A	N/A	1973	REPLACEMENT	YES
ONE CAP SCREW 1"-8 X 5.50"	NOVA MACHINE PRODUCTS	82890	N/A	111-02622	N/A	REPLACEMENT	NO

7. Description of Work REPLACE ONE CONTROL ROD DRIVE AND ONE CRD FLANGE BOLT
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other : Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Robert S. Ingram, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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[Signature] Commissions PA-2497 I.N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc.
Name Type Code Symbol Stamp N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-42-39

5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	6482	N/A	N/A	1975	REPLACEMENT	YES

7. Description of Work REPLACE ONE CONTROL ROD DRIVE

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other : Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Roberto S. Serrano Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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[Signature] Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc. _____
Name Type Code Symbol Stamp N/A
Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-46-07

5. (a) Applicable Construction Code ASME III 19 71 Edition, S, 73 Addenda, 1361-2 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	A5302	N/A	N/A	1986	REPLACEMENT	YES
EIGHT CAP SCREWS 1"-8 X 5.50"	NOVA MACHINE PRODUCTS	82890	N/A	111-02622	N/A	REPLACEMENT	NO

7. Description of Work REPLACE ONE CONTROL ROD DRIVE AND EIGHT FLANGE BOLTS

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other ; Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Roberto M. Ramirez, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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Paul D. ... Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 10 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc. _____
Name Type Code Symbol Stamp N/A
Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-46-31

5. (a) Applicable Construction Code ASME III 19 74 Edition, w' 75 Addenda, 1361- 2 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	A8605	N/A	N/A	1988	REPLACEMENT	YES

7. Description of Work REPLACE ONE CONTROL ROD DRIVE

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other : Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Robert Griessing, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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[Signature] Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc. _____
Name Type Code Symbol Stamp N/A
Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-50-31

5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	5549	N/A	N/A	1974	REPLACEMENT	YES

7. Description of Work REPLACE ONE CONTROL ROD DRIVE

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other : Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Roberto Serrano, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature] Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc. _____
Name Type Code Symbol Stamp N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-58-43

5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	5979	N/A	N/A	1975	REPLACEMENT	YES

7. Description of Work REPLACE ONE CONTROL ROD DRIVE

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other ; Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Robert J. Szary Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Demery Commissions PA-2497 I.N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc.
Name Type Code Symbol Stamp N/A
Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-26-39

5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	6118	N/A	N/A	1974	REPLACEMENT	YES

7. Description of Work REPLACE ONE CONTROL ROD DRIVE

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other ; Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Roberto Siquero, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature] Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 10 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc.
Name Type Code Symbol Stamp N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-34-55

5. (a) Applicable Construction Code ASME III 19 74 Edition, w 75 Addenda, 1361- 2 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	A8573	N/A	N/A	1988	REPLACEMENT	YES
EIGHT CAP SCREWS 1"-8 X 5.50"	GENERAL ELECTRIC	99896	N/A	114-77788	N/A	REPLACEMENT	NO

7. Description of Work REPLACE ONE CONTROL ROD DRIVE AND EIGHT FLANGE BOLTS

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other ; Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Robert Szymanski, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Howard Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit one
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. R0844627
Address

3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc. _____
Name Type Code Symbol Stamp N/A
Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address

4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-50-35

5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	6381	N/A	N/A	1974	REPLACEMENT	YES

7. Description of Work REPLACE ONE CONTROL ROD DRIVE

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other : Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Robert Murray Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul C. [Signature] Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Generation Co., LLC Date March 11, 2002
 Name
300 Exelon Way, Kennett Square, PA. 19348 Sheet 1 of 2
 Address
2. Plant Limerick Generating Station Unit one
 Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work Order No. C0199597
 Address
3. Work Performed by Exelon Repair Organization P.O. No., Job No. etc. _____
 Name Type Code Symbol Stamp N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Authorization No. N/A
 Address Expiration Date N/A
4. Identification of System 047 CONTROL ROD DRIVE Line No. 10-S299-14-07
5. (a) Applicable Construction Code ASME III 19 68 Edition, w' 69 Addenda, 1361- 1 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
CONTROL ROD DRIVE	GENERAL ELECTRIC	5209	N/A	N/A	1974	REPLACEMENT	YES

7. Description of Work REPLACE ONE CONTROL ROD DRIVE
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure _____
 Other : Pressure 1045 psi Test Temp. 129 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks MANUFACTURER DATA REPORT ATTACHED

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Robert D. Brisany, Planner Date 5-20, 20 02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by H.S.B.I. & I. Company of Hartford, CT have inspected the components described in this Owner's Report during the period 9 AUG 2001 to 24 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Demant Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 24 MAY 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 1, 2002
Name _____
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # R0660342
Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name _____ Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System Stand By Liquid Control (System-048) Line No. ECB-114 Valve XV-048-1F004C
5. (a) Applicable Construction Code ASME III 19 68 Edition, N/A Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
INLET FITTING	IST CONAX	5819	5819	* 114-77023 PO# 178363	2000	REPLACEMENT	NO
TRIGGER BODY	IST CONAX	5821	5821	* 114-77023 PO# 178363	2000	REPLACEMENT	NO

* Traceability per Exelon part code number.

7. Description of Work Replaced explosive valve inlet fitting and trigger body.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other _____ Pressure 1210 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Manufacturer's data reports are traceable by Exelon work order package.
Applicable Manufacturer's Data Reports to be attached
- Inlet fitting and trigger body fabricated in accordance with ASME III, 1977 edition with summer 1977 addenda.
- Inlet fitting and trigger body subsequently replaced in 1R09 via work order R0840706.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer, engineer Date May 1, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 12 MAY 2000 to 10 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature]
Inspector's Signature

Commissions PA-2497 I, N & A
National Board, State, Province, and Endorsements

Date 10 MAY 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 1, 2002
Name
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address
2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # R0840706
Address Repair Organization P.O. No., Job No. etc._
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System Stand By Liquid Control (System-048) Line No. ECB-114 Valve XV-048-1F004C
5. (a) Applicable Construction Code ASME III 19 68 Edition, N/A Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
INLET FITTING	IST CONAX	5890	5890	* 114-77023 PO# 180455	2000	REPLACEMENT	NO
TRIGGER BODY	IST CONAX	5892	5892	* 114-77023 PO# 180455	2000	REPLACEMENT	NO

* Traceability per Exelon part code number.

7. Description of Work Replaced explosive valve inlet fitting and trigger body.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other ___ Pressure 1220 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Manufacturer's data reports are traceable by Exelon work order package.
Applicable Manufacturer's Data Reports to be attached

Inlet fitting and trigger body fabricated in accordance with ASME III, 1977 edition with Summer 1977 addenda.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Jan H. Kramer J.H. Kramer, engineer Date May 1, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 22 AUG 2001 to 10 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Jan H. Kramer Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 10 MAY 20 02

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 29, 2002
Name _____
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0197777
Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name _____ Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System Reactor Core Isolation Cooling (System-049) Line No. DBA-107 Valve HV-049-1F007
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 1974 Addenda, 1516-2, 1567, 1622 and 1682 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
VALVE DISC	FLOWERVE	S/N 2 HEAT No. G5190	N/A	* 114-07833 PO# 257805- 348482	2000	REPLACEMENT	YES

* Traceability per Exelon part code number.

7. Description of Work : Replaced 3" Valve disc.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Manufacturer's data reports are traceable by Exelon work order package.
Applicable Manufacturer's Data Reports to be attached

Work completed in accordance with Exelon design change ECR 00-01567.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Jam H. Kramer J.H. Kramer, engineer Date April 29, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 20 SEPT 2001 to 10 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature] Commissions PA-2497 I.N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 10 MAY 20 02

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 25, 2002
Name
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address
2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0198226
Address Repair Organization P.O. No., Job No. etc._
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System Residual Heat Removal (System-051) Line No. GBB-119 Valve 051-1F090C
5. (a) Applicable Construction Code ASME III 1971 Edition, Summer 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
VALVE DISC	VELAN	S/N 7448 HEAT No. 07251	N/A	* 114-33943 PO# 184729	2001	REPLACEMENT	YES

* Traceability per Exelon part code number.

7. Description of Work : Replaced 4" Valve disc.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 235 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Manufacturer's data reports are traceable by Exelon work order package.
Applicable Manufacturer's Data Reports to be attached

Work completed in accordance with Exelon NCR# 00-00323.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Jam H. Kramer J.H. Kramer, engineer Date April 25, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 21 SEPT 2001 to 10 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature]
Inspector's Signature

Commissions PA-2497 I,N & A
National Board, State, Province, and Endorsements

Date 10 MAY 20 02

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 19, 2002
Name
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address
2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0200659
Address Repair Organization P.O. No., Job No. etc._
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System Residual Heat Removal (System-051) Line No. DCA-104 Valve HV-051-1F050B
5. (a) Applicable Construction Code ASME III 19 74 Edition, Summer 1974 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
VALVE DISC	ATWOOD & MORRILL	N38283-1	N/A	* 114-02791 PO# 257796-348080	2000	REPLACEMENT	YES

* Traceability per Exelon part code number.

7. Description of Work : Replaced 12" Valve disc.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other ___ Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Manufacturer's data reports are traceable by Exelon work order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Jan H. Kramer J.H. Kramer, engineer Date April 19, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 3/8/2002 to 4/24/2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul [Signature] Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 4/24 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 19, 2002
Name
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address
2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # R0663250
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System Residual Heat Removal (System-051) Line No. GBB-119 Valve 051-1F090D
5. (a) Applicable Construction Code ASME III 19 71 Edition, Summer 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
VALVE DISC	VELAN	7096	N/A	* 114-33943 PO# 608896	1996	REPLACEMENT	YES

* Traceability per Exelon part code number.

7. Description of Work Replaced 4" Valve disc.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 245 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Manufacturer's data reports are traceable by Exelon work order package.
Applicable Manufacturer's Data Reports to be attached _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA
Certificate of Authorization No. NA Expiration Date NA
Signed J.H. Kramer J.H. Kramer, engineer Date April 19, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 3/15/00 to 4/25/2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Senack
Inspector's Signature

Commissions PA-2497 I, N & A
National Board, State, Province, and Endorsements

Date 4/25 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 25, 2002
Name
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address
2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0197778
Address Repair Organization P.O. No., Job No. etc.,
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System High pressure Coolant Injection (System-055) Line No. DBA-106 Valve HV-055-1F002
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 1974 Addenda, 1516-1, 1567, 1622 and 1682 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
VALVE DISC	FLOWSERVE	S/N 2 HEAT No. H4460	N/A	* 114-07722 PO# 257805- 348438	2000	REPLACEMENT	YES

* Traceability per Exelon part code number.

7. Description of Work : Replaced 10" Valve disc.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1045 psi Test Temp. 122 °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Manufacturer's data reports are traceable by Exelon work order package.
Applicable Manufacturer's Data Reports to be attached

Work completed in accordance with Exelon design change ECR 00-01568.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Jan V. Pina J.H. Kramer, engineer Date April 25, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 25 SEPT 2001 to 10 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul L. ... Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 10 MAY 20 02

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 30, 2002
Name _____
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0192545
Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name _____ Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System High pressure Coolant Injection (System-055) Line No. HBB-115-E001 Pump 10-P215
5. (a) Applicable Construction Code ASME III 19 74 Edition, Winter 1974 Addenda, N-416-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
1-1/2" PIPE HBB-115-E1 PIECE No's 29 AND 30	QUANEX	HEAT No. 294072	N/A	* 114-90044 PO# LS 656925	N/A	REPLACEMENT	NO
1-1/4" PIPE HBB-115-E1 PIECE No. 31	QUANEX	HEAT No. 698874	N/A	* 114-90043 PO# 178962	N/A	REPLACEMENT	NO
1-1/2" ELBOWS HBB-115-E1 PIECE No's 33 AND 34	BONNEY FORGE	LOT No. 77835 HEAT No. 13662	N/A	* 114-90817 PO# 177725	N/A	REPLACEMENT	NO
REDUCER HBB-115-E1 PIECE No. 35	CAPITOL	HEAT CODE 35D	N/A	* 114-93834 PO# LS620823	N/A	REPLACEMENT	NO

* Traceability per Exelon part code number.

7. Description of Work: Replaced HPCI barometric condenser condensate pump discharge piping.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 960 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Work completed in accordance with Exelon design change ECR's # 99-02528 and 02-00152.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J.H. Kramer, engineer Date April 30, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT

have inspected the components described in this Owner's Report during the period 26 NOV 2001 to 14 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

[Signature] Commissions PA-2497 I.N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 14 MAY 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 24, 2002
Name _____
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0196591
Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name _____ Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System High Pressure Coolant Injection (System-055) Line No. HBB-115 Valve 056-1F057
5. (a) Applicable Construction Code ASME III 1974 Edition, Winter 1975 Addenda, 1791 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
VALVE DISC	EDWARD VALVE	24594-301-14	N/A	* 114-85557 PO# 350394-348017	1993	REPLACEMENT	YES

* Traceability per Exelon part code number.

7. Description of Work : Replaced 2" Valve 056-1F057 disc.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 1200 psi Test Temp. °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Manufacturer's data reports are traceable by Exelon work order package.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J.H. Kramer J.H. Kramer, engineer Date April 24, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 01/9/2002 to 4/25/2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Leonard Commissions PA-2497 I.N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 4/25 20 02

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 7, 2002
Name

300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit 1
Name

P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0192190
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A

P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address

4. Identification of System Control Room Chilled Water (System-090) Line No. HBD-065 Valve SV-090-045A

5. (a) Applicable Construction Code ANSI B31.1 1973 Edition, N/A Addenda, N-416-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
1-1/2" VALVE SV-090-045A	CURTIS-WHIGHT	1	N/A	* 114-07791 PO# 177105	2000	REPLACEMENT	NO
1-1/2" PIPE HBD-065-E3 PIECE No's 3 AND 4	QUANEX	HEAT No. 294072	N/A	* 114-90044 PO# LS 656925	N/A	REPLACEMENT	NO

* Traceability per Exelon part code number.

7. Description of Work: Replaced 1-1/2" solenoid valve SV-090-045A and adjacent piping.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 100 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Work completed in accordance with Exelon ECR # 96-01777.
Applicable Manufacturer's Data Reports to be attached

Solenoid valve SV-090-045A is designed and manufactured in accordance with ASME III, Class 3, 1974 edition with addenda through
Winter 1974, but is non - 'N' - stamped.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed *Jan H. Kramer* J.H. Kramer, engineer Date May 7, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 24 MAY 2000 to 14 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Leonard J. Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 14 MAY 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date May 7, 2002
Name _____
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address _____
2. Plant Limerick Generating Station Unit 1
Name _____
P.O. Box 2300, Sanatoga, PA 19464-2300 Work order # C0192041
Address _____ Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name _____ Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address _____
4. Identification of System Control Room Chilled Water (System-090) Line No. HBD-067 Valve SV-090-045B
5. (a) Applicable Construction Code ANSI B31.1 1973 Edition, N/A Addenda, N-416-1 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
1-1/2" VALVE SV-090-045B	CURTIS-WHIGHT	2	N/A	* 114-07791 PO# 177105	2000	REPLACEMENT	NO
1-1/2" PIPE HBD-067-E3 PIECE No. 6	QUANEX	HEAT No. 294072	N/A	* 114-90044 PO# LS 656925	N/A	REPLACEMENT	NO

* Traceability per Exelon part code number.

7. Description of Work: Replaced 1-1/2" solenoid valve SV-090-045B and adjacent piping.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure 100 psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks: Work completed in accordance with Exelon ECR # 96-01777.
Applicable Manufacturer's Data Reports to be attached

Solenoid valve SV-090-045B is designed and manufactured in accordance with ASME III, Class 3, 1974 edition with addenda through
Winter 1974, but is non - 'N' - stamped.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI
Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Jam H. Kramer J.H. Kramer, engineer Date May 7, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 24 MAY 2000 to 14 MAY 2002, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's 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 Owner's 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.

Paul Bennett Commissions PA-2497 I,N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 14 MAY 20 02

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 17, 2002
Name
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 3
Address
2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Action Request No. A1279034
Address Repair Organization P.O. No., Job No. etc. _____
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System Snubbers (System 103) Line No. Various. See Name of Component
5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition, March 10, 1971 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
EBB-101-H018(B)	BASIC-PSA	41736	N/A	PSA-100 SNUBBER	N/A	REPLACEMENT	NO
EBB-109-H023	PACIFIC SCIENTIFIC	19873	N/A	PSA-1 SNUBBER	N/A	REPLACEMENT	YES
EBB-109-H036	BASIC-PSA	41415	N/A	PSA-1 SNUBBER	N/A	REPLACEMENT	NO
GBB-106-H009	PACIFIC SCIENTIFIC	17420	N/A	PSA-1 SNUBBER	N/A	REPLACEMENT	YES
GBB-119-H011(A)	BASIC-PSA	41771	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	NO
GBB-119-H016A	PACIFIC SCIENTIFIC	17344	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES
GBB-119-H017(A)	PACIFIC SCIENTIFIC	2693	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES
GBB-119-H017(B)	PACIFIC SCIENTIFIC	7662	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES
GBB-119-H018(A)	PACIFIC SCIENTIFIC	17163	N/A	PSA-3 SNUBBER	N/A	REPLACEMENT	YES
GBB-119-H018(B)	PACIFIC SCIENTIFIC	21303	N/A	PSA-3 SNUBBER	N/A	REPLACEMENT	YES
GBB-119-H018(C)	BASIC-PSA	41770	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	NO
GBB-119-H025	BASIC-PSA	41773	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	NO
GBB-119-H040	BASIC-PSA	41408	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	NO

7. Description of Work Replaced mechanical shock arrester snubbers.
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure N/A psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 17, 2002
Name
300 Exelon Way, Kennett Square, PA 19348 Sheet 2 of 3
Address

2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Action Request No. A1279034
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address

4. Identification of System Snubbers (System 103) Line No. Various, See Name of Component

5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, March 10, 1971 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
GBB-119-H041(A)	BASIC-PSA	41772	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	NO
GBB-119-H041(B)	BASIC-PSA	41767	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	NO
GBB-119-H043	BASIC-PSA	41769	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	NO
GBB-119-H045	BASIC-PSA	41766	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	NO
GBB-119-H047	PACIFIC SCIENTIFIC	9274	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES
GBB-119-H060(A)	PACIFIC SCIENTIFIC	17242	N/A	PSA-3 SNUBBER	N/A	REPLACEMENT	YES
GBB-119-H060(B)	PACIFIC SCIENTIFIC	3028	N/A	PSA-3 SNUBBER	N/A	REPLACEMENT	YES
GBB-119-H063	PACIFIC SCIENTIFIC	1751	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES
GBB-119-H070(A)	PACIFIC SCIENTIFIC	3186	N/A	PSA-3 SNUBBER	N/A	REPLACEMENT	YES
GBB-119-H070(B)	PACIFIC SCIENTIFIC	17125	N/A	PSA-3 SNUBBER	N/A	REPLACEMENT	YES
GBB-119-H075	PACIFIC SCIENTIFIC	17388	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES
GBB-119-H079	PACIFIC SCIENTIFIC	17459	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES
GBB-119-H092	PACIFIC SCIENTIFIC	17569	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES
HBB-127-H006	PACIFIC SCIENTIFIC	11251	N/A	PSA-1 SNUBBER	N/A	REPLACEMENT	YES
HBB-127-H013	PACIFIC SCIENTIFIC	11225	N/A	PSA-1 SNUBBER	N/A	REPLACEMENT	YES

FORM NIS-2 (BACK)

9. Remarks Pacific Scientific and BASIC-PSA snubbers are manufactured to ASME III, 1977 edition with winter 1977 addenda.
Applicable Manufacturer's Data Reports to be attached

New snubbers were purchased under Exelon purchase order numbers 184591, 180454, 187434 and LS 386558.

Snubbers which are not new were rebuilt by Exelon.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI. repair of replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J. H. Kramer, Engineer Date April 17, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or Province of Pennsylvania and employed by HSBCT of
Hartford, CT have inspected the components described

in this Owner's Report during the period 6 MAR 2002 to 10 MAY 2002, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's 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 Owner's 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.

J. H. Kramer Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 10 MAY 18 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 17, 2002
 Name
300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 3
 Address
2. Plant Limerick Generating Station Unit 1
 Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Action Request No. A1279040
 Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
 Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
 Address
4. Identification of System Snubbers (System 103) Line No. Various, See Name of Component
5. (a) Applicable Construction Code ANSI B31.7 19 69 Edition, March 10, 1971 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 89
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
DBA-110-E01-H006	PACIFIC SCIENTIFIC	19905	N/A	PSA-1 SNUBBER	N/A	REPLACEMENT	YES
DBB-101-H002(A)	PACIFIC SCIENTIFIC	13615	N/A	PSA-3 SNUBBER	N/A	REPLACEMENT	YES
DBB-101-H002(B)	PACIFIC SCIENTIFIC	21101	N/A	PSA-3 SNUBBER	N/A	REPLACEMENT	YES
DBB-105-H003	PACIFIC SCIENTIFIC	13174	N/A	PSA-3 SNUBBER	N/A	REPLACEMENT	YES
DBB-112-H003	PACIFIC SCIENTIFIC	17046	N/A	PSA-3 SNUBBER	N/A	REPLACEMENT	YES
DBB-112-H004	PACIFIC SCIENTIFIC	1524	N/A	PSA-1 SNUBBER	N/A	REPLACEMENT	YES
DCA-101-H011	PACIFIC SCIENTIFIC	14022	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES
DCA-101-H016	PACIFIC SCIENTIFIC	5481	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES

7. Description of Work Replaced mechanical shock arrester snubbers
8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure N/A psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date March 28, 2002
Name
300 Exelon Way, Kennett Square, PA 19348 Sheet 2 of 3
Address
2. Plant Limerick Generating Station Unit 1
Name
P.O. Box 2300, Sanatoga, PA 19464-2300 Action Request No. A1279040
Address Repair Organization P.O. No., Job No. etc.
3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address
4. Identification of System Snubbers (System 103) Line No. Various, See Name of Component
5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, March 10, 1971 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
DCA-101-H017	PACIFIC SCIENTIFIC	7676	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES
DCA-101-H018	PACIFIC SCIENTIFIC	7663	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES
DCA-101-H065(A)	PACIFIC SCIENTIFIC	15580	N/A	PSA-1 SNUBBER	N/A	REPLACEMENT	YES
DCA-101-H065(B)	PACIFIC SCIENTIFIC	25032	N/A	PSA-1 SNUBBER	N/A	REPLACEMENT	YES
DCA-101-H068	PACIFIC SCIENTIFIC	9286	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES
DCA-101-H069	PACIFIC SCIENTIFIC	12501	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES
DCA-113-H008	PACIFIC SCIENTIFIC	1871	N/A	PSA-1 SNUBBER	N/A	REPLACEMENT	YES
DCA-113-H008 LOAD PIN	BASIC-PSA	HEAT No. N4054	N/A	Part# 114-73891 PO# 177803	N/A	REPLACEMENT	NO
DCA-113-E01-H002(A)	LISEGA	99614750/59	N/A	HYDRAULIC SNUBBER	N/A	REPLACEMENT	NO
DCA-113-E01-H002(B)	LISEGA	99614750/92	N/A	HYDRAULIC SNUBBER	N/A	REPLACEMENT	NO
DCA-113-E01-H005	LISEGA	99614750/45	N/A	HYDRAULIC SNUBBER	N/A	REPLACEMENT	NO
EBB-106-H005(A)	PACIFIC SCIENTIFIC	21219	N/A	PSA-3 SNUBBER	N/A	REPLACEMENT	YES
EBB-106-H005(B)	PACIFIC SCIENTIFIC	17185	N/A	PSA-3 SNUBBER	N/A	REPLACEMENT	YES
EBB-106-H010(A)	PACIFIC SCIENTIFIC	2692	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES
EBB-106-H010(B)	PACIFIC SCIENTIFIC	2675	N/A	PSA-10 SNUBBER	N/A	REPLACEMENT	YES

FORM NIS-2 (BACK)

9. Remarks Pacific Scientific, BASIC-PSA and LISEGA snubbers are manufactured to ASME III, 1977 edition with winter 1977 addenda.
Applicable Manufacturer's Data Reports to be attached

Hydraulic snubbers installed in accordance with Exelon ECR# 99-01540 and purchased under Exelon purchase order# 175207.

Mechanical snubbers were rebuilt by Exelon, prior to installation.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI. repair of replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J. H. Kramer, Engineer Date April 17, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or Province of Pennsylvania and employed by HSBCT of

Hartford, CT have inspected the components described
in this Owner's Report during the period 6 MAR 2002 to 10 MAY 2002, and state that
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's 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 Owner's 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.

Paul Dececi Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 10 MAY 19 2002

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Exelon Nuclear Date April 17, 2002
Name

300 Exelon Way, Kennett Square, PA 19348 Sheet 1 of 2
Address

2. Plant Limerick Generating Station Unit 1
Name

P.O. Box 2300, Sanatoga, PA 19464-2300 Action Request No. A1357741
Address Repair Organization P.O. No., Job No. etc.

3. Work Performed by Exelon Nuclear Type Code Symbol Stamp N/A
Name Authorization No. N/A

P.O. Box 2300, Sanatoga, PA 19464-2300 Expiration Date N/A
Address

4. Identification of System Snubbers (System 103) Line No. Various, See Name of Component

5. (a) Applicable Construction Code ANSI B31.7 1969 Edition, March 10, 1971 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1989

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped
DCA-101-H045	PACIFIC SCIENTIFIC	21119	N/A	PSA-3 SNUBBER	N/A	REPLACEMENT	YES

7. Description of Work Replaced mechanical shock arrester snubber.

8. Tests conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure N/A psi Test Temp. N/A °F.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (BACK)

9. Remarks Pacific Scientific and BASIC-PSA snubbers are manufactured to ASME III, 1977 edition with winter 1977 addenda.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI. repair of replacement

Type Code Symbol Stamp NA
Certificate of Authorization No. NA Expiration Date NA

Signed J. H. Kramer J. H. Kramer, Engineer Date April 17, 2002
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State
or Province of Pennsylvania and employed by HSBCT of
Hartford, CT
in this Owner's Report during the period 6 MAR 2002 to 10 MAY 2002, have inspected the components described
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's 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 Owner's 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.

[Signature] Commissions PA-2497 I, N & A
Inspector's Signature National Board, State, Province, and Endorsements

Date 10 MAY 18 2002