



FORM NIS-1 (back)

8. Examination Dates 08/16/88 to 03/04/90 9. Inspection Interval from 1974 to 1991

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Table 1. The inservice inspection required for this interval is approximately 95% completed.

11. Abstract of Conditions Noted  
See Table 2.

12. Abstract of Corrective Measures Recommended and Taken  
See Table 2.

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

Date MAY 25 19 90 Signed Manager By Sana W. Lovell  
NDE/ISI Services  
Owner

Certificate of Authorization No. (if applicable) NA Expiration Date NA

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Pennsylvania and employed by Hartford Steam Boiler Hartford, Conn I&I Co. have inspected the components described in this Owners' Data Report during the period 08/16/88 to 03/04/90, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

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

Date MAY 25 19 90

J. J. Kelly Commissions PA-1887 NB 5478  
Inspector's Signature National Board, State, Province and No.

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

1. Owner Metropolitan Edison Company Date 04-04-90  
2800 Pottsville Pike  
Reading, Pennsylvania  
Address Sheet 1 of 1
2. Plant Three Mile Island Nuclear Generating Station Unit 1  
Route 441 South Name BA# 123228 JO# A25E-VI228  
Middletown, Pennsylvania Address WA# A25E-53228 MNCR# 880107  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by GPU Nuclear Type Code Symbol Stamp NA  
100 Interp. Pkwy. Name Authorization No. NA  
Parsippany, New Jersey Address Expiration Date NA  
Address
4. Identification of System Decay Heat Removal
5. (a) Applicable Construction Code USAS B31.7 19 69 Edition, NA Addenda, NA Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1974 Edition with addenda through Summer 1975

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)
Support	NA	NA	NA	DHH-108A	1974	Repaired	No

7. Description of Work Performed weld build-up to undersized integral attachment welds on support DHH-108A.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F See Remarks

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 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 Metropolitan Edison Company Date 04-04-90  
Name  
2800 Pottsville Pike  
Address Reading, Pennsylvania Sheet 1 of 1
2. Plant Three Mile Island Nuclear Generating Station Unit 1  
Name  
Route 441 South  
Address Middletown, Pennsylvania Job Tickets CR721 and CR727  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by GPU Nuclear Type Code Symbol Stamp NA  
Name  
100 Interpace Pkwy. Authorization No. NA  
Address Parsippany, N.J. Expiration Date NA
4. Identification of System Main Steam
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, NA Addenda, NA Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 74 with Addenda thru Summer 1975.

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)
1 1/2" Valve	Hancock Mfg. Co.	NA	NA	MS-V-74A	1974	Replaced	No
1 1/2" Valve	Hancock Mfg. Co.	NA	NA	MS-V-74B	1974	Replaced	No

7. Description of Work Replace valves MS-V-74A and MS-V-74B

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 900 psig Test Temp. NA °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 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 NA  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that ~~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 IA  
Certificate of Authorization IA Expiration Date NA  
Signed Dana W. Lovell NDE/ISI Services Manager Date MAY 25, 19 90  
Owner or Owner's Agent

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Hartford Steam Boiler I&I Co. of Hartford, Conn. have inspected the components described in this Owner's Report during the period 08-17-88 to 04-04-90, and state that to the best of my knowledge 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 I nor my 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-1887 NB 5478  
Inspector's Signature National Board, State, Province, and Endorsements  
Date MAY 31 19 90

FORM NIS-2 (Back)

9. Remarks NA  
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 Dana W Lovell NDE/ISI Services Manager Date MAY 25, 19 90  
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 Hartford Steam Boiler I&I Co. of Hartford, Conn. have inspected the components described in this Owner's Report during the period 08-17-88 to 04-04-90, 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-1887 NB 547E  
Inspector's Signature National Board, State, Province, and Endorsements

Date MAY 25 19 90

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Pottsville Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
* * * * IN SERVICE EXAMINATIONS * * * *								
B-C	B1. 3	RC /Reactor Vessel - RC-T1	RH-0001	Head to Flange Weld	UT	CS	159	Examined adjacent to stud holes 40 thru 1.
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0041	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0041	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RK J042	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0042	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0043	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0043	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0044	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0044	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0045	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0045	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0046	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0046	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0047	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0047	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0048	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0048	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0049	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0049	Head Stud and Nut	MT	CS	6.5	



NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Pottsville Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-107

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0050	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0050	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0051	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0051	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0052	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0052	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0053	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0053	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0054	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0054	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0055	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0055	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0056	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0056	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0057	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0057	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0058	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0058	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0059	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0059	Head Stud and Nut	MT	CS	6.5	

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Pottsville Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0060	Head Stud and Nut	UT	CS	6.5	
B-G-1	B1. 8	RC /Reactor Vessel - RC-T1	RH-0060	Head Stud and Nut	MT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0041F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0042F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0043F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0044F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0045F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0046F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0047F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0048F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0049F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0050F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0051F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0052F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0053F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0054F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0055F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0056F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0057F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0058F	Flange Ligaments	UT	CS	6.5	

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Pottsville Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0059F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1. 9	RC /Reactor Vessel - RC-T1	RH-0060F	Flange Ligaments	UT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0031W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0032W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0033W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0034W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0035W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0036W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0037W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0038W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0039W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0040W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0041W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0042W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0043W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0044W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0045W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0046W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0047W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0048W	Spherical Washers	VT	CS	6.5	

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Pottsville Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0049W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0050W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0051W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0052W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0053W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0054W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0055W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0056W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0057W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0058W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0059W	Spherical Washers	VT	CS	6.5	
B-G-1	B1.10	RC /Reactor Vessel - RC-T1	RH-0060W	Spherical Washers	VT	CS	6.5	
B-G-2	B1.11	RC /Reactor Vessel - RC-T1	CRDM Bolting	Flange Bolting	VT	CS/SS	1.0	See Table 2.
B-0	B1.18	RC /Reactor Vessel - RC-T1	CRD-0073	Base to Motor Tube Weld	UT	SS/CS	4.2/5.8	
B-0	B1.18	RC /Reactor Vessel - RC-T1	CRD-0074	Motor Tube to Extension Weld	UT	SS/CS	4.2	
B-0	B1.18	RC /Reactor Vessel - RC-T1	CRD-0075	Extension to Cap Weld	UT	SS	4.2	
B-0	B1.18	RC /Reactor Vessel - RC-T1	RH-0074	Adapter to Flange Weld	UT	SS	4.0	
B-0	B1.18	RC /Reactor Vessel - RC-T1	RH-0075	Body to Adapter Weld	UT	INC/SS	4.0	
B-F	B2.4	RC /Pressurizer - RC-T2	PR-0009BM	Safe End to Nozzle Weld	UT	CS/INC	5.12	
B-F	B2.4	RC /Pressurizer - RC-T2	PR-0021BM	Nozzle to Safe End Weld	UT	CS/SS	11.5/11	

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Pottsville Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-H	B2.8	RC /Pressurizer - RC-T2	PR-0027WA	Integral Attachment Weld	MT	CS	97	
B-H	B2.8	RC /Pressurizer - RC-T2	PR-0028WA	Integral Attachment Weld	MT	CS	97	
B-H	B2.8	RC /Pressurizer - RC-T2	PR-0029WA	Integral Attachment Weld	MT	CS	97	
B-B	B3.1	MU /Letdown Cooler MU-C1B	MU-1022L	Manifold Long Seam Weld	UT	SS	3.75	Examined accessible length only.
B-B	B3.1	MU /Letdown Cooler MU-C1A	MU-1036L	Manifold Long Seam Weld	UT	SS	3.75	Examined accessible length only.
B-B	B3.1	MU /Letdown Cooler MU-C1A	MU-1037L	Manifold Long Seam Weld	UT	SS	3.75	Examined accessible length only.
B-D	B3.2	RC /Steam Generator - RC-H-1B	SG-0008W	Nozzle to Lower Head Weld and Inner Radius	UT	CS	28	
B-D	B3.2	RC /Steam Generator - RC-H-1B	SG-0009W	Nozzle to Lower Head Weld and Inner Radius	UT	CS	28	
B-F	B4. 1	DH /12" DH Drop Line	DH-0001BW	Branch Safe End Weld	UT	CS/SS	13.8/12	
B-F	B4. 1	MU /2 1/2" HPI Line to RC-P1D Loop	MU-0901BW	Valve to Safe End Weld	UT	SS/INC	2.5	Exam on safe end side only.
B-F	B4. 1	MU /2 1/2" HPI Line to RC-P1D Loop	MU-0901BW	Valve to Safe End Weld	PT	SS/INC	2.5	
B-F	B4. 1	MU /2 1/2" HPI Line to RC-P1C Loop	MU-0903BW	Valve to Safe End Weld	PT	INC/SS	2.5	
B-F	B4. 1	MU /2 1/2" HPI Line to RC-P1C Loop	MU-0903BW	Valve to Safe End Weld	UT	SS/INC	2.5	Exam on safe end side only.
B-F	B4. 1	RC /28 Inch Line - RC-H-1B to RC-P1C	RC-0078BW	Pipe to Pipe Weld	PT	CS/SS	28	
B-F	B4. 1	RC /28 Inch Line - RC-H-1B to RC-P1C	RC-0078BW	Pipe to Pipe Weld	UT	CS/SS	28	
B-F	B4. 1	RC /28 Inch Line - RC-H-1B to RC-P1D	RC-0097BW	Pipe to Pipe Weld	PT	CS/SS	28	
B-F	B4. 1	RC /28 Inch Line - RC-H-1B to RC-P1D	RC-0097BW	Pipe to Pipe Weld	UT	CS/SS	28	
B-F	B4. 1	RC /1 1/2" RC-P1A Loop Drain	RC-0173BW	Safe End to Elbow Weld	PT	INC/SS	1.5	
B-F	B4. 1	RC /1 1/2" RC-P1A Loop Drain	RC-0173BW	Safe End to Elbow Weld	RT	INC/SS	1.5	
B-J	B4. 5	DH /10" Line DH-V22B to CFS	DH-0020	Valve to Tee Weld	UT	SS	10	

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Pottsville Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE 8R  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-J	B4.5	MU /2 1/2" Line to MU-C1E	MU-0017	Elbow to Pipe Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" HPI Line to RC-P1A	MU-0131	Pipe to Valve Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" HPI Line to RC-P1A Loop	MU-0132	Elbow to Pipe Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" HPI Line to RC-P1A Loop	MU-0133	Pipe to Elbow Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" HPI Line to RC-P1A Loop	MU-0134	Pipe to Elbow Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" HPI Line to RC-P1A Loop	MU-0135	Elbow to Pipe Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" HPI Line to RC-P1A Loop	MU-0136	Pipe to Elbow Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" HPI Line to RC-P1A Loop	MU-0137	Elbow to Pipe Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" HPI Line to RC-P1A Loop	MU-0138	Pipe to Elbow Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" HPI Line to RC-P1A Loop	MU-0139	Elbow to Pipe Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" HPI Line to RC-P1A Loop	MU-0140	Elbow to Elbow Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" Line FROM MU-C1B	MU-0213	Pipe to Elbow Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" Line from MU-C1A	MU-0217	Elbow to Valve Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" Line from MU-C1B	MU-0237	Pipe to Elbow Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" Line from MU-C1B	MU-0238	Elbow to Pipe Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" HPI Line to RC-P1A loop	MU-0950	Pipe to Elbow Weld	UT	SS	2.5	
B-J	B4.5	MU /2 1/2" HPI Line to RC-P1A Loop	MU-0951	Elbow to Pipe Weld	UT	SS	2.5	
B-J	B4.5	RC /28" Line - RC-H-1A to RC-P1B	RC-0042	Pipe to Pipe Weld	UT	CS	28	
B-J	B4.5	RC /28" Line - RC-H-1A to RC-P1B	RC-0044	Pipe to Pump Weld	UT	SS	31	
B-J	B4.5	RC /36" Line - RC-T1 to RC-H-1B	RC-0066	Elbow to Pipe Weld	UT	CS	36	

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Perkasie Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-J	B4. 5	RC /36" Line - RC-T1 to RC-H-1B	RC-0067	Pipe to Nozzle Weld	UT	CS	36	
B-J	B4. 5	RC /28" Line - RC-H-1A to RC-P1B	RC-0120	Pipe to Pipe Weld	UT	SS	31	
B-J	B4. 5	RC /28" Line - RC-H-1A to RC-P1B	RC-0121	Pipe to Pipe Weld	UT	SS	28	
B-J	B4. 5	RC /28" Line - RC-H-1A to RC-P1B	RC-0131	Pipe to Pipe Weld	UT	CS	28	
B-J	B4. 5	RC /36" Line - RC-T1 to RC-H-1B	RC-0220L	Outside Radius Long Elbow Weld	UT	CS	36	
B-J	B4. 5	RC /36" Line - RC-T1 to RC-H-1B	RC-0221L	Inside Radius Long Elbow Weld	UT	CS	36	
B-J	B4. 5	RC /2 1/2" Pressurizer Relief	RC-0275	Flange to Valve Weld	UT	SS	2.5	
B-J	B4. 5	RC /2 1/2" Pressurizer Spray Line	SP-0001	Nozzle to Pipe Weld	UT	SS	2.5	
B-J	B4. 5	RC /2 1/2" Pressurizer Spray Line	SP-0003	Elbow to Pipe Weld	UT	SS	2.5	
B-J	B4. 5	RC /4" Pressurizer Spray Line	SP-0070	Elbow to Pipe Weld	UT	SS	4.0	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1A	MU-0614s	Elbow to Pipe Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0657S	Pipe to Elbow Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Header	MU-0748S	Valve to Pipe Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0771S	Reducer to Pipe Weld	PT	SS	1.5	
B-J	B4. 8	MU /2" Seal Injection Header	MU-0796S	Pipe to Coupling Weld	PT	SS	2.0	
B-J	B4. 8	MU /2" Seal Injection Header	MU-0797S	Coupling to Pipe Weld	PT	SS	2.0	
B-J	B4. 8	MU /2" Seal Injection Header	MU-0798S	Pipe to Elbow Weld	PT	SS	2.0	
B-J	B4. 8	MU /2" Seal Injection Header	MU-0799S	Elbow to Pipe Weld	PT	SS	2.0	
B-J	B4. 8	MU /2" Seal Injection Header	MU-0800S	Pipe to Elbow Weld	PT	SS	2.0	
B-J	B4. 8	MU /2" Seal Injection Header	MU-0801S	Elbow to Pipe Weld	PT	SS	2.0	

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Pottsville Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-J	B4. 8	MU /2" Seal Injection Header	MU-0802S	Pipe to Elbow Weld	PT	SS	2.0	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0829S	Tee to Pipe Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0830S	Tee to Reducer Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0831S	Pipe to Tee Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0832S	Coupling to Pipe Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0833S	Pipe to Coupling Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0834S	Elbow to Pipe Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0835S	Pipe to Elbow Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0836S	Elbow to Pipe Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to P1D	MU-0837S	Pipe to Elbow Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0838S	Elbow to Pipe Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0839S	Pipe to Elbow Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0840S	Elbow to Pipe Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0841S	Pipe to Elbow Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0842S	Elbow to Pipe Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0843S	Pipe to Elbow Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0844S	Elbow to Pipe Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0845S	Pipe to Elbow Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0846S	Valve to Pipe Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0847S	Reducer to Valve Weld	PT	SS	1.5	



NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Pottsville Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
- OWNER CERTIFICATION OF AUTHORIZATION (if required): None
- COMMERCIAL SERVICE DATE: 09/02/74
- ORIGINAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0848S	Flow Element to Reducer Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0849S	Elbow to Flow element Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0850S	Pipe to Elbow Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0851S	Elbow to Pipe Weld	PT	SS	1.5	
B-J	B4. 8	MU /1 1/2" Seal Injection Line to RC-P1D	MU-0852S	Pipe to Elbow Weld	PT	SS	1.5	
B-K-1	B4. 9	CF /14" B Line to Reactor Vessel	CF-0051WA	Integral Attachment Weld	PT	SS	14	See Table 2.
B-K-1	B4. 9	CF /14" B Line to Reactor Vessel	CF-0052WA	Integral Attachment Weld	PT	SS	14	See Table 2.
B-K-1	B4. 9	CF /14" B Line to Reactor Vessel	CF-0053WA	Integral Attachment Weld	PT	SS	14	
B-K-1	B4. 9	CF /14" B Line to Reactor Vessel	CF-0054WA	Integral Attachment Weld	PT	SS	14	
B-K-2	B4.10	CF /Piping Support	CF-007	Snubber	VT	NA	14	See Table 2.
B-K-2	B4.10	CF /Piping Support	CF-008	Snubber	VT	NA	14	
B-K-2	B4.10	CF /Piping Support	CF-013	Variable	VT	NA	14	
B-K-2	B4.10	DH /Piping Support	DH-001	Variable	VT	NA	12	
B-K-2	B4.10	DH /Piping Support	DH-5	Snubber	VT	NA	12	
B-K-2	B4.10	DH /Piping Support	DH-6	Anchor	VT	NA	12	
B-K-2	B4.10	MU /Piping Support	MU-092-1	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-099-8	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-111-16	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-136-1	Variable	VT	NA	1.5	See Table 2.
B-K-2	B4.10	MU /Piping Support	MU-136-2	Variable	VT	NA	1.5	See Table 2.

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Pottsville Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-K-2	B4.10	MU /Piping Support	MU-136-3	Variable	VT	NA	1.5	See Table 2.
B-K-2	B4.10	MU /Piping Support	MU-136-4	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-136-5	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-136-6	U-Bolt	VT	NA	1.5	See Table 2.
B-K-2	B4.10	MU /Piping Support	MU-137-1	U-Bolt	VT	NA	1.5	See Table 2.
B-K-2	B4.10	MU /Piping Support	MU-137-2	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-137-3	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-137-4	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-137-5	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-137-7	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-138-2	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-138-3	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-138-4	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-139-1	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-139-6	Variable	VT	NA	1.5	See Table 2.
U-K-2	B4.10	MU /Piping Support	MU-139-7	Variable	VT	NA	1.5	See Table 2.
B-K-2	B4.10	MU /Piping Support	MU-140-4	Variable	VT	NA	1.5	See Table 2.
B-K-2	B4.10	MU /Piping Support	MU-141-1	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-141-2	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-141-3	U-Bolt	VT	NA	1.5	

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Pottsville Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel W-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-K-2	B4.10	MU /Piping Support	MU-141-4	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-141-5	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-141-8	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-142-6	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-143-1	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-144-02	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-144-03	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-144-05	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-144-06	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-144-07	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-144-08	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-144-09	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-144-10	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-145-1	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-145-2	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-146-1	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-146-2	Variable	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-146-3	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-146-4	U-Bolt	VT	NA	1.5	See Table 2.
B-K-2	B4.10	MU /Piping Support	MU-148-03	U-Bolt	VT	NA	1.5	

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Pottsville Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-K-2	B4.10	MU /Piping Support	MU-148-04	U-Bolt	VT	NA	1.5	See Table 2.
B-K-2	B4.10	MU /Piping Support	MU-148-05	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-148-11	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-148-12	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-148-13	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-148-14	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-148-15	U-Bolt	VT	NA	1.5	
B-K-2	B4.10	MU /Piping Support	MU-149-01	U-Bolt	VT	NA	2	
B-K-2	B4.10	MU /Piping Support	MU-149-02	U-Bolt	VT	NA	2	
B-K-2	B4.10	MU /Piping Support	MU-149-03	U-Bolt	VT	NA	2	
B-K-2	B4.10	MU /Piping Support	MU-149-04	U-Bolt	VT	NA	2	
B-K-2	B4.10	MU /Piping Support	MU-149-05	U-Bolt	VT	NA	2	See Table 2.
B-K-2	B4.10	MU /Piping Support	MU-149-06	U-Bolt	VT	NA	2	
B-K-2	B4.10	MU /Piping Support	MU-149-07	U-Bolt	VT	NA	2	
B-K-2	B4.10	MU /Piping Support	MU-149-08	U-Bolt	VT	NA	2	
B-K-2	B4.10	MU /Piping Support	MU-149-09	U-Bolt	VT	NA	2	
B-K-2	B4.10	MU /Piping Support	MU-149-10	U-Bolt	VT	NA	2	See Table 2.
B-K-2	B4.10	MU /Piping Support	MU-149-11	U-Bolt	VT	NA	2	
B-K-2	B4.10	MU /Piping Support	MU-149-12	U-Bolt	VT	NA	2	
B-K-2	B4.10	MU /Piping Support	MU-149-13	U-Bolt	VT	NA	2	

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Pottsville Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-K-2	B4.10	MU /Piping Support	MU-149-14	U-Bolt	VT	NA	2	
B-K-2	B4.10	MU /Piping Support	MU-149-15	U-Bolt	VT	NA	2	See Table 2.
B-K-2	B4.10	MU /Piping Support	MUH-222	Variable	VT	NA	2.5	See Table 2.
B-K-2	B4.10	MU /Piping Support	MUH-241	Variable	VT	NA	2.5	
B-K-2	B4.10	MU /Piping Support	MUH-245	Variable	VT	NA	2.5	
B-K-2	B4.10	MU /Piping Support	MUH-246	Variable	VT	NA	2.5	See Table 2.
B-K-2	B4.10	MU /Piping Support	MUH-248	Variable	VT	NA	2.5	
B-K-2	B4.10	MU /Piping Support	MUH-249	Variable	VT	NA	2.5	See Table 2.
B-K-2	B4.10	MU /Piping Support	MUH-291	U-Bolt	VT	NA	2	
B-K-2	B4.10	RC /Piping Support	RC-05	Snubber	VT	NA	1.5	
B-K-2	B4.10	RC /Piping Support	RC-12	Snubber	VT	NA	2.5	See Table 2.
B-K-2	B4.10	RC /Piping Support	RC-14	Snubber	VT	NA	2.5	
B-K-2	B4.10	RC /Piping Support	RC-15	Snubber	VT	NA	2.5	
B-K-2	B4.10	RC /Piping Support	RC-16	Snubber	VT	NA	2.5	
B-K-2	B4.10	RC /Piping Support	RC-34-2	U-Bolt	VT	NA	2	See Table 2.
B-K-2	B4.10	RC /Piping Support	RC-34-3	U-Bolt	VT	NA	2	See Table 2.
B-K-2	B4.10	RC /Piping Support	RC-35-1	U-Bolt	VT	NA	2	
B-K-2	B4.10	RC /Piping Support	RC-35-2	U-Bolt	VT	NA	2	See Table 2.
B-K-2	B4.10	RC /Piping Support	RC-35-3	U-Bolt	VT	NA	2	See Table 2.
B-K-2	B4.10	MU /Piping Support	RSH-466	U-Bolt	VT	NA	1.5	

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Pottsville Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-G-2	B4.12	MU /1 1/2" Seal Injection Line to RC-P1C	Flange at MU-628 & 629	Flange Bolting	VT	CS/SS	1.12	
B-G-2	B4.12	MU /1 1/2" Seal Injection Line to RC-P1D	Flange at MU-655 & 656	Flange Bolting	VT	CS/SS	1.12	
B-G-2	B4.12	MU /1 1/2" Seal Injection Line to RC-P1C	RC-P1C Connection	Flange Bolting	VT	CS/SS	1.12	
B-G-2	B4.12	MU /1 1/2" Seal Injection Line to RC-P1D	RC-P1D Connection	Flange Bolting	VT	CS/SS	1.12	
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-001MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-002MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-003MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-004MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-005MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-006MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-007MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-008MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-009MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-010MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-011MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-012MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-013MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-014MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-015MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-016MF-F	Bolting	VT	CS/SS	4.5	Examined in place.

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

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2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-017MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-018MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-019MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-020MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-021MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-022MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-023MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1C	RCPC-024MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-001MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-002MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-003MF-F	Bolting	VT	CS/SS	4.5	Examined in place. Obstruction.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-004MF-F	Bolting	VT	CS/SS	4.5	Examined in place. Obstruction.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-005MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-006MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-007MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-008MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-009MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-010MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-011MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-012MF-F	Bolting	VT	CS/SS	4.5	Examined in place.

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

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3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-013MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-014MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-015MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-016MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-017MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-018MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-019MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-020MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-021MF-F	Bolting	VT	CS/SS	4.5	Examined in place. Obstruction.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-022MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-023MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-G-1	B5.3	RC /Reactor Coolant Pump - RC-P1D	RCPd-024MF-F	Bolting	VT	CS/SS	4.5	Examined in place.
B-K-1	B5.4	RC /Reactor Coolant Pump - RC-P1A	RC-0277WA	Integral Attachment Weld	PT	SS	28	
B-K-2	B5.5	RC /Pump Support	RC-P1D-10	Constant	VT	NA	NA	
B-K-2	B5.5	RC /Pump Support	RC-P1D-11	Constant	VT	NA	NA	See Table 2.
B-K-2	B5.5	RC /Pump Support	RC-P1D-12	Ring	VT	NA	NA	
B-M-2	B6.7	CF /14" B Line to Reactor Vessel	CF-V004B	Valve Interior	VT	SS	14	
B-G-2	B6.9	CF /14" B Line to Reactor Vessel	CF-V004B	Hinge Pin Retainer Bolts	VT	SS	<2.0	
C-D	C1.4	MS /Steam Generator - RC-H-1B	Lower Sec. Manway	Bolting	VT	CS	1.25	
C-D	C1.4	MS /Steam Generator - RC-H-1B	Lower Sec. Manway	Bolting	UT	CS	1.25	2 studs examined.



NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

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3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE 8R  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
C-D	C1.4	DH /Decay Heat Cooler - DH-C1B	Primary Flange	Bolting	VT	CS/SS	1.12	
C-D	C1.4	DH /Decay Heat Cooler - DH-C1A	Primary Flange	Bolting	VT	CS/SS	1.12	
C-D	C1.4	DH /Decay Heat Cooler - DH-C1B	Primary Flange	Bolting	UT	CS	1.12	4 studs examined.
C-D	C1.4	DH /Decay Heat Cooler - DH-C1A	Primary Flange	Bolting	UT	CS	1.12	4 studs examined.
C-D	C1.4	MS /Steam Generator - RC-H-1B	Upper Sec. Manway	Bolting	VT	CS	1.25	
C-D	C1.4	MS /Steam Generator - RC-H-1B	Upper Sec. Manway	Bolting	UT	CS	1.25	2 studs examined.
C-F	C2.1	DH /10" Line DH-C1A to Reactor Vessel	DH-0034	Pipe to Valve Weld	UT	SS	10	
C-F	C2.1	DH /14" Line to BS-P1A	DH-0100	Pipe to Reduce. Weld	UT	SS	14	
C-F	C2.1	DH /14" B Line frca DH-T1	DH-0156	Valve to Pipe Weld	UT	SS	14	
C-F	C2.1	DH /14" Line to DH-P1B	DH-0181	Tee to Pipe Weld	UT	SS	14	
C-F	C2.1	DH /14" Line to DH-P1B	DH-0202	Elbow to Pipe Weld	UT	SS	14	
C-F	C2.1	DH /6" Crossconnect DH Coolers to RV	DH-0288	Pipe to Elbow Weld	UT	SS	6.0	
C-F	C2.1	DH /6" Crossconnect DH Coolers to RV	DH-0290	Pipe to Elbow Weld	UT	SS	6.0	
C-F	C2.1	DH /10" Line DH-P1B to DH-C1B	DH-0337	Pipe to Elbow Weld	UT	SS	10	
C-F	C2.1	DH /10" Line DH-C1B to Reactor Vessel	DH-0376	Reducer to Elbow Weld	UT	SS	10	
C-F	C2.1	DH /6" Crossconnect DH Coolers to RV	DH-0387	Pipe to Elbow Weld	UT	SS	6.0	
C-F	C2.1	MU /6" B Make-Up Header	MU-0960	Pipe to Elbow Weld	UT	SS	6.0	
C-F	C2.1	MU /6" B Make-Up Header	MU-0970	Elbow to Pipe Weld	UT	SS	6.0	
C-F	C2.1	MU /6" Lin Betw. MU-P1B & MU-P1C	MU-0982	Pipe to Valve Weld	UT	SS	6.0	
C-F	C2.1	MU /6" MU-P1A Suction Line	MU-1003	Elbow to Reducer Weld	UT	SS	6.0	

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

1. OWNER: Metropolitan Edison Company, 2800 Pottsville Pike, Reading, Pennsylvania
2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
C-G	C2.1	AH /48" Line - Penetration 423	AH-017S	Penetration to Flange Weld	MT	CS	48	See Table 2.
C-G	C2.1	EF /6" EF Line to RC-H-1B	EF-0024	Elbow to Pipe Weld	UT	CS	6.0	
C-G	C2.1	EF /6" EF Line to RC-H-1A	EF-0103	Venturi to Pipe Weld	UT	CS/SS	6.0	
C-G	C2.1	EF /6" EF Line to RC-H-1A	EF-0121	Elbow to Pipe Weld	UT	CS	6.0	
C-G	C2.1	EF /6" EF Line to RC-H-1B	EF-0151	Tee to Pipe Weld	UT	CS	6.0	
C-G	C2.1	EF /6" EF Line to RC-H-1B	EF-0167	Valve to Pipe Weld	UT	CS	6.0	
C-G	C2.1	MS /24" C Line	MS-0047	Nozzle to Elbow Weld	UT	CS	24	
C-G	C2.3	MS /24" B Line to EF-U-1 (8")	MS-0194B	Weld-o-let Branch Weld	MT	CS	8.0	
C-G	C2.3	MS /24" C Line to EF-U-1 (12")	MS-0233B	Weld-o-let Branch Weld	MT	CS	8.0	
C-D	C2.4	DH /12" Line to DH-P1B	12" Flange on 12" x 10" Red	Flange Bolting	VT	CS/SS	1.12	
C-D	C2.4	DH /12" Line to DH-P1B	12" Flange on 12" x 10" Red	Flange Bolting	UT	CS	1.12	2 studs examined.
C-D	C2.4	AH /48" Line - Penetration 423 Purge Supply	AH-V1C	Flange Bolting Connection	VT	CS	1.5	
C-D	C2.4	AH /48" Line - Penetration 423 Purge Supply	AH-V1C	Flange Bolting Connection	UT	CS	1.5	5 bolts examined.
C-D	C2.4	AH /48" Line - Penetration 423 Purge Supply	AH-V1D	Flange Bolting Connection	VT	CS	1.5	
C-D	C2.4	AH /48" Line - Penetration 423 Purge Supply	AH-V1D	Flange Bolting Connection	UT	CS	1.5	5 bolts examined.
C-D	C2.4	DH /16" Line to DH-P1B to DH-C1B	DH-C1B Inlet Flange	Flange Bolting	VT	CS/SS	1.25	
C-D	C2.4	DH /16" Line to DH-P1B to DH-C1B	DH-C1B Inlet Flange	Flange Bolting	UT	CS	1.25	2 studs examined.
C-D	C2.4	DH /16" Line to DH-C1B to Reactor Vessel	DH-C1B Outlet Flange	Flange Bolting	VT	CS/SS	1.25	
C-D	C2.4	DH /16" Line to DH-C1B to Reactor Vessel	DH-C1B Outlet Flange	Flange Bolting	UT	CS	1.25	2 studs examined.
C-D	C2.4	MS /A Relief Line	MS-V017A	Flange Bolting	VT	CS	1.37	

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

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2. PLANT: Three Mile Island Nuclear Generating Station, Route 441 South, Middletown, Pennsylvania
3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIS	REMARKS
C-D	C2.4	MS /B Relief Line	MS-V017B	Flange Bolting	VT	CS	1.37	
C-D	C2.4	MS /6" C Relief Line	MS-V017C	Flange Bolting	UT	CS	1.37	2 studs examined.
C-D	C2.4	MS /6" C Relief Line	MS-V017C	Flange Bolting	VT	CS	1.37	
C-D	C2.4	MS /6" D Relief Line	MS-V017D	Flange Bolting	UT	CS	1.37	2 studs examined.
C-D	C2.4	MS /6" D Relief Line	MS-V017D	Flange Bolting	VT	CS	1.37	
C-D	C2.4	MS /A Relief Line	MS-V018A	Flange Bolting	VT	CS	1.37	
C-D	C2.4	MS /B Relief Line	MS-V018B	Flange Bolting	VT	CS	1.37	
C-D	C2.4	MS /6" C Relief Line	MS-V018C	Flange Bolting	UT	CS	1.37	2 studs examined.
C-D	C2.4	MS /6" C Relief Line	MS-V018C	Flange Bolting	VT	CS	1.37	
C-D	C2.4	MS /6" D Relief Line	MS-V018D	Flange Bolting	UT	CS	1.37	2 studs examined.
C-D	C2.4	MS /6" D Relief Line	MS-V018D	Flange Bolting	VT	CS	1.37	
C-D	C2.4	MS /A Relief Line	MS-V019A	Flange Bolting	VT	CS	1.37	
C-D	C2.4	MS /B Relief Line	MS-V019B	Flange Bolting	VT	CS	1.37	
C-D	C2.4	MS /6" C Relief Line	MS-V019C	Flange Bolting	UT	CS	1.37	2 studs examined.
C-D	C2.4	MS /6" C Relief Line	MS-V019C	Flange Bolting	VT	CS	1.37	
C-D	C2.4	MS /6" D Relief Line	MS-V019D	Flange Bolting	UT	CS	1.37	2 studs examined.
C-D	C2.4	MS /6" D Relief Line	MS-V019D	Flange Bolting	VT	CS	1.37	
C-D	C2.4	MS /A Relief Line	MS-V020A	Flange Bolting	VT	CS	1.37	
C-D	C2.4	MS /B Relief Line	MS-V020B	Flange Bolting	VT	CS	1.37	
C-D	C2.4	MS /6" C Relief Line	MS-V020C	Flange Bolting	UT	CS	1.37	2 studs examined.

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

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3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
C-D	C2.4	MS /6" C Relief Line	MS-V020C	Flange Bolting	VT	CS	1.37	
C-D	C2.4	MS /6" D Relief Line	MS-V020D	Flange Bolting	UT	CS	1.37	2 studs examined.
C-D	C2.4	MS /6" D Relief Line	MS-V020D	Flange Bolting	VT	CS	1.37	See Table 2.
C-E-1	C2.5	AH /48" line - Penetration 423	AH-0019WA	Integral Attachment Weld	MT	CS	48	See Table 2.
C-E-1	C2.5	DH /14" A Line to DH-T1	DH-0018WA	Integral Attachment Weld	PT	SS	14	
C-E-1	C2.5	DH /14" B Line to DH-T1	DH-0019WA	Integral Attachment Weld	PT	SS	14	See Table 2.
C-E-1	C2.5	DH /10" Line DH-C1A to Reactor Vessel	DH-0104WA	Integral Attachment Weld	PT	SS	14	
C-E-1	C2.5	DH /14" B Line to DH-P1B	DH-0112WA	Integral Attachment Weld	PT	SS	14	
C-E-1	C2.5	DH /14" Line to DH-P1A	DH-0154WA	Integral Attachment Weld	PT	SS	12	
C-E-1	C2.5	DH /14" Line to DH-P1A	DH-0155WA	Integral Attachment Weld	PT	SS	12	
C-E-1	C2.5	DH /14" A Line to DH-P1A	DH-0163WA	Integral Attachment Weld	PT	SS	14	
C-E-1	C2.5	DH /14" A Line to DH-P1A	DH-0164WA	Integral Attachment Weld	PT	SS	14	
C-E-1	C2.5	DH /14" A Line to DH-P1A	DH-0165WA	Integral Attachment Weld	PT	SS	14	
C-E-1	C2.5	EF /6" EF Line to RC-H-1A	EF-0133WA	Integral Attachment Weld	MT	CS	6.0	
C-E-1	C2.5	EF /6" EF Line to RC-H-1A	EF-0134WA	Integral Attachment Weld	MT	CS	6.0	
C-E-1	C2.5	EF /6" EF Line to RC-H-1A	EF-0135WA	Integral Attachment Weld	MT	CS	6.0	
C-E-1	C2.5	EF /6" EF Line to RC-H-1A	EF-0136WA	Integral Attachment Weld	MT	CS	6.0	
C-E-1	C2.5	EF /6" EF Line to RC-H-1A	EF-0137WA	Integral Attachment Weld	MT	CS	6.0	
C-E-1	C2.5	EF /6" EF Line to RC-H-1A	EF-0138WA	Integral Attachment Weld	MT	CS	6.0	
C-E-1	C2.5	EF /6" EF Line to RC-H-1A	EF-0139WA	Integral Attachment Weld	MT	CS	6.0	

NIS-1 OWNERS DATA REPORT FOR INSERVICE INSPECTION

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3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE SR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
C-E-1	C2.5	EF /6" EF Line to RC-H-1A	EF-0140WA	Integral Attachment Weld	MT	CS	6.0	
C-E-1	C2.5	FW /14" RH RC-H-1A Header	FW-0174WA	Integral Attachment Weld	MT	CS	14	
C-E-1	C2.5	MU /6" B Make-Up Header	MU-0038WA	Integral Attachment Weld	PT	SS	6.0	
C-E-1	C2.5	MU /6" MU-P1A Suction Line	MU-0090WA	Integral Attachment Weld	PT	SS	6.0	
C-E-1	C2.5	MU /6" Line Betw. MU-P1A & MU-P1B	MU-0747WA	Integral Attachment Weld	PT	SS	6.0	
C-E-1	C2.5	MU /6" Line betw. MU-P1A & MU-P1B	MU-0785WA	Integral Attachment Weld	PT	SS	6.0	
C-E-1	C2.5	MU /6" Line Betw. MU-P1A & MU-P1B	MU-0786WA	Integral Attachment Weld	PT	SS	6.0	
C-E-2	C2.6	CF /Piping Support	CF-003	Variable	VT	NA	14	
C-E-2	C2.6	CF /Piping Support	CF-010	Variable	VT	NA	14	
C-F-2	C2.6	DH /Piping Support	DH-23	Snubber	VT	NA	10	
C-E-2	C2.6	DH /Piping Support	DH-24	Snubber	VT	NA	10	
C-E-2	C2.6	DH /Piping Support	DHH-116	Rigid	VT	NA	10	
C-E-2	C2.6	DH /Piping Support	DHH-120	Variable	VT	NA	10	
C-E-2	C2.6	DH /Piping Support	DHH-121	Variable	VT	NA	10	
C-E-2	C2.6	DH /Piping Support	DHH-132	Rigid	VT	NA	12	
C-E-2	C2.6	DH /Piping Support	DHH-174	Anchor	VT	NA	12	
C-E-2	C2.6	DH /Piping Support	DHH-213	Guide	VT	NA	12	
C-E-2	C2.6	EF /Piping Support	EF-115A	Rigid	VT	NA	6	
C-E-2	C2.6	EF /Piping Support	EF-118	Rigid	VT	NA	6	See Table 2.
C-E-2	C2.6	EF /Piping Support	EF-128	Rigid	VT	NA	6	See Table 2.

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5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
C-E-2	C2.6	EF /Piping Support	EF-129	Rigid	VT	NA	6	
C-E-2	C2.6	FW /Piping Support	FW-105	Constant	VT	NA	20	See Table 2.
C-E-2	C2.6	FW /Piping Support	FW-106	Constant	VT	NA	14	
C-E-2	C2.6	FW /Piping Support	FW-107	Constant	VT	NA	14	See Table 2.
C-E-2	C2.6	FW /Piping Support	FW-H1B-1	Rigid	VT	NA	14	
C-E-2	C2.6	FW /Piping Support	FW-H1B-2	Rigid	VT	NA	14	
C-E-2	C2.6	FW /Piping Support	FW-H1B-3	Rigid	VT	NA	14	
C-E-2	C2.6	FW /Piping Support	FW-H1B-4	Rigid	VT	NA	14	
C-E-2	C2.6	FW /Piping Support	FW-H1B-5	Rigid	VT	NA	14	
C-E-2	C2.6	FW /Piping Support	FW-H1B-6	Rigid	VT	NA	14	
C-E-2	C2.6	FW /Piping Support	FW-H1B-7	Rigid	VT	NA	14	
C-E-2	C2.6	FW /Piping Support	FW-H1B-8	Rigid	VT	NA	14	
C-E-2	C2.6	IC /Piping Support	ICH-66	Variable	VT	NA	6	
C-E-2	C2.6	IP /Piping Support	MPAH-3	Anchor	VT	NA	6	
C-E-2	C2.6	MS /Piping Support	MS-048	Rigid	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-051	Rigid	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-052	Rigid	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-056	Rigid	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-057	Rigid	VT	NA	24	See Table 2.
C-E-2	C2.6	MS /Piping Support	MS-065	Snubber	VT	NA	24	

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OUTAGE 8R  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
C-E-2	C2.6	MS /Piping Support	MS-067	Variable	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-189	Variable	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-190	Variable	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-191	Variable	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-192	Variable	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-196	Constant	VT	NA	24	See Table 2.
C-E-2	C2.6	MS /Piping Support	MS-197	Constant	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-198	Constant	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-203	Snubber	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-229	Snubber	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-232	Rigid	VT	NA	8	
C-E-2	C2.6	MS /Piping Support	MS-241	Rigid	VT	NA	8	See Table 2.
C-E-2	C2.6	MS /Piping Support	MS-242	Rigid	VT	NA	8	
C-E-2	C2.6	MS /Piping Support	MS-262	Variable	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-287	Snubber	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-292	Snubber	VT	NA	24	
C-E-2	C2.6	MS /Piping Support	MS-308	Rigid	VT	NA	24	See Table 2.
C-E-2	C2.6	MU /Piping Support	MUH-10	Anchor	VT	NA	6	
C-E-2	C2.6	MU /Piping Support	MUH-12	U-Bolt	VT	NA	6	
C-E-2	C2.6	MU /Piping Support	MUH-13	U-Bolt	VT	NA	6	

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6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE 8R  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
C-E-2	C2.6	MU /Piping Support	MUH-14	U-Bolt	VT	NA	6	
C-E-2	C2.6	MU /Piping Support	MUH-15	U-Bolt	VT	NA	6	
C-E-2	C2.6	MU /Piping Support	MUH-8	Anchor	VT	NA	6	
C-E-2	C2.6	MU /Piping Support	MUH-9	Anchor	VT	NA	6	
C-G	C4.1	AH /Valve AH-V1A	AH-0004	Body to Flange Weld	MT	CS	48	See Table 2.



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3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 1

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	MAT	DIA	REMARKS
***** PRE SERVICE EXAMINATIONS *****								
B-G-2	B1.11	RC /Reactor Vessel - RC-T1	CRDM Bolting	Flange Bolting	VT	CS/SS	1.0	
B-G-1	B3.5	RC /Steam Generator - RC-H-1A and RC-H-1B	Primary Manway	Studs	MT	CS	2.0	
B-G-1	B3.5	RC /Steam Generator - RC-H-1A and RC-H-1B	Primary Manway	Studs	I/7	CS	2.0	
B-G-1	B3.6	RC /Steam Generator - RC-H-1A and RC-H-1B	Primary Manway	Studs	VT	CS	2.0	
B-G-2	B3.10	RC /Steam Generator - RC-H-1A and RC-H-1B	Primary Handhole	Bolting	VT	CS	1.0	
B-G-1	B3.6	RC /Steam Generator - RC-H-1A and RC-H-1B	Primary Manway	Bolting	VT	CS	2.0	
B-G-1	B5.2	RC /Reactor Coolant Pump - RC-P1C	RC-P1C	Lower Seal Housing Bolts	VT	CS	2.0	3 bolts examined.
B-G-1	B5.2	RC /Reactor Coolant Pump - RC-P1C	RC-P1C	Lower Seal Housing Bolts	UT	CS	2.0	3 bolts examined.
B-G-1	B5.2	RC /Reactor Coolant Pump - RC-P1C	RC-P1C	Lower Seal Housing Bolts	MT	CS	2.0	3 bolts examined.
B-G-1	B5.2	RC /Reactor Coolant Pump - RC-P1D	RC-P1D	Lower Seal Housing Bolts	VT	CS	2.0	
B-G-1	B5.2	RC /Reactor Coolant Pump - RC-P1D	RC-P1D	Lower Seal Housing Bolts	MT	CS	2.0	
B-G-1	B5.2	RC /Reactor Coolant Pump - RC-P1D	RC-P1D	Lower Seal Housing Bolts	UT	CS	2.0	
C-G	C2.1	EF /6" EF Line TO RC-H-1A	EF-0172BM	Pipe to Venturi	UT	CS/SS	6.0	
C-G	C2.1	EF /6" EF Line TO RC-H-1A	EF-0173BM	Venturi to Pipe	UT	CS/SS	6.0	
C-G	C2.1	EF /6" EF Line TO RC-H-1B	EF-0174BM	Pipe to Venturi	UT	CS/SS	6.0	
C-G	C2.1	EF /6" EF Line TO RC-H-1B	EF-0175BM	Venturi to Pipe	UT	CS/SS	6.0	

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3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE 8R  
TABLE 2

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	UNACCEPTABLE INDICATION AND DISPOSITION
B-G-2	B1.11	RC /Reactor Vessel - RC-T1	CRDM Bolting	Flange Bolting	VT	Exam performed for monitoring of leakage only. Replaced gaskets on 14 drives; remaining connections were acceptable for continued service.
B-K-1	B4. 9	CF /14" B Line to Reactor Vessel	CF-0051WA	Integral Attachment Weld	PT	Linear indication accepted by analysis.
B-K-1	B4. 9	CF /14" B Line to Reactor Vessel	CF-0052WA	Integral Attachment Weld	PT	Linear indication considered unchanged from previous outage. Accepted by analysis.
B-K-2	B4.10	CF /Piping Support	CF-007	Snubber	VT	Loose anchor bolts, reset and retorqued.
B-K-2	B4.10	MU /Piping Support	MU-136-1	Variable	VT	Tightened lock nut.
B-K-2	B4.10	MU /Piping Support	MU-136-2	Variable	VT	Tightened lock nut.
B-K-2	B4.10	MU /Piping Support	MU-136-3	Variable	VT	Tightened lock nut.
B-K-2	B4.10	MU /Piping Support	MU-136-6	U-Bolt	VT	Loose base plate and anchor bolts. Anchor bolts reset and torqued.
B-K-2	B4.10	MU /Piping Support	MU-137-1	U-Bolt	VT	Loose base plate and anchor bolts. Anchor bolts reset and torqued.
B-K-2	B4.10	MU /Piping Support	MU-139-6	Variable	VT	Tightened loose lock nut.

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3. PLANT UNIT: 1
4. OWNER CERTIFICATION OF AUTHORIZATION (if required): None
5. COMMERCIAL SERVICE DATE: 09/02/74
6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel N-109

OUTAGE BR  
TABLE 2

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	UNACCEPTABLE INDICATION AND DISPOSITION
B-K-2	B4.10	MU /Piping Support	MU-139-7	Variable	VT	Tightened loose lock nut.
B-K-2	B4.10	MU /Piping Support	MU-140-4	Variable	VT	Anchors reset and torqued, corrected base plate gaps and tightened loose hanger bolts
B-K-2	B4.10	MU /Piping Support	MU-146-4	U-Bolt	VT	Loose anchor bolts. Anchors reset and retorqued.
B-K-2	B4.10	MU /Piping Support	MU-148-04	U-Bolt	VT	Tightened loose nuts.
B-K-2	B4.10	MU /Piping Support	MU-149-05	U-Bolt	VT	Tight fit u-bolt installed in loose fit design. Support adjusted to loose fit configuration.
B-K-2	B4.10	MU /Piping Support	MU-149-10	U-Bolt	VT	Loose anchor bolts. Anchors reset and retorqued.
B-K-2	B4.10	MU /Piping Support	MU-149-15	U-Bolt	VT	Anchors not properly installed. Anchors were reset.
B-K-2	B4.10	MU /Piping Support	MUH-222	Variable	VT	Tightened upper clamp bolts.
B-K-2	B4.10	MU /Piping Support	MUH-246	Variable	VT	Tightened clamp bolt.
B-K-2	B4.10	MU /Piping Support	MUH-249	Variable	VT	Tightened load bolt.
B-K-2	B4.10	RC /Piping Support	RC-12	Snubber	VT	Replaced missing washers.

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OUTAGE BR  
TABLE 2

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	UNACCEPTABLE INDICATION AND DISPOSITION
B-K-2	B4.10	RC /Piping Support	RC-34-2	U-Bolt	VT	Tight fit installation in loose fit design. Support adjusted to loose fit configuration.
B-K-2	B4.10	RC /Piping Support	RC-34-3	U-Bolt	VT	Bent U-Bolt evaluated as acceptable.
B-K-2	B4.10	RC /Piping Support	RC-35-2	U-Bolt	VT	Bent U-Bolt evaluated as acceptable
B-K-2	B4.10	RC /Piping Support	RC-35-3	U-Bolt	VT	Adjusted u-bolt to provide correct gap.
B-K-2	B5.5	RC /Pump Support	RC-P1D-11	Constant	VT	Tightened loose bolts.
C-G	C2.1	AH /48" Line - Penetration 423	AH-017S	Penetration to Flange Weld	MT	Indications removed with minor surface conditioning.
C-D	C2.4	MS /6" D Relief Line	MS-V020D	Flange Bolting	VT	Loose stud identified. Petorqued all studs on similar valves.
C-E-1	C2.5	AH /48" Line - Penetration 423	AH-0019WA	Integral Attachment Weld	MT	Indication removed with minor surface conditioning.
C-E-1	C2.5	DH /14" B Line to DH-T1	DH-0019WA	Integral Attachment Weld	PT	Indication removed with minor surface conditioning.
C-E-2	C2.6	EF /Piping Support	EF-118	Rigid	VT	Tightened loose clamp bolt.
C-E-2	C2.6	EF /Piping Support	EF-128	Rigid	VT	Adjusted cotter pin.

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OUTAGE 8R  
TABLE 2

ASME CAT	ASME ITEM NO	SYSTEM / COMPONENT	COMPONENT ID	DESCRIPTION	NDE METH	UNACCEPTABLE INDICATION AND DISPOSITION
C-E-2	C2.6	FW /Piping Support	FW-105	Constant	VT	Installed missing nut and tightened lock nut.
C-E-2	C2.6	FW /Piping Support	FW-107	Constant	VT	Adjusted cotter pin and tightened lock nut.
C-E-2	C2.6	MS /Piping Support	MS-057	Rigid	VT	Tightened rod.
C-E-2	C2.6	MS /Piping Support	MS-196	Constant	VT	Corrected thread engagement, adjusted lock nut and tightened loose nut.
C-E-2	C2.6	MS /Piping Support	MS-241	Rigid	VT	Retorqued bolting to correct plug depth.
C-E-2	C2.6	MS /Piping Support	MS-308	Rigid	VT	Tightened rod and turnbuckle.
C-G	C4.1	AH /Valve AH-V1A	AH-0004	Body to Flange Weld	MT	Indications removed with minor surface conditioning.