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# FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Duke Power Company, 422 S. Church Street, Charlotte, NC 28242  
(Name and Address of Owner)
2. Plant McGuire Nuclear Station Hwy. 73 Cowans Ford, NC 28216  
(Name and Address of Plant)
3. Plant Unit 1 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 12-1-81 6. National Board Number for Unit N/A
7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	CE	Duke Power	NC	620776
Pressurizer	Westinghouse	Duke Power	NC	68-123
Steam Gen. 1A	Westinghouse	Duke Power	NC	68-107
Steam Gen. 1B	Westinghouse	Duke Power	NC	68-108
Steam Gen. 1C	Westinghouse	Duke Power	NC	68-109
Steam Gen. 1D	Westinghouse	Duke Power	NC	68-110
Section 1 Paragraph 1.5 in the attached report.				

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 data 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-1 (back)

8. Examination Dates 09-07-86 to 11-11-87 9. Inspection Interval from 12-01-87 to 12-01-91
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See Attached Report
11. Abstract of Conditions Noted. See Attached Report
12. Abstract of Corrective Measures Recommended and Taken. See Attached Report

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 1/15 19 88 Signed Duke Power By [Signature]  
Owner

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

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of North Carolina and employed by \* of  have inspected the components described in this Owners' Data Report during the period 9-7-86 to 11-11-87 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 1-20 19 88  
[Signature] Commission NC 853 NB7728  
Inspector's Signature National Board, State, Province and No.

\*The Hartford Steam Boiler Inspection & Insurance Co.  
1117 Perimeter Center W.  
Suite E-301  
Atlanta, GA. 30338

INSERVICE INSPECTION REPORT  
UNIT 1 MCGUIRE 1987 REFUELING  
OUTAGE 4

Location: Hwy 73, COWANS FORD, NORTH CAROLINA

NATIONAL BOARD NO. 44

COMMERCIAL SERVICE DATE: DECEMBER 1, 1981

Owner: Duke Power Company  
422 S. Church St.  
Charlotte, N. C. 28242

Revision 0

Prepared By: A. J. Hogge, Jr.

Date 1-15-88

Reviewed By: [Signature]

Date 1-15-88

Approved By: [Signature]

Date 1-15-88

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## TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Revision</u>
1.	Summary of Inservice Inspection	0
2.	Status of Required Inspection	0
3.	Final Inservice Inspection Plan for Outage 4	0
4.	Results of Inspections Performed During Outage 4	0
5.	Class 1 Inspection Results	0
6.	Class 2 Inspection Results	0
7.	Augmented Inspection Results	0
8.	Personnel, Equipment, and Material Certification	0
9.	Problem Investigation Reports	0
10.	Reference Documents	0
11.	Classes 1 and 2 Repairs and Replacements	0

## 1.0 Summary of Inservice Inspection

This report describes the Inservice Inspection of Duke Power Company's McGuire Nuclear Station Unit 1 during the 1987 Refueling Outage (also referred to as Outage 4).

Included in this report are the final inservice inspection plan, the inspection results for each item, a summary for each category of examinations, certification data for all personnel, material and equipment and corrective action taken when unacceptable conditions were found. In addition, there is a section included for repairs and replacements required since September 7, 1986.

### 1.1 Class 1 Inspection

The Class 1 Inservice Inspection included examinations on the Reactor Vessel (CE), piping, pump and valve bolting and piping welds in Safety Injection (NI) and Chemical and Volume Control (NV) Systems. In addition, the Class 1 Inspection included examinations on CRDM Housing Welds.

Visual examinations were performed on the Class 1 Pressure Boundary during inservice leakage tests. Also, visual examinations were performed on Class 1 Component Supports of Reactor Coolant (NC), Safety Injection (NI) and Chemical and Volume Control (NV) Systems and Steam Generator A Support.

The Inconel 600 tubing in Steam Generators 1A, 1B, 1C and 1D was inspected by eddy current during Outage 4. The results of the inspections are shown in Section 5 of this report.

Reportable conditions were found on the Class 1 Inspections shown on the following pages. Inspection and evaluation data for each reportable condition found on Class 1 Items is included in Section 5 of this report.

A detailed description of each inspection is found in the final ISI Plan in Section 3 of this report. Results of each examination are found in Section 4. National Board numbers are found in Paragraph 1.5 of this report.

### 1.2 Class 2 Inspection

The Class 2 Inspections included examination on circumferential butt welds and longitudinal seam welds in Residual Heat Removal (ND) and Containment Air Release and Addition (VQ) Systems. Visual examinations were performed on the Class 2 Component Supports of Auxiliary Feedwater (CA), Refueling Water (FW), Residual Heat Removal (ND), Safety Injection (NI), Nuclear Service Water (RW), Containment Ventilation Cooling Water (RV), Main Steam Supply to Auxiliary Equipment (SA), Main Steam (SM) and Main Steam Vent to Atmosphere (SV) Systems.

A detailed description of each inspection is found in the final Inservice Inspection Plan in Section 3 of this report. Results of each examination are found in Section 4.

### 1.3 Augmented Inspection

Augmented Inspections of McGuire 1 consisted of Reactor Coolant Pump Fly-wheel examination, Pipe Rupture Protection and Steam Generator C Feed-water Modification.

Results of each augmented examination are found in Section 7 of this report.

### 1.4 Alternate Examination

No alternate examinations were performed during Outage 4.

### 1.5 National Board Numbers

<u>Item</u>	<u>Number</u>	<u>NC Inspection No.</u>
Reactor Vessel	62	NC-178379
Pressurizer	68-123	NC-178395
Steam Generator 1A	68-107	NC-178375
Steam Generator 1B	68-108	NC-178376
Steam Generator 1C	68-109	NC-178377
Steam Generator 1D	68-110	NC-178378
Auxiliary Steam System	4	
Containment Air Release and Addition System	12	
Main Steam System	17	
Main Steam Vent to Atmosphere System	18	
Reactor Coolant System	28	
Liquid Waste Recycle System	29	
Refueling Water System	31	
Auxiliary Feedwater System	32	
Residual Heat Removal System	35	
Nuclear Service Water System	36	
Chemical & Volume Control System	37	
Component Cooling System	38	
Main Feedwater System	39	
Containment Spray System	40	
Containment Ventilation Cooling Water System	41	
Safety Injection System	42	

PROGRAM: NIS-IPURB-QA15102  
FILE: C007133

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MASTER REFERENCE LISTING  
REPORT BREAKS ON UNIT AND START OF ITEM NUMBER

PAGE 1  
DATE 01/14/88

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\*\*\* REPORT SELECTION CRITERIA IS LISTED BELOW \*\*\*  
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1 2 3 4 5 6 7  
12345678901234567890123456789012345678901234567890

PLANT CARD: P=HCG 1

TITLE CARD: T MCQUIRE 1 CLASS 1 REPORTABLE ITEMS OUTAGE 4

INSPECTION CARD: I 4 REP

1 2 3 4 5 6 7  
12345678901234567890123456789012345678901234567890

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\*\*\* REPORT BREAK TOTALS ARE LISTED BELOW \*\*\*  
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ITEM NUMBERS STARTING WITH B16 FOR UNIT 1 4  
ITEM NUMBERS STARTING WITH E02 FOR UNIT 1 3  
ITEM NUMBERS STARTING WITH F1. FOR UNIT 1 1  
TOTAL RECORDS SELECTED FOR UNIT 1 8

TOTAL RECORDS SELECTED FOR RUN 8

PROGRAM: NISIRUB-QA15102  
FILE: C097153  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER B16

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 CLASS 1 REPORTABLE ITEMS OUTAGE 4

PAGE 1  
DATE 01/14/88

ITEM NUMBER	ID NUMBER	DRAWING NUMBER	LOC.	REQ. NUMBERS	INSP PROC.	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B16-021.001	15GA-TUBES	MCN-1201.01.187	---	ET	ISI-424	IN	00.75 00.043	---	CAL.BLOCK 50285,50379 PIR 1-H87-0216
B16-022.001	15GB-TUBES	MCN-1201.01.187	---	ET	ISI-424	IN	00.75 00.043	---	CAL.BLOCK 50285,50379 PIR 1-H87-0216
B16-023.001	15GC-TUBES	MCN-1201.01.187	---	ET	ISI-424	IN	00.75 00.043	---	CAL.BLOCK 50285,50379 PIR 1-H87-0216
B16-024.001	15GD-TUBES	MCN-1201.01.187	---	ET	ISI-424	IN	00.75 00.043	---	CAL.BLOCK 50285,50379 PIR 1-H87-0216

PROGRAM: NISIRB8-0AISI02  
FILE: C007135  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER E02

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 CLASS 1 REPORTABLE ITEMS OUTAGE 4

PAGE 2  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBER	LOCS.	INSP. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIA. / THICK	CALIB. BLOCK	COMMENTS
E02.001.001	15GA-TUBES	MCM-1201.01.187		ET 151-424	IN	00.75	50276	TO BE DONE EACH OUTAGE
						00.043		SEE E.C. RESULTS PIR 1M87-0216
E02.001.002	15GB-TUBES	MCM-1201.01.187		ET 151-424	IN	00.75	50276	TO BE DONE EACH OUTAGE
						00.043		SEE E.C. RESULTS PIR 1M87-0216
E02.001.004	15GD-TUBES	MCM-1201.01.187		ET 151-424	IN	00.75	50276	TO BE DONE EACH OUTAGE
						00.043		SEE E.C. RESULTS PIR 1M87-0216

PROGRAM: NISIRUB-QAISI02  
FILE: C007133  
PLANT: MCQUIRE UNIT 1  
KEY: ITEM NUMBER FL.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCQUIPPE 1 CLASS 1 REPORTABLE ITEMS OUTAGE 4

PAGE 3  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INCP. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB. BLOCK	COMMENTS
F1.01.045	1-MCR-MC-0579	MC580 ML-002		VT	QCL-14	02.00		
MECHANICAL NUMBER								
OUT. 6 PPS INF2420-B; 1-M87-0256								



## 2.0 Status of Required Inspections

The completion status of inspections required by the 1980 ASME Code Section XI, including addenda through Winter 1980, is summarized in this section. The requirements are listed by the ASME Section XI examination category as defined in Table IWB-2500-1 for Class 1 Inspections, or IWC-2500-1 for Class 2 Inspections, and augmented inspections are also included.

### Class 1 Inspections

<u>Section XI Category</u>	<u>Description</u>	<u>Inspections Required</u>	<u>Inspections Completed</u>	<u>Percentage Completed</u>	<u>Deferral Allowed</u>
B-A	Pressure Retaining Welds in Reactor Vessel	27 Welds	7.5 Welds	27.77%	Yes
B-B	Pressure Retaining Welds in Vessels Other than Reactor Vessels	8 Welds	5 Welds	62.50%	No
B-D	Full Penetration Welds of Nozzles in Vessels	36 Inspections	18 Inspections	50%	Partial
B-E	Pressure Retaining Partial Penetrations Welds in Vessels	55 Welds	55 Welds	67% Credited	No
B-F	Pressure Retaining Dissimilar Metal Welds	34 Welds	19 Welds	55.88%	No
B-G-1	Pressure Retaining Bolting Greater Than 2 Inch Diameter	370 Items	252 Items	67% Credited	Yes
B-G-2	Pressure Retaining Bolting 2 Inches and Less in Diameter	*81 Connections	48 Connections	59.26%	No

\* Total connections include CRDMs that are disassembled.

Class 1 Inspections (Continued)

<u>Section XI Category</u>	<u>Description</u>	<u>Inspections Required</u>	<u>Inspections Completed</u>	<u>Percentage Completed</u>	<u>Deferral Allowed</u>
B-H	Integral Attachments for Vessels	12 Attachments	7.3 Attachments	60.83%	No
B-J	Pressure Retaining Welds in Piping	287 Welds	176.66 Welds	61.55%	No
B-K-1	Integral Attachments for Piping, Pumps & Valves	None	N/A	N/A	N/A
B-L-1	Pressure Retaining Welds in Pumps Casings	None	N/A	N/A	N/A
B-L-2	Pump Casings	None	N/A	N/A	N/A
B-M-1	Pressure Retaining Welds in Valve Bodies	None	N/A	N/A	N/A
B-M-2	Valve Bodies >4 In. Nominal Pipe Size	8 Valves	4 Valves	50%	Yes
B-N-1	Interior of Reactor Vessel	3 Items	1 Item	33.33%	No
B-N-2	Integrally Welded Core Support Structures and Interior Attachments to Reactor Vessel	None	N/A	N/A	N/A
B-N-3	Removable Core Support Structures	1 Item	None	0%	Yes
B-O	Pressure Retaining Welds in Control Rod Housing	3 Welds	2 Welds	66.66%	Yes
B-P	All Pressure Retaining Components	204 Components	92 Components	45%	Yes
B-Q	Steam Generator Tubing	100% of Technical Specifications Met			N/A
F1.01	Class 1 Component Supports	604 Supports	392 Supports	64.90%	No

# Class 2 Inspections

Section XI Category	Description	Inspections Required	Inspections Completed	Percentage Completed	Deferral Allowed
C-A	Pressure Retaining Welds In Pressure Vessels	13 Welds	5 Welds	38.50%	No
C-B	Pressure Retaining Nozzle Welds in Vessels	10 Welds	4 Welds	40%	No
C-C	Integral Attachments for Vessels, Piping, Pumps and Valves	17 Items	6 Items	35.29%	No
C-D	Pressure Retaining Bolting Exceeding 2 inches In Diameter	2 Items	1 Item	50%	No
C-F	Pressure Retaining Welds in Piping	384 Welds	240 Welds	62%	No
C-G	Pressure Retaining Welds in Pumps and Valves	None	N/A	N/A	N/A
C-H	All Pressure Retaining Components	116 Components	12 Components	10.34%	*
F1.02	Class 2 Component Supports	513 Supports	334 Supports	65.11%	No

\*100% of required exams completed for first inspection period.

Augmented Inspections

<u>Description</u>	<u>Percentage Complete</u>
Reactor Coolant Pump Flywheels:	50%
Steam Generator Tube Exams on Preheater Section:	100% of requirements for Outages 1, 2, 3, & 4
Steam Generator Feedwater Modification:	100% of requirements for Outages 1, 2, 3, & 4
Pipe Rupture Protection:	100% of requirements for Outages 1, 2, 3, & 4

### 3.0 Final Inservice Inspection Plan for Outage 4

The final ISI Plan presented in this section lists all examinations credited for Outage 4 at McGuire Unit 1. This includes ASME Section XI Class 1, 2 and augmented inspections required by the plant technical specifications.

The information shown below is a field description for the reporting format included in this section of the report:

Item Number	=	ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2), IWD-2500-1 (Class 3) and Augmented Requirements
ID Number	=	Unique Identification Number
Drawing Number	=	Location and/or Detail Drawing
Locs.	=	Location
Insp. Req.	=	Examination Technique - Magnetic Particle, Dye Penetrant, etc.
Proc. Numbers	=	Examination Procedures
Material Type/Grade	=	General Description of Material
Diam./Thick	=	Diameter/Thickness
Calib. Block	=	Calibration Block
Comments	=	General and/or Detail Description

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\*\*\* REPORT SELECTION CRITERIA IS LISTED BELOW \*\*\*  
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PLANT CARD:  
P=HCG 1

TITLE CARD:  
T MCQUIRE 1 INGSERVICE INSPECTION LISTING OUTAGE 4

INSPECTION CARD:  
I 4

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\*\*\* REPORT BREAK TOTALS ARE LISTED BELOW \*\*\*  
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ITEM NUMBERS	STARTING WITH B01	FOR UNIT 1	9
ITEM NUMBERS	STARTING WITH B04	FOR UNIT 1	5
ITEM NUMBERS	STARTING WITH B05	FOR UNIT 1	8
ITEM NUMBERS	STARTING WITH B07	FOR UNIT 1	6
ITEM NUMBERS	STARTING WITH B08	FOR UNIT 1	5
ITEM NUMBERS	STARTING WITH B09	FOR UNIT 1	2
ITEM NUMBERS	STARTING WITH B14	FOR UNIT 1	23
ITEM NUMBERS	STARTING WITH B15	FOR UNIT 1	4
ITEM NUMBERS	STARTING WITH B16	FOR UNIT 1	30
ITEM NUMBERS	STARTING WITH C05	FOR UNIT 1	1
ITEM NUMBERS	STARTING WITH D02	FOR UNIT 1	5
ITEM NUMBERS	STARTING WITH E01	FOR UNIT 1	4
ITEM NUMBERS	STARTING WITH E02	FOR UNIT 1	6
ITEM NUMBERS	STARTING WITH E03	FOR UNIT 1	1
ITEM NUMBERS	STARTING WITH E04	FOR UNIT 1	165

TOTAL RECORDS SELECTED FOR UNIT 1 277

TOTAL RECORDS SELECTED FOR RUN 277

PROGRAM: NISIRUB-GA15102  
FILE: C007155  
PLANT: MCQUIRE UNIT 1  
KEY: ITEM NUMBER B01

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCQUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 1  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOC'S.	INSP. PROC.	MATERIAL TYPE/GRADE	THICK.	CALIB.	COMMENTS
B01.021.001	18PV 6-444B	MEM1201-01-223 MEM1201-01-146	---	UT	151-150	C5	07.300	50376 CLOSURE HEAD PC. 444-04 TO 446-03 OUTAGE 2 10 TO 120 DEG. }
B01.022.001	18PV 1-444A	MEM1201-01-223 MEM1201-01-146	---	UT	151-150	C5	07.300	50376 CLOSURE HEAD APPROX. 36 DEG.
B01.022.002	18PV 1-444B	MEM1201-01-223 MEM1201-01-146	---	UT	151-150	C5	07.300	50376 CLOSURE HEAD APPROX. 168 DEG.
B01.022.003	18PV 1-444C	MEM1201-01-223 MEM1201-01-146	---	UT	151-150	C5	07.300	50376 CLOSURE HEAD APPROX. 180 DEG.
B01.022.004	18PV 1-444D	MEM1201-01-223 MEM1201-01-146	---	UT	151-150	C5	07.300	50376 CLOSURE HEAD APPROX. 252 DEG.
B01.022.005	18PV 1-444E	MEM1201-01-223 MEM1201-01-146	---	UT	151-150	C5	07.300	50376 CLOSURE HEAD APPROX. 324 DEG.
B01.040.001	18PV 6-444A	MEM1201-01-177	---	UT	151-150	C5	07.300	50376 CLOSURE HEAD PC. 446-03 TO 446-02 OUT. 4 120-360 OUT. 1 6-120 DEG., OUT. 4 120-360
B01.040.002	18PV 6-444A	MEM1201-01-177	---	MT	NDE-25	C5	07.300	----- CLOSURE HEAD PC. 446-03 TO 446-02 OUT. 4 240-360 1 0-120 12 120-240 14 240-360

PROGRAM: NISIMURB-GA15102  
 FILE: C007155  
 PLANT: MCQUIRE UNIT 1  
 KEY: ITEM NUMBER B04

DUNE POWER COMPANY  
 QUALITY ASSURANCE DEPARTMENT  
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
 MCQUIRE 1 IN-SERVICE INSPECTION LISTING OUTAGE 4

PAGE 2  
 DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBER	LOC. NO.	REQ. NUMBER	INSPECTION PROC.	MATERIAL TYPE/GRADE	DIAM. / THICK. BLOCK	COMMENTS
B04.012.001	1RPV-CRDM	MCMI201.01-242		VT2	QC1-15	IN	04.00 00.642	78 WELDS CRDM TUBE TO RPV UPPER HEAD INSPECT 5 MINIMUM
B04.013.001	1RPV-HEATER	MCMI201.01-145		VT2	QC1-15	IN	01.50 00.450	55 WELDS HEATER INCIDENT TUBES TO RPV LOWER HEAD INSPECT 5 MINIMUM
B04.020.001	1PZR-HEATER	MCMI201.01-448		VT2	QC1-15	SS	01.75	78 HEATER PENETRATIONS IN LOWER HEAD INSPECT 5 MINIMUM



PROGRAM: MIS1000-0A1502  
 FILE: C007155  
 PLAN: MACHINE UNIT 3  
 KEY: ITEM NUMBER B05

DUNE POWER COMPANY  
 QUALITY ASSURANCE DEPARTMENT  
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
 MACHINE 3 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 3  
 DATE 01/14/08

ITEM NUMBER	ID. NUMBER	DRAWING NUMBER	LOC.	INSP. REQ. MARKERS	MATERIAL TYPE/GRADE	DIAM. / THICK. BLOCK	COMMENTS
B05.010.017	1RPV-1-442A-5E	MEM1201.01-113 MEM1201.01-247	UT	151-120	C5/IN	06.25 50374 00.625	RPV HEAD TO UNIT TUBE 0 DEG PC. 459-01 TO 446-04
B05.010.018	1RPV-1-442A-5E	MEM1201.01-113 MEM1201.01-247	PT	NDE-35	C5/IN	06.25 00.625	RPV HEAD TO UNIT TUBE 0 DEG PC. 459-01 TO 446-04
B05.010.019	1RPV-1-442B-5E	MEM1201.01-113 MEM1201.01-247	UT	151-120	C5/IN	06.25 50374 00.625	RPV HEAD TO UNIT TUBE 90 DEG PC. 459-01 TO 446-04
B05.010.020	1RPV-1-442B-5E	MEM1201.01-113 MEM1201.01-247	PT	NDE-35	C5/IN	06.25 00.625	RPV HEAD TO UNIT TUBE 90 DEG PC. 459-01 TO 446-04
B05.010.021	1RPV-1-442C-5E	MEM1201.01-113 MEM1201.01-247	UT	151-120	C5/IN	06.25 50374 00.625	RPV HEAD TO UNIT TUBE 180 DEG PC. 459-01 TO 446-04
B05.010.022	1RPV-1-442C-5E	MEM1201.01-113 MEM1201.01-247	PT	NDE-35	C5/IN	06.25 00.625	RPV HEAD TO UNIT TUBE 180 DEG PC. 459-01 TO 446-04
B05.010.023	1RPV-1-442D-5E	MEM1201.01-113 MEM1201.01-247	UT	151-120	C5/IN	06.25 50374 00.625	RPV HEAD TO UNIT TUBE 270 DEG PC. 459-01 TO 446-04
B05.010.024	1RPV-1-442D-5E	MEM1201.01-113 MEM1201.01-247	PT	NDE-35	C5/IN	06.25 00.625	RPV HEAD TO UNIT TUBE 270 DEG PC. 459-01 TO 446-04

PROGRAM: NISIRUNB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER B07

Duke POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 4  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B07.050.002	INCFE-6250	MCFI-INC-3 MC-1553-3.0	_____	VT1	QCL-13	SS	_____ _____ _____	_____	FLANGE BOLTING
B07.050.009	INCFE-5340	MCFI-INC-23 MC-1553-3.0	_____	VT1	QCL-13	SS	_____ _____ _____	_____	FLANGE BOLTING
B07.060.007	IRCP-1C-H	MCM 1201.01-120	_____	VT1	QCL-13	_____	01.00 03.250	_____	SEAL GLAND HOUSING BOLTS PC. 66
B07.070.077	IND-2AC	MCM 1205.00-0010-001 MC-1561-1.0	_____	VT1	QCL-13	SS	_____ _____ _____	_____	14" VALVE
B07.070.201	INV-18	MCM 1205.00-0004-001 MC-1554-1.2	_____	VT1	QCL-13	SS	_____ _____ _____	_____	3" VALVE
B07.070.205	INV-1A	MCM 1205.00-0363-001 MC-1554-1.2	_____	VT1	QCL-13	SS	_____ _____ _____	_____	3" VALVE

PROGRAM: NISIRUND-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER B08

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 5  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAH./ THICK	CALIB BLOCK	COMMENTS
B08.010.001	1RPV-HD-LUG-1	MCM 1201.01-244 MCM 1201.01-206	_____	MT	NDE-25	CS	04.000	-----	REACTOR CLOSURE LIFTING LUG 0 DEGREES
B08.010.002	1RPV-HD-LUG-2	MCM 1201.01-244 MCM 1201.01-206	_____	MT	NDE-25	CS	04.000	-----	REACTOR CLOSURE LIFTING LUG 120 DEGREES
B08.010.003	1RPV-HD-LUG-3	MCM 1201.01-244 MCM 1201.01-206	_____	MT	NDE-25	CS	04.000	-----	REACTOR CLOSURE LIFTING LUG 240 DEGREES

PROGRAM: NISIRUB-QAISI02  
 FILE: C007133  
 PLANT: MCQUIRE UNIT 1  
 KEY: ITEM NUMBER B09

DUKE POWER COMPANY  
 QUALITY ASSURANCE DEPARTMENT  
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
 MCQUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 6  
 DATE 01/14/83

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB BLOCK	COMMENTS
B09.021.153	INV1F-1540	MCFI-INV-47 MC-1554-1.2		PT NDE-35	SS	03.00 00.438		SELECTION CRITERIA 4.2.3
B09.040.114	IM11F-264	MCFI-IMI-103 MC-1562-3.1		PT NDE-35	SS	02.00 00.344		

PROGRAM: NISIR08-QAISI02  
FILE: C007135  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER B14

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 7  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBER	LOCS.	INSP REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B14-010.016	IRPV-CRDM70	MCM1201.01-45		PT NDE-35	IN/SS	04.00 00.642	----	
B14-010.017	IRPV-CRDM71	MCM1201.01-45		PT NDE-35	IN/SS	04.00 00.642	----	

PROGRAM: NISIRUB-QAISI02  
 FILE: C007153  
 PLANT: MCQUIRE UNIT 1  
 KEY: ITEM NUMBER B15

DUKE POWER COMPANY  
 QUALITY ASSURANCE DEPARTMENT  
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
 MCQUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 8  
 DATE 01/14/88

ITEM NUMBER ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ CALIB THICK BLOCK	COMMENTS
B15.010.001 IRPV	MC-1553-1.0		VT2 QCL-15			REACTOR VESSEL SYSTEM LEAKAGE TEST
B15.020.001 1-PZR	MC-1553-2.0		VT2 QCL-15			PRESSURIZER SYSTEM LEAKAGE TEST
B15.030.001 1SG-1A	MC-1553-1.0		VT2 QCL-15			STEAM GENERATOR 1A SYSTEM LEAKAGE TEST
B15.030.002 1SG-1B	MC-1553-1.0		VT2 QCL-15			STEAM GENERATOR 1B SYSTEM LEAKAGE TEST
B15.030.003 1SG-1C	MC-1553-1.0		VT2 QCL-15			STEAM GENERATOR 1C SYSTEM LEAKAGE TEST
B15.030.004 1SG-1D	MC-1553-1.0		VT2 QCL-15			STEAM GENERATOR 1D SYSTEM LEAKAGE TEST
B15.050.001 1-MC-1553-1.0	MC-1553-1.0		VT2 QCL-15			MC SYS. SYS. LEAK. TEST INCL. MC-1499-NC1,NC2,NC7,NC20.01
B15.050.002 1-MC-1553-2.0	MC-1553-2.0		VT2 QCL-15			MC SYS. SYS. LEAK. TEST INCL. MC-1499-NC4,NC5

PROGRAM: NISIRUNB-QAISI02  
 FILE: C007133  
 PLANT: MCGUIRE UNIT 1  
 KEY: ITEM NUMBER B15

DUKE POWER COMPANY  
 QUALITY ASSURANCE DEPARTMENT  
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
 MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 5

PAGE 9  
 DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM. THICK	CALIB. BLOCK	COMMENTS
B15.050.003	1-MC-1553-3.0	MC-1553-3.0	VT2	QCL-15					NC SYS. SYS. LEAK. TEST INCL. MC-1499-NC12
B15.050.004	1-MC-1554-1.0	MC-1554-1.0	VT2	QCL-15					NV SYS. SYS. LEAK. TEST INCL. MC-1499-NV1,NV4
B15.050.005	1-MC-1554-1.1	MC-1554-1.1	VT2	QCL-15					NV SYS. SYS. LEAK. TEST INCL. MC-1499-NV1,NV4
B15.050.006	1-MC-1554-1.2	MC-1554-1.2	VT2	QCL-15					NV SYSTEM SYSTEM LEAKAGE TEST
B15.050.007	1-MC-1561-1.0	MC-1561-1.0	VT2	QCL-15					ND SYSTEM SYSTEM LEAKAGE TEST
B15.050.008	1-MC-1562-1.0	MC-1562-1.0	VT2	QCL-15					NI SYSTEM SYSTEM LEAKAGE TEST
B15.050.009	1-MC-1562-2.0	MC-1562-2.0	VT2	QCL-15					NI SYSTEM SYSTEM LEAKAGE TEST
B15.050.010	1-MC-1562-2.1	MC-1562-2.1	VT2	QCL-15					NI SYSTEM SYSTEM LEAKAGE TEST

PROGRAM: NISIRUNB-QAISI02  
 FILE: CCD7133  
 PLANT: MCGUIRE UNIT 1  
 KEY: ITEM NUMBER B15

DUKE POWER COMPANY  
 QUALITY ASSURANCE DEPARTMENT  
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
 MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 10  
 DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. TYPE/GRADE	MATERIAL	DIAM./THICK	CALIB. BLOCK	COMMENTS
B15.050.011	1-MC-1562-3.0	MC-1562-3.0		VT2	QCL-15				NI SYSTEM SYSTEM LEAKAGE TEST
B15.050.012	1-MC-1562-3.1	MC-1562-3.1		VT2	QCL-15				NI SYSTEM SYSTEM LEAKAGE TEST
B15.050.014	1-MC-1553-2.1	MC-1553-2.1		VT2	QCL-15				NC SYSTEM SYSTEM LEAKAGE TEST
B15.060.001	1-RPC-1A	MC-1553-1.0		VT2	QCL-15				REACTOR COOLANT PUMP 1A SYSTEM LEAKAGE TEST
B15.060.002	1-RPC-1B	MC-1553-1.0		VT2	QCL-15				REACTOR COOLANT PUMP 1B SYSTEM LEAKAGE TEST
B15.060.003	1-RPC-1C	MC-1553-1.0		VT2	QCL-15				REACTOR COOLANT PUMP 1C SYSTEM LEAKAGE TEST
B15.060.004	1-RPC-1D	MC-1553-1.0		VT2	QCL-15				REACTOR COOLANT PUMP 1D SYSTEM LEAKAGE TEST



PROGRAM: NISIRUNB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER B16

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 11  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
B16.021.001	1SGA-TUBES	MCM-1201.01.187	_____	ET	ISI-424	IN	00.75 00.043	_____	CAL.BLOCK 50285,50379 PIR 1-H87-0216
B16.022.001	1SGB-TUBES	MCM-1201.01.187	_____	ET	ISI-424	IN	00.75 00.043	_____	CAL.BLOCK 50285,50379 PIR 1-H87-0216
B16.023.001	1SGC-TUBES	MCM-1201.01.187	_____	ET	ISI-424	IN	00.75 00.043	_____	CAL.BLOCK 50285,50379 PIR 1-H87-0216
B16.024.001	1SGD-TUBES	MCM-1201.01.187	_____	ET	ISI-424	IN	00.75 00.043	_____	CAL.BLOCK 50285,50379 PIR 1-H87-0216

PROGRAM: NISIRUB-QAISI02  
FILE: C007155  
PLANT: MCQUIRE UNIT 1  
KEY: ITEM NUMBER C05

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCQUIRE 1 IN-SERVICE INSPECTION LISTING OUTAGE 4

PAGE 12  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCUS	INSP REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.215	IND1F-21A	MCFI-IND-24 MC-1561.1-0		PT NDE-35	SS	18.00 00.375	-----	
C05.011.216	IND-12A-1	MCFI-IND-24 MC-1561.1-0		PT NDE-35	SS	18.00 00.375	-----	
C05.011.217	IND-23-1	MCFI-IND-25 MC-1561.1-0		PT NDE-35	SS	08.00 00.250	-----	
C05.011.218	IND1F-36	MCFI-IND-25 MC-1561.1-0		PT NDE-35	SS	08.00 00.250	-----	
C05.011.219	IND-46-1	MCFI-IND-27 MC-1561.1-0		PT NDE-35	SS	08.00 00.250	-----	
C05.011.220	IND-48-1	MCFI-IND-27 MC-1561.1-0		PT NDE-35	SS	08.00 00.250	-----	
C05.011.237	IND1F-189	MCFI-IND-31 MC-1561.1-0		PT NDE-35	SS	08.00 00.250	-----	
C05.011.238	IND-161-3	MCFI-IND-31 MC-1561.1-0		PT NDE-35	SS	08.00 00.250	-----	

PROGRAM: NISIR/ND-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER C05

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 13  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
C05.011.239	IND1F-170	MCFI-IND-31 MC-1561.1-0	_____ _____ _____	PT	NDE-98	SS	08.00 00.250	----- _____ _____ _____	_____ _____ _____ _____
C05.011.240	IND-133-1	MCFI-IND-31 MC-1561.1-0	_____ _____ _____	PT	NDE-35	SS	12.00 00.375	----- _____ _____ _____	_____ _____ _____ _____
C05.011.241	IND1F-154	MCFI-IND-31 MC-1561.1-0	_____ _____ _____	PT	NDE-35	SS	12.00 00.375	----- _____ _____ _____	_____ _____ _____ _____
C05.011.242	IND-76B-1	MCFI-IND-31 MC-1561.1-0	_____ _____ _____	PT	NDE-35	SS	12.00 00.375	----- _____ _____ _____	_____ _____ _____ _____
C05.011.243	IND-76A-2	MCFI-IND-31 MC-1561.1-0	_____ _____ _____	PT	NDE-35	SS	12.00 00.375	----- _____ _____ _____	_____ _____ _____ _____
C05.011.244	IND1F-155	MCFI-IND-31 MC-1561.1-0	_____ _____ _____	PT	NDE-35	SS	12.00 00.375	----- _____ _____ _____	_____ _____ _____ _____
C05.011.245	IND1F-89	MCFI-IND-31 MC-1561.1-0	_____ _____ _____	PT	NDE-35	SS	12.00 00.375	----- _____ _____ _____	_____ _____ _____ _____
C05.011.246	IND-72-2	MCFI-IND-31 MC-1561.1-0	_____ _____ _____	PT	NDE-35	SS	12.00 00.375	----- _____ _____ _____	_____ _____ _____ _____

PROGRAM: NISIRUNB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER C05

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 14  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.247	IND72-1	MCFI-IND-31 MC-1561.1-0	_____	PT	NDE-35	SS	12.00 00.375	-----	_____
C05.011.248	IND1F-84A	MCFI-IND-31 MC-1561.1-0	_____	PT	NDE-35	SS	12.00 00.375	-----	_____
C05.011.249	IND1F-84	MCFI-IND-31 MC-1561.1-0	_____	PT	NDE-35	SS	12.00 00.375	-----	_____
C05.011.250	IND-69-1	MCFI-IND-31 MC-1561.1-0	_____	PT	NDE-35	SS	12.00 00.375	-----	_____
C05.011.251	IND-69A-1	MCFI-IND-31 MC-1561.1-0	_____	PT	NDE-35	SS	12.00 00.375	-----	_____
C05.011.252	IND-69A-3	MCFI-IND-31 MC-1561.1-0	_____	PT	NDE-35	SS	12.00 00.375	-----	_____
C05.011.253	IND-69A-4	MCFI-IND-31 MC-1561.1-0	_____	PT	NDE-35	SS	12.00 00.375	-----	_____
C05.011.805	1VQ1F-6	MCFI-1VQ-1 MC-1585-1.0	_____	PT	NDE-35	SS	06.00 00.134	-----	_____

PROGRAM: NISIRUNB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KE: ITEM NUMBER C05

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 15  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.011.806	1VQ1F-12	MCFI-1VQ-1 MC-1585-1.0	____ ____ ____	PT	NDE-35	SS	06.00 00.134	-----	_____ _____ _____
C05.011.814	1VQ1F-53	MCFI-1VQ-1 MC-1585-1.0	____ ____ ____	PT	NDE-35	SS	06.00 00.134	-----	_____ _____ _____
C05.011.817	1VQ1F-62	MCFI-1VQ-1 MC-1585-1.0	____ ____ ____	PT	NDE-35	SS	06.00 00.134	-----	_____ _____ _____
C05.011.818	1VQ1F-63	MCFI-1VQ-1 MC-1585-1.0	____ ____ ____	PT	NDE-35	SS	06.00 00.134	-----	_____ _____ _____
C05.012.210	1ND1F-21AL	MCFI-1ND-24 MC-1561.1-0	____ ____ ____	PT	NDE-35	SS	18.00 00.375	-----	_____ _____ _____
C05.012.211	1ND-12A-1L	MCFI-1ND-24 MC-1561.1-0	____ ____ ____	PT	NDE-35	SS	18.00 00.375	-----	_____ _____ _____
C05.012.212	1ND-23-1L	MCFI-1ND-25 MC-1561.1-0	____ ____ ____	PT	NDE-35	SS	08.00 00.250	-----	_____ _____ _____
C05.012.213	1ND1F-36L	MCFI-1ND-25 MC-1561.1-0	____ ____ ____	PT	NDE-35	SS	08.00 00.250	-----	_____ _____ _____

PROGRAM: NISIRUNB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER C05

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 16  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
C05.012.214	IND-46-1L	MCFI-IND-27 MC-1561.1-0	____ ____ ____	PT	NDE-35	SS	08.00 00.250	-----	_____ _____ _____
C05.012.221	IND1F-170L	MCFI-IND-31 MC-1561.1-0	____ ____ ____	PT	NDE-98	SS	08.00 00.250	-----	_____ _____ _____
C05.012.222	IND1F-154L	MCFI-IND-31 MC-1561.1-0	____ ____ ____	PT	NDE-35	SS	12.00 00.375	-----	_____ _____ _____
C05.012.223	IND1F-84AL	MCFI-IND-31 MC-1561.1-0	____ ____ ____	PT	NDE-35	SS	12.00 00.375	-----	_____ _____ _____
C05.012.224	IND1F-84L	MCFI-IND-31 MC-1561.1-0	____ ____ ____	PT	NDE-35	SS	12.00 00.375	-----	_____ _____ _____
C05.012.806	1VQ1F-53L	MCFI-1VQ-1 MC-1585-1.0	____ ____ ____	PT	NDE-35	SS	06.00 00.134	-----	_____ _____ _____

PROGRAM: NISIRUNB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER D02

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 17  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ. NUMBERS	PROC. TYPE/GRADE	MATERIAL THICK	DIAM./ CALIB	COMMENTS
002.020.001	1-MCA-CA-276	MCSR0 CAA	VT	QCL-14	CS	04.00	-----	RIGID SUPPORT

PROGRAM: NISIRUM-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER E01

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 18  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E01.001.001	1RCP-1A	MCM 1201.01-7	___	UT	ISI-117	___	___	___	_____
		_____	___			_____	___	___	_____
		_____	___			_____	___	___	_____
E01.001.002	1RCP-1B	MCM 1201.01-7	___	UT	ISI-117	___	___	___	_____
		_____	___			_____	___	___	_____
		_____	___			_____	___	___	_____
E01.001.003	1RCP-1C	MCM 1201.01-7	___	UT	ISI-117	___	___	___	_____
		_____	___			_____	___	___	_____
		_____	___			_____	___	___	_____



PROGRAM: NISIRUB-0A1S102  
FILE: C007133  
PLANT: MCQUIRE UNIT 1  
KEY: ITEM NUMBER E02

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCQUIRE 1 IN-SERVICE INSPECTION LISTING OUTAGE 4

PAGE 19  
DATE 01/14/83

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
E02.001.001	15GA-TUBES	MCM-1201.01.187		ET ISI-424	IN	00.75	50276	TO BE DONE EACH OUTAGE
						00.043		SEE E.C. RESULTS PIR 1H87-0216
E02.001.002	15GB-TUBES	MCM-1201.01.187		ET ISI-424	IN	00.75	50276	TO BE DONE EACH OUTAGE
						00.043		SEE E.C. RESULTS PIR 1H87-0216
E02.001.003	15GC-TUBES	MCM-1201.01.187		ET ISI-424	IN	00.75	50276	TO BE DONE EACH OUTAGE
						00.043		SEE E.C. RESULTS PIR 1H87-0216
E02.001.004	15GD-TUBES	MCM-1201.01.187		ET ISI-424	IN	00.75	50276	TO BE DONE EACH OUTAGE
						00.043		SEE E.C. RESULTS PIR 1H87-0216



PROGRAM: NISIRUNB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER E04

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 21  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB. BLOCK	COMMENTS
E04.001.011	1SGC			VT	ISI-350			STEAM GENERATOR C FEEDWATER MODIFICATION

PROGRAM: NISIRUNB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 22  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
F1.01.044	1-MCR-NC-0578	MCSRDL HL-002		VT	QCL-14		02.00		SPRING HANGER OUT.4 INSP.,OUT.4 PER.IWF2430A
F1.01.045	1-MCR-NC-0579	MCSRDL HL-002		VT	QCL-14		02.00		MECHANICAL SNUBBER OUT.6 PER IWF2420-B:1-M87-0256
F1.01.046	1-MCR-NC-0585	MCSRDL NC-005		VT	QCL-14		03.00		SPRING HANGER
F1.01.047	1-MCR-NC-0586	MCSRDL NC-005		VT	QCL-14		03.00		HYDRAULIC SNUBBER
F1.01.048	1-MCR-NC-0587	MCSRDL NC-005		VT	QCL-14		03.00		MECHANICAL SNUBBER
F1.01.049	1-MCR-NC-0588	MCSRDL NC-005		VT	QCL-14		03.00		HYDRAULIC SNUBBER
F1.01.050	1-MCR-NC-0589	MCSRDL NC-005		VT	QCL-14		03.00		HYDRAULIC SNUBBER
F1.01.051	1-MCR-NC-0590	MCSRDL NC-005		VT	QCL-14		03.00		HYDRAULIC SNUBBER

PROGRAM: NISIRUNB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 23  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB. BLOCK	COMMENTS
F1.01.057	1-MCR-NC-0600	MCSRDC NC-005		VT	QCL-14		02.00		RIGID SUPPORT
F1.01.058	1-MCR-NC-0603	MCSRDC NC-005		VT	QCL-14		03.00		HYDRAULIC SNUBBER
F1.01.062	1-MCR-NC-0608	MCSRDC NC-005		VT	QCL-14		02.00		SPRING HANGER
F1.01.071	1-MCR-NC-0622	MCSRDC NC-008		VT	QCL-14		03.00		HYDRAULIC SNUBBER
F1.01.083	1-MCR-NC-0652	MCSRDC NC-002		VT	QCL-14		03.00		CONSTANT SUPPORT
F1.01.153	1-MCR-NC-0886	MCSRDC WL-002		VT	QCL-14		02.00		MECHANICAL SNUBBER
									OUT. 4 PER. INF2430(A)
F1.01.155	1-MCR-NC-0888	MCSRDC WL-002		VT	QCL-14		02.00		MECHANICAL SNUBBER
									OUT. 4 PER. INF2430(A)
F1.01.311	1-MCR-NI-0509	MCSRDC NI-001		VT	QCL-14		02.00		RIGID SUPPORT

PROGRAM: NISIRUNB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 24  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
F1.01.314	1-MCR-NI-0512	MCSRD NI-001	_____	VT	QCL-14	_____	06.00	_____	RIGID SUPPORT
F1.01.324	1-MCR-NI-0525	MCSRD NI-001	_____	VT	QCL-14	_____	06.00	_____	RIGID SUPPORT
F1.01.326	1-MCR-NI-0527	MCSRD NI-001	_____	VT	QCL-14	_____	06.00	_____	RIGID SUPPORT
F1.01.329	1-MCR-NI-0530	MCSRD NI-001	_____	VT	QCL-14	_____	06.00	_____	RIGID SUPPORT
F1.01.335	1-MCR-NI-0537	MCSRD NI-001	_____	VT	QCL-14	_____	10.00	_____	MECHANICAL SNUBBER
F1.01.336	1-MCR-NI-0538	MCSRD NI-001	_____	VT	QCL-14	_____	06.00	_____	MECHANICAL SNUBBER
F1.01.338	1-MCR-NI-0547	MCSRD NI-003	_____	VT	QCL-14	_____	06.00	_____	RIGID SUPPORT
F1.01.339	1-MCR-NI-0548	MCSRD NI-003	_____	VT	QCL-14	_____	10.00	_____	HYDRAULIC SNUBBER

PROGRAM: NISIRUMB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 25  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / THICK	CALIB BLOCK	COMMENTS
F1.01.340	1-MCR-NI-0549	MCSR0 NI-003	___	VT	QCL-14	___	10.00	___	HYDRAULIC SNUBBER
F1.01.341	1-MCR-NI-0565	MCSR0 NI-003	___	VT	QCL-14	___	06.00	___	RIGID SUPPORT
F1.01.342	1-MCR-NI-0567	MCSR0 NI-003	___	VT	QCL-14	___	10.00	___	RIGID SUPPORT
F1.01.343	1-MCR-NI-0569	MCSR0 NI-003	___	VT	QCL-14	___	10.00	___	HYDRAULIC SNUBBER
F1.01.344	1-MCR-NI-0570	MCSR0 NI-003	___	VT	QCL-14	___	10.00	___	HYDRAULIC SNUBBER
F1.01.345	1-MCR-NI-0571	MCSR0 NI-003	___	VT	QCL-14	___	10.00	___	RIGID SUPPORT
F1.01.346	1-MCR-NI-0577	MCSR0 NI-003	___	VT	QCL-14	___	10.00	___	RIGID SUPPORT
F1.01.347	1-MCR-NI-0579	MCSR0 NI-003	___	VT	QCL-14	___	06.00	___	RIGID SUPPORT

PROGRAM: NISIRUMB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 26  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK.	CALIB. BLOCK	COMMENTS
F1.01.348	1-MCR-NI-0580	MCSR0 NI-003		VT	QCL-14		06.00		HYDRAULIC SNUBBER
F1.01.349	1-MCR-NI-0581	MCSR0 NI-003		VT	QCL-14		06.00		RIGID SUPPORT
F1.01.350	1-MCR-NI-0582	MCSR0 NI-003		VT	QCL-14		06.00		RIGID SUPPORT
F1.01.351	1-MCR-NI-0583	MCSR0 NI-003		VT	QCL-14		10.00		SPRING HANGER
F1.01.352	1-MCR-NI-0585	MCSR0 NI-003		VT	QCL-14		06.00		MECHANICAL SNUBBER
F1.01.353	1-MCR-NI-0586	MCSR0 NI-003		VT	QCL-14		10.00		MECHANICAL SNUBBER
F1.01.354	1-MCR-NI-0587	MCSR0 NI-003		VT	QCL-14		10.00		HYDRAULIC SNUBBER
F1.01.355	1-MCR-NI-0588	MCSR0 NI-003		VT	QCL-14		06.00		HYDRAULIC SNUBBER



PROGRAM: NISIRUM8-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 27  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.01.356	1-MCR-NI-0589	MCSR0 NI-003	_____	VT	QCL-14	_____	10.00	_____	HYDRAULIC SNUBBER
F1.01.370	1-MCR-NI-0615	MCSR0 NI-001	_____	VT	QCL-14	_____	10.00	_____	HYDRAULIC SNUBBER
F1.01.371	1-MCR-NI-0616	MCSR0 NI-001	_____	VT	QCL-14	_____	10.00	_____	SPRING HANGER
F1.01.372	1-MCR-NI-0617	MCSR0 NI-001	_____	VT	QCL-14	_____	10.00	_____	HYDRAULIC SNUBBER
F1.01.373	1-MCR-NI-0618	MCSR0 NI-001	_____	VT	QCL-14	_____	10.00	_____	RIGID SUPPORT
F1.01.396	1-MCR-NI-0653	MCSR0 NI-001	_____	VT	QCL-14	_____	08.00	_____	HYDRAULIC SNUBBER
F1.01.409	1-MCR-NI-0677	MCSR0 NI-011	_____	VT	QCL-14	_____	04.00	_____	RIGID SUPPORT
F1.01.432	1-MCR-NI-0700	MCSR0 NI-011	_____	VT	QCL-14	_____	02.00	_____	RIGID SUPPORT

PROGRAM: NISIRUB-QAISI02  
FILE: C007155  
PLANT: MCGUIRE UNIT 1  
REV: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 28  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS. REQ.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIA. / THICK	CALIB. BLOCK	COMMENTS
F1.01.433	1-MCR-NI-0701	MC5RD NI-011		VT QCL-14		02.00		RIGID SUPPORT
F1.01.434	1-MCR-NI-0702	MC5RD NI-011		VT QCL-14		02.00		HYDRAULIC SNUGGER
F1.01.435	1-MCR-NI-0703	MC5RD NI-011		VT QCL-14		02.00		RIGID SUPPORT
F1.01.436	1-MCR-NI-0704	MC5RD NI-011		VT QCL-14		02.00		RIGID SUPPORT
F1.01.463	1-MCR-NI-0758	MC5RD NI-009		VT QCL-14		02.00		RIGID SUPPORT
F1.01.464	1-MCR-NI-0759	MC5RD NI-009		VT QCL-14		02.00		RIGID SUPPORT
F1.01.465	1-MCR-NI-0740	MC5RD NI-009		VT QCL-14		02.00		RIGID SUPPORT
F1.01.528	1-MCF-NI-0864	MC5RD NI-016		VT QCL-14		01.50		RIGID SUPPORT

PROGRAM: NISIRUNB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 29  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
F1.01.529	1-MCR-NI-0865	MCSR0 NI-016	_____	VT	QCL-14	_____	01.50	_____	RIGID SUPPORT
F1.01.530	1-MCR-NI-0866	MCSR0 NI-016	_____	VT	QCL-14	_____	01.50	_____	RIGID SUPPORT
F1.01.564	1-MCR-NI-0942	MCSR0 ND-001	_____	VT	QCL-14	_____	08.00	_____	RIGID SUPPORT
F1.01.565	1-MCR-NI-0943	MCSR0 ND-001	_____	VT	QCL-14	_____	08.00	_____	RIGID SUPPORT
F1.01.566	1-MCR-NI-0944	MCSR0 ND-001	_____	VT	QCL-14	_____	08.00	_____	RIGID SUPPORT
F1.01.567	1-MCR-NI-0945	MCSR0 ND-001	_____	VT	QCL-14	_____	08.00	_____	MECHANICAL SHUBBER
F1.01.568	1-MCR-NI-0946	MCSR0 ND-001	_____	VT	QCL-14	_____	08.00	_____	SPRING HANGER
F1.01.569	1-MCR-NI-0947	MCSR0 ND-001	_____	VT	QCL-14	_____	08.00	_____	MECHANICAL SHUBBER

PROGRAM: NISIRB0-QA15102  
FILE: C007133  
PLANT: MCQUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCQUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 30  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. PROC. REQ. NUMBERS	MAF. TYPE/ GRADE	DIAM. / THICK.	CALIB. BLOCK	COMMENTS
F1.01.570	1-MCR-NI-0948	MCSRD ND-001		VT QCL-14		08.00		RIGID SUPPORT
F1.01.571	1-MCR-NI-0949	MCSRD ND-001		VT QCL-14		08.00		RIGID SUPPORT
F1.01.572	1-MCR-NI-0950	MCSRD ND-001		VT QCL-14		08.00		RIGID SUPPORT
F1.01.573	1-MCR-NI-0951	MCSRD ND-001		VT QCL-14		08.00		RIGID SUPPORT
F1.01.574	1-MCR-NI-0952	MCSRD ND-001		VT QCL-14		08.00		RIGID SUPPORT
F1.01.575	1-MCR-NI-0953	MCSRD NI-013		VT QCL-14		01.50		HYDRAULIC SHREWER
F1.01.576	1-MCR-NI-0954	MCSRD NI-013		VT QCL-14		01.50		RIGID SUPPORT
F1.01.663	1-MCR-NV-1035	MCSRD NV-004		VT QCL-14		03.00		RIGID SUPPORT

PROGRAM: NISIRUM8-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 31  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
F1.01.664	1-MCR-NV-1036	MCSR0 NV-004		VT	QCL-14		03.00		RIGID SUPPORT
F1.01.665	1-MCR-NV-1037	MCSR0 NV-004		VT	QCL-14		03.00		RIGID SUPPORT
F1.01.685	1-MCR-NV-1058	MCSR0 NV-004		VT	QCL-14		02.00		RIGID SUPPORT
F1.01.686	1-MCR-NV-1059	MCSR0 NV-004		VT	QCL-14		02.00		RIGID SUPPORT
F1.01.687	1-MCR-NV-1060	MCSR0 NV-004		VT	QCL-14		02.00		HYDRAULIC SNUBBER
F1.01.688	1-MCR-NV-1061	MCSR0 NV-004		VT	QCL-14		02.00		RIGID SUPPORT
F1.01.689	1-MCR-NV-1062	MCSR0 NV-004		VT	QCL-14		02.00		MECHANICAL SNUBBER
F1.01.690	1-MCR-NV-1063	MCSR0 NV-004		VT	QCL-14		02.00		SPRING HANGER

PROGRAM: NISIRUNG-QAISIC2  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 32  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ. NUMBERS	PROC. TYPE/GRADE	MATERIAL	DIAM./ CALS THICK	BLOCK	COMMENTS
F1.01.691	1-MCR-NV-1064	MCSR0 NV-004		VT	QCL-14		02.00		HYDRAULIC SNUBBER
F1.01.692	1-MCR-NV-1067	MCSR0 NV-004		VT	QCL-14		02.00		HYDRAULIC SNUBBER
F1.01.693	1-MCR-NV-1069	MCSR0 NV-004		VT	QCL-14		02.00		RIGID SUPPORT
F1.01.694	1-MCR-NV-1070	MCSR0 NV-004		VT	QCL-14		03.00		HYDRAULIC SNUBBER
F1.01.695	1-MCR-NV-1071	MCSR0 NV-004		VT	QCL-14		03.00		HYDRAULIC SNUBBER
F1.01.696	1-MCR-NV-1073	MCSR0 NV-004		VT	QCL-14		03.00		MECHANICAL SNUBBER
F1.01.697	1-MCR-NV-1074	MCSR0 NV-004		VT	QCL-14		03.00		MECHANICAL SNUBBER
F1.01.698	1-MCR-NV-1075	MCSR0 NV-004		VT	QCL-14		03.00		SPRING HANGER

PROGRAM: NISIRUMB-QAISI02  
 FILE: C007133  
 PLANT: MCGUIRE UNIT 1  
 KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
 QUALITY ASSURANCE DEPARTMENT  
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
 MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 33  
 DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
F1.01.699	1-MCR-NV-1077	MCSR NV-004		VT	QCL-14		03.00		RIGID SUPPORT
F1.01.700	1-MCR-NV-1078	MCSR NV-004		VT	QCL-14		03.00		RIGID SUPPORT
F1.01.804	1SGA-SUPPORT	MC 1070-4 MC 1070-17		VT	QCL-14				STEAM GENERATOR SUPPORT COLUMNS (4 ASSEMBLIES)
F1.02.040	1-MCA-CA-472	MCSR CAP		VT	QCL-14		06.00		SPRING CAN
F1.02.041	1-MCA-CA-473	MCSR CAP		VT	QCL-14		06.00		HYDRAULIC SNUBBER
F1.02.043	1-MCA-CA-475	MCSR CAP		VT	QCL-14		06.00		HYDRAULIC SNUBBER
F1.02.044	1-MCA-CA-476	MCSR CAP		VT	QCL-14		06.00		RIGID SUPPORT
F1.02.045	1-MCA-CA-483	MCSR CAP		VT	QCL-14		06.00		RIGID SUPPORT

PROGRAM: NISIRUNB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 34  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB. BLOCK	COMMENTS
F1.02.046	1-MCR-CA-382	MCSRDCAN		VT	QCL-14		06.00		HYDRAULIC SHUBBER
F1.02.047	1-MCR-CA-386	MCSRDCAM		VT	QCL-14		06.00		RIGID SUPPORT
F1.02.049	1-MCR-CA-388	MCSRDCAM		VT	QCL-14		06.00		HYDRAULIC SHUBBER
F1.02.050	1-MCR-CA-389	MCSRDCAM		VT	QCL-14		06.00		HYDRAULIC SHUBBER
F1.02.051	1-MCR-CA-390	MCSRDCAM		VT	QCL-14		06.00		RIGID SUPPORT
F1.02.052	1-MCR-CA-391	MCSRDCAM		VT	QCL-14		06.00		HYDRAULIC SHUBBER
F1.02.311	1-MCA-FW-013	MCSRDFHA		VT	QCL-14		24.00		RIGID SUPPORT
F1.02.312	1-MCA-FW-014	MCSRDFHA		VT	QCL-14		24.00		RIGID SUPPORT



PROGRAM: NISIRUB-QAISI02  
FILE: C007133  
PLANT: MCQUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCQUIRE 1 IN-SERVICE INSPECTION LISTING OUTAGE 4

PAGE 35  
DATE 01/14/83

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOC.	INSP. PROC.	REQ. NUMBERS	MATERIAL TYPE/GRADE	THICK. BLOCK	COMMENTS
F1.02.313	1-MCA-FM-109	MCSR0 FMA	VT	QCL-14	24.00			MECHANICAL SNUBBER
F1.02.318	1-MCA-FM-114	MCSR0 FMA	VT	QCL-14	08.00			RIGID SUPPORT
F1.02.437	1-MCA-ND-039	MCSR0 FMA	VT	QCL-14	12.00			RIGID SUPPORT OUT.1,3 ADDED PER IMF24301A,B) OUT.1,3 ADDED PER IMF24301A,B) OUT.1,3 ADDED PER IMF24301A,B)
F1.02.438	1-MCA-ND-040	MCSR0 FMA	VT	QCL-14	12.00			RIGID SUPPORT OUT.1,3 ADDED PER IMF24301A,B) OUT.1,3 ADDED PER IMF24301A,B) OUT.1,3 ADDED PER IMF24301A,B)
F1.02.439	1-MCA-ND-042	MCSR0 FMA	VT	QCL-14	12.00			SPRING HANGER
F1.02.440	1-MCA-ND-043	MCSR0 FMA	VT	QCL-14	12.00			SPRING HANGER
F1.02.441	1-MCA-ND-044	MCSR0 FMA	VT	QCL-14	12.00			RIGID SUPPORT OUT.3 ADDED PER IMF24301B) OUT.3 ADDED PER IMF24301B) OUT.3 ADDED PER IMF24301B)
F1.02.445	1-MCA-ND-049	MCSR0 NDA	VT	QCL-14	08.00			RIGID SUPPORT OUT.1,3 ADDED PER IMF24301A,B) OUT.1,3 ADDED PER IMF24301A,B) OUT.1,3 ADDED PER IMF24301A,B)

PROGRAM: NISIRU#0-QAISI02  
 FILE: C00717,  
 PLANT: MCGUIRE, UNIT 1  
 KEY: ITEM UNDER F1.

DUKE POWER COMPANY  
 QUALITY ASSURANCE DEPARTMENT  
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
 MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 36  
 DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
F1.02.457	1-MCA-ND-061	MCSRND NDA	VT	QCL-14		08.00			RIGID SUPPORT OUT.1,3 ADDED PER INF2430(A,B) OUT.1,3 ADDED PER INF2430(A,B) OUT.1,3 ADDED PER INF2430(A,B)
F1.02.458	1-MCA-ND-062	MCSRND NDA	VT	QCL-14		08.00			RIGID SUPPORT OUT.1,3 ADDED PER INF2430(A,B) OUT.1,3 ADDED PER INF2430(A,B) OUT.1,3 ADDED PER INF2430(A,B)
F1.02.465	1-MCA-ND-069	MCSRND NDA	VT	QCL-14		12.00			RIGID SUPPORT OUT.1,3 ADDED PER INF2430(A,B) OUT.1,3 ADDED PER INF2430(A,B) OUT.1,3 ADDED PER INF2430(A,B)
F1.02.519	1-MCA-ND-251	MCSRND FNA	VT	QCL-14		12.00			MECHANICAL SNUBBER
F1.02.520	1-MCA-ND-252	MCSRND FNA	VT	QCL-14		12.00			HYDRAULIC SNUBBER
F1.02.521	1-MCA-ND-253	MCSRND FNA	VT	QCL-14		12.00			HYDRAULIC SNUBBER
F1.02.551	1-MCA-ND-286	MCSRND NDA	VT	QCL-14		08.00			HYDRAULIC SNUBBER
F1.02.552	1-MCA-ND-287	MCSRND NDA	VT	QCL-14		08.00			HYDRAULIC SNUBBER

PROGRAM: NISIRUB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 37  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
F1.02.553	1-MCA-ND-288	MCSR0 NDA	VT	QCL-14		08.00			RIGID SUPPORT OUT.3 ADDED PER IMF2430(B) OUT.3 ADDED PER IMF2430(B) OUT.3 ADDED PER IMF2430(B)
F1.02.563	1-MCA-ND-298	MCSR0 NDA	VT	QCL-14		08.00			HYDRAULIC SNUBBER
F1.02.566	1-MCA-ND-301	MCSR0 NDA	VT	QCL-14		08.00			HYDRAULIC SNUBBER
F1.02.576	1-MCA-ND-324	MCSR0 NIA	VT	QCL-14		08.00			MECHANICAL SNUBBER
F1.02.577	1-MCA-ND-325	MCSR0 NIA	VT	QCL-14		08.00			MECHANICAL SNUBBER
F1.02.578	1-MCA-ND-326	MCSR0 NIA	VT	QCL-14		08.00			MECHANICAL SNUBBER
F1.02.609	1-MCA-NI-011	MCSR0 NIA	VT	QCL-14		06.00			RIGID SUPPORT
F1.02.620	1-MCA-NI-074	MCSR0 NIU	VT	QCL-14		12.00			RIGID SUPPORT

PROGRAM: NISIRUNB-QAISI62  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 38  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./THICK	CALIB BLOCK	COMMENTS
F1.02.623	1-MCA-NI-077	MCSRDI NIU	___	VT	QCL-14	___	12.00	___	RIGID SUPPORT
F1.02.624	1-MCA-NI-078	MCSRDI NIU	___	VT	QCL-14	___	12.00	___	RIGID SUPPORT
F1.02.626	1-MCA-NI-102	MCSRDI NIU	___	VT	QCL-14	___	12.00	___	RIGID SUPPORT
F1.02.627	1-MCA-NI-103	MCSRDI NIU	___	VT	QCL-14	___	12.00	___	RIGID SUPPORT
F1.02.628	1-MCA-NI-104	MCSRDI NIU	___	VT	QCL-14	___	12.00	___	RIGID SUPPORT
F1.02.636	1-MCA-NI-336	MCSRDI NIU	___	VT	QCL-14	___	12.00	___	RIGID SUPPORT
F1.02.637	1-MCA-NI-337	MCSRDI NIU	___	VT	QCL-14	___	12.00	___	RIGID SUPPORT
F1.02.638	1-MCA-NI-368	MCSRDI NIU	___	VT	QCL-14	___	12.00	___	RIGID SUPPORT

PROGRAM: NISIRUB-0A15102  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 IN-SERVICE INSPECTION LISTING OUTAGE 4

PAGE 39  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOC. NO.	INSP. PROC. REQ. NUMBERS	MATERIAL TYPE/GRADE	DIAM. / THICK	COMMENTS
F1.02.641	1-MCA-NI-371	MC5RD NIU		VT QCL-14		12.00	RIGID SUPPORT
F1.02.642	1-MCR-NI-540	MC5RD NI-003		VT QCL-14		06.00	RIGID SUPPORT
F1.02.643	1-MCR-NI-541	MC5RD NI-003		VT QCL-14		06.00	HYDRAULIC SHAFTER
F1.02.646	1-MCR-NI-550	MC5RD NI-003		VT QCL-14		06.00	RIGID SUPPORT
F1.02.653	1-MCR-NI-557	MC5RD NI-003		VT QCL-14		06.00	RIGID SUPPORT
F1.02.655	1-MCR-NI-559	MC5RD NI-003		VT QCL-14		06.00	RIGID SUPPORT
F1.02.857	1-MCA-RH-2291	MC5RD RH-309		VT QCL-14		06.00	RIGID SUPPORT
F1.02.838	1-MCA-RH-2292	MC5RD RH-309		VT QCL-14		06.00	RIGID SUPPORT

PROGRAM: NISIRUMB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 40  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB. BLOCK	COMMENTS
F1.02.854	1-MCA-RV-209	MCSR0 RN-309	_____	VT	QCL-14	_____	06.00	_____	RIGID SUPPORT
		_____	_____						
		_____	_____						
F1.02.877	1-MCA-SA-018	MCSR0 SAA	_____	VT	QCL-14	_____	06.00	_____	RIGID SUPPORT
		_____	_____						
		_____	_____						
F1.02.928	1-MCA-SM-204	MCSR0 SMA	_____	VT	QCL-14	_____	31.00	_____	MECHANICAL SHUBBER
		_____	_____						
		_____	_____						
F1.02.929	1-MCA-SM-205	MCSR0 SMA	_____	VT	QCL-14	_____	31.00	_____	MECHANICAL SHUBBER
		_____	_____						
		_____	_____						
F1.02.932	1-MCR-SM-079	MCSR0 SMA	_____	VT	QCL-14	_____	34.00	_____	MECHANICAL SHUBBER
		_____	_____						
		_____	_____						
F1.02.933	1-MCR-SM-080	MCSR0 SMA	_____	VT	QCL-14	_____	34.00	_____	RIGID SUPPORT
		_____	_____						
		_____	_____						
F1.02.934	1-MCR-SM-097	MCSR0 SMA	_____	VT	QCL-14	_____	34.00	_____	MECHANICAL SHUBBER
		_____	_____						
		_____	_____						
F1.02.957	1-MCA-SV-011	MCSR0 SVA	_____	VT	QCL-14	_____	06.00	_____	SPRING HANGER
		_____	_____						
		_____	_____						

PROGRAM: NISIRUMB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 41  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP. REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAH./ THICK	CALIB BLOCK	COMMENTS
F1.03.014	1-MCA-CA-039	MCSRDCAE		VT	QCL-14		04.00		RIGID SUPPORT
F1.03.016	1-MCA-CA-041	MCSRDCAE		VT	QCL-14		04.00		RIGID SUPPORT
F1.03.017	1-MCA-CA-042	MCSRDCAE		VT	QCL-14		04.50		RIGID SUPPORT
F1.03.018	1-MCA-CA-043	MCSRDCAE		VT	QCL-14		04.00		RIGID SUPPORT
F1.03.031	1-MCA-CA-071	MCSRDCAD		VT	QCL-14		04.00		RIGID SUPPORT
F1.03.032	1-MCA-CA-073	MCSRDCAD		VT	QCL-14		04.00		RIGID SUPPORT
F1.03.033	1-MCA-CA-074	MCSRDCAD		VT	QCL-14		04.00		RIGID SUPPORT
F1.03.039	1-MCA-CA-088	MCSRDCAA		VT	QCL-14		04.00		RIGID SUPPORT

PROGRAM: NISIRUMB-QAISI02  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION LISTING OUTAGE 4

PAGE 42  
DATE 01/14/88

ITEM NUMBER	ID. NUMBER	DRAWING NUMBERS	LOCS.	INSP REQ.	PROC. NUMBERS	MATERIAL TYPE/GRADE	DIAM./ THICK	CALIB BLOCK	COMMENTS
F1.03.040	1-MCA-CA-090	MCSR D CAA		VT	QCL-14		04.00		RIGID SUPPORT
F1.03.063	1-MCA-CA-223	MCSR D CAD		VT	QCL-14		04.00		RIGID SUPPORT
F1.03.064	1-MCA-CA-224	MCSR D CAD		VT	QCL-14		04.00		RIGID SUPPORT
F1.03.080	1-MCA-CA-282	MCSR D CAA		VT	QCL-14		04.00		RIGID SUPPORT
F1.03.081	1-MCA-CA-283	MCSR D CAA		VT	QCL-14		04.00		RIGID SUPPORT



#### 4.0 Results of Inspections Performed During Outage 4

The results of each inspection shown in the final ISI Plan (Section 3 of this report) are included in this section. The completion date and status for each inspection are shown. All inspections revealing reportable indications are described in further detail in Section 5, 6, or 7 as applicable.

The information shown below is a field description for the reporting format included in this section of the report:

Item Number = ASME Section XI Tables IWB-2500-1 (Class 1), IWC-2500-1 (Class 2), IWD-2500-1 (Class 3) and Augmented Requirements

ID Number = Unique Identification Number

Inspection Date = Date of Examination

Inspection Status  
CLR = Clear  
REC = Recordable  
REP = Reportable

Inspection Limited  
L = Limited  
- = No

Geo. Ref. = Geometric Reflector  
N = No  
Y = Yes

Comments = General and/or Detail Description

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
INSPECTION RESULTS LISTING  
REPORT BREAKS ON UNIT AND START OF ITEM NUMBER

PAGE 1  
DATE 01/14/88

\*\*\*\*\*  
\*\*\* REPORT SELECTION CRITERIA IS LISTED BELOW \*\*\*  
\*\*\*\*\*

1 2 3 4 5 6 7  
123456789012345678901234567890123456789012345678901234567890

PLANT CARD: P-MCG 1

INSPECTION CARD: I 4

TITLE CARD: T MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

1 2 3 4 5 6 7  
123456789012345678901234567890123456789012345678901234567890

\*\*\*\*\*  
\*\*\* REPORT BREAK TOTALS ARE LISTED BELOW \*\*\*  
\*\*\*\*\*

ITEM NUMBERS STARTING WITH B01 FOR UNIT 1 8  
ITEM NUMBERS STARTING WITH B04 FOR UNIT 1 5  
ITEM NUMBERS STARTING WITH B05 FOR UNIT 1 8  
ITEM NUMBERS STARTING WITH B07 FOR UNIT 1 6  
ITEM NUMBERS STARTING WITH B08 FOR UNIT 1 3  
ITEM NUMBERS STARTING WITH B09 FOR UNIT 1 2  
ITEM NUMBERS STARTING WITH B14 FOR UNIT 1 2  
ITEM NUMBERS STARTING WITH B15 FOR UNIT 1 23  
ITEM NUMBERS STARTING WITH B16 FOR UNIT 1 4  
ITEM NUMBERS STARTING WITH C05 FOR UNIT 1 58  
ITEM NUMBERS STARTING WITH D02 FOR UNIT 1 1  
ITEM NUMBERS STARTING WITH E01 FOR UNIT 1 3  
ITEM NUMBERS STARTING WITH E02 FOR UNIT 1 4  
ITEM NUMBERS STARTING WITH E03 FOR UNIT 1 6  
ITEM NUMBERS STARTING WITH E04 FOR UNIT 1 1  
ITEM NUMBERS STARTING WITH F1. FOR UNIT 1 165

TOTAL RECORDS SELECTED FOR UNIT 1 ----- 277

TOTAL RECORDS SELECTED FOR RUN  
277



PROGRAM: NTSIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER B04

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 2  
DATE 01/14/88

ITEM NUMBER *****	ID NUMBER *****	INSPECTION DATE *****	INSPECTION STATUS *****	INSPECTION LIMITED *****	GEO. REF. ****	COMMENTS *****
B04.012.001	IRPV-CRDM	11/11/87	CLR	-	N	_____
B04.011.001	IRPV-INORE	11/11/87	CLR	-	N	_____
B04.020.001	1PZR-HEATER	11/11/87	CLR	-	N	_____

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER B05

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 3  
DATE 01/14/88

ITEM NUMBER *****	ID NUMBER *****	INSPECTION DATE *****	INSPECTION STATUS *****	INSPECTION LIMITED *****	GEOT. REF. ****	COMMENTS *****
B05.010.017	IRPV-1-462A-SE	10/05/87	CLR	L	N	_____
B05.010.018	IRPV-1-462A-SE	10/04/87	CLR	-	N	_____
B05.010.019	IRPV-1-462B-SE	10/05/87	CLR	L	N	_____
B05.010.020	IRPV-1-462B-SE	10/04/87	CLR	-	N	_____
B05.010.021	IRPV-1-462C-SE	10/05/87	CLR	L	N	_____
B05.010.022	IRPV-1-462C-SE	10/04/87	CLR	-	N	_____
B05.010.023	IRPV-1-462D-SE	10/05/87	CLR	L	N	_____
B05.010.024	IRPV-1-462D-SE	10/04/87	CLR	-	N	_____

PROGRAM: NISIRUND-QA15104  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER B07

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 4  
DATE 01/14/88

ITEM NUMBER *****	ID NUMBER *****	INSPECTION DATE *****	INSPECTION STATUS *****	INSPECTION LIMITED *****	GEO. REF. ***	COMMENTS *****
B07.050.002	INCFE-6250	09/19/87	CLR	-	N	_____
B07.050.009	INCFE-5340	09/17/87	CLR	-	N	_____
B07.060.007	IRCP-1C-H	09/26/87	CLR	-	N	_____
B07.070.077	IND-2AC	09/12/87	CLR	-	N	_____
B07.070.201	INV-1B	09/11/87	CLR	-	N	_____
B07.070.205	INV-1A	09/17/87	CLR	-	N	_____

PROGRAM: MISIRHD-QA15104  
 FILE: C007133  
 PLANT: MCQUIRE UNIT 1  
 KEY: ITEM NUMBER B08

QUALITY ASSURANCE DEPARTMENT  
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
 MCQUIRE 1 IN-SERVICE INSPECTION RESULTS OUTAGE 4

PAGE 5  
 DATE 01/14/98

ITEM NUMBER B08.010.001	ID NUMBER 18PV-HD-LUG-1	INSPECTION DATE 10/04/87	INSPECTION STATUS CLR	INSPECTION LIMITED -	GEO. REF. N	COMMENTS B08.010.001
B08.010.002	18PV-HD-LUG-2	10/04/87	CLR	-	N	B08.010.002
B08.010.003	18PV-HD-LUG-3	10/04/87	CLR	-	N	B08.010.003

PROGRAM: NISIBRID-QA15104  
 FILE: C007133  
 PLANT: MCQUIRE UNIT 1  
 KEY: ITEM NUMBER B09

DUKE POWER COMPANY  
 QUALITY ASSURANCE DEPARTMENT  
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
 MCQUIRE 1 IN-SERVICE INSPECTION RESULTS OUTAGE 4

PAGE 6  
 DATE 01/14/88

ITEM NUMBER B09.021.153	ID NUMBER 1WV1F-1540	INSPECTION DATE 09/15/87	INSPECTION STATUS CLR	INSPECTION LIMITED -	GEO. REF. N	COMMENTS
B09.040.114	1WV1F-244	09/17/87	CLR	-	N	



PROGRAM: NISIRUND-QAISI04  
FILE: C007155  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER B14

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 7  
DATE 01/14/88

ITEM NUMBER *****	ID NUMBER *****	INSPECTION DATE *****	INSPECTION STATUS *****	INSPECTION LIMITED *****	GEO. REF. ****	COMMENTS *****
B14.010.016	1RPV-CRDM70	09/29/87	CLR	-	N	_____
B14.010.017	1RPV-CRDM71	09/29/87	CLR	-	N	_____

PROGRAM: NISIR/ND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER B15

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 8  
DATE 01/14/88

ITEM NUMBER *****	ID NUMBER *****	INSPECTION DATE *****	INSPECTION STATUS *****	INSPECTION LIMITED *****	GEO. ACF. ****	COMMENTS *****
B15.010.001	1RPV	11/11/87	CLR	-	N	_____
B15.020.001	1-PZR	11/11/87	CLR	-	N	_____
B15.030.001	1SG-1A	11/11/87	CLR	-	N	_____
B15.030.002	1SG-1B	11/11/87	CLR	-	N	_____
B15.030.003	1SG-1C	11/11/87	CLR	-	N	_____
B15.030.004	1SG-1D	11/11/87	CLR	-	N	_____
B15.050.001	1-MC-1553-1.0	11/11/87	CLR	-	N	_____
B15.050.002	1-MC-1553-2.0	11/11/87	REC	-	N	_____
B15.050.003	1-MC-1553-3.0	11/11/87	CLR	-	N	_____
B15.050.004	1-MC-1554-1.0	11/11/87	CLR	-	N	_____
B15.050.005	1-MC-1554-1.1	11/11/87	CLR	-	N	_____
B15.050.006	1-MC-1554-1.2	11/11/87	CLR	-	N	_____
B15.050.007	1-MC-1561-1.0	11/11/87	CLR	-	N	_____
B15.050.008	1-MC-1562-1.0	11/11/87	CLR	-	N	_____
B15.050.009	1-MC-1562-2.0	11/11/87	CLR	-	N	_____

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 3  
KEY: ITEM NUMBER B15

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 9  
DATE 01/11/88

ITEM NUMBER *****	ID NUMBER *****	INSPECTION DATE *****	INSPECTION STATUS *****	INSPECTION LIMITED *****	GEO. REF. ****	COMMENTS *****
B15.050.010	1-MC-1562-2.1	11/11/87	CLR	-	N	_____
B15.050.011	1-MC-1562-3.0	11/11/87	CLR	-	N	_____
B15.050.012	1-MC-1562-3.1	11/11/87	CLR	-	N	_____
B15.050.014	1-MC-1553-2.1	11/11/87	CLR	-	N	_____
B15.060.001	1-RPC-1A	11/11/87	CLR	-	N	_____
B15.060.002	1-RPC-1B	11/11/87	CLR	-	N	_____
B15.060.003	1-RPC-1C	11/11/87	CLR	-	N	_____
B15.060.004	1-RPC-1D	11/11/87	CLR	-	N	_____

PROGRAM: NISIRUND-QA15104  
 FILE: C007133  
 PLANT: MCCUIRE UNIT 1  
 KEY: ITEM NUMBER B16

DUKE POWER COMPANY  
 QUALITY ASSURANCE DEPARTMENT  
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
 REQUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 10  
 DATE 01/14/88

ITEM NUMBER B16.021.001	ID NUMBER 15GA-TUBES	INSPECTION DATE 09/19/87	INSPECTION STATUS REP	INSPECTION LIMITED	GEQ. REF.	COMMENTS PIR 1-M87-0216
B16.022.001	15GB-TUBES	09/24/87	REP	-	-	PIR 1-M87-0216
B16.023.001	15GC-TUBES	09/25/87	REP	-	-	PIR 1-M87-0216
B16.024.001	15GD-TUBES	09/20/87	REP	-	-	PIR 1-M87-0216

PROGRAM: NISIRRO-QA15104  
FILE: C007153  
PLANT: MCQUIRE UNIT 1  
KEY: ITEM NUMBER C05

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCQUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 11  
DATE 01/14/88

ITEM NUMBER C05.011.215	ID NUMBER 1401F-21A	INSPECTION DATE 06/23/87	INSPECTION STATUS CLR	INSPECTION LIMITED -	GEO. REF. N	COMMENTS C05.011.215
C05.011.216	140-12A-1	06/23/87	CLR	-	N	
C05.011.217	140-23-1	06/09/87	CLR	-	N	
C05.011.218	1401F-36	06/19/87	CLR	-	N	
C05.011.219	140-46-1	06/09/87	CLR	-	N	
C05.011.220	140-40-1	06/23/87	CLR	-	N	
C05.011.227	1401F-109	06/05/87	CLR	-	N	
C05.011.228	140-161-3	06/05/87	CLR	-	N	
C05.011.229	1401F-170	06/23/87	CLR	-	N	
C05.011.240	140-133-1	06/09/87	CLR	-	N	
C05.011.241	1401F-154	06/23/87	CLR	-	N	
C05.011.242	140-768-1	06/23/87	CLR	-	N	
C05.011.243	140-76A-2	06/23/87	CLR	-	N	
C05.011.244	1401F-155	06/23/87	CLR	-	N	
C05.011.245	1401F-89	06/23/87	CLR	-	N	

PROGRAM: NISIRUPD-QA15104  
FILE: C007153  
PLANT: --GULF UNIT 1  
REV: ITEM NUMBER C05

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCQUIRE 1 IN-SERVICE INSPECTION RESULTS OUTAGE 4

PAGE 12  
DATE 01/14/88

ITEM NUMBER XXXXXXXXXX	ID NUMBER XXXXXXXXXX	INSPECTION DATE XXXXXXXXXX	INSPECTION STATUS XXXXXXXXXX	INSPECTION LIMITED XXXXXXXXXX	GEO. REF. XXXX	COMMENTS XXXXXXXXXXXXXXXXXXXXXXXXXXXX
C05.011.246	1M0-72-2	06/23/87	CLR	-	N	
C05.011.247	1M072-1	06/23/87	CLR	-	N	
C05.011.248	1M01F-64A	06/12/87	CLR	-	N	
C05.011.249	1M01F-64	06/23/87	CLR	-	N	
C05.011.250	1M0-69-1	06/23/87	CLR	-	N	
C05.011.251	1M0-69A-1	06/12/87	CLR	-	N	
C05.011.252	1M0-69A-3	06/12/87	CLR	-	N	
C05.011.253	1M0-69A-4	06/12/87	CLR	-	N	
C05.011.605	1VQ1F-6	06/10/87	CLR	-	N	
C05.011.606	1VQ1F-12	06/10/87	CLR	-	N	
C05.011.614	1VQ1F-53	06/10/87	CLR	-	N	
C05.011.617	1VQ1F-62	06/09/87	CLR	-	N	
C05.011.618	1VQ1F-63	06/09/87	CLR	-	N	
C05.012.210	1M01F-21A1	06/19/87	CLR	-	N	
C05.012.211	1M0-12A-1L	06/19/87	CLR	-	N	

PROGRAM: NISIRWD-QA15104  
 FILE: C007153  
 PLANT: MCGUIRE UNIT 3  
 KEY: ITEM NUMBER C05

DUKE POWER COMPANY  
 QUALITY ASSURANCE DEPARTMENT  
 PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
 MODULE 1 IN-SERVICE INSPECTION RESULTS OUTAGE 4

PAGE 13  
 DATE 01/14/88

ITEM NUMBER	ITEM NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	GRD. REF.	COMMENTS
C05.012.212	1ND-23-1L	06/09/87	CLR	-	N	
C05.012.213	1ND1F-56L	06/19/87	CLR	-	N	
C05.012.214	1ND-46-1L	06/09/87	CLR	-	N	
C05.012.221	1ND1F-170L	06/23/87	CLR	-	N	
C05.012.222	1ND1F-154L	06/23/87	CLR	-	N	
C05.012.223	1ND1F-044L	06/12/87	CLR	-	N	
C05.012.224	1ND1F-04L	06/23/87	CLR	-	N	
C05.012.806	1VQ1F-55L	07/28/87	CLR	-	N	

PROGRAM: NUCLEAR-QUALITY  
FILE: C007155  
PLANT: MCQUIRE UNIT 1  
KEY: ITEM NUMBER D02

DATE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCQUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE

PAGE 14  
DATE 01/14/88

ITEM NUMBER	ID NUMBER	INSPECTION DATE	INSPECTION STATUS	INSPECTION LIMITED	CR. REF.	COMMENTS
D02.020.001	1-MCA-CA-276	09/05/87	CLR	-	N	



PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCQUIRE UNIT 1  
KEY: ITEM NUMBER E01

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCQUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 15  
DATE 01/14/88

ITEM NUMBER *****	ID NUMBER *****	INSPECTION DATE *****	INSPECTION STATUS *****	INSPECTION LIMITED *****	GEO. REF. ****	COMMENTS *****
E01.001.001	1RCP-1A	11/19/86	CLR	L	N	_____
E01.001.002	1RCP-1B	09/23/87	CLR	L	H	_____
E01.001.003	1RCP-1C	11/19/86	CLR	L	N	_____

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER E02

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 16  
DATE 01/14/83

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
E02.001.001	1SGA-TUBES	09/19/87	REP	-	N	SEE E.C. RESULTS PIR 1M87-0216
E02.001.002	1SGB-TUBES	09/24/87	REP	-	N	SEE E.C. RESULTS PIR 1M87-0216
E02.001.003	1SGC-TUBES	09/25/87	REC	-	N	SEE E.C. RESULTS PIR 1M87-0216
E02.001.004	1SGD-TUBES	09/20/87	REP	-	N	SEE E.C. RESULTS PIR 1M87-0216

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER E03

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 17  
DATE 01/14/88

ITEM NUMBER *****	ID NUMBER *****	INSPECTION DATE *****	INSPECTION STATUS *****	INSPECTION LIMITED *****	GEO. REF. ****	COMMENTS *****
E03.001.004	INC1F-109	09/17/87	CLR	L	N	_____
E03.001.004A	INC1F-109	09/15/87	CLR	-	N	_____
E03.001.005	INC-102-1	09/21/87	CLR	L	Y	_____
E03.001.005A	INC-102-1	09/15/87	CLR	-	N	_____
E03.001.006	INC-102-2	09/21/87	CLR	L	N	_____
E03.001.006A	INC-102-2	09/15/87	CLR	-	N	_____

PROGRAM: NISIRUND-QAISI04  
FILE: C007137  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER E04

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 18  
DATE 01/14/88

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEQ. REF. =====	COMMENTS =====
E04.001.011	1SGC	09/30/87	CLR	L	N	_____

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 19  
DATE 01/14/89

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEQ. REF. =====	COMMENTS =====
F1.01.044	1-MCR-NC-0578	09/22/87	CLR	-	N	OUT.4 INSP.,OUT.4 PER.IWF2430A
F1.01.045	1-MCR-NC-0579	09/30/87	REP	-	N	OUT.6 PER IWF2420-B:1-M87-0256
F1.01.046	1-MCR-NC-0585	09/17/87	CLR	-	N	_____
F1.01.047	1-MCR-NC-0586	09/17/87	CLR	-	N	_____
F1.01.048	1-MCR-NC-0587	09/17/87	CLR	-	N	_____
F1.01.049	1-MCR-NC-0588	09/17/87	CLR	-	N	_____
F1.01.050	1-MCR-NC-0589	09/17/87	REC	-	N	_____
F1.01.051	1-MCR-NC-0590	09/17/87	CLR	-	N	_____
F1.01.057	1-MCR-NC-0600	09/25/87	CLR	-	N	_____
F1.01.058	1-MCR-NC-0603	09/25/87	CLR	-	N	_____
F1.01.062	1-MCR-NC-0608	09/25/87	CLR	-	N	_____
F1.01.071	1-MCR-NC-0622	09/15/87	REC	-	N	_____
F1.01.083	1-MCR-NC-0652	09/08/87	CLR	-	N	_____
F1.01.153	1-MCR-NC-0886	10/15/87	CLR	-	N	OUT.4 PER. IWF2430(A)
F1.01.155	1-MCR-NC-0888	10/15/87	CLR	-	N	OUT.4 PER IWF2430(A)

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 20  
DATE 01/14/88

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
F1.01.311	1-MCR-NI-0509	09/09/87	CLR	-	N	_____
F1.01.314	1-MCR-NI-0512	09/09/87	CLR	-	N	_____
F1.01.324	1-MCR-NI-0525	09/09/87	CLR	-	N	_____
F1.01.326	1-MCR-NI-0527	09/25/87	CLR	-	N	_____
F1.01.329	1-MCR-NI-0530	09/25/87	CLR	-	N	_____
F1.01.335	1-MCR-NI-0537	09/22/87	CLR	-	N	_____
F1.01.336	1-MCR-NI-0538	09/25/87	CLR	-	N	_____
F1.01.338	1-MCR-NI-0547	09/22/87	CLR	-	N	_____
F1.01.339	1-MCR-NI-0548	09/23/87	CLR	-	N	_____
F1.01.340	1-MCR-NI-0549	09/22/87	CLR	-	N	_____
F1.01.341	1-MCR-NI-0565	09/15/87	CLR	-	N	_____
F1.01.342	1-MCR-NI-0567	09/25/87	CLR	-	N	_____
F1.01.343	1-MCR-NI-0569	09/15/87	CLR	-	N	_____
F1.01.344	1-MCR-NI-0570	09/15/87	CLR	-	N	_____
F1.01.345	1-MCR-NI-0571	09/17/87	CLR	-	N	_____

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 21  
DATE 01/14/88

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
F1.01.346	1-MCR-NI-0577	09/25/87	CLR	-	N	_____
F1.01.347	1-MCR-NI-0579	09/09/87	CLR	-	N	_____
F1.01.348	1-MCR-NI-0580	09/17/87	CLR	-	N	_____
F1.01.349	1-MCR-NI-0581	09/24/87	CLR	-	N	_____
F1.01.350	1-MCR-NI-0582	09/14/87	CLR	-	N	_____
F1.01.351	1-MCR-NI-0583	09/14/87	REC	-	N	_____
F1.01.352	1-MCR-NI-0585	09/11/87	CLR	-	N	_____
F1.01.353	1-MCR-NI-0586	09/11/87	CLR	-	N	_____
F1.01.354	1-MCR-NI-0587	09/25/87	CLR	-	N	_____
F1.01.355	1-MCR-NI-0588	09/11/87	REC	-	N	_____
F1.01.356	1-MCR-NI-0589	09/11/87	CLR	-	N	_____
F1.01.370	1-MCR-NI-0615	09/11/87	CLR	-	N	_____
F1.01.371	1-MCR-NI-0616	09/17/87	REC	-	N	_____
F1.01.372	1-MCR-NI-0617	09/17/87	REC	-	N	_____
F1.01.373	1-MCR-NI-0618	09/25/87	CLR	-	N	_____

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 22  
DATE 01/14/88

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
F1.01.396	1-MCR-NI-0653	09/11/87	CLR	-	N	_____
F1.01.409	1-MCR-NI-0677	09/24/87	CLR	-	N	_____
F1.01.432	1-MCR-NI-0700	09/09/87	CLR	-	N	_____
F1.01.433	1-MCR-NI-0701	09/09/87	CLR	-	N	_____
F1.01.434	1-MCR-NI-0702	09/09/87	CLR	-	N	_____
F1.01.435	1-MCR-NI-0703	09/24/87	CLR	-	N	_____
F1.01.436	1-MCR-NI-0704	09/24/87	CLR	-	N	_____
F1.01.463	1-MCR-NI-0738	09/09/87	CLR	-	N	_____
F1.01.464	1-MCR-NI-0739	09/30/87	CLR	-	N	_____
F1.01.465	1-MCR-NI-0740	09/09/87	CLR	-	N	_____
F1.01.528	1-MCR-NI-0864	09/11/87	CLR	-	N	_____
F1.01.529	1-MCR-NI-0865	09/11/87	CLR	-	N	_____
F1.01.530	1-MCR-NI-0866	09/09/87	CLR	-	N	_____
F1.01.564	1-MCR-NI-0942	09/11/87	CLR	-	N	_____
F1.01.565	1-MCR-NI-0943	09/11/87	CLR	-	N	_____



PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS CUTAGE 4

PAGE 23  
DATE 01/14/88

ITEM NUMBER *****	ID NUMBER *****	INSPECTION DATE *****	INSPECTION STATUS *****	INSPECTION LIMITED *****	GEO. REF. ****	COMMENTS *****
F1.01.566	1-MCR-NI-0944	09/11/87	CLR	-	N	_____
F1.01.567	1-MCR-NI-0945	09/11/87	CLR	-	N	_____
F1.01.568	1-MCR-NI-0946	09/11/87	CLR	-	N	_____
F1.01.569	1-MCR-NI-0947	09/25/87	CLR	-	N	_____
F1.01.570	1-MCR-NI-0948	09/25/87	CLR	-	N	_____
F1.01.571	1-MCR-NI-0949	09/16/87	CLR	-	N	_____
F1.01.572	1-MCR-NI-0950	09/16/87	REC	-	N	_____
F1.01.573	1-MCR-NI-0951	09/25/87	CLR	-	N	_____
F1.01.574	1-MCR-NI-0952	09/16/87	CLR	-	N	_____
F1.01.575	1-MCR-NI-0953	09/24/87	CLR	-	N	_____
F1.01.576	1-MCR-NI-0954	09/24/87	CLR	-	N	_____
F1.01.663	1-MCR-NV-1035	09/09/87	CLR	-	N	_____
F1.01.664	1-MCR-NV-1036	09/09/87	CLR	-	N	_____
F1.01.665	1-MCR-NV-1037	09/09/87	CLR	-	N	_____
F1.01.685	1-MCR-NV-1058	09/09/87	CLR	-	N	_____

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 24  
DATE 01/14/88

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
F1.01.686	1-MCR-NV-1059	09/19/87	CLR	-	N	_____
F1.01.687	1-MCR-NV-1060	09/11/87	CLR	-	N	_____
F1.01.688	1-MCR-NV-1061	09/11/87	CLR	-	N	_____
F1.01.689	1-MCR-NV-1062	09/11/87	REC	-	N	_____
F1.01.690	1-MCR-NV-1063	09/11/87	REC	-	N	_____
F1.01.691	1-MCR-NV-1064	09/11/87	REC	-	N	_____
F1.01.692	1-MCR-NV-1067	09/11/87	CLR	-	N	_____
F1.01.693	1-MCR-NV-1069	09/30/87	CLR	-	N	_____
F1.01.694	1-MCR-NV-1070	09/09/87	CLR	-	N	_____
F1.01.695	1-MCR-NV-1071	09/09/87	CLR	-	N	_____
F1.01.696	1-MCR-NV-1072	09/09/87	CLR	-	N	_____
F1.01.697	1-MCR-NV-1074	09/09/87	CLR	-	N	_____
F1.01.698	1-MCR-NV-1075	09/09/87	CLR	-	N	_____
F1.01.699	1-MCR-NV-1077	09/09/87	CLR	-	N	_____
F1.01.700	1-MCR-NV-1078	09/09/87	CLR	-	N	_____

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 25  
DATE 01/14/88

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
F1.01.804	ISGA-SUPPORT	10/02/87	CLR	-	N	_____
F1.02.040	1-MCA-CA-472	09/08/87	CLR	-	N	_____
F1.02.041	1-MCA-CA-473	09/08/87	CLR	-	N	_____
F1.02.043	1-MCA-CA-475	09/08/87	CLR	-	N	_____
F1.02.044	1-MCA-CA-476	09/08/87	CLR	-	N	_____
F1.02.045	1-MCA-CA-483	09/30/87	REC	-	N	_____
F1.02.046	1-MCR-CA-382	09/23/87	CLR	-	N	_____
F1.02.047	1-MCR-CA-386	09/19/87	CLR	-	N	_____
F1.02.049	1-MCR-CA-388	09/22/87	CLR	-	N	_____
F1.02.050	1-MCR-CA-389	09/22/87	REC	-	N	_____
F1.02.051	1-MCR-CA-390	09/22/87	CLR	-	N	_____
F1.02.052	1-MCR-CA-391	09/22/87	REC	-	N	_____
F1.02.311	1-MCA-FW-013	08/28/87	CLR	-	N	_____
F1.02.312	1-MCA-FW-014	08/12/87	CLR	-	N	_____
F1.02.313	1-MCA-FW-109	09/01/87	CLR	-	N	_____

PROGRAM: NISIRUND-QAISI04  
FILE: C007153  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 26  
DATE 01/14/88

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEOL. REF. =====	COMMENTS =====
F1.02.318	1-MCA-FW-114	09/01/87	REC	-	N	
F1.02.437	1-MCA-ND-039	09/02/87	CLR	-	N	OUT.1,3 ADDED PER INF2430(A,B)
F1.02.438	1-MCA-ND-040	09/02/87	CLR	-	N	OUT.1,3 ADDED PER INF2430(A,B)
F1.02.439	1-MCA-ND-042	08/26/87	CLR	-	N	
F1.02.440	1-MCA-ND-043	09/02/87	CLR	-	N	
F1.02.441	1-MCA-ND-044	09/02/87	CLR	-	N	OUT.3 ADDED PER INF2430(B)
F1.02.445	1-MCA-ND-049	08/28/87	CLR	L	N	OUT.1,3 ADDED PER INF2430(A,B)
F1.02.457	1-MCA-ND-061	08/12/87	CLR	-	N	OUT.1,3 ADDED PER INF2430(A,B)
F1.02.458	1-MCA-ND-062	08/12/87	CLR	-	N	OUT.1,3 ADDED PER INF2430(A,B)
F1.02.465	1-MCA-ND-069	09/02/87	CLR	-	N	OUT.1,3 ADDED PER INF2430(A,B)
F1.02.519	1-MCA-ND-251	09/02/87	CLR	-	N	
F1.02.520	1-MCA-ND-252	09/02/87	CLR	-	N	
F1.02.521	1-MCA-ND-253	09/02/87	CLR	-	N	
F1.02.551	1-MCA-ND-286	08/12/87	CLR	-	N	
F1.02.552	1-MCA-ND-287	08/12/87	CLR	-	N	

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 27  
DATE 01/14/88

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEQ. REF. =====	COMMENTS =====
F1.02.553	1-MCA-ND-288	08/12/87	CLR	-	N	OUT.3 ADDED PER IMF2430(B)
F1.02.563	1-MCA-ND-298	09/01/87	CLR	-	N	_____
F1.02.566	1-MCA-ND-301	09/02/87	CLR	-	N	_____
F1.02.576	1-MCA-ND-324	08/12/87	REC	-	N	_____
F1.02.577	1-MCA-ND-325	08/12/87	REC	-	N	_____
F1.02.578	1-MCA-ND-326	09/01/87	CLR	-	N	_____
F1.02.609	1-MCA-NI-011	09/01/87	CLR	-	N	_____
F1.02.620	1-MCA-NI-074	08/20/87	REC	-	N	_____
F1.02.623	1-MCA-NI-077	08/12/87	CLR	-	N	_____
F1.02.624	1-MCA-NI-078	08/12/87	CLR	-	N	_____
F1.02.626	1-MCA-NI-102	08/20/87	REC	-	N	_____
F1.02.627	1-MCA-NI-103	08/13/87	CLR	-	N	_____
F1.02.628	1-MCA-NI-104	08/12/87	REC	-	N	_____
F1.02.636	1-MCA-NI-336	08/12/87	CLR	-	N	_____
F1.02.637	1-MCA-NI-337	08/25/87	CLR	-	N	_____

PROGRAM: NISIRUND-QAISI04  
FILE: C007153  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 28  
DATE 01/14/88

ITEM NUMBER *****	ID NUMBER *****	INSPECTION DATE *****	INSPECTION STATUS *****	INSPECTION LIMITED *****	GEOM. REF. ****	COMMENTS *****
F1.02.638	1-MCA-NI-368	08/25/87	REC	-	N	_____
F1.02.641	1-MCA-NI-371	08/20/87	CLR	-	N	_____
F1.02.642	1-MCR-NI-540	09/12/87	CLR	-	N	_____
F1.02.643	1-MCR-NI-541	09/12/87	CLR	-	N	_____
F1.02.646	1-MCR-NI-550	09/24/87	CLR	-	N	_____
F1.02.653	1-MCR-NI-557	09/09/87	CLR	-	N	_____
F1.02.655	1-MCR-NI-559	09/09/87	CLR	-	N	_____
F1.02.837	1-MCA-RN-2291	08/26/87	CLR	-	N	_____
F1.02.838	1-MCA-RN-2292	08/26/87	CLR	-	N	_____
F1.02.854	1-MCA-RV-209	08/20/87	REC	-	N	_____
F1.02.877	1-MCA-SA-018	09/08/87	CLR	-	N	_____
F1.02.928	1-MCA-SM-204	09/08/87	CLR	-	N	_____
F1.02.929	1-MCA-SM-205	09/08/87	CLR	-	N	_____
F1.02.932	1-MCR-SM-079	09/11/87	CLR	-	N	_____
F1.02.933	1-MCR-SM-080	09/22/87	CLR	-	N	_____

PROGRAM: NISIRUND-QAISI04  
FILE: C007133  
PLANT: MCGUIRE UNIT 1  
KEY: ITEM NUMBER F1.

DUKE POWER COMPANY  
QUALITY ASSURANCE DEPARTMENT  
PRE-SERVICE AND IN-SERVICE INSPECTION SYSTEM  
MCGUIRE 1 INSERVICE INSPECTION RESULTS OUTAGE 4

PAGE 29  
DATE 01/14/88

ITEM NUMBER =====	ID NUMBER =====	INSPECTION DATE =====	INSPECTION STATUS =====	INSPECTION LIMITED =====	GEO. REF. =====	COMMENTS =====
F1.02.934	1-MCR-SM-097	09/14/87	REC	-	N	_____
F1.02.957	1-MCA-SV-011	09/08/87	CLR	-	N	_____
F1.03.014	1-MCA-CA-039	08/12/87	CLR	-	N	_____
F1.03.016	1-MCA-CA-041	08/12/87	CLR	-	N	_____
F1.03.017	1-MCA-CA-042	08/12/87	CLR	-	N	_____
F1.03.018	1-MCA-CA-043	08/12/87	CLR	-	N	_____
F1.03.031	1-MCA-CA-071	09/02/87	CLR	-	N	_____
F1.03.032	1-MCA-CA-073	08/12/87	CLR	-	N	_____
F1.03.033	1-MCA-CA-074	08/12/87	CLR	-	N	_____
F1.03.039	1-MCA-CA-088	08/12/87	CLR	-	N	_____
F1.03.040	1-MCA-CA-090	08/12/87	CLR	-	N	_____
F1.03.063	1-MCA-CA-223	09/02/87	CLR	-	N	_____
F1.03.064	1-MCA-CA-224	09/02/87	REC	-	N	_____
F1.03.080	1-MCA-CA-282	08/12/87	CLR	-	N	_____
F1.03.081	1-MCA-CA-283	08/12/87	CLR	-	N	_____

## 5.0 Class 1 Inspection Results

Examinations were performed during Outage 4 on the Reactor Vessel, Steam Generator, Class 1 Piping, Pumps, Valves, Bolting and CRDM Housing Welds.

### 5.1 Reactor Vessel

Reactor Vessel Closure Head Circumferential Weld Pc. 446-04 to Pc. 446-03 received an ultrasonic examination. Five (5) Meridional Head Welds received an ultrasonic examination. Closure Head-to-Flange Weld Pc. 446-03 to Pc. 446-02 received ultrasonic and magnetic particle examinations. Four (4) Upper Head Injection Tube-to-Closure Head Safe-end Welds received ultrasonic and dye penetrant examinations.

Three (3) Reactor Closure Lifting Lug Welds received a magnetic particle examination.

Two (2) CRDM Housing Welds received a dye penetrant examination.

No reportable indications were found.

### 5.2 Steam Generators

Steam Generator 1A Support Columns received visual examinations. No reportable conditions were found.

### 5.3 Class 1 Piping

Similar Metal Butt Welds:

One (1) circumferential weld less than four inches and one (1) socket weld received a dye penetrant examination. Flange bolting received visual examinations. No reportable indications or conditions were found.

Piping Supports:

Ninety (90) hangers were examined by visual methods. Reportable condition was found on hanger 1-MCR-NC-0579 (Item No. F1.01.045). Hanger was repaired and declared operable before Unit 1 returned to service. The scope of inspection was extended to include examination of three (3) additional supports per ASME Section XI, Paragraph IWF-2430(A). See Problem Investigation Report 1-M87-0256, included in Section 9 of this report. A copy of inspection data sheets is included in this section of the report. No other reportable conditions were found.

### 5.4 Pumps

Reactor Coolant Pump 1C Seal Gland Housing Bolts received a visual examination. No reportable indications were found.



## 5.5 Valves

Pressure Retaining Bolting in Valves 1ND-2AC, 1NV-18 and 1NV-1A received a visual examination. No reportable indications were found.

## 5.6 Steam Generator Tubing

The tubing in all four steam generators were inspected by eddy current using multifrequency techniques. The inspection results on all tubes showing equal to or greater than 20% through wall penetration are shown in this section of the report.

Steam Generator 1A - 4,548 tubes were examined.

Twenty-eight (28) tubes had indications greater than or equal to 20% through wall but less than 40% through wall. Thirty-six (36) tubes were found to have degradation equal to or greater than 40% through wall. Twenty-six tubes were plugged (see plugging list included in this section).

Steam Generator 1B - 4,556 tubes were examined.

Five (5) tubes had indications greater than or equal to 20% through wall but less than 40% through wall. Sixty-eight (68) tubes were found to have degradation equal to or greater than 40% through wall. Fifty-two (52) tubes were plugged (see plugging list included in this section).

Steam Generator 1C - 4,554 tubes were examined.

Six (6) tubes had indications greater than or equal to 20% through wall but less than 40% through wall. Twenty-one (21) tubes were found to have degradation equal to or greater than 40% through wall. Seventeen (17) tubes were plugged (see plugging list included in this section).

Steam Generator 1D - 4,523 tubes were examined.

Eleven (11) tubes had indications greater than or equal to 20% through wall but less than 40% through wall. Ninety-nine (99) tubes were found to have degradation equal to or greater than 40% through wall. Thirty-eight (38) tubes were plugged (see plugging list included in this section).

## 5.7 Inservice Leakage Test

The Class 1 Pressure Boundary was subjected to an inservice leakage test as required by ASME Section XI, Article IWB-5000. No reportable conditions were noted.

## 5.8 Class 1 Repairs and Replacements

Repairs and replacements for work performed from September 8, 1986 to November 11, 1987 are itemized in Section 11 of this report.

## DUKE POWER COMPANY

Page 1 of 1PROJECT Mc GUIRE UNIT 1

ISI VISUAL EXAMINATION, VT-3 and VT-4

W.R. #/NSM

☐ PSI ☒ ISI

INSPECTOR	LEVEL	DATE:	SURFACE:	PROCEDURE:
<u>E. ADAMSON</u>	<u>II</u>	<u>9-30-87</u>	ID <input type="checkbox"/> OD <input checked="" type="checkbox"/>	<u>QCL 14 REV: 7</u>
		THICKNESS:	MAT. C.S. <input checked="" type="checkbox"/>	VISUAL METHOD: DIRECT <input checked="" type="checkbox"/> REMOTE <input type="checkbox"/>
		<u>NA</u>	TYPE S.S. <input type="checkbox"/>	
		ACTUAL SYS. TEMP. <u>NA</u>		VISUAL AIDS/M&T: SN:
		SYSTEM STATUS:		<u>Flashlight 12' O TAPE</u>
		HOT <input type="checkbox"/> COLD <input checked="" type="checkbox"/> OTHER (Explain in <input type="checkbox"/> Comments)		<u>measure</u>
				<u>Shim GAUGE</u>
ITEM INSPECTED: <u>CLASS 1 Hanger</u>		I.D. NUMBER <u>1-MC 13-NC-579 Rev</u>		ITEM NO. <u>F1.01.045</u>

RESULTS: ☐ ACCEPTABLE ☒ UNACCEPTABLE, REQUIRE NDE/EVALUATION OR REPAIR

IND. NO.	INDICATION TYPE	LENGTH	WIDTH	REMARKS
1.				Roll eye piece is out of Roll end
2.				Clamp is rotated downward leaving snubber in a bind.

## VARIABLE SPRING SUPPORTS

HOT LOAD  
COLD LOAD NA EA  
LOAD INDICATOR READING 9-30-87

## MECHANICAL SHOCK SUPPRESSOR

HOT SETTING 1 1/8"  
COLD SETTING 2 1/16" ± 3/8"  
ACTUAL PISTON SETTING 2 3/8"

## HYDRAULIC SHOCK SUPPRESSORS

FLUID LEVEL IN RESERVOIR  
HOT SETTING NA EA  
COLD SETTING 9-30-87

ACTUAL PISTON SETTING

## CONSTANT SUPPORT

HOT SETTING NA EA  
COLD SETTING 9-30-87  
POSITION INDICATION READING

TOTAL NUMBER OF DIVISION SCALE

QA REVIEW

TDT routman

## VARIABLE SPRING SUPPORTS

HOT LOAD  
COLD LOAD NA EA  
LOAD INDICATOR READING 9-30-87

## MECHANICAL SHOCK SUPPRESSOR

HOT SETTING NA EA  
COLD SETTING 9-30-87  
ACTUAL PISTON SETTING

## HYDRAULIC SHOCK SUPPRESSORS

FLUID LEVEL IN RESERVOIR  
HOT SETTING NA EA  
COLD SETTING 9-30-87

ACTUAL PISTON SETTING

PIR ☒ YES ☐ NO SERIAL NO. PIR 0256

COMMENTS/DISPOSITION: Repair Hanger  
S.O. SEE WR 59756 May 1987  
10-15-87

ANII REVIEW

Albain

DATE

10-23-87

DATE

10-16-87R  
20  
10/26/87

ATTACHMENT 1

Dev./Station McGUIRE Unit 1 File No. \_\_\_\_\_  
 Subject ISI FOR 1-MCR-NC-579 SKETCH REV 6 \*  
 Item # F1.01.045 DATED 9-22-87 By MAH Date 10-13-87  
 Sheet No. \_\_\_\_ of \_\_\_\_ Problem No. \_\_\_\_ Checked By RWH Date 10-13-87

DEFICIENCY: 1) GAP BEHIND BASEPLATE EXCEEDS  $\frac{1}{8}$ "

- 2) BASEPLATE IS LOOSE \*
- 3) NUTS ARE FINGER TIGHT \*
- 4) SPHERICAL BEARING ON ROD END DISLODGED (SEPARATED) FROM ROD END.

\* TELECON W/ RICK BRANCH & M.A. HELMS 10/13/87  
2:30 PM

DISPOSITION: S/R IS INOPERABLE.

REPAIR S/R IN ACCORDANCE WITH  
LATEST REVISION OF SKETCH &  
APPROPRIATE SPECS. & SITE PROCS.

ROD END SHOULD BE REPLACED OR SPHERICAL  
BEARING REINSERTED & "STAKED" AS REQ'D  
BY APPROP. SITE PROCS. SPACER WASHERS  
SHOULD ALSO BE UTILIZED AS APPROP.

M.A. Helms  
10/13/87

[illegible]

Plant: McGuire Unit 1  
 Outage: 7/8

Steam Generator: A

QUERY: INDICATIONS 40% TW OR GREATER

ROW	COL	IND	%TW	VOLTS	LOCATION	EXTENT	ANAL	TAP 2	TAP 1
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23	23
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37	37	37	37	37	37	37	37	37	37
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41	41	41	41	41	41	41	41	41	41
42	42	42	42	42	42	42	42	42	42
43	43	43	43	43	43	43	43	43	43
44	44	44	44	44	44	44	44	44	44
45	45	45	45	45	45	45	45	45	45
46	46	46	46	46	46	46	46	46	46
47	47	47	47	47	47	47	47	47	47
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51	51	51	51	51	51	51	51	51	51
52	52	52	52	52	52	52	52	52	52
53	53	53	53	53	53	53	53	53	53
54	54	54	54	54	54	54	54	54	54
55	55	55	55	55	55	55	55	55	55
56	56	56	56	56	56	56	56	56	56
57	57	57	57	57	57	57	57	57	57
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66	66	66	66	66	66	66	66	66	66
67	67	67	67	67	67	67	67	67	67
68	68	68	68	68	68	68	68	68	68
69	69	69	69	69	69	69	69	69	69
70	70	70	70	70	70	70	70	70	70
71	71	71	71	71	71	71	71	71	71
72	72	72	72	72	72	72	72	72	72
73	73	73	73	73	73	73	73	73	73
74	74	74	74	74	74	74	74	74	74
75	75	75	75	75	75	75	75	75	75
76	76	76	76	76	76	76	76	76	76
77	77	77	77	77	77	77	77	77	77
78	78	78	78	78	78	78	78	78	78
79	79	79	79	79	79	79	79	79	79
80	80	80	80	80	80	80	80	80	80
81	81	81	81	81	81	81	81	81	81
82	82	82	82	82	82	82	82	82	82
83	83	83	83	83	83	83	83	83	83
84	84	84	84	84	84	84	84	84	84
85	85	85	85	85	85	85	85	85	85
86	86	86	86	86	86	86	86	86	86
87	87	87	87	87	87	87	87	87	87
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90	90	90	90	90	90	90	90	90	90
91	91	91	91	91	91	91	91	91	91
92	92	92	92	92	92	92	92	92	92
93	93	93	93	93	93	93	93	93	93
94	94	94	94	94	94	94	94	94	94
95	95	95	95	95	95	95	95	95	95
96	96	96	96	96	96	96	96	96	96
97	97	97	97	97	97	97	97	97	97
98	98	98	98	98	98	98	98	98	98
99	99	99	99	99	99	99	99	99	99
100	100	100	100	100	100	100	100	100	100

TOTAL TURES FOUND  
 TOTAL INDICATION FOUND

0.0

[illegible]



Steam Generator: E

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

Steam Generator: 2

QUERY: INDICATIONS 40% TW OR GREATER

[illegible]



TOTAL TUBES FOUND	=	6
TOTAL INDICATION FOUND	=	20

Steam Generator: 2

QUERY: INDICATIONS 40% TW OR GREATER

[illegible]

[illegible]

[illegible]

Plant: McGuire Unit 1  
Outage: 5/87

Steam Generator: D

QUERY: INDICATIONS 40% TW OF GREATER

[illegible]

## 6.0 Class 2 Inspection Results

Inspections were performed on Class 2 Piping Welds and Components Supports.

### 6.1 Piping

Twenty-eight (28) circumferential welds and ten (10) longitudinal seam welds one-half inch and less nominal wall thickness received dye penetrant examinations. No reportable indications were found.

### 6.2 Class 2 Component Supports

Sixty-one (61) Class 2 Component Supports received a visual examination as required by ASME Section XI, Article IWF-2000. No reportable conditions were found.

### 6.3 Class 2 Repairs and Replacements

Repairs and replacements for work performed from September 8, 1986 to November 11, 1987 are itemized in Section 11 of this report.

## 7.0 Augmented Inspection Results

Augmented inspections were performed on the Reactor Coolant Pump Flywheel, Pipe Rupture Protection and Steam Generator Feedwater Modification.

### 7.1 Reactor Coolant Pump Flywheel

Reactor Coolant Pumps 1A, 1B and 1C Flywheel received an ultrasonic examination in place. No reportable indications were found.

### 7.2 Pipe Rupture Protection

Three (3) welds on the Reactor Coolant System Pipe Rupture Protection received an ultrasonic and dye penetrant examination. No reportable indications were found.

### 7.3 Steam Generator Feedwater Modification

A visual examination was performed on Steam Generator 1C Feedwater Modification. No reportable conditions were found.

## 8.0 Personnel, Equipment, and Material Certifications

All personnel who performed or evaluated results of inservice inspections from September 8, 1986 to November 11, 1987 at McGuire 1 were certified in accordance with the requirements of the 1980 ASME Section XI with addenda through Winter 1980. The appropriate certification record for each Duke Power Company inspector is on file at McGuire Nuclear Station. The certification records for the Babcock and Wilcox inspectors are on file at the Babcock and Wilcox offices in Lynchburg, Virginia.

Records of periodic calibration of Babcock and Wilcox inspection equipment is on file at the Babcock and Wilcox offices in Lynchburg, Virginia. Records of periodic calibration of Duke inspection equipment is on file at McGuire Nuclear Station or in the Corporate offices in Charlotte, North Carolina.



## 9.0 Problem Investigation Reports

A copy of each Problem Investigation Report resulting in reportable items, originated against scheduled inservice inspections performed during Outage 4, is included in this section.

<u>P.I.R. No.</u>	<u>Description</u>	<u>Date Issued</u>
1-M87-0216	Steam Generators A, B,	09-18-87
including	C & D Tubing	09-29-87
Attachment 1		
1-M87-0256	Reportable Condition	10-13-87
	on Hanger 1MCR-NC-579	

COMPLETE FORM BY PRINTING WITH BLACK BALL POINT PEN OR TYPE

# DUKE POWER COMPANY NUCLEAR STATION

Problem Investigation Report Serial No. 1-457-0216Station McGuireInvestigation Report No. N/A

- I. Problem Occurred-Time/Date: 10A.M. 9-18-87 Discovered-Time/Date: Same  
 Units(s): 1 Unit Status At Time Problem Occurred/Discovered: \_\_\_\_\_  
 Description of Problem: During eddy current inspection of A and D steam generators, tubes were discovered that NPD determined must be plugged. According to enclosure 6.1 of QA procedure QA-125, important functions, such as maintaining reactor coolant pressure boundaries, shall require a PIR.

Location of Problem: Unit 1 - A and D steam generatorsMethod Used to Identify Problem: NoneImmediate Corrective Actions Taken/To Be Taken: Tubes will be plugged.Work Stoppage Notification (Form QCK-2A) Written ☐ Yes ☒ No; Serial No. \_\_\_\_\_

Information Sources/References (Work Requests, Document Violated, etc.): \_\_\_\_\_

Originated By: Thomas D. TroutmanDate: 9-18-87Dept./Group/Section QA / ISI

- II. Compliance Evaluation-Item/System Operable ☒ Yes ☐ No  
 Item Reportable ☒ Yes ☐ No Reportable Pursuant To: ☐ 50.73 Section \_\_\_\_\_  
☐ 50.72 Section \_\_\_\_\_ ☒ T.S. Section 4.1.5.5 ☐ Lic. Cond. Section \_\_\_\_\_ ☐ Part 21  
☐ Other \_\_\_\_\_ Evaluated By/Date: W. H. Hight 10/5-9/13/87  
 Comments: \_\_\_\_\_

- III. Telecon/ENS Report to NRC Time/Date: N/A  
 NRC Contactee(s): \_\_\_\_\_ DPC Contactor(s): \_\_\_\_\_  
 Telegraph/Mailgram/Facsimile Transmission to NRC-Date: \_\_\_\_\_  
 Date Notified: NRC Res. Inspector \_\_\_\_\_ Station Manager \_\_\_\_\_  
 General Office \_\_\_\_\_ Comments: \_\_\_\_\_

- IV. Incident Investigation Report Assigned To: N/A NRC Report Due Date: Sept 21, 1987  
 Date Due to Compliance after Evaluation: \_\_\_\_\_  
 PIR Review (Compliance): \_\_\_\_\_ Date: \_\_\_\_\_  
 PIR Station Manager Approval: \_\_\_\_\_ Date: \_\_\_\_\_

- V. Further Action/Evaluation Required ☒ Yes ☐ No (Explain Below):

Page 2 Assigned To: Nuclear Maintenance - 602Comments: Review Special Report per Tel Spec - 4/4/87 upon completion of ISI of Unit 1 S/G's, and submit to Library.Compliance Review W. H. Hight Date 9/15/87QA Review W. H. Hight Date 9/15/87

Trend Code (QA) \_\_\_\_\_

## Distribution

Initial	Originator	T.M.	MSK	Cl. Section	W. H. Hight	L. D. Davis	J. L. G. J.
George W. Troutman	DOT	W. H. Hight	W. H. Hight	W. H. Hight	W. H. Hight	W. H. Hight	W. H. Hight
Final	Originator	Supv.	Off. Rep.	T. R. H.	L. D. Davis	R. P. Ruth	W. H. Hight
T. Troutman	R. C. Hight	S. L. Roy	S. L. Roy	T. R. H.	L. D. Davis	R. P. Ruth	W. H. Hight

ATTACHMENT #1

COMPLETE FORM BY PRINTING WITH BLACK BALL POINT PEN OR TYPE

DUKE POWER COMPANY  
NUCLEAR STATIONProblem Investigation Report Serial No. 1-157-0216 AD.1Station McGuire

Investigation Report No. \_\_\_\_\_

I. Problem Occurred-Time/Date: 13:00 P.M. 9-29-87 Discovered-Time/Date: Same  
Units(s): 1 Unit Status At Time Problem Occurred/Discovered: \_\_\_\_\_Description of Problem: During eddy current inspection of B and C steam generators, tubes were discovered that NPD determined must be plugged. According to enclosure 6.1 of QA procedure QA-125, important fuctions, such as maintaining reactor coolant pressure boundaries, shall require a PIR.Location of Problem: Unit 1 - B and C steam generatorsMethod Used to Identify Problem: NoneImmediate Corrective Actions Taken/To Be Taken: Tubes will be plugged.Work Stoppage Notification (Form QCK-2A) Written ☐ Yes ☒ No; Serial No. \_\_\_\_\_

Information Sources/References (Work Requests, Document Violated, etc.): \_\_\_\_\_

Originated By: Thomas D. Troutman Date: 9-29-87 Dept./Group/Section QA / ISIII. Compliance Evaluation-Item/System Operable ☐ Yes ☐ NoItem Reportable ☐ Yes ☐ No Reportable Pursuant To: ☐ 50.73 Section \_\_\_\_\_☐ 50.72 Section \_\_\_\_\_ ☐ T.S. Section \_\_\_\_\_ ☐ Lic. Cond. Section \_\_\_\_\_ ☐ Part 21☐ Other \_\_\_\_\_ Evaluated By/Date: \_\_\_\_\_

Comments: \_\_\_\_\_

III. Telecon/ENS Report to NRC Time/Date: \_\_\_\_\_

NRC Contactee(s): \_\_\_\_\_ DPC Contactor(s): \_\_\_\_\_

Telegraph/Mailgram/Facsimile Transmission to NRC-Date: \_\_\_\_\_

Date Notified: NRC Res. Inspector \_\_\_\_\_ Station Manager \_\_\_\_\_

General Office \_\_\_\_\_ Comments: \_\_\_\_\_

IV. Incident Investigation Report Assigned To: \_\_\_\_\_

NRC Report Due Date: \_\_\_\_\_

Date Due to Compliance after Evaluation \_\_\_\_\_

PIR Review (Compliance): \_\_\_\_\_

Date: \_\_\_\_\_

PIR Station Manager Approval: \_\_\_\_\_

Date: \_\_\_\_\_

V. Further Action/Evaluation Required ☐ Yes ☐ No (Explain Below):

Page 2 Assigned To: \_\_\_\_\_

Comments: \_\_\_\_\_

Compliance Review \_\_\_\_\_

Date \_\_\_\_\_

QA Review \_\_\_\_\_

Date \_\_\_\_\_

Trend Code (QA) \_\_\_\_\_

## Distribution

Initial	Originator						
Final	Originator						

## PROBLEM INVESTIGATION REPORT

Page 2

PIR No. 1-187-1216

## VI. Proposed Resolution of Problem

See attached letter from  
DB Mays to R L Gill dated 10/5/87

Other Approved

DB Mays

Date

10/5/87

Approved

N/A

QA

Date

0.4 10-21-87

Approved

[Signature]

Date

10-8-87

Significant Corrective Action Evaluation Assigned To:

N/A

Serial No.

## VII. QA Verification Requirements

N/ABH21-87

Assigned To

Date

## VIII. Corrective Action Completed

Report transmitted to DRC copy  
is attached.

Approved

[Signature]

Date

## IX. QA Verification Results

N/ABH10-21-87

Completed By

Date

QA Approval

Date

Remarks

QA Review

Bucky MaysDate 10-21-87

COMPLETE FORM BY PRINTING WITH BLACK BALL POINT PEN OR TYPE

## DUKE POWER COMPANY NUCLEAR STATION

Problem Investigation Report Serial No. 1-1187-0256

Station McGuire

Investigation Report No. N/A

I. Problem Occurred-Time/Date: 9-22-87 Discovered-Time/Date: 13, October, 1987  
Units(s): 1 Unit Status At Time Problem Occurred/Discovered: Refueling Outage  
Description of Problem: During ISI inspection on hanger 1MCR-NC-579, a gap behind the base plate that exceeds 1/8th inch was found. The base plate anchor nuts are tight, but the base plate is loose and can be moved. On this S/R the mechanical snubber rod eye piece is out of the rod end. The clamp is rotated downward leaving the snubber in a bind. On 10-13-87 design engineering sent a QCL-14A ISI evaluation to show this S/R inoperable.  
Location of Problem: R. B. # 1 Fl. 727, in front of R RCP.  
Method Used to Identify Problem: This Report.  
Immediate Corrective Actions Taken/To Be Taken: \_\_\_\_\_

Work Stoppage Notification (Form QCK-2A) Written ☐ Yes ☒ No; Serial No. \_\_\_\_\_  
Information Sources/References (Work Requests, Document Violated, etc.): QA Procedure QCL-14  
Work request 59756 MNT.  
Originated By: Larry C Keith Date: 13 Oct., 1987 Dept./Group/Section QA/ISI

II. Compliance Evaluation-Item System Operable ☐ Yes ☒ No  
Item Reportable ☐ Yes ☒ No Reportable Pursuant To: ☐ 50.73 Section \_\_\_\_\_  
☐ 50.72 Section \_\_\_\_\_ ☐ T.S. Section \_\_\_\_\_ ☐ Lic. Cond. Section \_\_\_\_\_ ☐ Part 21  
☐ Other \_\_\_\_\_ Evaluated By/Date: Becky Hasty 10-13-87  
Comments: \_\_\_\_\_

III. Telecon/ENS Report to NRC Time/Date: N/A  
NRC Contactee(s): \_\_\_\_\_ DPC Contactor(s): \_\_\_\_\_  
Telegraph/Mailgram/Facsimile Transmission to NRC-Date: \_\_\_\_\_  
Date Notified: NRC Res. Inspector \_\_\_\_\_ Station Manager \_\_\_\_\_  
General Office \_\_\_\_\_ Comments: \_\_\_\_\_

IV. Incident Investigation Report Assigned To: N/A NRC Report Due Date: \_\_\_\_\_  
Date Due to Compliance after Evaluation: \_\_\_\_\_  
PIR Review (Compliance): \_\_\_\_\_ Date: \_\_\_\_\_  
PIR Station Manager Approval: \_\_\_\_\_ Date: \_\_\_\_\_

V. Further Action/Evaluation Required ☒ Yes ☐ No (Explain Below):  
Page 2 Assigned To: Mnt.  
Comments: \_\_\_\_\_

Compliance Review Becky Hasty Date 10-13-87 QA Review L. Keith Date 10/14/87  
Trend Code (QA) \_\_\_\_\_

### Distribution

Initial	Originator			
Final	Originator			

## PROBLEM INVESTIGATION REPORT

Page 2

PIR No. 1-M87-0256

VI. Proposed Resolution of Problem S/R is inoperable.  
Repair S/R in accordance with latest revision  
of sketch and appropriate specifications and  
site procedures.

Rod end should be replaced or spherical bearing  
reinserted and "staked" as required by appropriate  
site procedures. Spacers/washers should also be  
utilized as appropriate.

Other Approved \_\_\_\_\_ Date \_\_\_\_\_ Approved AGBATH 10/14/87  
 QA Date

Approved Ray R. B. Date 10/14/87  
 Significant Corrective Action Evaluation Assigned To: N/A AGBATH 10/14/87  
 Serial No. \_\_\_\_\_

VII. QA Verification Requirements Verify S/R repaired and Inspected.  
Also verify work complete on WR # 59756.

Assigned To QA Tech Support Date 10/21/87

VIII. Corrective Action Completed HANGER 1-MCR-NC-579 WAS REPAIRED IN ACCORDANCE  
WITH THE LATEST REVISION OF HANGER SKETCH PER APPROPRIATE  
SPECIFICATIONS AND PROCEDURES. GAP BEHIND BASE PLATE WAS SHIMED,  
SPHERICAL BEARING WAS RETAINED AND HANGER WAS RETARGUED. THE  
HANGER REPAIRS WERE PERFORMED PER WIR- 59756 WHICH HAVE BEEN  
COMPLETED. THE HANGER IS NOW OPERABLE. WIR- 10-16-87  
 Approved [Signature] Date 10/16/87

IX. QA Verification Results Work performed on WR # 59756 and is complete.  
QC accepted and signed 10-15-87 on WR # 59756 and  
QC 1-14A.  
 Completed By 57 Base 10/22/87 Date  
 QA Approval [Signature] 10/22/87 Date

Remarks CRIT XVI NOT REQUIRED - THIS IS ISE DISCREPANCY & CORRECTIVE ACTION  
WILL BE DETERMINED PER SECT AEC

QA Review [Signature] Date 10/22/87

10.0 Reference Documents

None

#### 11.0 Classes 1 and 2 Repairs and Replacements

As required by ASME Section XI 1980 Edition, a record of the Classes 1 and 2 Repairs and Replacements for work performed from 9/8/86 through 11/11/87 is provided and is included in this section of the report. The individual work request documents are on file at the McGuire Nuclear Station.



McGUIRE NUCLEAR STATION (Unit # 1) Nov. 19, 1987  
 REPAIRS/REPLACEMENT LOG (1986 - 1987)

UNIT	WORK REQ#	DESCRIPTION OF REPAIR OR REPLACEMENT
1 # 1	066008	REPAIR HANGER NS 5560
2 # 1	066009	REPAIR HANGER NS 5570
3 # 1	066010	REPAIR HANGER NS 5580
4 # 1	066011	REPAIR HANGER NS 5590
5 # 1	066049	REMOVE AND REPLACE INTERNALS
6 # 1	066155	VISUAL SNUBBER INSPECTION
7 # 1	066156	PERFORM PM/PT FOR MECHANICAL SNUBBERS
8 # 1	066162	SUPPORT ICE LOADING
9 # 1	066299	PERFORM PM/PT ON DIESEL ENGINE 1A
10 # 1	066301	PERFORM PM/PT HYDRAULIC SNUBBER
11 # 1	066302	PERFORM PM/PT VISUAL SNUBBER
12 # 1	070841	REPAIR 1 MND PU 0002
13 # 1	070842	REPAIR 1 MND PU 0001
14 # 1	070856	REPAIR 1 MNS PU 0001
15 # 1	070857	REPAIR 1 MNS PU 0002
16 # 1	071120	REPAIR SAFETY INJECTION PUMPS "1A"
17 # 1	071571	REPAIR MOTOR DRIVEN AUX FEEDWATER PUMP "1A"
18 # 1	071584	REPAIR MOTOR DRIVEN AUX FEEDWATER PUMP "B"
19 # 1	071591	REPAIR VALVE 1 MRM PU 0003
20 # 1	071620	REPAIR 1 MSA TA 0003
21 # 1	071647	REPAIR 1 MCA PU 0003
22 # 1	071655	PERFORM PRESSURE TEST ON FD SYSTEM
23 # 1	073905	REPAIR CONTAINMENT SPRAY PUMP AIR HANDLING UNIT
24 # 1	111798	REPAIR VALVE 10M-89
25 # 1	111962	REPAIR 1 MCF CN A107
26 # 1	121219	INSTALL HYDRO PUMP ON INI-278 SUCTION FROM 1FW-39
27 # 1	121696	REPAIR 1 MNI MI
28 # 1	122002	REPAIR VALVE-LEAKING PAST THE SEAT
29 # 1	122643	REPAIR 1 MFD TK 0043
30 # 1	125476	REPAIR 1 MFD LS 5060
31 # 1	125639	REPAIR 1 MCA MV 0025
32 # 1	125978	REPAIR 1 MRM ST 0002
33 # 1	126088	REPAIR STEAM LEAK
34 # 1	126156	REPAIR VALVE 1CA-32
35 # 1	126510	REPAIR STEM AND HANDWHEEL ON VALVE
36 # 1	126578	REBUILD THE VALVE SEAT FOR 1SA-2
37 # 1	126755	REPAIR STEAM LEAK ON SLUDGE LANCE COVER FOR 1A STM
38 # 1	126756	INSPECT UPPER MANWAY FOR 1B S/G-RETORQUE IF POSSIBLE
39 # 1	127136	REPAIR VALVE 15V1 AB (S/G PORV)
40 # 1	127265	REPAIR VALVE 1CA-32
41 # 1	127271	REPAIR 1 MCA PI 5010
42 # 1	127272	REPAIR 1 MFD LP 5040
43 # 1	127277	REPAIR 1 WI 47
44 # 1	127290	REPAIR VALVE 1CF-107
45 # 1	127304	THREAD & CAP STEM LEAK OFF LINE
46 # 1	127345	REPAIR LEAKING FITTINGS

47	x	1	x	127398	x	REPAIR 1 MNI EV 2550 B	x
48	x	1	x	127421	x	INVESTIGATE AND REPAIR 1 SV-07 PORV	x
49	x	1	x	127427	x	REPAIR 1 MI 103	x
50	x	1	x	127441	x	REPAIR 1 MND LP 5000 & 1 MNV LO 5220	x
51	x	1	x	127448	x	REPAIR 1MFW MV 0002	x
52	x	1	x	127647	x	REPAIR 1MNI PU 0010	x
53	x	1	x	127872	x	REPAIR VALVE 1RN-86A	x
54	x	1	x	128008	x	REPAIR VALVE 1CF-181	x
55	x	1	x	128153	x	REPAIR PROBLEM WITH NO AHU "1A"	x
56	x	1	x	128416	x	REPAIR VALVE 1ND-1B	x
57	x	1	x	128423	x	REPAIR 1KC 149	x
58	x	1	x	128540	x	REPAIR REACH ROD FOR 1NV-366	x
59	x	1	x	128574	x	REPAIR 1 MKD TT 5270	x
60	x	1	x	128578	x	REPAIR VALVE 1RN-174	x
61	x	1	x	128639	x	REPAIR KF VALVE	x
62	x	1	x	128678	x	REPAIR VALVE 1 SV-7	x
63	x	1	x	128734	x	REPAIR VALVE 1SV-1	x
64	x	1	x	128791	x	REPAIR 1 MBB CV 0010 B	x
65	x	1	x	128902	x	REPAIR 1 MCA MV 0062 A	x
66	x	1	x	128923	x	REPAIR 1 MNI EV 0090 A	x
67	x	1	x	128956	x	REPAIR VALVE 1CF-20	x
68	x	1	x	128972	x	REPAIR VALVE 1CF-35	x
69	x	1	x	128976	x	REPAIR 1 MCF ME	x
70	x	1	x	129035	x	REPAIR 1MNC FT 5000	x
71	x	1	x	129080	x	REPAIR VALVE 1 RV-32A	x
72	x	1	x	129086	x	REPAIR 1 MNI LP 5270 & 1 MNI LT 5270	x
73	x	1	x	129097	x	REPAIR VALVE 1CF-151	x
74	x	1	x	129137	x	REPAIR BRIDGE DRIVE GEAR BOX	x
75	x	1	x	129157	x	REPAIR VALVE 1CA-18	x
76	x	1	x	129166	x	REPAIR 1 MNC LP 5150 & 1 MNC LP 5160	x
77	x	1	x	129171	x	REPAIR VALVE 1CA-40	x
78	x	1	x	129173	x	REPAIR 1CA-44	x
79	x	1	x	129236	x	REPAIR 1 MNV-292	x
80	x	1	x	129239	x	REPAIR VALVE 1CF-23	x
81	x	1	x	129252	x	CONNECT HANDWHEEL ASSEMBLY	x
82	x	1	x	129267	x	REPAIR 1 MKF MV 0025	x
83	x	1	x	129272	x	REPAIR 1 MKF MV 0005	x
84	x	1	x	129286	x	REPAIR 1MND MV 0080	x
85	x	1	x	129287	x	REPAIR 1 MNR MV 0092	x
86	x	1	x	129288	x	REPAIR 1 MNR MV 0094	x
87	x	1	x	129394	x	REPAIR 1 MKC PU 0002	x
88	x	1	x	129402	x	REPAIR 1 NF 2338	x
89	x	1	x	129412	x	REPAIR VALVE 1RN-42A	x
90	x	1	x	129423	x	REPAIR VALVE 1FW-59	x
91	x	1	x	129442	x	REPAIR 1 MNC CA 9010	x
92	x	1	x	129463	x	REPAIR 1 RN 89	x
93	x	1	x	129486	x	REPAIR 1NM-25	x
94	x	1	x	129500	x	REPAIR VALVE 1 MCF EV 1270 B	x
95	x	1	x	129502	x	REPLACE PRT RUPTURE DIAPHRAGM	x
96	x	1	x	129517	x	REPAIR 1 MNV-267A	x
97	x	1	x	129518	x	REPAIR 1 MNV-238	x

98	x	1	x	129523	x	REPAIR 1 MCF LP 5520	x
99	x	1	x	129537	x	REPAIR LEAK ON FLOW INST LINES	x
100	x	1	x	129610	x	REPAIR 1CA-4B	x
101	x	1	x	129641	x	REPAIR 2 MMN EV 0410	x
102	x	1	x	129650	x	REPAIR 1 MCF LP 5520	x
103	x	1	x	129695	x	REPAIR SEAT/DISC LEAK ON VALVE	x
104	x	1	x	129866	x	REPAIR LEAKING SNUBBER FITTING	x
105	x	1	x	129877	x	REPAIR 1MNC LP 5500	x
106	x	1	x	129907	x	REPAIR 1MNI MV 0152 B	x
107	x	1	x	129914	x	REPLACE FILTER 1B2	x
108	x	1	x	129918	x	REPAIR LOWER FLANGE ON NS/ND HEAT EXCHANGER "1B"	x
109	x	1	x	129939	x	REPAIR 1KC-320	x
110	x	1	x	129957	x	REPAIR VALVE 1 MMN FT 5260	x
111	x	1	x	129974	x	REPAIR 1 MKF MV 0032	x
112	x	1	x	129977	x	REPAIR 1 MKF MV 0026	x
113	x	1	x	129980	x	REPAIR 1 MK FE 5100	x
114	x	1	x	129988	x	REPAIR VALVE 1BN-171	x
115	x	1	x	129992	x	REPAIR 1MM-260	x
116	x	1	x	130094	x	REPAIR 1 MNU-9	x
117	x	1	x	130096	x	REPAIR 1 MNI FT 5120	x
118	x	1	x	130097	x	REPAIR 1 MKF MV 0001	x
119	x	1	x	130113	x	REPAIR VALVE 1 MMN FE 5710	x
120	x	1	x	130205	x	REPLACE FILTER 1B1	x
121	x	1	x	130248	x	REPAIR 1MNC LT 6680	x
122	x	1	x	130254	x	REPAIR 1 MCF FT 5060	x
123	x	1	x	130289	x	REPAIR 1 MBB MV 0001 B	x
124	x	1	x	130315	x	REPAIR VALVE 1 MCF CV 1070 AB	x
125	x	1	x	130329	x	REPAIR 1 MNC FT 5010	x
126	x	1	x	130326	x	REPAIR VALVE 1BN-89 A	x
127	x	1	x	130354	x	REPAIR VALVE	x
128	x	1	x	130377	x	REPAIR 1 MFW PG 5110	x
129	x	1	x	130454	x	REPAIR VALVE 1 SV-1	x
130	x	1	x	130495	x	REPAIR 1NI47A	x
131	x	1	x	130670	x	REPAIR MOTOR DRIVEN CA PUMP	x
132	x	1	x	130714	x	REPAIR 1 MMN FT 5080	x
133	x	1	x	130729	x	REPAIR VALVE 1 SV-1	x
134	x	1	x	130814	x	REPAIR VALVE 1 SV-7	x
135	x	1	x	130866	x	REPAIR HYDRAULIC FLUID LEAK ON SNUBBER	x
136	x	1	x	130869	x	REPAIR 1 MCA SV 0561	x
137	x	1	x	131170	x	REPAIR VE TRAIN 1A FILTER	x
138	x	1	x	131246	x	REPAIR 1CF-137A	x
139	x	1	x	131251	x	REPAIR 1 MCF LP 5490	x
140	x	1	x	131257	x	REPAIR 1 MNC LP 5500	x
141	x	1	x	131359	x	REPAIR 1MNC LP 5810	x
142	x	1	x	131359	x	REPAIR EXCESS LD HX	x
143	x	1	x	131775	x	REPAIR 1NV-131	x
144	x	1	x	131776	x	REPAIR 1MNC LP 5540	x
145	x	1	x	131442	x	REPAIR VALVE 1CA-7	x
146	x	1	x	131717	x	REPAIR 1NV-142	x
147	x	1	x	131719	x	REPLACE VALVE 1NV-829	x
148	x	1	x	131731	x	REPAIR 1CF-30	x

149	x	1	x	131743	x	REPAIR INV-459	x
150	x	1	x	131802	x	REPLACE VALVE INV-854	x
151	x	1	x	132016	x	REPAIR MIXED BED DEMINERALIZER	x
152	x	1	x	132312	x	REPAIR VALVE 1 SV-1	x
153	x	1	x	132322	x	REPAIR 1 MCA PU 0002	x
154	x	1	x	132330	x	REPAIR 1 MMC PI 5503	x
155	x	1	x	132556	x	REPAIR 1 KG 320	x
156	x	1	x	132568	x	REPAIR 1 MSM LP 5120	x
157	x	1	x	133174	x	REPAIR HANGER 1 MKF PG 5010	x
158	x	1	x	38893	x	REPAIR 1 MNM MV 0409	x
159	x	1	x	38909	x	REPAIR LEAK ON ROOT VALVE	x
160	x	1	x	38925	x	REPAIR 1 MNM DP	x
161	x	1	x	38944	x	ADJUST TRAVEL STOP ON DIAPHRAGM VALVE INB67	x
162	x	1	x	38947	x	CHECK AND REPAIR AS NECESSARY NO 10	x
163	x	1	x	38991	x	REPAIR 1 MND PG 5200	x
164	x	1	x	38992	x	REPAIR 1 MND PG 5210	x
165	x	1	x	38993	x	REPAIR 1 MND PG 5050	x
166	x	1	x	38994	x	REPAIR 1 MND PG 5040	x
167	x	1	x	38995	x	REPAIR 1 MND PG 5041	x
168	x	1	x	39297	x	REPAIR 1 FW 15	x
169	x	1	x	39303	x	REPAIR VALVE 1KC-455	x
170	x	1	x	39359	x	REPAIR 1 MWG MV 0082	x
171	x	1	x	39361	x	REPAIR VALVE WS-16	x
172	x	1	x	39577	x	REPAIR 1 MNB MV 0067	x
173	x	1	x	39592	x	REPAIR 1 MNB MV 0345	x
174	x	1	x	39593	x	REPAIR 1 MNB MV 0347	x
175	x	1	x	39595	x	REPAIR CHECK VALVE 1 WG-6	x
176	x	1	x	39597	x	REPAIR VALVE 1WG-10	x
177	x	1	x	39597	x	REPAIR CHECK VALVE 1 WG-10	x
178	x	1	x	39598	x	REPAIR CHECK VALVE 1 WG-17	x
179	x	1	x	39598	x	REPAIR VALVE 1 WG-17	x
180	x	1	x	41904	x	REPAIR LEAK ON INVB25	x
181	x	1	x	42455	x	REPAIR LEAKING SNUBBER	x
182	x	1	x	55396	x	INSPECT IMPELLER WEAR RINGS	x
183	x	1	x	56268	x	REMOVE, INSPECT, & INSTALL NEW SEALS IN 1B RCP	x
184	x	1	x	57007	x	REPAIR 1 MCF CM 8107	x
185	x	1	x	57735	x	REPAIR VALVE 1SB-18	x
186	x	1	x	57740	x	REPAIR VALVE 1 SB-15	x
187	x	1	x	58244	x	REPAIR HANGER 1 MNI HG H102	x
188	x	1	x	58632	x	REPAIR 1KC 23	x
189	x	1	x	58655	x	ADJUST THE ACTUATOR SPRING COMPRESSION	x
190	x	1	x	58704	x	TIGHTEN LOCK NUT ON SNUBBER	x
191	x	1	x	58718	x	REPAIR 1 MCA PU 0002	x
192	x	1	x	58765	x	REPLACE THE SNUBBER ON HANGER	x
193	x	1	x	58820	x	REPAIR SNUBBER ON HANGER	x
194	x	1	x	58821	x	REPAIR RESERVOIR ON SNUBBER	x
195	x	1	x	59114	x	REPAIR VALVE 1FOPG-5110	x
196	x	1	x	59115	x	REPAIR VALVE 1FOPG-5030	x
197	x	1	x	59226	x	REPLACE INBOARD AND OUTBOARD MECH SEALS	x
198	x	1	x	59406	x	GFAR BOX SEALS NEED REPLACING & FLMP SEAL LEAKING	x
199	x	1	x	59407	x	REPLACE 1 MLD PU 0021	x

200	*	1	*	59407	*	GEAR BOX SEALS NEED REPLACING	*
201	*	1	*	59408	*	PUMP SEALS NEEDS REPLACING	*
202	*	1	*	59411	*	REPAIR PUMP 1 MLD PU 0022	*
203	*	1	*	59411	*	PUMP NEEDS REBUILDING	*
204	*	1	*	59549	*	REPLACE PUMP BASE BOLTS WITH A-325 BOLTS (4 BOLTS)	*
205	*	1	*	59659	*	REPAIR HANGER 1 MND HG H027	*
206	*	1	*	59661	*	REPAIR HANGER 1 MND HG H059	*
207	*	1	*	59684	*	REPAIR COIL LEAK ON RHR UNIT 1A	*
208	*	1	*	59693	*	REPAIR HANGER 1 MNI SC 6160	*
209	*	1	*	59782	*	RETORQUED LOOSE CLAMP BOLT	*
210	*	1	*	59785	*	TORQUE ON FLANGE FE 6250	*
211	*	1	*	59756	*	REPAIR SVR NC HG 0579	*
212	*	1	*	65128	*	REPLACE DRAGON VALVES	*
213	*	1	*	65516	*	REPAIR 1 MVX PS 9200	*
214	*	1	*	65688	*	REPAIR 1 MBR SV 0050	*
215	*	1	*	66032	*	REPAIR 1 MCA EV 0090 B	*
216	*	1	*	66033	*	REPAIR 1 MCA EV 0110A	*
217	*	1	*	66034	*	REPAIR 1 MCA EV 0460 B	*
218	*	1	*	66458	*	REPAIR 1 MSM LL 0120	*
219	*	1	*	66541	*	REPAIR VALVE 1 MNC EV 0330 A	*
220	*	1	*	66772	*	REPLACE PILOT VALVE ASSEMBLY	*
221	*	1	*	66800	*	INSPECT ROTORK ACTUATORS	*
222	*	1	*	66869	*	REPAIR 1 MYC EV 0990 B	*
223	*	1	*	66878	*	REPAIR 1 MYC EV 0830 B	*
224	*	1	*	66922	*	REPAIR 1 MYC EV 0990 B	*
225	*	1	*	66924	*	REPAIR 1MNC EV 0530 B	*
226	*	1	*	66935	*	REPAIR 1 MNI TB ,ATB 149	*
227	*	1	*	66941	*	REPAIR VALVE 10N-1628	*
228	*	1	*	66943	*	REPAIR 1 MWL EV 0390 A	*
229	*	1	*	66955	*	REPAIR 1 MMS EV 0010 B	*
230	*	1	*	66959	*	REPAIR 1 MMN EV 1900 A	*
231	*	1	*	66963	*	REPAIR MND EV 0670 B	*
232	*	1	*	73759	*	REPAIR 1MNC MV 0036 B	*
233	*	1	*	73774	*	REPAIR 1 MNI LP 6860	*
234	*	1	*	73814	*	REPAIR 1 NI EV 08	*
235	*	1	*	73820	*	REPAIR 1 MND HG H333	*
236	*	1	*	74028	*	REPAIR COOLLINE COILS ON 1A HD PUMP AHC	*
237	*	1	*	74052	*	REPAIR HANGER 1 MNV HG 1064	*
238	*	1	*	74053	*	REPAIR HANGER 1 MNV HG 1063	*
239	*	1	*	74054	*	REPAIR HANGER 1 MSM HG 0097	*
240	*	1	*	74126	*	PERFORM PRESSURE TEST FD SYSTEM	*
241	*	1	*	74129	*	ROTATE SNUBBER	*
242	*	1	*	74130	*	RESET SNUBBER	*
243	*	1	*	74131	*	RETORQUE LOCK NUT	*
244	*	1	*	85504	*	REPAIR 1 MNI EV 2550 B	*
245	*	1	*	86782	*	INSPECT CLAPPER AND VALVE SEAT FOR STEAM EROSION	*
246	*	1	*	86824	*	REPAIR 1 MND TE 7510	*
247	*	1	*	86885	*	REPAIR VALVE 1XC 3	*
248	*	1	*	86888	*	REPAIR 1MNC CV 0020 B	*
249	*	1	*	86988	*	REPAIR PACKING LEAK ON 1 S45	*
250	*	1	*	87085	*	REPAIR 1 MWL EV 0410 B	*

231	X	1	X	87123	X	REPAIR 1 MCF FT 5000	X
232	X	1	X	87145	X	REPAIR 1MNC SV 2740 B	X
233	X	1	X	87152	X	REPAIR 1CA-48A8	X
234	X	1	X	87167	X	REPAIR 1MNC LP 5540	X
235	X	1	X	87170	X	REPAIR 1MNC LP 5140	X
236	X	1	X	87180	X	REPAIR VALVE 1RN-140A	X
237	X	1	X	87205	X	REPAIR 1MNC SV 2730 AC	X
238	X	1	X	87228	X	ROG OUT CLEAN TUBES OF 2A KC HEAT EXCHANGER	X
239	X	1	X	87251	X	REPAIR VALVE PENETRATIONS	X
240	X	1	X	87253	X	REPAIR VALVE PENETRATIONS	X
241	X	1	X	87254	X	REPAIR VALVE PENETRATIONS	X
242	X	1	X	87256	X	REPAIR VALVE 1CF-105	X
243	X	1	X	87257	X	REPAIR VALVE 1CF-106	X
244	X	1	X	87258	X	REPAIR 1 MCA EV 0500 B	X
245	X	1	X	87259	X	REPAIR 1 MCA EV 0540 AC	X
246	X	1	X	87261	X	REPAIR 1 MCA EV 1610 C	X
247	X	1	X	87305	X	REPAIR VALVE 1CA-32B	X
248	X	1	X	87306	X	REPAIR VALVE 1CA-27A	X
249	X	1	X	87336	X	REPAIR VALVE 1RN-89 A	X
270	X	1	X	87389	X	OPEN AND CLEAN 1 RN 121	X
271	X	1	X	87391	X	REPAIR VALVE 1CA-32B	X
272	X	1	X	87397	X	REPAIR VALVE 1 MGN FE 5710	X
273	X	1	X	87433	X	REPAIR 1NN-26B	X
274	X	1	X	87567	X	REPAIR VALVE 1 MRN MV 0861	X
275	X	1	X	87628	X	REPAIR 1 MNF CV 2330 B	X
276	X	1	X	87919	X	REPAIR LEAK ON 1NR262	X
277	X	1	X	92952	X	REPAIR 1MND FT 5181	X
278	X	1	X	92953	X	REPAIR 1ND FT 5190	X
279	X	1	X	94434	X	REPAIR VALVE 1 MCF EV 1270 B	X
280	X	1	X	94539	X	INSTALL FLANGES ON HS DRAIN LINES	X
281	X	1	X	94772	X	REPAIR 1 MFD LS 3040 & 1 MFD LS 3041	X
282	X	1	X	94795	X	MODIFY 5/8 1MCA-KCI-5640 AS PER VN MEVN775	X
283	X	1	X	94795	X	REPAIR HANGER 1 MKC HG 5640	X
284	X	1	X	94818	X	REPAIR 1 MGN PU 0093	X
285	X	1	X	94852	X	FABRICATE ORIFICE PLATE FOR 1RMF5879	X
286	X	1	X	94912	X	REPAIR OIL SEAL	X
287	X	1	X	94913	X	REPAIR OIL SEAL	X
288	X	1	X	94914	X	REPAIR OIL SEAL	X
289	X	1	X	94915	X	REPAIR OIL SEAL	X
290	X	1	X	94920	X	REPAIR HANGER 1 MGN HG 4938	X
291	X	1	X	95037	X	REPAIR HANGER 1 NI 0693	X
292	X	1	X	95208	X	PLUG TUBES IN STEAM GENERATOR	X
293	X	1	X	95209	X	PLUG TUBES IN STEAM GENERATOR	X
294	X	1	X	95210	X	PLUG TUBES IN STEAM GENERATOR	X
295	X	1	X	95211	X	PLUG TUBES IN STEAM GENERATOR	X
296	X	1	X	130376	X	REPAIR 1 MV 244	X
297	X	1	X	130783	X	REPAIR 1 NI 67	X
298	X	1	X	130704	X	REPAIR 1 MV 13	X
299	X	1	X	39551	X	REPLACE ALL MOTOR BASE & PUMP BASE BOLTS	X
300	X	1	X	87836	X	REPAIR 1 RV 32A	X
301	X	1	X	95329	X	IMPLEMENT NSM MG 1 1768/00. VERIFY HANGERS 1MCR NI 605	X



302	X	1	X	068821	X	PERFORM PM/REPLACE VALVE & ACTUATOR DIAPHRAGM	X
303	X	1	X	130511	X	REPAIR SEAT LEAK ON 1 RN 2358	X
304	X	1	X	59846	X	TIGHTEN BOLTS ON PIPE CLAMP	X
305	X	1	X	59858	X	WALK DOWN SYSTEM FROM KC PUMPS	X
306	X	1	X	87829	X	REPAIR VALVE 1NI 47A	X
307	X	1	X	87880	X	REPAIR CHECK VALVE 1 VI 149	X
308	X	1	X	94524	X	REPLACE COVER PLATE	X
309	X	1	X	061639	X	PERFORM PM OIL ANALYSIS ON O/G "A"	X
310	X	1	X	066299	X	PERFORM PM/PT ON DIESEL ENGINE 1A	X
311	X	1	X	066455	X	REPLACE VALVE DIAPHRAGM, REPLACE ACTUATOR DIAPHRAGM AND O-RINGS	X
312	X	1	X	066466	X	PERFORM PM/PT ON VALVE 1CA-165, INSERVICE INSPECTION	X
313	X	1	X	048818	X	PERFORM PM/REPLACE VALV DIAPHRAGM ACTUATOR DIAPHRAGM	X
314	X	1	X	068825	X	REPLACE VALVE DIAPHRAGM AND O-RINGS	X
315	X	1	X	068826	X	REPLACE VALVE DIAPHRAGM AND O-RINGS	X
316	X	1	X	068840	X	PERFORM PM ON AIR HANDLE UNITS FOR VLV 1 NF 23AA	X
317	X	1	X	068842	X	PERFORM PM ON AIR HANDLING UNITS FOR VLV 1 NF 228A	X
318	X	1	X	069930	X	PERFORM PM ON COMPONENT COOLING PUMP "1B2"	X
319	X	1	X	070092	X	ROD OUT TUBES ON SAFETY INJECTION PUMP MOTOR COOLER 1A	X
320	X	1	X	124029	X	REPAIR VALVE 1 VG 52	X
321	X	1	X	126490	X	REBUILD VALVE SEAT FOR SA-1	X
322	X	1	X	127325	X	REPAIR FLANGE LEAK ON RELIEF VALVE 1 NV 155	X
323	X	1	X	128252	X	CONNECT HANDWHEEL ASSEMBLY TO VALVE YOKE	X
324	X	1	X	129462	X	REPAIR CONO SEAL	X
325	X	1	X	129962	X	ADJUST PACKING IN AN ATTEMPT TO STOP LEAK	X
326	X	1	X	130002	X	ADJUST PACKING ON 1 RN 130A	X
327	X	1	X	130510	X	REPAIR SEAT LEAK ON 1 RN 134A	X
328	X	1	X	130948	X	PERFORM AN INTERNAL INSPECTION OF 1 NV 238	X
329	X	1	X	131969	X	INVESTIGATE AND REPAIR 1 NV 337	X
330	X	1	X	131998	X	REPAIR AND INVESTIGATE 1 RN 190	X
331	X	1	X	58011	X	REPLACE OIL COOLER PACKING ON 1A MC MOTOR	X
332	X	1	X	58014	X	REPLACE OIL COOLER PACKING ON 1D MC MOTOR	X
333	X	1	X	58174	X	REMOVE AND INSTALL NEW PUMP SEALS ON 1B REACTOR COOLANT PUMP	X
334	X	1	X	18571	X	INSPECT, SAND BLAST AND PAINT INTERIOR OF STARTING AIR TANKS	X
335	X	1	X	56720	X	VERIFY 1D STEAM GENERATOR SLUDGE LANCE PORTS	X
336	X	1	X	59800	X	REPLACE NUT ON NUMBER 1 SEAL LEAK OFF LINE FLANGE	X
337	X	1	X	67444	X	INVESTIGATE AND REPAIR BINDING PROBLEM INSIDE VLV 1 CA 86	X
338	X	1	X	73895	X	PROVIDE SUPPORT FOR 1B DIESEL FUEL OIL TANK CLEANING	X
339	X	1	X	87797	X	CLEAN NO 1A ESS AIR HANDLING UNIT	X
340	X	1	X	87799	X	INVESTIGATE AND REPAIR 1 VE 68	X
341	X	1	X	93996	X	REMOVE BONNET COVER FOR 1 NI 82	X
342	X	1	X	93998	X	REMOVE BONNET COVER FROM VLV TO BE INSTALLED FOR 1 NI 94	X
343	X	1	X	94079	X	INSTL 1" 6000# STAIN STEEL SOCK WELD COUPL IN RX VESSEL HEAD	X
344	X	1	X	94819	X	IMPLEMENT NSM NO 11849 FOR TRAIN B	X
345	X	1	X	951996	X	REPLACE VALVE 1NI59 & 1NI60 WITH NEW VALVE	X
346	X	1	X	951997	X	REPLACE VALVE 1NI70 & 1NI71 WITH NEW VALVE	X
347	X	1	X	951998	X	PREFAB SUBASSEMBLIES FOR 1NI59 & 1NI70	X
348	X	1	X	952031	X	REROUTE WL PIPING	X
349	X	1	X	95018	X	INSTALL NEW 1" LINE TO VALVE 1SV1	X

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