

SYSTEM ENERGY RESOURCES, INC.
GRAND GULF NUCLEAR STATION, UNIT 1
PUMP AND VALVE INSERVICE TESTING PROGRAM

SPECIFICATION NO.: SERI-M-189.1
REVISION NO.: 3
DATE: 4/27/88

SYSTEM ENERGY RESOURCES, INC.
GRAND GULF NUCLEAR STATION, UNIT 1
PUMP AND VALVE INSERVICE TESTING PROGRAM

SAFETY RELATED

SAFETY EVALUATION APPLICABILITY REVIEW		
	Yes	No
(1) Change to facility as desc. in FSAR	___	✓
(2) Change to procedure as desc. in FSAR	___	✓
(3) Proposed test or experiment not desc. in FSAR	___	✓
(4) Change to Tech. Specs.	___	✓
(If Yes, perform 10CFR50.59 Safety Evaluation)		
Safety Evaluation No.	N/A	
RE: <u><i>[Signature]</i></u>	Date:	<u>1-28-88</u>
GS: <u><i>[Signature]</i></u>	Date:	<u>25 Jun 88</u>
CPE: <u><i>[Signature]</i></u>	Date:	<u>2/1/88</u>

8806010061 880524
PDR ADOCK 05000416
P DCD

REVIEW AND APPROVAL SHEET

SPECIFICATION NO.: SERI-M-189.1 REVISION: 3

SPECIFICATION TITLE: PUMP AND VALVE INSERVICE TESTING PROGRAM

This document specifies items related to nuclear safety YES NO

Signatures certify that the above specification was originated, verified, reviewed or waived and approved as noted below:

ORIGINATED BY: [Signature] DATE 1-28-88

VERIFIED BY: [Signature] #OC 4/13/88 DATE 2-8-88

REVIEWED BY: [Signature] DATE 13 Apr 88
Cognizant Group Supervisor

NPE SECTION REVIEWED BY REVIEW WAIVED BY DATE

ELECTRICAL [Signature] 4/13/88

CIVIL [Signature] 4/13/88

MECHANICAL [Signature] 4/26/88

QUALITY ENGINEER: [Signature] DATE: 4/26/88

ANII: [Signature] DATE: 4-27-88

APPROVED: [Signature] DATE: 4-27-88
Director, Nuclear Plant Engineering

REVISION STATUS SHEET

STANDARD REVISION SUMMARY

REVISION	ISSUE DATE	DESCRIPTION
0	---	---
1	6/28/85	Added MP&L specification number, revised page numbering format, revised data as noted, and issued for use.
2	11/24/86	Revised per DCP 81/5007, 84/0091-3, 86/4000, 83/3515, 84/4072, 86/0083, 82/5020 and 82/5020-1, and as noted. Issued for use.
3	4/27/88	Revised per SCN 87/0001, SCN 87/0002, SCN 87/0003, Engineering Markups issued 10/13/87, Engineering Markups issued 1/1/88, QDR 510-87, and as noted. Revised page formats and specification number and title.

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APPENDIX REVISION STATUS

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MISSISSIPPI POWER & LIGHT COMPANY
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Relief Request P75-4

Relief Request P75-5

Relief Request P81-1

Relief Request P81-2

Valve Summary Listing

1

By System Number

P&ID Number

B21

M-1077A, B, C

B33

M-1078A, B

C11

M-1081A, B

C41

M-1082

D23

M-1110

E12

M-1085A, B

E21

M-1087

E22

M-1086

E30

M-1096

E32

M-1097

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E51	M-1083A, B
E61	M-1091
G33	M-1079
G36	M-1080B
G41	M-1088C, D
G46	M-1089
M41	M-1100A, B & 1101
M61	M-1111A
M71	M-1110A
P11	M-1065
P21	M-0033B
P41	M-1061A, B, C, D
P42	M-1063A, B
P44	M-1072A, B
P45	M-1094A, B, C
P52	M-1068A
P53	M-1067A, E
P60	M-1099
P64	M-0035E, E
P66	M-0034B
P71	M-1109A, D
P75	M-1070A, B, C, D
P81	M-1093A, B, C
T41	M-1103A
T42	M-1104A
T48	M-1102A, B
Z51	M-0049

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Generic Relief Request 1	

Pump Summary Listing

<u>By System Number</u>	<u>P&ID Number</u>
C41	M-1082
E12	M-1085A, B
E21	M-1087
E22	M-1086
E51	M-1083A, B
P41	M-1061A, B, C, D
P75	M-1070A, B, C, D
P81	M-1093A, B, C

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<u>System Number</u>	<u>Name of System</u>	<u>P&ID Number*</u>	<u>P&ID Revision</u>	<u>SFD Drawing Number*</u>	<u>SFD Revision</u>
B21	Nuclear Boiler System	1077A 1077B 1077C	19 16 17	1077	3
B33	Reactor Recirculation System	1078A 1078B	15 8	1078	3
C11	Control Rod Drive Hydraulic System	1081A 1081B	16 15	1081	2
C41	Standby Liquid Control System	1082	13	1082	1
D23	Ctmt & Drywell Instrument and Control Systems	1110A	11	-	-
E12	Residual Heat Removal System	1085A 1085B	25 23	1085 Sh. 1 1085 Sh. 2	1 3
E21	Low Pressure Core Spray System	1087	19	1087	3
E22	High Pressure Core Spray System	1086	18	1086	1
E30	Suppression Pool Makeup System	1096	12	1096	0
E32	MSIV Leakage Control System	1097	10	1097	1
E38	Feedwater Leakage Control System	1112	6	1112	0
E51	Reactor Core Isolation Cooling System	1083A 1083B	17 17	1083A 1083B	4 4
E61	Combustible Gas Control Systems	1091	13	1091	2

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<u>System Number</u>	<u>Name of System</u>	<u>P&ID Number*</u>	<u>P&ID Revision</u>	<u>SFD Drawing Number*</u>	<u>SFD Revision</u>
G33	Reactor Water Cleanup System	1079	14	1079	3
G36	Filter/Demineralizer System	1080B	10	1080 Sh. 1 1080 Sh. 2	1 1
G41	Fuel Pool Cooling and Cleanup System	1088C 1088D	14 9	1098	4
G46	Filter/Demineralizer System	1089	17	1089	3
M41	Containment Cooling System	1100A 1100B 1101	13 11 8	1100 1101	4 3
M61	Ctmt. Leak Rate Test System	1111A	7	1111	0
M71	Ctmt & Drywell Instrument and Control Systems	1110A	11	-	-
P11	Condensate And Refueling Water System	1065	17	1065	3
P21	Makeup Water Treatment System	0033B	25	0033A 0033B	1 2
P41	Standby Service Water System	1061A 1061B 1061C 1061D	17 17 15 14	1061A 1061B 1061C 1061D	3 4 3 3
P42	Component Cooling Water System	1063A 1063B	12 15	1063A 1063B	4 4
P44	Plant Service Water System	1072A 1072B	15 18	1072A 1072B	1 1
P45	Floor and Equipment Drain System	1094A 1094B 1094C	17 13 16	1094 Sh. 1 1094 Sh. 2	4 0

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<u>System Number</u>	<u>Name of System</u>	<u>P&ID Number*</u>	<u>P&ID Revision</u>	<u>SFD Drawing Number*</u>	<u>SFD Revision</u>		
P52	Service Air System	1068A	20	1068 Sh. 1	4		
				1068 Sh. 2	4		
P53	Instrument Air System	1067A 1067E	22 6	1067 Sh. 1	3		
				1067 Sh. 2	4		
				1067 Sh. 3	4		
P60	Suppression Pool Cleanup System	1099	8	1099	0		
P64	Fire Protection System	0035B 0035E	20 10	0035	3		
P66	Domestic Water System	0034B	18	0034	2		
P71	Plant Chilled Water System	1109A 1109D	14 11	1109A	3		
				1109B	4		
				1109C	2		
				1109D	4		
				1109E	2		
				1109F	6		
P75	Standby Diesel Generator System	1070A 1070B 1070C 1070D	14 14 7 6	1070	0		
P81	HPCS Diesel Generator System	1093A 1093B 1093C	4 7 7	1093	0		
T41	Auxiliary Building Ventilation System	1103A	3	1103	5		
T42	Fuel Handling Area Vent System	1104A	12	1104A	4		
				1104B	4		
T48	Standby Gas Treatment System	1102A 1102B	8 4	1102	2		
Z51	Control Room HVAC	0049	16	0049	4		

*All P&ID and SFD numbers referenced in this section and throughout this specification are Bechtel (Job No. 9645) numbers.

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This specification contains the details for the Preservice and the initial 120-month Inservice Testing of ASME Class 1, 2, and 3 pumps and valves installed at the Grand Gulf Nuclear Station (GGNS) Unit 1.

Commencing with the Preoperational/Acceptance Test Program, baseline data for all applicable ASME Class 1, 2, and 3 pumps and valves will be collected. The initial 120-month Inservice Testing Program will commence with commercial operation.

Based on the operating license date of June 16, 1982, 10 CFR 50 requires that the Grand Gulf Unit 1 10-year ISI plan comply with the 1977 Edition of the ASME Boiler and Pressure Vessel Code, Section XI, with Addenda through and including Summer 1979. However, paragraph 10 CFR 50.55a(g)(4)(iv) permits the use of subsequent editions and addenda, provided that all related requirements of the respective editions or addenda are met. The testing program for pumps and valves is in accordance with the ASME Section XI Code, 1980 Edition, and Addenda through Winter 1980 (Subsections IWA, IWP, and IWV), which was incorporated into 10 CFR 50 by the Federal Register dated December 31, 1981, Volume 46, No. 251.

The ASME Code requirements were applied to safety-related valves and those safety-related pumps with an emergency power source. Safety-related pumps and valves are those necessary to safely shut down the plant or that may mitigate the consequences of an accident. Some additional leak testing requirements at high/low pressure boundaries in reactor coolant system piping are included as committed in the Grand Gulf Nuclear Station FSAR Questions/Responses 211.35 and 211.66. In addition, all valves subject to Type C test per Appendix J of 10 CFR 50 have been added. Thermal relief valves have not been included in this program.

The various test frequencies for the valves and pumps are listed in the respective sections.

A section entitled "Comments" appears at the end of each system and lists those valves that are tested during cold shutdown in lieu of normal plant operation.

Pursuant to the requirements of 10 CFR 50.55a(g), specific Requests for Relief, with supporting justification, are being submitted as part of the program in the sections entitled Relief Requests.

The Pump and Valve Inservice Testing Program was set up based on currently available system drawings and Final Safety Analysis Report sections. Plant construction, modification, and other conditions may necessitate changes to the program and the addition of Relief Requests.

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The specific revision of the Piping and Instrument Diagram (P&ID) and System Flow Diagram (SFD) used for the review are provided in the Table of Contents. Later revisions will be reviewed for applicability and program modifications made, as necessary. The hierarchy of documents is such that the Pump and Valve Program tables, along with P&IDs, are the official documents. The ISI Boundary Drawings are provided for information only, as an aid to understanding the program.

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VALVE PROGRAM
INSTRUCTIONS

GENERAL

The valve test requirements are presented on the Valve Summary Listing forms, along with pertinent valve, system, and plant information. The forms, organized by systems, are to be used in conjunction with the applicable ISI Boundary Drawings, P&IDs, and SFDs. The revisions for these documents are indicated in the Table of Contents. Copies are available at the Plant Site, unless provided under separate cover.

The P&IDs and the ISI Boundary Drawings show the post-LOCA position of the valves. The Valve Summary Listing shows the position of the valves as they would be during power operation.

The following pages contain instructional information to aid in the use of the Summary Listing and are keyed to the various heading categories. At the end, comments and explanatory notes of a general nature are given. Notes pertaining to a specific system are found within the Summary Listing and are numbered 1, 2, 3, etc., whereas notes common to all systems are numbered I, II, III, etc.

The ISI Boundary Drawings have been prepared from the P&IDs and use the same coordinate system. The ISI Boundary Drawings depict all Class 1, 2, and 3 piping, valves, and equipment subject to ISI. Nonnuclear piping, where depicted, is for clarification only.

The following coding has been used in the ISI Boundary Drawings:

- | | |
|---------------------|-------|
| ASME Class 1 piping | _____ |
| ASME Class 2 piping | ----- |
| ASME Class 3 piping | |
| Nonnuclear piping | _____ |
| Category A valve | (A) |
| Category B valve | (B) |
| Category C valve | (C) |
| Category D valve | (D) |

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Valve subject to Type C
test per Appendix J of
10 CFR 50

ⓐ

Secondary containment
isolation valves

ⓑ

The ISI Boundary Drawings also use other codes, such as 1, 2, 4, 5, etc. These codes are not applicable to the pump and valve testing program. A complete legend is provided on ISI Boundary Drawing P-1085A.

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INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM

CATEGORY - Enter NA for each exempt valve or enter appropriate valve category as defined by Section XI, Subsection IWV, for each nonexempt valve.

Category A - Valves for which seat leakage is limited to a specific maximum amount in the closed position for fulfillment of their function.

Category B - Valves for which seat leakage in the closed position is inconsequential for fulfillment of their function.

Category C - Valves that are self-actuating in response to some system characteristic such as pressure (relief valves) or flow direction (check valves).

Category D - Valves that are actuated by an energy source capable of one operation such as rupture disks or explosive-actuated valves.

NOTES:

1. Combined category valves are identified in this program when more than one Code category is needed to identify the valve functions. Examples are C, A and C, B.
2. Passive valves, designated by (P) in the Valve Summary Listing sheets, are valves that are not required to change position to accomplish a specific function. For example, in this program a containment isolation valve that is normally closed and is not required to close to perform its containment function is designated as A(P) on its Valve Summary Listing form. The Boundary Drawings do not contain the (P) notation for passive valves.

STATUS - Enter E for all exempt valves or NE for all nonexempt valves. Exemptions claimed shall be those permitted by Subarticle IWV-1200 of the Code.

VALVE TYPE - Enter type of each valve:

AR - air release	PC - pressure control
BA - ball	RD - rupture disk
B - butterfly valve	RV - relief valve
C - check valve	SC - stop check valve
D - diaphragm	TC - temperature control
G - gate valve	T - three-way valve
GL - globe valve	X - shear plug valve (explosive actuated)

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For valves not included in this list, insert a brief description of the valves in the Comment column.

ACTUATOR TYPE - Specify the type of valve actuator(s):

- A - air
- EXP - explosive charge
- FS - fail safe
- H - hand
- M - motor
- SA - self-actuated
- S - solenoid

NORMAL POSITION - Enter the normal operating position for each valve:

- C - normally closed
- LC - locked closed
- O - normally open
- LO - locked open

For stop check valves, enter (LO) or (LC) in the column for actuator if the handwheel is in locked open or locked closed position.

TEST TO POSITION - Enter the position (close and/or open) the valve should be in to perform its safety function.

TESTABLE - For each nonexempt valve, enter whether or not the valve is testable. For each valve that is not testable, the reason must be entered in the Comment column. Entries for the Testable column will be YES or NO for non-exempt valves or NA for exempt valves (Subarticle IWV-1200). (Note that NA denotes not applicable.)

TEST DURING - Enter when the valve may be tested:

1. Power operation
2. Start-up
3. Hot shutdown
4. Cold shutdown
5. Refueling

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NOTES:

- A. In the Test During column, any notation containing test during code 1, either alone or in combination with other codes, such as 1-5, indicates that a quarterly test is required regardless of plant status, in accordance with either IWV-3411 or IWV-3521, as applicable.
- B. In the Test During column, any notation containing test during code 4, either alone or in combination with code 5, indicates that the valve is subject to testing on a cold shutdown frequency basis, in accordance with the requirements of either IWV-3412(a) or IWV-3522, as applicable.
- C. Cold Shutdown Testing - GGNS will commence testing no later than 48 hours after cold shutdown condition is achieved, and will continue until all tests are complete or the plant is ready to return to power. This time requirement is necessary such that scheduling arrangements, appropriate valve line-ups, and system adjustments can be made prior to valve testing. Any testing not completed at one cold shutdown will be performed during any subsequent cold shutdowns that may occur before refueling to meet the code-specified testing frequency. For planned cold shutdowns, where GGNS will complete all the valves identified in the Inservice Testing program for testing in the cold shutdown mode, exception to the 48-hour start time may be taken (refueling, etc.). In the case of frequent cold shutdowns, valve testing will not be performed more often than once every 3 months for Category A, B, and C valves.
- D. Enter NA in the Test During column if exemption is claimed. If appropriate, provide comments in the Comment column.

METHOD OF TESTING - This column will describe the method(s) of testing for each valve, using the following either singularly or in combination (Sub-articles IWV-3300, IWV-3410, IWV-3420, IWV-3510, IWV-3520, IWV-3610, IWV-3620, and IWV-3700):

1. Valve shall be exercised to the position required to fulfill its function.
2. Valve shall be full stroked.
3. Valve shall be part stroke exercised.
4. Deleted.

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5. Verify valve operation and position by observing an appropriate indicator, such as observation of stem or disk movement, or by indirect evidence, such as changes in system pressure, flow rate, level, indicator lights in the control room, or temperature, which reflects stem or disk position.
6. The stroke time of power-operated valves shall be measured.
7. Deleted.
8. Valves shall be tested by observing the operation of the valve upon loss of power.
9. Valve seat leakage tests.
10. Bench testing with suitable hydraulic or pneumatic equipment.
11. Valve testing in place with hydraulic or pneumatic assist equipment.
12. Twenty percent of installed explosive charges shall be fired and replaced every 2 years.
13. Deleted.
14. Deleted.
15. Verify that remote valve position indicators accurately reflect valve position at least once every 2 years.

TESTING FREQUENCY - The various testing frequencies for the valves are provided in the Testing Frequency section. Per paragraphs IWV-3412 and IWV-3522 of ASME Section XI, valves that cannot be full-stroke exercised during normal plant operation shall be full-stroke exercised during cold shutdowns. Those valves that cannot be full-stroke exercised during normal plant operation are identified by the remark COMMENT: SYSTEM NO. - SEQUENCE NO. on the Valve Summary Listing sheets. Justification for these valves is provided in the Comments section at the end of each system.

RELIEF REQUESTS - Relief Requests for valves that cannot be tested per Section XI requirements are provided in the Relief Requests section. These valves are identified by the remark RELIEF REQUEST: SYSTEM NO. - SEQUENCE NO. on the Valve Summary Listing sheets. Relief requests of a generic nature have been placed at appropriate locations in the program.

STROKE TIMES - Maximum stroke times for power-operated valves are given in Appendix A.

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EXPLANATORY NOTES FOR INSERVICE TESTING
REQUIREMENTS FOR VALVES

Note I

Deleted.

Note II

Deleted.

Note III

Deleted.

Note IV

Valves for which seat leakage is important may be classified as pressure isolation valves (PIV), containment isolation valves (CIV), or both pressure and containment isolation valves. All CIV testing shall be performed in accordance with the requirements of 10 CFR 50, Appendix J, in lieu of the Category A requirements of Section XI, as specified in the GGNS Technical Specifications requirements. (See Generic Relief Request 4.)

Pressure isolation valves within the scope of ASME Section XI shall be tested to the requirements of IWV-3420. Valves within the scope of ASME Section XI classified as pressure and containment isolation valves shall be tested to the requirements of IWV-3420 and the 10 CFR 50, Appendix J, CIV test program as specified in the GGNS Technical Specifications.

Note V

Deleted.

Note VI

Valves that interface between the high pressure reactor coolant system and low pressure safety-related systems are required to be leak-rate tested per the surveillance procedures in the Technical Specifications, subsection 4.4.3.2.2.

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TESTING FREQUENCY: VALVES

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The frequency for the various tests performed on the valves shall be as indicated in this section.

1. VALVES

<u>Test</u>	<u>Reference Document</u>	<u>Valve Category</u>	<u>Code Method of Testing</u>	<u>Frequency</u>
(a) Verify that remote position indicators reflect valve operation accurately	Section XI I WV-3300	A, B, C, D	15	Once in 2 years
(b) Exercise valves to the position required to fulfill their function	Section XI I WV-3412 I WV-3520	A, B, C	1, 2, 3, 5, 7	Once every 3 months*
(c) Measure the stroke time of power-operated valves	Section XI I WV-3413	A, B, C	6	Whenever the valve is fully stroked under test (b)
(d) Valve leak rate test	Section XI I WV-3420	A	9	Once in 2 years
(e) Test safety and relief valve set points	Section XI I WV-3500	C	10, 11	Every refueling outage**

* If the valve cannot be full-stroke exercised during normal plant operation, it shall be exercised during cold shutdowns. The frequency for full-stroke exercise shall be determined by the intervals between shutdowns, as follows: for intervals of 3 months or longer, exercise during each shutdown; for intervals of less than 3 months, full-stroke exercise is not required unless 3 months have passed since last shutdown exercise. The valves that fall in this category are listed in this section.

**The number of valves that shall be tested each refueling outage shall be in accordance with ASME Section XI, Table I WV-3510-1.

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TESTING FREQUENCY: VALVES

<u>Test</u>	<u>Reference Document</u>	<u>Valve Category</u>	<u>Code Method of Testing</u>	<u>Frequency</u>
(f) Test at least 20 percent of the charges in explosive-actuated valves	Section XI IWV-3610	D	12	Once every 2 years
(g) Leak rate Type C test	10 CFR 50 Appendix J	A	9	Every refueling outage, but the interval between two tests shall not be greater than 2 years
(h) Fail safe actuator test	Section XI, IWV-3415	A, B, C	8	Once every 3 months*

* If the valve cannot be full-stroke exercised during normal plant operation, it shall be exercised during cold shutdowns. The frequency for full-stroke exercise shall be determined by the intervals between shutdowns, as follows: for intervals of 3 months or longer, exercise during each shutdown; for intervals of less than 3 months, full-stroke exercise is not required unless 3 months have passed since last shutdown exercise. The valves that fall in this category are listed in this section.

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GENERIC RELIEF REQUEST 1

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SYSTEMS: A11

VALVES: A11

CATEGORY: A11

CLASS: A11

FUNCTION: As Applicable

TEST REQUIREMENTS: Paragraphs IWV-3417(b) and IWV-3523 of Section XI state that when corrective action is required as a result of a test made during cold shutdown, the condition shall be corrected before start-up.

BASIS FOR RELIEF: GGNS Technical Specification Limiting Conditions for Operation and ASME Section XI provide the control by which valves and systems are declared inoperable. Technical Specifications also control entry into the various operational conditions. Failure to meet Section XI testing criteria should not, therefore, preclude plant start-up if Technical Specifications allow start-up with that particular component inoperable. Plant safety is assured by adherence to GGNS Technical Specifications.

ALTERNATIVE TESTING: The ability to conduct plant start-up shall be governed by GGNS Technical Specifications and not by Section XI, IWV-3417(b) and IWV-3523.

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GENERIC RELIEF REQUEST 2

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SYSTEMS: As applicable

VALVES: All rapid acting valves with stroke times less than or equal to 2 seconds.

CATEGORY: A, B

CLASS: As applicable

TYPE: As applicable

FUNCTION: As applicable to various valves

TEST REQUIREMENTS: Comparison of most recent stroke time measurement with that of previous test per IWV-3417(a)

BASIS FOR RELIEF: Rapid acting valves have stroke times of such short duration that comparison of measurements with previous data for specified percentage increases is not indicative of degrading valve performance. With measurement of stroke times to the nearest second per IWV-3413(b), a very small increase in stroke time will result in an extremely large percentage change. Verification that valves meet a specified maximum stroke time of short duration provides adequate assurance of operability.

ALTERNATIVE TESTING: When stroke times of rapid acting valves are measured, the only criterion for determining acceptability will be the specified maximum stroke time. For valve stroke times exceeding 2 seconds, the requirements specified under IWV-3417 will be met.

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GENERIC RELIEF REQUEST 3

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SYSTEMS: As applicable

VALVES: All fail-safe valves denoted AFS under actuator type on the valve summary listing sheets

CATEGORY: As applicable

CLASS: As applicable

FUNCTION: As applicable

TEST REQUIREMENTS: Fail-safe valves shall be tested by observing the valve operation upon loss of actuator power (IWV-3415).

BASIS FOR RELIEF: Valve that have a fail-safe requirement at GGNS will normally be cycled once every 92 days, unless otherwise relieved. This test will accomplish the intent of the fail-safe test, because normal valve movement is achieved by means of interrupting motive force to the valve.

ALTERNATIVE TESTING: Fail-safe provisions will be tested at the same frequency that the valve is operability tested, but not more often than once every 3 months.

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GENERIC RELIEF REQUEST 4



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SYSTEMS: As Applicable

VALVES: Containment Isolation Valves

CATEGORY: A or A, C

CLASS: 1 or 2

FUNCTION: As Applicable

TEST REQUIREMENTS: Subarticle IWV-3420 requires that Category A valves be leak tested and that such tests shall be conducted at least once every 2 years. Methods for measuring the amount of seat leakage are specified. The test medium shall be specified by the owner.

BASIS FOR RELIEF: In accordance with GGNS Technical Specifications 4.6.1.2(d), (f), (g), (h), (i), and (j) and 4.6.1.9.2, containment isolation valves are required to be leak rate tested in accordance with 10 CFR 50, Appendix J, using the methods and provisions of ANSI N45.4-1972. The requirements and methods contained in Appendix J and ANSI N45.4 meet the intent of Section XI although the frequencies, requirements, and test methods are somewhat different. In addition, Appendix J specifies the test medium for each valve.

ALTERNATIVE TESTING: Leak testing of containment isolation valves shall be performed in accordance with GGNS Technical Specifications. Individual valve leakage permissibles shall be analyzed and corrective action taken in accordance with paragraphs IWV-3426 and IWV-3427 in addition to the requirements of GGNS Technical Specifications.

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GENERIC RELIEF REQUEST 5



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SYSTEMS: As Applicable

VALVES: As Applicable

CATEGORY: As Applicable

CLASS: As Applicable

FUNCTION: As Applicable

TEST REQUIREMENTS: ASME Section XI, Subsection IWP and IWV

BASIS FOR RELIEF: Numerous cold shutdowns of relatively short duration can occur between refueling outages. Section XI requirements cannot be allowed to govern the length of frequent cold shutdowns by commencing inservice testing each time. Also, sufficient time is needed to make scheduling arrangements, appropriate valve line-ups, and system adjustments prior to testing. Therefore, some time limit for the beginning of testing must be chosen.

ALTERNATIVE TESTING: Inservice testing shall commence no later than 48 hours after cold shutdown condition is achieved and will continue until all test are completed or the plant is ready to return to power. When planned shutdowns are long enough to complete all required testing, exception to this start time may be taken.

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RELIEF REQUEST B21-1:
NUCLEAR BOILER SYSTEM

VALVES: F010A (M-1077A,E-7)
F010B (M-1077A,B-7)
F032A (M-1077A,E-8)
F032B (M-1077A,B-8)

CATEGORY: C

CLASS: 1

TYPE: Check

FUNCTION: Feedwater inboard and outboard isolation valves

TEST REQUIREMENTS: Check valves shall be exercised at least once every 3 months (IWV-3521).

BASIS FOR RELIEF: To verify that check valves F010A and B and F032A and B move to the closed position would require stopping all flow to the vessel through the valve being tested. Since these lines complete the flow path to the vessel for the shutdown cooling mode of the residual heat removal system, the reactor core isolation cooling system, and the reactor water cleanup system, it is necessary to maintain flow path integrity in virtually all modes of plant operation. Only during extended outages such as refueling will it be possible to stop flow to the vessel through the valve being tested.

ALTERNATIVE TESTING: These check valves will be leak rate tested in the closed position each refueling.

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RELIEF REQUEST B21-2:
NUCLEAR BOILER SYSTEM

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VALVES: F022A, F028A (M-1077A, G-5, G-3)
F022B, F028B (M-1077A, D-5, D-4)
F022C, F028C (M-1077A, C-5, C-4)
F022D, F028D (M-1077A, A-5, A-4)

CATEGORY: A

CLASS: 1

TYPE: AFS GL

FUNCTION: Main steam isolation valves

TEST REQUIREMENTS: Category A valves shall be exercised at least once every 3 months (IWV-3411).

BASIS FOR RELIEF: These valves are poppet-type globe valves for which leakage requirements are very stringent. Their design requires that steam be flowing across the seat during closing to prevent scoring of the valve seat.

ALTERNATIVE TESTING: Therefore, it is desirable to do full-stroke exercising during start-up from cold shutdown at approximately 600 psig. Partial stroking of the valve shall be performed every 92 days during power operation.

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RELIEF REQUEST B21-3:
NUCLEAR BOILER SYSTEM

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VALVES: F041A (M-1077C, F-5); F047D (M-1077C, F-6)
F041B (M-1077C, F-6); F047G (M-1077C, F-5)
F041C (M-1077C, F-5); F047H (M-1077C, F-6)
F041D (M-1077C, F-6); F047L (M-1077C, G-5)
F041E (M-1077C, F-5); F051A (M-1077C, F-5)
F041F (M-1077C, F-6); F051B (M-1077C, F-6)
F041G (M-1077C, F-5); F051C (M-1077C, F-5)
F041K (M-1077C, F-6); F051D (M-1077C, F-6)
F047A (M-1077C, F-5); F051F (M-1077C, F-6)
F047C (M-1077C, F-5); F051K (M-1077C, F-6)

CATEGORY: B, C

CLASS: 1

TYPE: Safety/Relief Valve

FUNCTION: Main Steam Relief Valve

TEST REQUIREMENTS: Category B valves shall be exercised at least once every 3 months (IWV-3411).

BASIS FOR RELIEF: The Category C test requirements are being met. However, the Category B requirement that the valves be exercised quarterly cannot be met. Opening these valves at power would cause unnecessary transients and should a valve fail in the open position, a LOCA would result. Also, the stroke time cannot be measured due to the rapid action and lack of position indication. Furthermore, it is desirable to stroke these valves only when steam is available to prevent scoring of the seats.

ALTERNATIVE TESTING: Valves will be relief mode (power mode) operability tested during start-up after refueling.

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RELIEF REQUEST B21-4:
NUCLEAR BOILER SYSTEM

VALVES: F100A (M-1077C, D-2) F100L (M-1077C, D-2)
F100B (M-1077C, D-2) F100M (M-1077C, D-2)
F100C (M-1077C, D-2) F100N (M-1077C, D-2)
F100D (M-1077C, G-2) F100P (M-1077C, G-2)
F100E (M-1077C, D-2) F100R (M-1077C, G-2)
F100F (M-1077C, G-2) F100S (M-1077C, G-2)
F100G (M-1077C, D-2) F100T (M-1077C, G-2)
F100H (M-1077C, G-2) F100U (M-1077C, G-2)
F100J (M-1077C, G-2) F100V (M-1077C, D-2)
F100K (M-1077C, D-2) F100W (M-1077C, D-2)

CATEGORY: C

CLASS: 3

TYPE: Check

FUNCTION: Safety/Relief valve bonnet vent line discharge vacuum breaker. Opens to prevent reverse flow of water in the SRV bonnet vent line discharge piping to the suppression pool due to negative pressure caused by condensation. Closed to prevent steam discharge to the drywell during SRV packing leakage.

TEST REQUIREMENTS: Check valves shall be exercised at least once every 3 months (IWV-3520).

BASIS FOR RELIEF: There are no downstream test connections with which to monitor flow or pressure. The location of the valve is such that the disc can be manually lifted from the seat and visually observed to return to the closed position.

ALTERNATIVE TESTING: Valves will be manually tested by gently lifting the disc from the seat by use of a 3/8 inch wooden dowel and visually observing that the disc returns to the closed position each cold shutdown and refueling, but not more often than once every 3 months.

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RELIEF REQUEST C11-1:
CONTROL ROD DRIVE SYSTEM

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VALVES: 114, 115, 138 (M-1081B; G-3, F-6, F-5) 126, 127 (M-1081B; G-6, G-3)

CATEGORY: C, B

CLASS: 2

TYPE: Check and Globe

FUNCTION:

- 114 Prevents backflow from scram discharge header into CRD piping during scram conditions if a control valve or pipe failure occurred.
- 115 Prevent backflow of accumulator or reactor water into CRD system if the CRD Pumps are off.
- 138 Prevent backflow of reactor water into CRD System if the CRD Pumps are off.
- 127 Provide exhaust path from CRD to Scram Discharge volume during a scram.
- 126 Provide flow path from CRD Pumps and accumulators to CRD during a scram.

TEST REQUIREMENTS: Category B/C valves shall be exercised at least once every 3 months (IWV-3411 and IWV-3521).

BASIS FOR RELIEF: This group of valves is found on each of 193 control rod drive hydraulic control units. Any variation in the operability of any valve will be detected by the testing currently required by GGNS Technical Specifications.

ALTERNATIVE TESTING:

- 1) Scram testing and rod insertion timing will be performed in accordance with GGNS Technical Specifications, Section 4.1.3.2 (reactor coolant pressure greater than or equal to 950 psig and, during single control rod scram time tests, the control rod drive pumps isolated from the accumulators) which will verify proper operation of the 114, 127, and 126 valves:
 - a. For all control rods prior to thermal power exceeding 40% of rated thermal power following core alterations or after a reactor shutdown that is greater than 120 days,

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- b. For specifically affected individual control rods following maintenance on or modification to the control rod or control rod drive system which could affect the scram insertion time of those specific control rods, and
 - c. For at least 10% of the control rods, on a rotating basis, at least once per 120 days of power operation.
- 2) Testing of the 138 valves will be accomplished by the individual rod scram time testing which will be performed on all rods after each refueling. This test requirement is more limiting than (1).c. in which any one rod is required to be tested only once each 30 months.
- 3) Testing of the 115 valves will be performed per Technical Specification 4.1.3.3.b.2 by securing the CRD pump and determining the time interval until the individual accumulator low pressure alarms occur.

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RELIEF REQUEST C41-1: Specification MP&L-M-189.1
STANDBY LIQUID CONTROL SYSTEM Page 12
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VALVES: F006, F007 (M-1082, E-7, E-8)
CATEGORY: C
CLASS: 1
TYPE: Stop check
FUNCTION: Close for drywell isolation; open for SLC injection
TEST REQUIREMENTS: Exercise every 3 months
BASIS FOR RELIEF: To verify valve opening requires SLC injection of demineralized water, which requires firing of the squib valves and their subsequent replacement.
ALTERNATIVE TESTING: These valves will be tested to the open position each refueling during SLC injection required by Technical Specifications. The required flowrate will be verified by monitoring the SLC test tank level change. F006 and F007 will be tested closed by use of the handwheel.

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STANDBY LIQUID CONTROL SYSTEM

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RELIEF REQUEST E12-1:
RESIDUAL HEAT REMOVAL SYSTEM

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VALVES: F046A, (M-1085B, D-5)
F046B, F046C (M-1085A, C-6, D-6)

CATEGORY: C

CLASS: 2

TYPE: Check

FUNCTION: Open to pass RHR pump minimum flow.

TEST REQUIREMENTS: Check valves shall be exercised at least once every
3 months (IWV-3520).

BASIS FOR RELIEF: There are no installed flow measuring devices that monitor
the minimum flow line flow and in-line orifices prevent
verifying check valve full open travel during flow testing.

ALTERNATIVE
TESTING: F046A and F046B will be disassembled each refueling outage.

For F046C, the indicated system flow change that occurs
when the minimum flow line motor operated valve is manually
opened during system high flow operation will be monitored
for degradation. Any reduction in the system flow change
observed would be an indication of increased resistance to
flow in the minimum flow line. Corrective actions will be
taken, as appropriate.

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RELIEF REQUEST E12-2:
RESIDUAL HEAT REMOVAL SYSTEM

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VALVES: F103A, F104A (M-1085B, D-7, D-7)
F103B, F104B (M-1085A, C-4, C-4)

CATEGORY: C, A

CLASS: 2

TYPE: Stop check

FUNCTION: Vacuum breaker check valves on RHR steam condensing line,
relief valve discharge line to the suppression pool.

TEST REQUIREMENTS: Exercise every 3 months

BASIS FOR RELIEF: There is no feasible method for testing these valves in
the open direction. There are no downstream test connec-
tions where a vacuum gauge could be installed or where
pressurized air flow could be observed. Pressurizing the
lines to a pressure at which air bubbles could be observed
in the suppression pool would require a test pressure well
in excess of the expected operating differential pressure
and in any case would be a leak test rather than an opera-
tional test.

In addition, due to the Humphrey Issue concerning suppres-
sion pool heat loading, GONS is not allowed to use the
steam condensing mode of RHR. Therefore, these valves
will not be required to function in the open direction
until the Humphrey Issue is resolved.

ALTERNATIVE
TESTING: These valves will not be tested to the open position until
the Humphrey Issue is resolved and the steam condensing
mode of RHR is required to be operable. If the opera-
bility of the steam condensing mode becomes a requirement,
these valves will be disassembled during each refuel-
ing outage. The requirements for subsequent disassemblies
will be determined from the results of the initial dis-
assembly.

In addition, these valves will be tested closed at the
normal quarterly frequency.

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RELIEF REQUEST E12-3: Specification MP&L-M-189.1
RESIDUAL HEAT REMOVAL SYSTEM Page 16
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VALVES: F273 (M-1085A, B-5)
 F274 (M-1085B, D-5)
 F278 (M-1085A, C-5)

CATEGORY: C

CLASS: 2

TYPE: Stop Check

FUNCTION: Open to allow jockey pump minimum cooling flow.

TEST REQUIREMENTS: Check valves shall be exercised at least once every
 3 months (IWV-3520).

BASIS FOR RELIEF: No accurate means exist to verify that the valve is full
 open (i.e., passing the required safety flow). There are
 no flow elements or flow points installed in the RHR
 jockey pump minimum flow lines.

ALTERNATIVE
TESTING: Valves will be disassembled during each refueling
 outage.

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RELIEF REQUEST E51-1:

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REACTOR CORE ISOLATION COOLING SYSTEM Rev. 1

VALVES: F030 (M-1083A, B-5)

CATEGORY: C

CLASS: 2

TYPE: Check

FUNCTION: Suction check valve from the suppression pool prevents flow from the Condensate Storage Tank (CST) to the suppression pool if RCIC system is secured with the suppression pool suction valve (F031) open.

TEST REQUIREMENTS: Exercise every 3 months

BASIS FOR RELIEF: To test this valve open with full flow through the valve would require pumping suppression pool water to the CST which would contaminate the CST. (There is no test return line to the suppression pool for the RCIC system). Passing flow back to the suppression pool through the minimum flow line would, at most, pass only 10 percent of full flow through the valve.

ALTERNATIVE TESTING: The valve will be disassembled and its disk examined for free movement during each refueling outage. The valve will be tested closed at the code required frequency.

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RELIEF REQUEST E51-2: Specification MP&L-M-189.1
REACTOR CORE ISOLATION COOLING SYSTEM Page 18
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VALVES: F065 (M-1083A, F-7)

CATEGORY: C

CLASS: 2

TYPE: Check

FUNCTION: Prevent reverse feedwater flow open for RCIC injection.

TEST REQUIREMENTS: Check valves shall be exercised at least once every 3 months (IWV-3520).

BASIS FOR RELIEF: To test this valve would require RCIC injection at power conditions. This is undesirable for the following reasons:

- Injection of relatively cold water from the CST would cause thermal stresses on RCIC and feedwater piping.
- Injection of oxygenated water from the CST would result in an increase in reactor oxygen levels which would lead to increased radiation levels and corrosion rates.
- RCIC suction line flued heads in the auxiliary building penetrations have a low temperature limit of 60 F.

This limit could be violated during cold weather conditions, as the CST is outdoors.

ALTERNATIVE TESTING: Exercise within 14 days after exceeding 135 psig reactor pressure when returning to power upon completion of refueling.

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RELIEF REQUEST E51-3:

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REACTOR CORE ISOLATION COOLING SYSTEM Rev. 1

VALVES: F021 (M-1083A, E-4)

CATEGORY: C

CLASS: 2

TYPE: Stop Check

FUNCTION: Open to pass RCIC pump minimum flow.

TEST REQUIREMENTS: Check valves shall be exercised at least once every 3 months (IWV-3520).

BASIS FOR RELIEF: There are no installed flow measuring devices that monitor minimum flow line flow and an in-line orifice prevents verifying check valve full open travel during flow testing.

ALTERNATIVE
TESTING:

The indicated system flow change that occurs when the minimum flow line motor operated valve is manually opened during system high flow operation will be monitored for degradation. Any reduction in the system flow change observed would be an indication of increased resistance to flow in the minimum flow line. Corrective action will be taken, as appropriate.

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RELIEF REQUEST E51-4: Page 20

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RELIEF REQUEST P41-1:
STANDBY SERVICE WATER SYSTEM

Specification MP&L-M-189.1
Page 21
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VALVES: F174 (M-10610, H-3)

CATEGORY: C

CLASS: 3

TYPE: Check

FUNCTION: Prevent backflow from the Standby Service Water System to the Turbine Building Cooling Water System

TEST REQUIREMENTS: Check valves shall be exercised at least once every 3 months (IWV-3520).

BASIS FOR RELIEF: Testing this valve closed by use of an upstream test connection would require either securing all plant air compressors or switching the source of cooling to construction water, which would necessitate a temporary alteration of the system.

ALTERNATIVE TESTING: The valve will be disassembled and its disc examined for free movement during each refueling outage.

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RELIEF REQUEST P42-1:
COMPONENT COOLING WATER

Specification MP&L-M-189.1
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Specification MP&L-M-189.1

RELIEF REQUEST P75-1:
STANDBY DIESEL GENERATOR SYSTEM

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VALVES: F507A, B (M-1070C, D-6, D-6)
F507C, D (M-1070D, D-6, D-6)
F508A, B (M-1070C, C-5, D-6)
F508C, D (M-1070D, C-5, D-6)

CATEGORY: B

CLASS: 3

TYPE: Solenoid Operated Gate Valves

FUNCTION: Start/Stop diesel starting air flow

TEST REQUIREMENTS: Category B valves shall be exercised at least once every 3 months (IWV-3411) and the stroke time measured (IWV-3413[b])

BASIS FOR RELIEF: These valves are rapid acting (stroke time is less than 2 seconds) and have neither local nor remote position indication.

ALTERNATIVE TESTING: The diesel will be rolled using each air line individually. This will prove that the valve opens. The diesel will also be started using only one starting air subsystem (two starting air lines) per Technical Specification 4.8.1.1.2(a)4 which states:

Verify the diesel starts from ambient condition and accelerates to at least 441 rpm for diesel generators 11 and 12 and 882 rpm for diesel generator 13 in less than or equal to 10 seconds. The generator voltage and frequency shall be 4160 ± 416 volts and 60 ± 1.2 Hz within 10 seconds after the start signal. The diesel generator shall be started for this test by using one of the following signals:

- a) Manual.
- b) Simulated loss of offsite power by itself.
- c) Simulated loss of offsite power in conjunction with an ESF actuation test signal.
- d) An ESF actuation test signal by itself.

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ALTERNATIVE
TESTING (CONT'D)

If the diesel reaches rated speed within 10 seconds, the two starting air valves will have stroked and passed full safety flow.

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RELIEF REQUEST P75-2:
STANDBY DIESEL GENERATOR SYSTEM

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VALVES: F077A (M-1070C, G-5) F077B (M-1070D, G-6)
F078A (M-1070C, G-5) F078B (M-1070D, H-6)

CATEGORY: C

CLASS: 3

TYPE: Check

FUNCTION: F077A/B open to allow discharge from the engine driven fuel oil booster pumps.
F078A/B close to prevent short cycling of the engine driven fuel oil booster pump discharge back to the fuel oil day tank through the auxiliary fuel oil pump.

TEST REQUIREMENTS: Check valves shall be exercised at least once every 3 months (IYW-3520).

BASIS FOR RELIEF: It is not possible with the current diesel engine design to individually test these valves. However, if the indicated engine driven fuel oil pump discharge pressure is normal and if the auxiliary fuel oil pump is not operating, then this verifies F077A/B to be open and F078A/B to be closed.

ALTERNATIVE TESTING: F077A/B will be verified open and F078A/B will be verified closed during diesel engine operability testing by observing proper engine driven pump discharge pressure when the auxiliary fuel oil pump is not operating.

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RELIEF REQUEST P75-3: Specification MP&L-M-189.1
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VALVES: F045A (M-1070A, D-4) F045B (M-1070B, D-4)
F050A (M-1070A, F-3) F050B (M-1070B, F-3)
F059A (M-1070A, E-5) F059B (M-1070B, E-5)

CATEGORY: C

CLASS: 3

TYPE: Check

FUNCTION: F059A/B open to allow discharge from the engine driven
lube oil pumps.

F045A/B close to prevent short cycling of the engine
driven lube oil pump discharge back to the lube oil sump
tank.

F050A/B open to allow suction flow to the engine driven
lube oil pumps and close to prevent draining of the lube
oil suction piping to the lube oil sump tank.

TEST REQUIREMENTS: Check valves shall be exercised at least once every
3 months (IWV-3520).

BASIS FOR RELIEF: It is not possible with the current diesel engine design
to individually test these valves. However, if the
indicated engine driven lube oil pump discharge pressure
is normal and if the auxiliary lube oil pump is not
operating, then this verifies F050A/B to be open and
F045A/B to be closed. This also verifies that F050A/B
had been closed prior to operation since the suction line
had to have been filled for the pump to take suction.

ALTERNATIVE
TESTING: F050A/B and F059A/B will be verified open and F045A/B will
be verified closed by observing proper lube oil pump
discharge pressure during diesel operability testing when
the auxiliary lube oil pump is not operating. This
will also verify that F050A/B had been closed prior to
starting the diesel.

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RELIEF REQUEST P75-4:

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VALVES: F080A (M-1070C, E-4) F080B (M-1070D, E-4)
F094A (M-1070A, F-3) F094B (M-1070B, F-3)
F095A (N-1070C, D-5) F095B (M-1070D, D-5)
F096A (M-1070C, E-4) F096B (M-1070D, E-4)
F097A (M-1070C, U-5) F097B (M-2070D, D-5)

CATEGORY: C

CLASS: 3

TYPE: Check

FUNCTION: F080A/B and F095A/B open to permit flow from engine lube oil inlet strainer to the main lube oil loop.

F094A/B close to prevent short cycling of the engine driven lube oil pump through the pre-lube filter and lube oil heater pump back to the lube oil sump tank.

F096A/B and F097A/B open to permit flow from engine lube oil strainer to the turbocharger.

TEST REQUIREMENTS: Check valves shall be exercised at least once every 3 months (IWV-3520).

BASIS FOR RELIEF: It is not possible with the present diesel engine design to individually test these valves. However, F080A/B and F095A/B can be verified open and F094A/B verified closed by observing proper main lube oil loop pressures while the auxiliary lube oil pump is secured. F096A/B and F097A/B can be verified open/closed by observing proper turbocharger oil inlet pressure with oil flow lined up to left side/right side inlet strainers.

ALTERNATIVE TESTING: F080A/B and F095A/B will be verified open and F094A/B will be verified closed by observing proper main lube oil loop pressures while the auxiliary lube oil pump is secured.

F096A/B and F097A/B will be verified open and closed by observing proper turbocharger oil inlet pressure with oil flow lined up to first one side, and then the other side, inlet strainers.

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RELIEF REQUEST P75-5:
STANDBY DIESEL GENERATOR SYSTEM

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VALVES: F007A (M-1070A, B-4) F007B (M-1070B, B-4)
F034A (M-1070A, C-4) F034B (M-1070B, C-4)
F038A (M-1070A, C-3) F038B (M-1070B, C-4)

CATEGORY: C

CLASS: 3

TYPE: Check

FUNCTION: F007A/B open to allow discharge from the engine driven jacket water pumps. F034A/B close to prevent short cycling of engine driven jacket water discharge back to the jacket water standpipe through the auxiliary jacket water pump. F038A/B perform the same function for the jacket water heater circulation pump.

TEST REQUIREMENTS: Check valves shall be exercised at least once every 3 months (IWV-3520).

BASIS FOR RELIEF: It is not possible with the present diesel engine design to individually test these valves. However, if indicated engine driven jacket water pump discharge pressure is normal and if the auxiliary jacket water pump is not operating, then this verifies F007A/B to be open and F034A/B and F038A/B to be closed.

ALTERNATIVE TESTING: F007A/B will be verified open and F034A/B and F038A/B will be verified closed during diesel engine operability testing by observing proper engine driven pump discharge pressure when the auxiliary jacket water pump is not operating.

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RELIEF REQUEST P81-1: Specification MP&L-M-189.1
HPCS DIESEL GENERATOR SYSTEM Page 29
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VALVES: F503A, F504A (M-1093B, D-4, B-4)
F503B, F504B (M-1093C, D-6, C-6)

CATEGORY: B

CLASS: 3

TYPE: Solenoid operated gate valves

FUNCTION: Start/Stop diesel starting air flow

TEST REQUIREMENTS: Same as Relief Request P75-1

BASIS FOR RELIEF: Same as Relief Request P75-1

ALTERNATIVE
TESTING: Same as Relief Request P75-1

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RELIEF REQUEST P81-2:
HPCS DIESEL GENERATOR SYSTEM

VALVES: F059A, F060A (M-1093B, D-2)
F059B, F060B (M-1093C, D-8)

CATEGORY: C

CLASS: 3

TYPE: Check

FUNCTION: F059A/B open to allow engine driven oil flow to the turbochargers, closes to prevent short cycling of soakback pump flow.

F060A/B open to allow soakback pump discharge flow to the turbochargers, closes to prevent short cycling of engine driven oil flow through the soakback pump.

TEST REQUIREMENTS: Check valves shall be exercised at least once every 3 months (IWV-3520).

BASIS FOR RELIEF: It is not possible with the present diesel engine design to individually test these valves. However, F059A/B can be verified open and F060A/B can be verified closed by observing proper turbocharger inlet oil pressure when the engine is running and the soakback pump is secured.

ALTERNATIVE TESTING: F059A/B will be verified open and F060A/B will be verified closed during HPCS diesel engine operability testing by observing proper turbocharger inlet lube oil pressure when the soakback pump is not operating.

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SYSTEM NUCLEAR BOILER B21

VALVE NO.	VALVE INFORMATION							SYSTEM INFORMATION					TEST INFORMATION			COMMENTS
	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F010A	1	C, A	NE	24	C	NA	0	B21	O/C	1077A	D-7	YES	YES	5	1, 5, 9	NOTES I & IV RELIEF REQUEST B21-1
F010B	1	C, A	NE	24	C	NA	0	B21	O/C	1077A	C-7	YES	YES	5	1, 5, 9	NOTES I & IV RELIEF REQUEST B21-1
F016	1	A	NE	3	G	M	0	B21	C	1077A	F-5	YES	YES	4, 5	2, 5, 6, 9, 15	NOTES 2 & IV COMMENT B21-1
F019	1	A	NE	3	G	M	0	B21	C	1077A	F-4	YES	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT B21-1
F022A	1	A	NE	28	GL	AFS	0	B21	C	1077A	G-5	YES	YES	1, 2	2, 3, 5, 6, 8, 9, 15	NOTE IV RELIEF REQUEST B21-2
F022B	1	A	NE	28	GL	AFS	0	B21	C	1077A	D-5	YES	YES	1, 2	2, 3, 5, 6, 8, 9, 15	SAME AS F022A
F022C	1	A	NE	28	GL	AFS	0	B21	C	1077A	C-5	YES	YES	1, 2	2, 3, 5, 6, 8, 9, 15	SAME AS F022A
F022D	1	A	NE	28	GL	AFS	0	B21	C	1077A	A-5	YES	YES	1, 2	2, 3, 5, 6, 8, 9, 15	SAME AS F022A
F025A	2	A(P)	NE	3/4	GL	H	LC	B21	NA	1077A	G-2	YES	YES	NA	9	NOTE IV
F025B	2	A(P)	NE	3/4	GL	H	LC	B21	NA	1077A	D-4	YES	YES	NA	9	NOTE IV
F025C	2	A(P)	NE	3/4	GL	H	LC	B21	NA	1077A	C-3	YES	YES	NA	9	NOTE IV
F025D	2	A(P)	NE	3/4	GL	H	LC	B21	NA	1077A	A-4	YES	YES	NA	9	NOTE IV
F028A	1	A	NE	28	GL	AFS	0	B21	C	1077A	G-3	YES	YES	1, 2	2, 3, 5, 6, 8, 9, 15	NOTE IV RELIEF REQUEST B21-2
F028B	1	A	NE	28	GL	AFS	0	B21	C	1077A	D-4	YES	YES	1, 2	2, 3, 5, 6, 8, 9, 15	SAME AS F028A
F028C	1	A	NE	28	GL	AFS	0	B21	C	1077A	C-4	YES	YES	1, 2	2, 3, 5, 6, 8, 9, 15	SAME AS F028A
F028D	1	A	NE	28	GL	AFS	0	B21	C	1077A	A-4	YES	YES	1, 2	2, 3, 5, 6, 8, 9, 15	SAME AS F028A

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F030A	2	A (P)	NE	3/4	GL	H	LC	B21	NA	1077A	E-8	YES	YES	NA	9	NOTE IV
F030B	2	A (P)	NE	3/4	GL	H	LC	B21	NA	1077A	C-8	YES	YES	NA	9	NOTE IV
F032A	1	C, A	NE	24	C	A	0	B21	O/C	1077A	E-8	YES	YES	5	1, 5, 9	NOTES 3 & IV RELIEF REQUEST B21-1
F032B	1	C, A	NE	24	C	A	0	B21	O/C	1077A	B-8	YES	YES	5	1, 5, 9	NOTES 3 & IV RELIEF REQUEST B21-1
F036A	3	C	NE	1	C	NA	0	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	COMMENT B21-2
F036B	3	C	NE	1	C	NA	0	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036C	3	C	NE	1	C	NA	0	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036D	3	C	NE	1	SC	H	0	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036E	3	C	NE	1	C	NA	0	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036F	3	C	NE	1	SC	H	0	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036G	3	C	NE	1	C	NA	0	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036H	3	C	NE	1	SC	H	0	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036J	3	C	NE	1	SC	H	0	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036K	3	C	NE	1	C	NA	0	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036L	3	C	NE	1	C	NA	0	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036M	3	C	NE	1	C	NA	0	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F036N	3	C	NE	1	C	NA	0	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036P	3	C	NE	1	SC	H	0	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036R	3	C	NE	1	SC	H	0	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036S	3	C	NE	1	SC	H	0	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036T	3	C	NE	1	SC	H	0	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036U	3	C	NE	1	SC	H	0	B21	O/C	1077C	G-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036V	3	C	NE	1	C	NA	0	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036W	3	C	NE	1	C	NA	0	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F037A	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F037B	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F037C	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F037D	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	SAME AS F037A
F037E	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F037F	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	SAME AS F037A
F037G	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F037H	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	SAME AS F037A

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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SYSTEM NUCLEAR BOILER B21

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M.	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F037J	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F037K	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F037L	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	SAME AS F037A
F037M	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F037N	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	SAME AS F037A
F037P	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F037R	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	SAME AS F037A
F037S	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F037T	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F037U	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	SAME AS F037A
F037V	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F037W	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F039D	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	COMMENT B21-2
F039F	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F039D
F039H	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F039D
F039J	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F039D

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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SYSTEM NUCLEAR BOILER B21

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORD. INATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F039P	3	C	NE	1	SC	H	0	B21	0/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F039D
F039F	3	C	NE	1	SC	H	0	B21	0/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F039D
F039S	3	C	NE	1	SC	H	0	B21	0/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F039D
F039T	3	C	NE	1	SC	H	0	B21	0/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F039D
F041A	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-5	YES	YES	2, 5	1, 5, 10, 11	NOTE 4 RELIEF REQUEST B21-3
F041B	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-6	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A
F041C	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-5	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A
F041D	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-6	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A
F041E	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-5	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A
F041F	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-6	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A
F041G	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-5	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A
F041K	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-6	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A
F047A	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-5	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A
F047C	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-5	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A
F047D	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-6	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A
F047G	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-5	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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VALVE INFORMATION								SYSTEM INFORMATION					TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING		
F047H	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-6	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A	
F047L	1	C, B	NE	8	RV	A	C	B21	0	1077C	G-5	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A	
F051A	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-5	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A	
F051B	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-6	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A	
F051C	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-5	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A	
F051D	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-6	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A	
F051F	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-6	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A	
F051K	1	C, B	NE	8	RV	A	C	B21	0	1077C	F-6	YES	YES	2, 5	1, 5, 10, 11	SAME AS F041A	
F063A	2	A(P)	NE	3/4	GL	H	LC	B21	NA	1077A	D-8	YES	YES	NA	9	NOTE IV	
F063B	2	A(P)	NE	3/4	GL	H	LC	B21	NA	1077A	B-8	YES	YES	NA	9	NOTE IV	
F065A	2	A	NE	24	G	M	0	B21	C	1077A	D-8	YES	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT B21-4	
F065B	2	A	NE	24	G	M	0	B21	C	1077A	C-8	YES	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT B21-4	
F067A	1	A	NE	1 1/2	GL	M	0	B21	C	1077A	G-3	YES	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT B21-5	
F067B	1	A	NE	1 1/2	GL	M	0	B21	C	1077A	D-4	YES	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT B21-5	
F067C	1	A	NE	1 1/2	GL	M	0	B21	C	1077A	C-4	YES	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT B21-5	
F067D	1	A	NE	1 1/2	GL	M	0	B21	C	1077A	A-4	YES	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT B21-5	

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F078A	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078B	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078C	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078D	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078E	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078F	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078G	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078H	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078J	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078K	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078L	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078M	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078N	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078P	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078R	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078S	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO M -	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F078T	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078U	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078V	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F078W	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	COMMENT B21-3
F098A	2	B	NE	28	G	M	O	B21	C	1077A	G-1	YES	YES	4, 5	2, 5, 6, 15	COMMENT B21-6
F098B	2	B	NE	28	G	M	O	B21	C	1077A	D-3	YES	YES	4, 5	2, 5, 6, 15	COMMENT B21-6
F098C	2	B	NE	28	G	M	O	B21	C	1077A	C-3	YES	YES	4, 5	2, 5, 6, 15	COMMENT B21-6
F098D	2	B	NE	28	G	M	O	B21	C	1077A	A-3	YES	YES	4, 5	2, 5, 6, 15	COMMENT B21-6
F100A	3	C	NE	3	C	NA	C	B21	C/O	1077C	D-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4
F100B	3	C	NE	3	C	NA	C	B21	C/O	1077C	D-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4
F100C	3	C	NE	3	C	NA	C	B21	C/O	1077C	D-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4
F100D	3	C	NE	2½	C	NA	C	B21	C/O	1077C	G-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4
F100E	3	C	NE	2½	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4
F100F	3	C	NE	2½	C	NA	C	B21	O/C	1077C	G-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4
F100G	3	C	NE	2½	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4
F100H	3	C	NE	2½	C	NA	C	B21	O/C	1077C	G-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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SYSTEM NUCLEAR BOILER B21

VALVE INFORMATION								SYSTEM INFORMATION					TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING		
F100J	3	C	NE	2½	C	NA	C	B21	0/C	1077C	G-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4	
F100K	3	C	NE	2½	C	NA	C	B21	0/C	1077C	D-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4	
F100L	3	C	NE	2½	C	NA	C	B21	0/C	1077C	D-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4	
F100M	3	C	NE	2½	C	NA	C	B21	0/C	1077C	D-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4	
F100N	3	C	NE	2½	C	NA	C	B21	0/C	1077C	D-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4	
F100P	3	C	NE	2½	C	NA	C	B21	0/C	1077C	G-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4	
F100R	3	C	NE	2½	C	NA	C	B21	0/C	1077C	G-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4	
F100S	3	C	NE	2½	C	NA	C	B21	0/C	1077C	G-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4	
F100T	3	C	NE	2½	C	NA	C	B21	0/C	1077C	G-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4	
F100U	3	C	NE	2½	C	NA	C	B21	0/C	1077C	G-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4	
F100V	3	C	NE	2½	C	NA	C	B21	0/C	1077C	D-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4	
F100W	3	C	NE	2½	C	NA	C	B21	0/C	1077C	D-2	YES	YES	4, 5	1, 5	RELIEF REQUEST B21-4	
F113	3	B	NE	4	G	AFS	0	B21	C	1077A	E-1	YES	YES	4, 5	2, 5, 6, 8, 15	COMMENT B21-10	
F114	3	B	NE	4	G	AFS	0	B21	C	1077A	E-1	YES	YES	4, 5	2, 5, 6, 8, 15	COMMENT B21-10	
F124A	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE	
F124B	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE	

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI POWER & LIGHT COMPANY
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SYSTEM NUCLEAR BOILER B21

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M	P & ID COORD. INATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F124C	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE
F124D	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE
F124E	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE
F124F	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE
F124G	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE
F124H	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE
F125A	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE
F125B	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE
F125C	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE
F125D	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE
F125E	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE
F125F	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE
F125G	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE
F125H	3	C	NE	1	RV	NA	C	B21	0	1077C	H-4	YES	YES	4, 5	10	NONE
F125J	3	C	NE	1	RV	NA	C	B21	0	1077C	E-4	YES	YES	4, 5	10	NONE
F130A	3	C	NE	2	C	NA	0	B21	0/C	1077C	H-6	YES	YES	4, 5	1, 5	COMMENT: B21-7

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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SYSTEM NUCLEAR BOILER B21

VALVE NO.	VALVE INFORMATION				SYSTEM INFORMATION			TEST INFORMATION			COMMENTS				
	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M.		COORDINATES	HIGH RADIATION AREA	TEST DURING	METHOD OF TESTING
F130B	3	C	NE	2	C	NA	0	B21	0/C	1077C	H-5	YES	4, 5	1, 5	COMMENT B21-7
F147A	3	B	NE	3/4	GL	M	C	B21	0	1077A	F-2	YES	4, 5	2, 5, 6, 15	COMMENT B21-8
F147B	3	B	NE	3/4	GL	M	C	B21	0	1077A	F-2	YES	4, 5	2, 5, 6, 15	COMMENT B21-8
FB03	2	C	NE	24	C	NA	0	B21	C	1077A	B-8	YES	4, 5	1, 5	COMMENT B21-9

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COMMENTS

B21. NUCLEAR BOILER SYSTEM (M-1077A, B, C)

B21-1. VALVE: F016 (M-1077A, F-5)
F019 (M-1077A, F-4)
CATEGORY: A
CLASS: 1
TYPE: Motor operated gate

FUNCTION: Isolation valves, drywell and containment.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Valve F016 is in the drywell; valve F019 is in the steam tunnel. Both areas are high radiation zones and, should either valve fail during testing, access for repair would require plant shutdown. Also, failure of either valve to reopen would reduce the condensate removal capacity from the main steam lines and increase the potential for turbine water induction.

ALTERNATE TESTING: Exercise during shutdown and refueling.

B21-2. VALVE: F036A (M-1077C, D-6)
F036B (M-1077C, D-6)
F036C (M-1077C, D-6)
F036D, F039D (M-1077C, H-4)
F036E (M-1077C, D-6)
F036F, F039F (M-1077C, H-4)
F036G (M-1077C, D-6)
F036H, F039H (M-1077C, H-4)
F036J, F039J (M-1077C, H-4)
F036K (M-1077C, D-6)
F036L (M-1077C, D-6)
F036M (M-1077C, D-6)
F036N (M-1077C, D-6)
F036P, F039P (M-1077C, H-4)
F036R, F039R (M-1077C, H-4)
F036S, F039S (M-1077C, H-4)
F036T, F039T (M-1077C, H-4)
F036U (M-1077C, H-4)
F036V (M-1077C, E-6)
F036W (M-1077C, E-6)

CATEGORY: C
CLASS: 3
TYPE: Check, stop check

FUNCTION: Prevent air loss from NON-ADS and ADS air accumulators in the event of a loss of air supply.

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COMMENTS

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Closure would interrupt air supply to the air accumulators. In addition, valves are located inside the drywell which is a high radiation area. Testing requires personnel access to the valve and can, therefore, be performed only during shutdown conditions.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

B21-3. VALVE: F037B, F078B, (M-1077C, D-2)
F037C, F078C, (M-1077C, D-2)
F037E, F078E, (M-1077C, D-2)
F037A, F078A, (M-1077C, F-2)
F037G, F078G, (M-1077C, D-2)
F037D, F078D, (M-1077C, F-2)
F037J, F078J, (M-1077C, D-2)
F037F, F078F, (M-1077C, F-2)
F037H, F078H, (M-1077C, F-2)
F037K, F078K, (M-1077C, D-2)
F037M, F078M, (M-1077C, D-2)
F037P, F078P, (M-1077C, D-2)
F037S, F078S, (M-1077C, D-2)
F037L, F078U, (M-1077C, F-2)
F037N, F078L, (M-1077C, F-2)
F037R, F078N, (M-1077C, F-2)
F037U, F078R, (M-1077C, F-2)
F037T, F078T, (M-1077C, F-2)
F037V, F078V, (M-1077C, D-2)
F037W, F078W, (M-1077C, D-2)

CATEGORY: C
CLASS: 3
TYPE: Check

FUNCTION: Act as a vacuum breaker. Prevent reverse flow of water in SRV discharge piping in suppression pool caused by condensation negative pressure.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Valves are located inside the drywell, which is inaccessible during power operation. Testing requires personnel access and can be performed only during shutdown conditions.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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COMMENTS

- B21-4. VALVE: F065A (M-1077A, D-8)
F065B (M-1077A, C-8)
CATEGORY: A
CLASS: 2
TYPE: Motor operated gate
FUNCTION: Outboard containment isolation valves on feedwater lines.
TEST REQUIREMENTS: Exercise every 3 months.
EXPLANATION: To close and open these valves would require an interruption of feedwater to reactor pressure vessel. This would require reducing reactor power to prevent a SCRAM. These valves are located in the main steam tunnel which is inaccessible during operation.
ALTERNATE TESTING: Exercise during cold shutdown and refueling.
- B21-5. VALVE: F067A (M-1077A, G-3)
F067B (M-1077A, D-4)
F067C (M-1077A, C-4)
F067D (M-1077A, A-4)
CATEGORY: A
CLASS: 1
TYPE: Motor operated globe
FUNCTION: Outboard containment isolation valves in main steam drain line.
TEST REQUIREMENTS: Exercise every 3 months.
EXPLANATION: These valves are in the steam line tunnel in the auxiliary building and are inaccessible during power operation. Failure of either valve to reopen would reduce the condensate removal capacity from the main steam lines and increase the potential for turbine water induction. Repair of the valve would require plant shutdown.
ALTERNATE TESTING: Exercise during cold shutdown and refueling.
- B21-6. VALVE: F098A (M-1077A, G-1)
F098B (M-1077A, D-3)
F098C (M-1077A, C-3)
F098D (M-1077A, A-3)
CATEGORY: B
CLASS: 2
TYPE: Motor operated gate
FUNCTION: Main steam tunnel isolation valve.

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COMMENTS

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: These valves are located in the main steam tunnel, which is inaccessible during power operation. Also, closure of any of these valves will take the respective steam line out of service, which could require a reduction of reactor power.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

B21-7. VALVE: F130A, B (M-1077C, H-6, H-5)
CATEGORY: C
CLASS: 3
TYPE: Check

FUNCTION: Prevent air loss from ADS air receivers in the event of a loss of air supply.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: To demonstrate closure would require an interruption in air supply to the ADS air receivers. In addition, valves are located inside the drywell, which is inaccessible during power operation. Testing requires personnel access to the valve and can be done only during shutdown conditions.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

B21-8. VALVE: F147A, B (M-1077A, F-2)
CATEGORY: B
CLASS: 1
TYPE: Motor operated globe

FUNCTION: Vent

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: In order to test these valves, the main steam condensate drain line would have to be isolated. This would reduce the condensate removal capacity and increase the turbine water induction potential. Access for repair would require plant shutdown due to high radiation.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

B21-9. VALVE: F803 (M-1077A, B-8)
CATEGORY: C
CLASS: 2
TYPE: Check

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COMMENTS

FUNCTION: To prevent back flow during RCIC operation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: To close and open the check valve disc would require an interruption of feedwater to the RPV, which would require reducing power or cause a scram. Also, the valve is located in the main steam tunnel which is inaccessible during power operation.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

The main steam relief valves are now addressed by Relief Request B21-3.

B21-10. VALVE: F113, F114 (M-1077A, E-1)
CATEGORY: B
CLASS: 3
TYPE: Air operated gate (AFS)

FUNCTION: Secondary containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Valves F113 and F114 are located in the main steam tunnel in the condensate drain line for the main steam headers. This area is inaccessible during power operation. Failure of either valve in the closed position would decrease the condensate removal capacity. Valve repair would require a plant shutdown.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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NOTES FOR B21

1. Feed water inboard isolation valve.
2. Main steam drain inboard isolation valve.
3. Close partially by releasing actuator air. Feedwater outboard isolation valve.
4. Shall be tested in place from control room to verify operability. In addition, these valves shall be bench tested to verify set points.

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SYSTEM REACTOR RECIRCULATION B33

VALVE NO.	VALVE INFORMATION							SYSTEM INFORMATION					TEST INFORMATION			COMMENTS
	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	REF. TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F013A	2	C	NE	3/4	SC	H	0	B33	C	1078A	E-7	YES	YES	4, 5	1,5	COMMENT B33-1
F013B	2	C	NE	3/4	SC	H	0	B33	C	1078A	E-2	YES	YES	4, 5	1,5	COMMENT B33-1
F017A	2	C	NE	3/4	SC	H	0	B33	C	1078A	E-7	YES	YES	4, 5	1,5	COMMENT B33-1
F017B	2	C	NE	3/4	SC	H	0	B33	C	1078A	E-2	YES	YES	4, 5	1,5	COMMENT B33-1
F019	2	B	NE	3/4	GL	M	0/C	B33	0/C	1078A	G-6	YES	YES	1-5	2, 5, 6, 15	NONE
F020	2	B	NE	3/4	GL	M	0/C	B33	0/C	1078A	G-7	NO	YES	1-5	2, 5, 6, 15	NONE
F125	2	A	NE	3/4	GL	M	C	B33	C	1078B	D-7	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F126	2	A	NE	3/4	GL	M	C	B33	C	1078B	D-7	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F127	2	A	NE	3/4	GL	M	C	B33	C	1078A	H-8	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F128	2	A	NE	3/4	GL	M	C	B33	C	1078A	H-8	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F204	2	B(P)	NE	4	G	H	C	B33	NA	1078A	B-7	NO	NA	NA	NA	NONE
F205	2	B(P)	NE	4	G	H	C	B33	NA	1078A	B-7	NO	NA	NA	NA	NONE

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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COMMENTS

B33. REACTOR RECIRCULATION SYSTEM (M-1078A, B)

B33-1. VALVE: F013A, B (M-1078A, E-7, E-2)
F017A, B (M-1078A, E-7, E-2)

CATEGORY: C

CLASS: 2

TYPE: Stop check

FUNCTION: Drywell isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Closure of these valves for testing will isolate seal injection required for operation of the reactor recirculation pumps. Also, testing of F013A and B requires access to the drywell, which is not accessible during power operation.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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SYSTEM CONTROL ROD DRIVE C11

VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM INFORMATION			TEST INFORMATION			COMMENTS		
								TEST TO POSITION	P & ID NO. M-	COORDINATE	HIGH RADIATION AREA	TEST DURING	METHOD OF TESTING			
F010	2	B	NE	1	GL	A	0	C11	C	1081A	H-4	NO	YES	1-5	2, 5, 6, 15	NONE
F011	2	B	NE	2	GL	A	0	C11	C	1081A	E-6	NO	YES	1-5	2, 5, 6, 15	NONE
F083	2	A	NE	2	GL	M	0	C11	C	1081A	C-2	NO	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT C11-1
114	2	C	NE	3/4	C	NA	C	C11	0	1081B	G-3	NO	YES	See RR C11-1	5	NOTE I RELIEF REQUEST C11-1
115	2	C	NE	1/2	C	NA	0	C11	C	1081B	G-6	NO	YES	See RR C11-1	5	NOTE I RELIEF REQUEST C11-1
F122	2	A/C	NE	2	SC	H	0	C11	C	1081A	C-2	NO	YES	4, 5	1, 5, 9	NOTE IV COMMENT C11-2
126	2	B	NE	1/2	GL	A	C	C11	0	1081B	G-5	NO	YES	See RR C11-1	5	NOTE I RELIEF REQUEST C11-1
127	2	B	NE	3/4	GL	AS	C	C11	0	1081B	G-4	NO	YES	See RR C11-1	5	NOTE I RELIEF REQUEST C11-1
F128	2	A(P)	NE	3/4	GL	H	C	C11	NA	1081A	C-2	NO	YES	NA	9	NOTE IV
138	2	C	NE	1/2	C	NA	0	C11	C	1081B	G-6	NO	YES	See RR C11-1	5	NOTE I RELIEF REQUEST C11-1
F322	3	B	NE	6	G	M	0	C11	C	1081A	B-8	NO	YES	4, 5	2, 5, 6, 15	COMMENT C11-3
F180	2	B	NE	1	GL	A	0	C11	C	1081A	H-4	NO	YES	1-5	2, 5, 6, 15	NONE
F181	2	B	NE	2	GL	A	0	C11	C	1081A	E-6	NO	YES	1-5	2, 5, 6, 15	NONE

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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COMMENTS

C11. CONTROL ROD DRIVE HYDRAULIC SYSTEM (M-1081A, B)

C11-1. VALVE: F083 (M-1081A, C-2)
CATEGORY: A
CLASS: 2
TYPE: Motor operated globe

FUNCTION: Containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Failure of this pump discharge valve in the closed position could result in loss of control rod drive operation.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

C11-2. VALVE: F122 (M-1081A, C-2)
CATEGORY: A, C
CLASS: 2
TYPE: Check

FUNCTION: Containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Same as F083.

ALTERNATE TESTING: Same as F083.

C11-3. VALVE: F322 (M-1081A, B-8)
CATEGORY: B
CLASS: 3
TYPE: Motor operated globe

FUNCTION: Provides interface between condensate system and control rod drive hydraulic system.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Closing of the valve will interrupt the water supply to CRD hydraulic system. Cooling water to the control rods would be lost, forcing a plant shutdown.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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NOTES FOR C11

1. There are 193 valves with the same number, one in each of the 193 hydraulic control units.

SYSTEM ENERGY RESOURCES, INC.
 GRAND GULF NUCLEAR STATION, UNIT 1
 PUMP AND VALVE INSERVICE TESTING PROGRAM

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VALVE SUMMARY LISTING

SYSTEM NAME: STANDBY LIQUID CONTROL SYSTEM

SYSTEM NO.: C41

P&ID(s): M-1082

VALVE INFORMATION						TEST INFORMATION							
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (IN.)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST TO POSITION	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	COMMENTS
F001A	2	B	NE	3	GL	M	C	O	NO	YES	1-5	2,5,6,15	NONE
F001B	2	B	NE	3	GL	M	C	O	NO	YES	1-5	2,5,6,15	NONE
F004A	2	D	NE	1 1/2	X	EXP	C	NA	NO	YES	5	12	NOTE 2
F004B	2	D	NE	1 1/2	X	EXP	C	NA	NO	YES	5	12	NOTE 2
F006	1	C	NE	1 1/2	SC	H	C	O/C	YES	YES	4,5	1,5	RELIEF REQUEST C41-1
F007	1	C	NE	1 1/2	SC	H	C	O/C	YES	YES	4,5	1,5	RELIEF REQUEST C41-1
F029A	2	C	NE	1 1/2	RV	NA	C	NA	NO	YES	1-5	10	NONE
F029B	2	C	NE	1 1/2	RV	NA	C	NA	NO	YES	1-5	10	NONE
F033A	2	C	NE	1 1/2	C	NA	C	O/C	NO	YES	1-5	1,5	NONE
F033B	2	C	NE	1 1/2	C	NA	C	O/C	NO	YES	1-5	1,5	NONE
F150	2	A(P)	NE	3	G	H	LC	NA	NO	NA	NA	NA	NOTES 3 & IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST. IST-FM-02,R/O

SYSTEM ENERGY RESOURCES INC.
 GRAND GULF NUCLEAR STATION UNIT 1
 PUMP AND VALVE INSERVICE TESTING PROGRAM

SYSTEM NAME: STANDBY LIQUID CONTROL SYSTEM
 P&ID(s): M-1082

VALVE SUMMARY LISTING

SYSTEM NO.: C41

SYSTEM NO.: C41

VALVE NO.	VALVE INFORMATION					TEST INFORMATION					COMMENTS		
	CLASS	CATEGORY	STATUS	SIZE (IN.)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST TO POSITION	HIGH POSITION AREA	TESTABLE		DURING	METHOD OF TESTING
F151	2	C,A(P)	NE	2	SC	H (LO)	C	NA	NO	NA	NA	NA	NOTES 3 & IV
F152	2	A(P)	NE	3/4	GL	H	LC	NA	NO	NA	NA	NA	NOTES 3 & IV
F222	1	C	NE	1 1/2	SC	H	C	O/C	YES	YES	4,5	1,5	COMMENT C41-2

VALVE SUMMARY LISTING - COMMENTS

C41 STANDBY LIQUID CONTROL (M-1082)

C41-1 Deleted.

C41-2 VALVE: F222

CATEGORY: C

CLASS: 1

TYPE: Stop check

FUNCTION: Open to provide adequate flow for SILC operation; Closed for system isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: This valve is located in the drywell which is inaccessible during normal operation and would require excessive hardship to test.

ALTERNATE TESTING: Exercise to open and closed position during cold shutdown and refueling.

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VALVE SUMMARY LISTING - NOTES FOR C41

1. Deleted.
2. X-shear plug valve (Actuated by explosive charge).
3. Operability not required at present. System tested for packing leakage only; spare penetration.

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SYSTEM DRYWELL MONITORING SYSTEM 023

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VALVE NO.	CLASS	VALVE INFORMATION			SYSTEM INFORMATION			TEST INFORMATION			COMMENTS				
		CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO.		COORDINATES	HIGH RADIATION AREA	TEST DURING	METHOD OF TESTING
F591	2	A	NE	3/4	GL	M	0	023	C/O	1110A	E-6	NO	1-5	2, 5, 6, 9, 15	NOTE IV
F592	2	A	NE	3/4	GL	M	0	023	C/O	1110A	E-6	NO	1-5	2, 5, 6, 9, 15	NOTE IV
F593	2	A	NE	3/4	GL	M	0	023	C/O	1110A	D-6	NO	1-5	2, 5, 6, 9, 15	NOTE IV
F594	2	A	NE	3/4	GL	M	0	023	C/O	1110A	D-6	NO	1-5	2, 5, 6, 9, 15	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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SYSTEM RESIDUAL HEAT REMOVAL SYSTEM E12

VALVE INFORMATION								SYSTEM INFORMATION					TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING		
F002	2	A(P)	NE	3/4	GL	H	LC	E12	NA	1085B	F-4	NO	YES	NA	9	NOTE IV	
F003A	2	B	NE	18	GL	M	0	E12	O/C	1085B	F-7	NO	YES	1-5	2, 5, 15, 6	NONE	
F003B	2	B	NE	18	GL	M	0	E12	O/C	1085A	D-3	NO	YES	1-5	2, 5, 15, 6	NONE	
F004A	2	A	NE	24	G	M	0	E12	O/C	1085B	D-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 1 & IV	
F004B	2	A	NE	24	G	M	0	E12	O/C	1085A	D-7	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 1 & IV	
F004C	2	A	NE	24	G	M	C	E12	O/C	1085A	D-6	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 2 & IV	
F005	2	C,A	NE	1	RV	NA	C	E12	NA	1085B	D-4	NO	YES	1-5	9, 10	NOTE IV	
F006A	2	B	NE	18	G	M	C	E12	0	1085B	C-4	NO	YES	1-5	2, 5, 6, 15	NOTE 3	
F006B	2	B	NE	18	G	M	C	E12	0	1085A	C-8	NO	YES	1-5	2, 5, 6, 15	NOTE 3	
F008	1	A	NE	20	G	M	C	E12	O/C	1085B	F-4	NO	YES	4, 5	2, 5, 6, 9, 15	NOTES 4, IV & VI COMMENT E12-1	
F009	1	A	NE	20	G	M	C	E12	O/C	1085B	F-3	YES	YES	4, 5	2, 5, 6, 9, 15	NOTES 4, IV & VI COMMENT E12-1	
F011A	2	A	NE	4	GL	M	C	E12	C	1085B	E-5	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F011B	2	A	NE	4	GL	M	C	E12	C	1085A	E-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F017A	2	C,A	NE	1	RV	NA	C	E12	NA	1085B	C-2	NO	YES	4, 5	9, 10	NOTE IV	
F017B	2	C,A	NE	1	RV	NA	C	E12	NA	1085A	A-7	NO	YES	4, 5	9, 10	NOTE IV	
F017C	2	C,A	NE	1	RV	NA	C	E12	NA	1085A	D-7	NO	YES	4, 5	9, 10	NOTE IV	

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI POWER & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
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SYSTEM RESIDUAL HEAT REMOVAL SYSTEM E12

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F021	2	A	NE	14	GL	M	C	E12	C	1085A	E-6	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F023	1	A	NE	6	GL	M	C	E12	C	1085A	H-4	NO	YES	4, 5	2, 5, 6, 9, 15	NOTES IV & VI COMMENT E12-2
F024A	2	A	NE	18	G	M	C	E12	O/C	1085B	F-5	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 5 & IV
F024B	2	A	NE	18	G	M	C	E12	O/C	1085A	F-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 5 & IV
F025A	2	C,A	NE	1	RV	NA	C	E12	NA	1085B	G-4	NO	YES	4, 5	9, 10	NOTE IV
F025B	2	C,A	NE	1	RV	NA	C	E12	NA	1085A	G-6	NO	YES	4, 5	9, 10	NOTE IV
F025C	2	C,A	NE	1	RV	NA	C	E12	NA	1085A	F-5	NO	YES	4, 5	9, 10	NOTE IV
F026A	2	B	NE	4	G	M	C	E12	C	1085B	D-3	NO	YES	1-5	2, 5, 6, 15	NOTE 14
F026B	2	B	NE	4	G	M	C	E12	C	1085A	F-4	NO	YES	1-5	2, 5, 6, 15	NOTE 14
F027A	2	A	NE	18	G	M	O	E12	O/C	1085B	G-4	NO	YES	4,5	2, 5, 6, 9, 15	NOTES 6 & IV COMMENT E12-4
F027B	2	A	NE	18	G	M	O	E12	O/C	1085A	G-6	NO	YES	4,5	2, 5, 6, 9, 15	NOTES 6 & IV COMMENT E12-4
F028A	2	A	NE	18	G	M	C	E12	O/C	1085B	H-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 7 & IV
F028B	2	A	NE	18	G	M	C	E12	O/C	1085A	H-7	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 7 & IV
F031A	2	C	NE	18	C	NA	C	E12	O/C	1085B	B-5	NO	YES	1-5	1, 5	NOTE 8
F031B	2	C	NE	18	C	NA	C	E12	O/C	1085A	B-6	NO	YES	1-5	1, 5	NOTE 8
F031C	2	C	NE	18	C	NA	C	E12	O/C	1085A	C-6	NO	YES	1-5	1, 5	NOTE 8

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI POWER & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION

UNIT 1

INSERVICE INSPECTION PROGRAM
 SECTION XI OF ASME CODE
 VALVE SUMMARY LISTING

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SYSTEM RESIDUAL HEAT REMOVAL SYSTEM E12

VALVE NO.	QTY	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION				COMMENTS		
		CLASS	CATEGORY	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM POSITION	TEST POSITION	P & ID NO. M-	ISOLATION CODE	HIGH RADIATION AREA	TESTABLE		TEST DURING	METHOD OF TESTING
F036	2	NE	C, A	4	RV	NA	C	E12	NA	1085A	G-3	NO	YES	4, 5	9, 10	NOTE IV
F037A	2	NE	A	12	GL	M	C	E12	C	1085B	H-3	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 9 & IV
F037B	2	NE	A	12	GL	M	C	E12	C	1085A	G-8	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 9 & IV
F040	2	NE	B	4	GL	M	C	E12	C	1085B	H-8	NO	YES	1-5	2, 5, 6, 15	NOTE 10
F041A	1	NE	C, A	14	C	A	C	E12	O/C	1085B	G-4	YES	YES	4, 5	1, 5, 9, 15	NOTES VI & IV COMMENT E12-3
F041B	1	NE	C, A	14	C	A	C	E12	O/C	1085A	G-7	YES	YES	4, 5	1, 5, 9, 15	NOTES VI & IV COMMENT E12-3
F041C	1	NE	C, A	12	C	A	C	E12	O/C	1085A	F-7	YES	YES	4, 5	1, 5, 9, 15	NOTES IV & VI COMMENT E12-3
F042A	1	NE	A	14	G	M	C	E12	O/C	1085B	G-4	NO	YES	4, 5	2, 5, 6, 9, 15	NOTES IV & VI COMMENT E12-4
F042B	1	NE	A	14	G	M	C	E12	O/C	1085A	G-6	NO	YES	4, 5	2, 5, 6, 9, 15	NOTES IV & VI COMMENT E12-4
F042C	1	NE	A	12	G	M	C	E12	O/C	1085A	F-6	NO	YES	4, 5	2, 5, 6, 9, 15	NOTES IV & VI COMMENT E12-4
F044A	2	NE	A(P)	4	G	H	LC	E12	NA	1085B	H-3	NO	YES	NA	9	NOTE IV
F044B	2	NE	A(P)	4	G	H	LC	E12	NA	1085A	H-7	NO	YES	NA	9	NOTE IV
F046A	2	NE	C	4	C	NA	O	E12	O	1085B	D-5	NO	YES	5	1, 5	RELIEF REQUEST E12-1
F046B	2	NE	C	4	C	NA	O	E12	O	1085A	C-6	NO	YES	5	1, 5	RELIEF REQUEST E12-1
F046C	2	NE	C	4	C	NA	O	E12	O	1085A	D-6	NO	YES	5	1, 5	RELIEF REQUEST E12-1
F047A	2	NE	B	18	G	M	O	E12	O/C	1085B	D-6	NO	YES	1-5	2, 5, 6, 15	NOTE 11

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

SPECIFICATION NO. SERI-M-189.1
 REVISION NO. 3
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SYSTEM ENERGY RESOURCES, INC.
 GRAND GULF NUCLEAR STATION, UNIT 1
 PUMP AND VALVE INSERVICE TESTING PROGRAM

VALVE SUMMARY LISTING

SYSTEM NO.: E12

SYSTEM NAME: RESIDUAL HEAT REMOVAL SYSTEM

P&ID(s): M-1085A, M-1085B, M-1085C

VALVE NO.	VALVE INFORMATION					TEST INFORMATION					COMMENTS		
	CLASS	CATEGORY	STATUS	SIZE (IN.)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST TO POSITION	HIGH RADIATION AREA	TESTABLE		TEST DURING	METHOD OF TESTING
F047B	2	B	NE	18	G	M	O	O/C	NO	YES	1-5	2,5,6,15	NOTE 11
F048A	2	B	NE	18	GL	M	O	O/C	NO	YES	1-5	2,5,6,15	NONE
F048B	2	B	NE	18	GL	M	O	O/C	NO	YES	1-5	2,5,6,15	NONE
F049	2	B	NE	4	G	M	C	C	NO	YES	1-5	2,5,6,15	NOTE 10
F050A	2	C,A	NE	12	C	NA	C	O/C	YES	YES	4,5	1,5,9	NOTES 13, 15 & VI COMMENT E12-7
F050B	2	C,A	NE	12	C	NA	C	O/C	YES	YES	4,5	1,5,9	NOTES 13, 15 & VI COMMENT E12-7
F051A	2	B	NE	8	GL	AFS		C	NO	YES	1-5	2,5,6,8	NOTE 14
F051B	2	B	NE	8	GL	AFS		C	NO	YES	1-5	2,5,6,8	NOTE 14
F052A	2	B	NE	8	GL	M	C	C	NO	YES	4,5	2,5,6,15	NOTE 14 COMMENT E12-10
F052B	2	B	NE	8	GL	M	C	C	NO	YES	4,5	2,5,6,15	NOTE 14 COMMENT E12-10
F053A	2	A	NE	12	GL	M	C	O/C	NO	YES	4,5	2,5,6,9,15	NOTE VI COMMENT E12-5

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST. IST-FM-02,R/O

SYSTEM ENERGY RESOURCES, INC.
 GRAND GULF NUCLEAR STATION, UNIT 1
 PUMP AND VALVE INSERVICE TESTING PROGRAM

SYSTEM NO.: E12

VALVE SUMMARY LISTING

SYSTEM NAME: RESIDUAL HEAT REMOVAL SYSTEM

P&ID(s): M-1085A, M-1085B, M-1085C

VALVE NO.	VALVE INFORMATION						TEST INFORMATION						COMMENTS
	CLASS	CATEGORY	STATUS	SIZE (IN.)	VALVE TYPE	ACTUATOR TYPE	NOR-MAL POSI-TION	TEST TO POSI-TION	HIGH RADI-ATION AREA	TEST-ABLE	TEST DUR-ING	METHOD OF TESTING	
F053B	2	A	NE	12	GL	M	C	O/C	NO	YES	4,5	2,5,6,9,15	NOTE VI COMMENT E12-5
F055A	2	C,A	NE	6	RV	NA	C	NA	NO	YES	4,5	9,10	NOTE IV
F055B	2	C,A	NE	6	RV	NA	C	NA	NO	YES	4,5	9,10	NOTE IV
F056C	2	A(P)	NE	3/4	GL	H	LC	NA	NO	YES	NA	9	NOTE IV
F061	2	A(P)	NE	3/4	GL	H	LC	NA	NO	YES	NA	9	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

IST-FM-02,F/0

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MISSISSIPPI POWER & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1

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SYSTEM RESIDUAL HEAT REMOVAL SYSTEM E12

VALVE NO.	CLASS	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS		
		CAT	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	TEST POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M.	CONNECTION	HIGH RADIATION AREA	TEST-ABLE		TEST DURING	METHOD OF TESTING
F064A	2	A	4	G	M	0	E12	0/C	1085B	D-5	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F064B	2	A	4	G	M	0	E12	0/C	1085A	B-6	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F064C	2	A	4	G	M	0	E12	0/C	1085A	C-6	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F065A	2	B	3	G	AFS		E12	C	1085B	D-8	NO	YES	1-5	2, 5, 6, 8	NOTE 14
F065B	2	B	3	G	AFS		E12	C	1085A	C-4	NO	YES	1-5	2, 5, 6, 8	NOTE 14
F073A	2	A	2	GL	M	C	E12	C	1085B	D-6	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F073B	2	A	2	GL	M	C	E12	C	1085A	C-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F074A	2	B	2	GL	M	C	E12	C	1085B	D-6	NO	YES	1-5	2, 5, 6, 15	NONE
F074B	2	B	2	GL	M	C	E12	C	1085A	C-4	NO	YES	1-5	2, 5, 6, 15	NONE
F082A	2	B	1½	GL	M	0	E12	0/C	1085B	D-4	NO	YES	1-5	2, 5, 6, 15	NONE
F082B	2	B	1½	GL	M	0	E12	0/C	1085A	A-7	NO	YES	1-5	2, 5, 6, 15	NONE
F084A	2	C	1½	SC	H	0	E12	0/C	1085B	C-5	NO	YES	1-5	1, 5	NOTE 17
F084B	2	C	1½	SC	H	0	E12	0/C	1085A	A-6	NO	YES	1-5	1, 5	NOTE 17
F084C	2	C	1½	SC	H	0	E12	0/C	1085A	C-5	NO	YES	1-5	1, 5	NOTE 17
F085A	2	C	1½	SC	H	0	E12	0	1085B	C-5	NO	YES	1-5	1, 5	NOTE 17
F085B	2	C	1½	SC	H	0	E12	0	1085A	A-6	NO	YES	1-5	1, 5	NOTE 17

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI POWER & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1

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SYSTEM RESIDUAL HEAT REMOVAL SYSTEM E12

VALVE NO.	VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO M	P & ID COORDINATES	HIGH RADIATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING		
F085C	2	C	NE	1 1/2	SC	H	0	E12	0	1085A	C-5	NO	YES	1-5	1, 5	NOTE 17	
F087A	2	B	NE	8	GL	M	C	E12	C	1085B	E-7	NO	YES	4, 5	2, 5, 6, 15	COMMENT E12-6	
F087B	2	B	NE	8	GL	M	C	E12	C	1085A	C-3	NO	YES	4, 5	2, 5, 6, 15	COMMENT E12-6	
F103A	2	C, A	NE	1 1/2	SC	H	0	E12	0/C	1085B	D-7	NO	YES	1-5	1, 5, 9	NOTE IV RELIEF REQUEST E12-2	
F103B	2	C, A	NE	1 1/2	SC	H	0	E12	0/C	1085A	C-4	NO	YES	1-5	1, 5, 9	NOTE IV RELIEF REQUEST E12-2	
F104A	2	C, A	NE	1 1/2	SC	H	0	E12	0/C	1085B	D-7	NO	YES	1-5	1, 5, 9	NOTE IV RELIEF REQUEST E12-2	
F104B	2	C, A	NE	1 1/2	SC	H	0	E12	0/C	1085A	C-4	NO	YES	1-5	1, 5, 9	NOTE IV RELIEF REQUEST E12-2	
F107A	2	A(P)	NE	3/4	GL	H	1C	E12	NA	1085B	G-4	NO	YES	NA	9	NOTE IV	
F107B	2	A(P)	NE	1/4	GL	H	1C	E12	NA	1085A	H-6	NO	YES	NA	9	NOTE IV	
F203	3	B	NE	4	G	ALS	C	E12	C	1085B	G-6	NO	YES	1-5	2, 5, 6, 8, 15	NONE	
F212	2	A(P)	NE	1	GL	H	1C	E12	NA	1085A	E-4	NO	YES	NA	9	NOTE IV	
F213	2	A(P)	NE	1	GL	H	1C	E12	NA	1085A	E-4	NO	YES	NA	9	NOTE IV	
F227	2	A(P)	NE	1	GL	H	1C	E12	NA	1085B	D-5	NO	YES	NA	9	NOTE IV	
F228	2	A(P)	NE	1	GL	H	1C	E12	NA	1085B	D-5	NO	YES	NA	9	NOTE IV	
F234	1	A(P)	NE	1	GL	H	1C	E12	NA	1085A	E-7	NO	YES	NA	9	NOTE IV	
F236	1	B(P)	NE	1	GL	H	C	E12	NA	1085A	G-7	NO	NA	NA	NA	NONE	

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI POWER & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
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SYSTEM RESIDUAL HEAT REMOVAL SYSTEM E12

VALVE NO.	VALVE INFORMATION							SYSTEM INFORMATION					TEST INFORMATION			COMMENTS
	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F249	2	A(P)	NE	3/4	GL	H	LC	E12	NA	1085A	C-6	NO	YES	NA	9	NOTE IV
F250	2	A(P)	NE	3/4	GL	H	LC	E12	NA	1085A	C-6	NO	YES	NA	9	NOTE IV
F259	2	A(P)	NE	1	GL	H	LC	E12	NA	1085B	F-5	NO	YES	NA	9	NOTE IV
F260	2	A(P)	NE	1	GL	H	LC	E12	NA	1085B	F-6	NO	YES	NA	9	NOTE IV
F261	2	A(P)	NE	1	GL	H	LC	E12	NA	1085B	F-6	NO	YES	NA	9	NOTE IV
F262	2	A(P)	NE	1	GL	H	LC	E12	NA	1085B	F-6	NO	YES	NA	9	NOTE IV
F273	2	C	NE	1 1/2	SC	H	O	E12	O	1085A	B-5	NO	YES	1-5	1, 5	RELIEF REQUEST E12-3
F274	2	C	NE	1 1/2	SC	H	O	E12	O	1085B	D-5	NO	YES	1-5	1, 5	RELIEF REQUEST E12-3
F276	2	A(P)	NE	1	GL	H	LC	E12	NA	1085A	E-5	NO	YES	NA	9	NOTE IV
F277	2	A(P)	NE	1	GL	H	LC	E12	NA	1085A	E-5	NO	YES	NA	9	NOTE IV
F278	2	C	NE	1 1/2	SC	H	O	E12	O	1085A	C-5	NO	YES	1-5	1, 5	RELIEF REQUEST E12-3
F280	2	A(P)	NE	1	GL	H	LC	E12	NA	1085A	E-6	NO	YES	NA	9	NOTE IV
F281	2	A(P)	NE	1	GL	H	LC	E12	NA	1085A	E-5	NO	YES	NA	9	NOTE IV
F290A	2	A	NE	1 1/2	GL	M	O	E12	C/O	1085B	C-5	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F290B	2	A	NE	1 1/2	GL	M	O	E12	C/O	1085A	A-6	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F303	2	A(P)	NE	1/2	GL	H	LC	E12	NA	1085B	F-5	NO	YES	NA	9	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI 3 & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1

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SYSTEM RESIDUAL HEAT REMOVAL SYSTEM E12

JOB 15026

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M -	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F304	2	A (P)	NE	1/2	GL	H	LC	E12	NA	1085A	E-5	NO	YES	NA	9	NOTE IV
F305	2	A (P)	NE	1/2	GL	H	LC	E12	NA	1085A	F-5	NO	YES	NA	9	NOTE IV
F308	2	A,C	NE	3/4	SC	H	C	E12	C	1085B	F-3	YES	YES	4,5	2, 5, 9	NOTES IV & VI COMMENT E12-8
F310	2	A (P)	NE	1/2	GL	H	LC	E12	NA	1085B	F-5	NO	YES	NA	9	NOTE IV
F311	2	A (P)	NE	1/2	GL	H	LC	E12	NA	1085A	E-6	NO	YES	NA	9	NOTE IV
F312	2	A (P)	NE	1/2	GL	H	LC	E12	NA	1085A	E-4	NO	YES	NA	9	NOTE IV
F321	2	A (P)	NE	3/4	GL	H	LC	E12	NA	1085A	E-6	NO	YES	NA	9	NOTE IV
F322	2	A (P)	NE	3/4	GL	H	LC	E12	NA	1085B	F-5	NO	YES	NA	9	NOTE IV
F331	2	A (P)	NE	3/4	GL	H	LC	E12	NA	1085A	A-5	NO	YES	NA	9	NOTE IV
F334	2	A (P)	NE	1	GL	H	LC	E12	NA	1085A	A-5	NO	YES	NA	9	NOTE IV
F335	2	A (P)	NE	1	GL	H	LC	E12	NA	1085A	A-5	NO	YES	NA	9	NOTE IV
F336	2	A (P)	NE	3/4	GL	H	LC	E12	NA	1085B	C-5	NO	YES	NA	9	NOTE IV
F338	2	A (P)	NE	1	GL	H	LC	E12	NA	1085B	C-5	NO	YES	NA	9	NOTE IV
F339	2	A (P)	NE	1	GL	H	LC	E12	NA	1085B	C-5	NO	YES	NA	9	NOTE IV
F342	2	A (P)	NE	3/4	GL	H	LC	E12	NA	1085A	H-3	NO	YES	NA	9	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.
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MISSISSIPPI & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1

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SYSTEM RESIDUAL HEAT REMOVAL SYSTEM E12

JOB 15026

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F346	2	A	NE	1	GL	M	C	E12	C	1085A	E-5	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F348	2	A (P)	NE	3/4	GL	H	LC	E12	NA	1085B	F-5	NO	YES	NA	9	NOTE IV
F349	2	A (P)	NE	3/4	GL	H	LC	E12	NA	1085B	C-5	NO	YES	NA	9	NOTE IV
F350	2	A (P)	NE	3/4	GL	H	LC	E12	NA	1085A	A-5	NO	YES	NA	9	NOTE IV
F351	2	A (P)	NE	3/4	GL	H	LC	E12	NA	1085A	E-6	NO	YES	NA	9	NOTE IV
F094	2	B (P)	NE	18	G	M	C	E12	NA	1061D	G-4	NO	NO	NA	NONE	SEE COMMENT E12-9
F096	2	B (P)	NE	18	G	M	C	E12	NA	1061D	G-5	NO	NO	NA	NONE	SEE COMMENT E12-9
F394	1	A	NE	6	G	M	C	E12	C	1085A	H-2	YES	YES	4,5	2, 5, 6, 9, 15	NOTES IV & VI COMMENTS E12-2
F406	2	C,A	NE	1	SC	H	C	E12	C	1085A	E-5	NO	YES	1-5	1, 5, 9	NOTE IV
F408	2	A(P)	NE	3/4	GL	H	LC	E12	N/A	1085A	E-5	NO	YES	NA	9	NOTE IV
F409	2	A(P)	NE	3/4	GL	H	LC	E12	N/A	1085A	E-5	NO	YES	NA	9	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.
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MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
UNIT 1
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COMMENTS

- E12. RESIDUAL HEAT REMOVAL SYSTEM (M-1085A, B)
- E12-1. VALVE: F008, F009 (M-1085B, F-4, F-3)
CATEGORY: A
CLASS: 1
TYPE: Motor operated gate
FUNCTION: Containment isolation; open for RHR suction from recirc.
TEST REQUIREMENTS: Exercise every 3 months.
EXPLANATION: These valves are prohibited from opening at reactor pressures above about 135 psig by pressure interlocks. Testing during power operation is precluded.
ALTERNATE TESTING: Exercise during cold shutdown and refueling.
- E12-2. VALVE: F023, F394 (M-1085A, H-4, H-2)
CATEGORY: A
CLASS: 1
TYPE: Motor operated globe, Motor operated gate
FUNCTION: Containment isolation; open for injection to RPV head spray.
TEST REQUIREMENTS: Exercise every 3 months.
EXPLANATION: Failure of valve in open position would result in single valve separation of the high pressure reactor system and the low pressure RHR system. Also, system interlocks will not permit opening of this valve above 135 psig reactor pressure.
ALTERNATE TESTING: Exercise during cold shutdown and refueling.
- E12-3. VALVE: F041A (M-1085B, G-4)
F041B (M-1085A, G-7)
F041C (M-1085A, F-7)
CATEGORY: A/C
CLASS: 1
TYPE: Check
FUNCTION: Inboard containment isolation; open for ECCS injection.
TEST REQUIREMENTS: Exercise every 3 months.
EXPLANATION: Valves are normally closed to full reactor pressure, which precludes testing at the desired frequency.

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ALTERNATE TESTING: Exercise during cold shutdown and refueling.

E12-4. VALVE: F042A (M-1085B, G-4)
F042B (M-1085A, G-6)
F042C (M-1085A, F-6)

CATEGORY: A
CLASS: 1
TYPE: Motor operated gate

FUNCTION: Containment isolation; open for ECCS injection.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Valve failure in the open position would result in single valve separation of the high pressure reactor recirculation system and the low pressure RHR system. Also, system interlocks will not permit opening of these valves above 500 psig reactor pressure.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

E12-5. VALVE: F053A (M-1085B, F-5)
F053B (M-1085A, F-6)

CATEGORY: A
CLASS: 2
TYPE: Motor operated globe

FUNCTION: High/low pressure isolation; open for normal shutdown cooling.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Same as E12.2.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

E12-6. VALVE: F087A (M-1085, E-7)
F087B (M-1085, C-3)

CATEGORY: B
CLASS: 2
TYPE: Motor operated globe

FUNCTION: Redundant system isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: These valves are prevented from opening by system interlocks at reactor pressures above 480 psig. Normal reactor pressure is approximately 900 psig.

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ALTERNATE TESTING: Exercise during cold shutdown and refueling.

E12-7. VALVE: F050A (M-1085B, F-4)
F050B (M-1085A, F-6)
CATEGORY: A, C
CLASS: 2
TYPE: Check

FUNCTION: Open for RHR system normal shutdown mode. F050A and B close for RHR operation during feedwater operation. F050B closes for RHR operation during RCIC operation.

EXPLANATION: To pass flow through these valves for test purposes is not possible because the upstream valve, F053, is interlocked closed above 135 psig reactor pressure.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

E12-8. VALVE: F308 (M-1085B, F-3)
CATEGORY: A,C
CLASS: 2
TYPE: Stop check

FUNCTION: Thermal relief.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Valve is located in the drywell which is inaccessible during power operation. Testing requires personnel access and can be performed only during shutdown conditions.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

E12-9. VALVE: F094 (M-1061D, G-4)
F096 (M-1061D, G-5)
CATEGORY: B (P)
CLASS: 2
TYPE: Motor-Actuated Gate

FUNCTION: Closed for system isolation between RHR and SSW make-up. SSW tie-in provided for containment building flooding for long-term post-accident recovery.

EXPLANATION: These valves are closed during all modes of plant operation. However, these valves have switches on the remote shutdown panel, and the circuits are required to be demonstrated OPERABLE at least once per 18 months, by Technical Specifications.

ALTERNATE TESTING: None.

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E12-10 VALVES: F052A, F052B

CATEGORY: B
CLASS: 2
TYPE: Motor-Actuated Globe

FUNCTION: In the closed position, isolates RHR loop from main steam supply line to RCIC turbine. Open for RHR steam condensing mode.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Due to the Humphrey Issue concerning suppression pool heat loading, GGNS is not allowed to use the steam condensing mode of RHR. Therefore, these valves will not be required to be in the open position during Modes 1, 2, or 3 until the Humphrey Issue is resolved. These valves are locked and tagged in the closed position during Modes 1, 2, and 3.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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NOTES FOR E12

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1. Suction line; required to close for shutdown cooling mode and suppression pool isolation.
 2. Suction line; required to close for suppression pool isolation.
 3. Intertie; required to open for shutdown cooling.
 4. Containment isolation valve, (Note 3); required to open for shutdown cooling mode.
 5. Suppression pool return; required to open on suppression pool cooling.
 6. Discharge to containment; valve always open, but may be used for isolation.
 7. Required to open for containment spray.
 8. Pump discharge required to swing open upon flow.
 9. Required to open for fuel pool cooling.
 10. To radwaste. Required to open when bleeding or draining system.
 11. Pump discharge closed on steam condensation.
 12. Deleted.
 13. To feedwater; required to swing open for shutdown cooling.
 14. Closed except during steam condensing mode.
 15. Valve operability is assured during normal system operation.
 16. Deleted.
 17. See Pump Program Relief Request E12-1.

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SYSTEM LOW PRESSURE CORE SPRAY E21

VALVE INFORMATION								SYSTEM INFORMATION					TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING		
F001	2	A	NE	24	G	M	0	E21	0/C	1087	D-6	NO	YES	1-5	2, 5, 6, 9, 15	NOTES I & IV	
F003	2	C	NE	16	C	NA	C	E21	0/C	1087	E-2	NO	YES	1-5	1, 5	NONE	
F005	1	A	NE	14	G	M	C	E21	0/C	1087	F-5	NO	YES	4, 5	2, 5, 6, 9, 15	NOTES IV & VI COMMENT E21-2	
F006	1	A,C	NE	14	C	A	C	E21	0/C	1087	F-6	YES	YES	4, 5	2, 5, 9, 15	NOTES IV & VI COMMENT E21-1	
F011	2	A	NE	4	G	M	0	E21	0/C	1087	E-3	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F012	2	A	NE	14	GL	M	0	E21	C	1087	F-5	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F013	2	A(P)	NE	3/4	GL	H	LC	E21	NA	1087	F-5	NO	YES	NA	9	NOTE IV	
F018	2	A,C	NE	1 1/2	RV	NA	C	E21	NA	1087	G-5	NO	YES	4, 5	9, 10	NOTE IV	
F031	2	A,C	NE	3/4	RV	NA	C	E21	NA	1087	D-6	NO	YES	4, 5	9, 10	NOTE IV	
F034	2	C	NE	1	SC	H	0	E21	0/C	1087	F-2	NO	YES	1-5	1, 5	NOTE 2	
F200	2	A(P)	NE	3/4	GL	H	LC	E21	NA	1087	G-6	YES	YES	NA	9	NOTE IV	
F207	1	A(P)	NE	1	GL	H	LC	E21	NA	1087	F-6	YES	YES	NA	9	NOTE IV	
F217	2	A(P)	NE	3/4	GL	H	LC	E21	NA	1087	E-6	NO	YES	NA	9	NOTE IV	
F218	2	A(P)	NE	3/4	GL	H	LC	E21	NA	1087	E-6	NO	YES	NA	9	NOTE IV	
F221	2	A(P)	NE	1/2	GL	H	LC	E21	NA	1087	E-6	NO	YES	NA	9	NOTE IV	
F222	2	A(P)	NE	1/2	GL	H	LC	E21	NA	1087	E-6	NO	YES	NA	9	NOTE IV	

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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COMMENTS

E21. LOW PRESSURE CORE SPRAY SYSTEM (M-1087)

E21-1. VALVE: F006 (M-1087, F-6)
CATEGORY: A, C
CLASS: 1
TYPE: Check

FUNCTION: Close to reactor pressure; open for ECCS injection.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Valves are normally closed to reactor pressure, which precludes testing at the desired frequency.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

E21-2. VALVE: F005 (M-1087, F-5)
CATEGORY: A
CLASS: 1
TYPE: Motor Operated Gate

FUNCTION: Open for LPCS injection; containment isolation

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: It is not desirable to open one of the pressure isolation valves between the reactor and the low pressure piping system with the reactor pressurized.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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NOTE FOR E21

1. Key lock switch suppression pool isolation valve.
2. See Pump Program Relief Request E12-1 and E21-1.

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SYSTEM HIGH PRESSURE CORE SPRAY E22

VALVE NO.	CLASSIFICATION	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS			
		QTY	CATEGORY	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M.	CONTAMINATION AREA	HIGH RADIATION AREA		TEST DURING	METHOD OF TESTING	
F001	2	B	NE	18	G	M	O	E22	C	1086	E-7	NO	YES	1-5	2, 5, 6, 15	NOTE 1
F002	2	C	NE	18	C	NA	O	E22	C	1086	E-7	NO	YES	1-5	1, 5	NONE
F004	1	A	NE	12	G	M	C	E22	O/C	1086	E-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTES IV & VI
F005	1	C,A	NE	14	C	A	C	E22	O/C	1086	E-2	YES	YES	4, 5	2, 5, 9, 15	NOTES IV & VI COMMENT E22-1
F006	2	C	NE	1	5C	H	O	E22	O/C	1086	C-6	NO	YES	1-5	1, 5	NOTE 5
F010	2	B	NE	10	GL	M	C	E22	C	1086	F-4	NO	YES	1-5	2, 5, 6, 15	NONE
F011	2	B	NE	10	GL	M	C	E22	C	1086	G-6	NO	YES	1-5	2, 5, 6, 15	TEST LINE TO COND. TANK
F012	2	A	NE	4	G	M	C	E22	O/C	1086	D-5	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 2 & IV
F014	2	C,A	NE	1	RV	NA	C	E22	NA	1086	B-5	NO	YES	4, 5	9, 10	NOTE IV
F015	2	A	NE	24	G	M	C	E22	O/C	1086	C-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 3 & IV
F016	2	C	NE	24	C	NA	C	E22	O/C	1086	C-4	NO	YES	1-5	1, 5	NOTE 4
F021	2	A(P)	NE	3/4	GL	H	LC	E22	NA	1086	E-3	NO	YES	NA	9	NOTE IV
F023	2	A	NE	12	GL	M	C	E22	C	1086	D-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F024	2	C	NE	16	C	NA	C	E22	O/C	1086	E-5	NO	YES	1-5	1, 5	NONE
F035	2	C,A	NE	1	RV	NA	C	E22	NA	1086	E-5	NO	YES	4, 5	9, 10	NOTE IV
F039	2	C	NE	1	5C	H	C	E22	C	1086	F-4	NO	YES	1-5	1, 5	NONE

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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SYSTEM HIGH PRESSURE CORE SPRAY E22

VALVE NO.	CLASS	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS			
		CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	COORDINATES	HIGH RADIATION AREA		TEST-ABLE	TEST DURING	METHOD OF TESTING
F201	2	A(P)	NE	3/4	GL	H	LC	E22	NA	1086	E-3	YES	YES	NA	9	NOTE IV
F218	1	A(P)	NE	1	GL	H	LC	E22	NA	1086	D-2	YES	YES	NA	9	NOTE IV
F301	2	A(P)	NE	1	GL	H	LC	E22	NA	1086	D-4	NO	YES	NA	9	NOTE IV
F302	2	A(P)	NE	1	GL	H	LC	E22	NA	1086	D-4	NO	YES	NA	9	NOTE IV
F303	2	A(P)	NE	1/2	GL	H	LC	E22	NA	1086	D-4	NO	YES	NA	9	NOTE IV
F304	2	A(P)	NE	1/2	GL	H	LC	E22	NA	1086	D-3	NO	YES	NA	9	NOTE IV

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COMMENTS

E22. HIGH PRESSURE CORE SPRAY SYSTEM (M-1086)

E22-1. VALVE: F005 (M-1086, E-2)
CATEGORY: C, A
CLASS: 1
TYPE: Check

FUNCTION: Close to reactor pressure; open for ECCS injection.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Valves are normally closed to reactor pressure, which precludes testing at the desired frequency.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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NOTES FOR E22

1. Pump suction from condensate storage tank isolation valve.
2. Minimum flow to protect pump, valve must open.
3. Pump suction suppression pool isolation valve must open to allow suction from suppression pool.
4. Prevents draining to suppression pool.
5. See Pump Program Relief Request E12-1 and E22-1.

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SYSTEM SUPPRESSION POOL MAKEUP E30

VALVE NO.	CLASS	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION				COMMENTS		
		CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M-	COORDINATES	HIGH RADIATION AREA	TEST-ABLE		TEST DURING	METHOD OF TESTING
F001A	2	B	NE	30	B	M	C	E30	0	1096	E-7	NO	YES	1-5	2, 5, 6, 15	NONE
F001B	2	B	NE	30	B	M	C	E30	0	1096	E-3	NO	YES	1-5	2, 5, 6, 15	NONE
F002A	2	B	NE	30	B	M	C	E30	0	1096	D-7	NO	YES	1-5	2, 5, 6, 15	NONE
F002B	2	B	NE	30	B	M	C	E30	0	1096	D-3	NO	YES	1-5	2, 5, 6, 15	NONE
F591A	2	A	NE	3/4	GL	M	0	E30	C	1096	C-6	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F591B	2	A	NE	3/4	GL	M	0	E30	C	1096	C-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F592A	2	A	NE	3/4	GL	M	0	E30	C	1096	C-6	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F592B	2	A	NE	3/4	GL	M	0	E30	C	1096	C-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F593A	2	A	NE	3/4	GL	M	0	E30	C	1096	A-6	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F593B	2	A	NE	3/4	GL	M	0	E30	C	1096	A-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F594A	2	A	NE	3/4	GL	M	0	E30	C	1096	A-6	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F594B	2	A	NE	3/4	GL	M	0	E30	C	1096	A-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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SYSTEM MSIV LEAKAGE CONTROL E32

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F001A	1	A	NE	1½	GL	M	C	E32	0/C	1097	B-5	YES	YES	4,5	2, 5, 6, 9, 15	NOTE IV COMMENT E32-1
F001E	1	A	NE	1½	GL	M	C	E32	0/C	1097	G-5	YES	YES	4,5	2, 5, 6, 9, 15	NOTE IV COMMENT E32-1
F001J	1	A	NE	1½	GL	M	C	E32	0/C	1097	D-5	YES	YES	4,5	2, 5, 6, 9, 15	NOTE IV COMMENT E32-1
F001N	1	A	NE	1½	GL	M	C	E32	0/C	1097	E-5	YES	YES	4,5	2, 5, 6, 9, 15	NOTE IV COMMENT E32-1
F002A	2	B	NE	1½	GL	M	C	E32	0	1097	B-5	YES	YES	4,5	2, 5, 6, 15	COMMENT E32-1
F002E	2	B	NE	1½	GL	M	C	E32	0	1097	G-5	YES	YES	4,5	2, 5, 6, 15	COMMENT E32-1
F002J	2	B	NE	1½	GL	M	C	E32	0	1097	D-5	YES	YES	4,5	2, 5, 6, 15	COMMENT E32-1
F002N	2	B	NE	1½	GL	M	C	E32	0	1097	E-5	YES	YES	4,5	2, 5, 6, 15	COMMENT E32-1
F003A	2	B	NE	1½	GL	M	C	E32	0/C	1097	B-6	NO	YES	1-5	2, 5, 6, 15	NONE
F003E	2	B	NE	1½	GL	M	C	E32	0/C	1097	G-6	NO	YES	1-5	2, 5, 6, 15	NONE
F003J	2	B	NE	1½	GL	M	C	E32	0/C	1097	D-6	NO	YES	1-5	2, 5, 6, 15	NONE
F003N	2	B	NE	1½	GL	M	C	E32	0/C	1097	E-6	NO	YES	1-5	2, 5, 6, 15	NONE
F006	2	B	NE	2	GL	M	C	E32	0	1097	F-2	YES	YES	4,5	2, 5, 6, 15	COMMENT E32-1
F007	2	B	NE	2	GL	M	C	E32	0	1097	F-2	YES	YES	4,5	2, 5, 6, 15	COMMENT E32-1
F008	2	B	NE	2	GL	M	C	E32	0	1097	F-2	YES	YES	4,5	2, 5, 6, 15	COMMENT E32-1
F009	2	B	NE	2	GL	M	C	E32	0	1097	F-2	YES	YES	4,5	2, 5, 6, 15	COMMENT E32-1

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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SYSTEM MSIV LEAKAGE CONTROL E32

VALVE NO.	CLASS	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS			
		CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO.	COORDINATES	HIGH RADIATION AREA		TEST-ABLE	TEST DURING	METHOD OF TESTING
F011	2	C	NE	3/4	SC	H	0	E32	0	1097	E-3	NO	YES	1-5	1, 5	NONE
F010	2	C	NE	3/4	SC	H	0	E32	0	1097	G-7	NO	YES	1-5	1, 5	NONE

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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COMMENTS

E32. MSIV LEAKAGE CONTROL (M-1097)

E32-1. VALVE: F001A,E,J,N (M-1097, B-5, G-5, D-5, E-5)
F002A,E,J,N (M-1097, B-5, G-5, D-5, E-5)
F006 (M-1097, F-2)
F007 (M-1097, F-2)
F008 (M-1097, F-2)
F009 (M-1097, F-2)
CATEGORY: A, B
CLASS: 1, 2
TYPE: Motor operated globe

FUNCTION: High/low pressure boundary valves, open to allow MSIV leakage control system to completely depressurize the main steam lines to prevent leakage outside the containment boundary.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Failure of any of these valves in the closed position would cause the MSIV leakage control system to be declared inoperable. This would require a plant shutdown within 30 days, in accordance with GGNS Technical Specification 3.6.1.4.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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SYSTEM FEEDWATER CARGAGE CONTROL E38

VALVE NO.	CLASS	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS		
		CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO	GOOD AFTER	HIGH RADIATION AREA		TEST DURING	METHOD OF TESTING
F001A	2	B	NE	1 1/2	GL	H	C	E38	O/C	1112	B-4	YES	4, 5	2, 5, 6, 15	COMMENT E38-1
F001B	2	B	NE	1 1/2	GL	M	C	E38	O/C	1112	F-4	YES	4, 5	2, 5, 6, 15	COMMENT E38-1
F002A	1	C	NE	1 1/2	SC	H (LO)	C	E38	O/C	1112	F-6	YES	4, 5	1, 5	COMMENT E38-2
F002B	1	C	NE	1 1/2	SC	H (LO)	C	E38	O/C	1112	E-6	YES	4, 5	1, 5	COMMENT E38-2
F003A	2	C	NE	1 1/2	SC	H (LO)	C	E38	O/C	1112	C-6	YES	4, 5	1, 5	COMMENT E38-2
F003B	2	C	NE	1 1/2	SC	H (LO)	C	E38	O/C	1112	B-6	YES	4, 5	1, 5	COMMENT E38-2

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
UNIT 1
INSERVICE INSPECTION PROGRAM
PUMP AND VALVE



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COMMENTS

E38. FEEDWATER LEAKAGE CONTROL SYSTEM (M-1112)

E38-1. VALVE: F001A, B (M-1112, B-4, F-4)
CATEGORY: B
CLASS: 2
TYPE: Motor-operated globe

FUNCTION: High/low pressure boundary valve; open to control feedwater leakage following isolation valve closure.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: A failure of valve in the open position could jeopardize the integrity of the low pressure side of the system, since only a check valve could be relied on for isolation.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

E38-2. VALVE: F002A,B (M-1112, F-6, E-6)
F003A,B (M-1112, C-6, B-6)
CATEGORY: C
CLASS: 2
TYPE: Stop check

FUNCTION: Close to feedwater pressure, open to control feedwater leakage following isolation valve closure.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: To pass flow through these valves to demonstrate opening would require securing the associated feedwater line. This would require reducing power to less than 60 percent.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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SYSTEM ENERGY RESOURCES, INC.
 GRAND GULF NUCLEAR STATION, UNIT 1
 PUMP AND VALVE INSERVICE TESTING PROGRAM

VALVE SUMMARY LISTING

SYSTEM NO.: E51

SYSTEM NAME: REACTOR CORE ISOLATION COOLING SYSTEM

P&ID(s): M-1083A, M-1083B

VALVE NO.	VALVE INFORMATION						TEST INFORMATION						COMMENTS
	CLASS	CATEGORY	STATUS	SIZE (IN.)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST TO POSITION	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F004	2	B	NE	1	GL	AFS	C	C	NO	YES	1-5	2,5,6,8,15	NONE
F005	2	B	NE	1	GL	AFS	O	C	NO	YES	1-5	2,5,6,8,15	NONE
F010	2	B	NE	6	G	M	O	C	NO	YES	1-5	2,5,6,15	NONE
F011	2	C	NE	6	C	NA	O	C	NO	YES	1-5	1,5	NONE
F013	2	A	NE	6	G	M	C	O/C	NO	YES	1-5	2,5,6,9,15	NOTE VI
F017	2	C	NE	3/4	RV	NA	C	NA	NO	YES	4,5	10	NONE
F018	2	C	NE	1 1/2	RV	NA	C	NA	NO	YES	4,5	10	NONE
F019	2	A	NE	2	GL	M	C	O/C	NO	YES	1-5	2,5,6,9,15	NOTES 1 & IV
F021	2	C	NE	2	SC	H	C	O	NO	YES	1,2,3	1,5	RELIEF REQUEST E51-3
F022	2	B	NE	4	GL	M	C	C	NO	YES	1-5	2,5,6,15	NONE
F025	2	B	NE	1 1/2	GL	AFS	O	C	NO	YES	1-5	2,5,6,8,15	NONE

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST. IST-FM-02, R/O

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 REVISION NO. 3
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SYSTEM ENERGY RESOURCES, INC.
 GRAND GULF NUCLEAR STATION, UNIT 1
 PUMP AND VALVE INSERVICE TESTING PROGRAM

VALVE SUMMARY LISTING

SYSTEM NAME: REACTOR COOLING ISOLATION COOLING SYSTEM SYSTEM NO.: E51

P&ID(s): M-1083A, M-1083B

VALVE NO.	VALVE INFORMATION							TEST INFORMATION					COMMENTS
	CLASS	CATEGORY	STATUS	SIZE (IN.)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST TO POSITION	HIGH RADIATION AREA	TESTABLE	DURING	METHOD OF TESTING	
F026	2	B	NE	1 1/2	GL	AFS	O	C	NO	YES	1-5	2,5,6,8,15	NONE
F030	2	C	NE	6	C	NA	C	O/C	NO	YES	1-5	1,5	RELIEF REQUEST E51-1
F031	2	A	NE	6	G	M	C	O/C	NO	YES	1-5	2,5,6,9,15	NOTE IV
F040	2	C	NE	20	C	NA	O	O	NO	YES	1,2,3	1,5	NONE
F045	2	B	NE	6	GL	M	C	O/C	NO	YES	1-5	2,5,6,15	NONE
F046	2	B	NE	?	GL	M	C	O	NO	YES	1-5	2,5,6,15	NONE
F059	2	B	NE	4	GL	M	C	C	NO	YES	1-5	2,5,6,15	NONE
F063	1	A	NE	10	G	M	O	C/O	YES	YES	4,5	2,5,6,9,15	NOTES IV & VI COMMENT E51-3
F064	1	A	NE	10	G	M	O	C/O	YES	YES	4,5	2,5,6,9,15	NOTES IV & VI COMMENT E51-5
F065	2	A,C	NE	6	C	NA	C	O/C	NO	YES	1,2,3	1,5,9	NOTE VI RELIEF REQUEST E51-2
F068	2	A	NE	20	G	M	O	C	NO	YES	1-5	2,5,6,9,15	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST. IST-FM-02,R/0

VALVE SUMMARY LISTING

SYSTEM NO.: E51

SYSTEM NAME: REACTOR CORE ISOLATION COOLING SYSTEM

P&ID(s): M-1083A, M-1083B

VALVE NO.	VALVE INFORMATION						TEST INFORMATION						COMMENTS
	CLASS	CATEGORY	STATUS	SIZE (IN.)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST TO POSITION	HIGH RADIATION AREA	TESTABLE	DURATION	METHOD OF TESTING	
F072	2	A(P)	NE	3/4	GL	H	LC	NA	YES	YES	NA	9	NOTE IV
F076	1	A	NE	1	GL	M	C	C	YES	YES	4-5	2, 5, 6, 9, 15	NOTES IV & VI COMMENT E51-4
F077	2	A	NE	2 1/2	G	M	O	O/C	NO	YES	1, 2, 3	2, 5, 6, 9, 15	NOTE IV
F078	2	A	NE	1 1/2	GL	M	O	O/C	NO	YES	1, 2, 3	2, 5, 6, 9, 15	NOTE IV
F079	2	C	NE	2 1/2	C	NA	O	C/O	NO	YES	1-5	1, 5	NONE
F081	2	C	NE	2 1/2	C	NA	O	C/O	NO	YES	1-5	1, 5	NONE
F095	2	B	NE	2	GL	M	C	O/C	NO	YES	1-5	2, 5, 6, 15	NONE
F204	2	C	NE	6	C	NA	C	O	NO	YES	1, 2, 3	1, 5	NONE
F251	2	A(P)	NE	1	GL	H	LC	NA	NO	YES	NA	9	NOTE IV
F252	2	A(P)	NE	1	GL	H	LC	NA	NO	YES	NA	9	NOTE IV
F257	2	A(P)	NE	1/2	GL	H	LC	NA	NO	YES	NA	9	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST. IST-FM-02, R/O

VALVE SUMMARY LISTING

SYSTEM NAME: REACTOR CORE ISOLATION COOLING SYSTEM SYSTEM NO.: E51

P&ID(s): M-1083A, M-1083B

VALVE NO.	VALVE INFORMATION					TEST INFORMATION					COMMENTS		
	CLASS	CATEGORY	STATUS	SIZE (IN.)	VALVE TYPE	ACTUATOR TYPE	NOR-MAL POSITION	TEST TO POSITION	HIGH RADI-ATION AREA	TEST-ABLE		TEST-DUR-ING	METHOD OF TESTING
F258	2	A(P)	NE	3/4	GL	H	LC	NA	NO	YES	NA	9	NOTE IV
TT&T	2	B	NE	4	G	M	O	C	NO	YES	1-5	2,5,6,15	NOTE 5

VALVE SUMMARY LISTING - COMMENTS

E51 REACTOR CORE ISOLATION COOLING SYSTEM (M-1083A, M-1083B)

E51-1 Deleted.

E51-2 Deleted.

E51-3 VALVE: F063 (M-1083B, G-5)
 CATEGORY: A
 CLASS: 1
 TYPE: Motor operated gate.
 FUNCTION: Close for containment isolation, open for RCIC turbine steam supply.
 TEST REQUIREMENTS: Exercise every 3 months.
 EXPLANATION: Valve is located in the drywell which is inaccessible during power operation. Failure of the valve in the closed position would isolate steam supply to the RCIC turbine and result in an inoperable RCIC system. Shutdown of the plant would be required to repair the valve.
 ALTERNATE TESTING: Exercise during cold shutdown and refueling.

E51-4 VALVE: F076 (M-1083B, G-5)
 CATEGORY: A
 CLASS: 1
 TYPE: Motor operated globe.
 FUNCTION: Containment isolation.
 TEST REQUIREMENTS: Exercise every 3 months.
 EXPLANATION: The valve is located in the drywell, which is inaccessible during power operation. Failure of the valve in the open position would affect containment isolation capability and result in a plant shutdown to repair the valve.
 ALTERNATE TESTING: Exercise during cold shutdown and refueling.

VALVE SUMMARY LISTING - COMMENTS

E51-5 VALVE: F064 (M-1083B, G-3)
CATEGORY: A
CLASS: 1
TYPE: Motor operated gate.
FUNCTION: Close for containment isolation, open for RCIC turbine steam supply.
TEST REQUIREMENTS: Exercise every 3 months.
EXPLANATION: Valve is located in the steam tunnel which is inaccessible during power operation. Failure of the valve in the closed position would isolate steam supply to the RCIC turbine and result in an inoperable RCIC system. Shutdown of the plant would be required to repair the valve.
ALTERNATE TESTING: Exercise during cold shutdown and refueling.

SYSTEM ENERGY RESOURCES INC.
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VALVE SUMMARY LISTING - NOTES FOR E51

1. Suppression pool isolation valve pressure over seat.
2. Deleted.
3. Deleted.
4. Deleted.
5. Turbine trip and throttle valve.

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 GRAND GLASSBORO NUCLEAR STATION
 UNIT 1

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SYSTEM COMBUSTIBLE GAS CONTROL SYSTEMS E61

JOB 15026

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F001A	2	C	NE	10	C	NA	C	E61	C/O	1091	E-7	NO	YES	1-5	1, 5, 15	NONE
F001B	2	C	NE	10	C	NA	C	E61	C/O	1091	D-7	NO	YES	1-5	1, 5, 15	NONE
F002A	2	C	NE	10	C	NA	C	E61	C/O	1091	F-6	NO	YES	1-5	1, 5, 15	NONE
F002B	2	C	NE	10	C	NA	C	E61	C/O	1091	D-6	NO	YES	1-5	1, 5, 15	NONE
F003A	2	B	NE	10	B	M	C	E61	C/O	1091	F-6	NO	YES	1-5	2, 5, 6, 15	NONE
F003B	2	B	NE	10	B	M	C	E61	C/O	1091	D-6	NO	YES	1-5	2, 5, 6, 15	NONE
F004A	2	C	NE	10	C	NA	C	E61	C/O	1091	E-4	NO	YES	1-5	1, 5, 15	NONE
F004B	2	C	NE	10	C	NA	C	E61	C/O	1091	E-2	NO	YES	1-5	1, 5, 15	NONE
F005A	2	B	NE	10	B	M	C	E61	C/O	1091	E-4	NO	YES	1-5	2, 5, 6, 15	NONE
F005B	2	B	NE	10	B	M	C	E61	C/O	1091	E-3	NO	YES	1-5	2, 5, 6, 15	NONE
F007	2	B	NE	8	B	AFS	C	E61	C/O	1091	B-6	NO	YES	1-5	2, 5, 6, 15	NONE
F009	2	A	NE	6	B	AFS	O	E61	C	1091	B-3	NO	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV
F010	2	A	NE	6	B	AFS	O	E61	C	1091	B-3	NO	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV
F017	2	A(P)	NE	3/4	GL	H	LC	E61	NA	1091	A-3	NO	YES	NA	9	NOTE IV
F020	2	B	NE	8"	G	A	C	E61	C	1091	B-7	NO	YES	1-5	2, 5, 6, 15	NONE
F056	2	A	NE	6	B	AFS	O	E61	C	1100B	E-7	NO	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.
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MISSISSIPPI POWER & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1

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SYSTEM COMBUSTIBLE GAS CONTROL SYSTEMS E61

VALVE INFORMATION								SYSTEM INFORMATION					TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING		
F057	2	A	NE	6	B	AFS	0	E61	C	1100B	E-1	NO	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV	
F595A	2	A	NE	3/4	GL	M	0	E61	C	1091	H-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F595B	2	A	NE	3/4	GL	M	0	E61	C	1091	H-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F595C	2	A	NE	3/4	GL	M	0	E61	C	1091	H-2	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F595D	2	A	NE	3/4	GL	M	0	E61	C	1091	H-3	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F596A	2	A	NE	3/4	GL	M	0	E61	C	1091	G-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F596B	2	A	NE	3/4	GL	M	0	E61	C	1091	G-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F596C	2	A	NE	3/4	GL	M	0	E61	C	1091	G-2	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F596D	2	A	NE	3/4	GL	M	0	E61	C	1091	G-3	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F597A	2	A	NE	3/4	GL	M	0	E61	C	1091	H-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F597B	2	A	NE	3/4	GL	M	0	E61	C	1091	H-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F597C	2	A	NE	3/4	GL	M	0	E61	C	1091	H-2	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F597D	2	A	NE	3/4	GL	M	0	E61	C	1091	H-3	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F598A	2	A	NE	3/4	GL	M	0	E61	C	1091	G-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F598B	2	A	NE	3/4	GL	M	0	E61	C	1091	G-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	
F598C	2	A	NE	3/4	GL	M	0	E61	C	1091	G-2	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV	

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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 GRAND GULF NUCLEAR STATION
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 VALVE SUMMARY LISTING

SYSTEM COMBUSTIBLE GAS CONTROL SYSTEMS E61

VALVE INFORMATION		SYSTEM INFORMATION					TEST INFORMATION			COMMENTS						
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION		P & ID NO M	COORDINATES	HIGH RADIATION AREA	TEST APLE	TEST DURING	METHOD OF TESTING
F-980	7	A	NE	3/4	GL	M	0	E61	C	1091	G-3	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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 GRAND GULF NUCLEAR STATION
 UNIT 1

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SYSTEM REACTOR WATER CLEAN-UP G33

VALVE NO.	CLASS	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS		
		CATEGORY	STATUS	SIZE (inches)	VALVE TYPE	ACTUATOR TYPE	POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M-	CONNECTIONS	HIGH RADIATION AREA		TEST-DURING	METHOD OF TESTING
F001	1	A	NE	6	G	M	C	G33	C	1079	F-5	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT G33-1
F002	1	A(P)	NE	3/4	GL	H	LC	G33	NA	1079	F-4	YES	NA	9	NOTE IV
F004	1	A	NE	6	G	M	0	G33	C	1079	F-4	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT G33-2
F028	2	A	NE	4	G	M	C	G33	C	1079	C-6	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F034	2	A	NE	4	G	M	C	G33	C	1079	C-7	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F039	2	A	NE	6	G	M	0	G33	C	1079	G-5	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT G33-2
F040	2	A	NE	6	G	M	0	G33	C	1079	G-4	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT G33-3
F053	2	A	NE	4	G	M	0	G33	C	1079	E-2	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT G33-3
F054	2	A	NE	4	G	M	0	G33	C	1079	F-2	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT G33-2
F055	2	A(P)	NE	3/4	GL	H	LC	G33	NA	1079	G-5	YES	NA	9	NOTE IV
F061	2	A(P)	NE	3/4	GL	H	LC	G33	NA	1079	E-2	YES	NA	9	NOTE IV
F070	2	A(P)	NE	3/4	GL	H	LC	G33	NA	1079	D-7	YES	NA	9	NOTE IV
F234	3	B	NE	4	G	AFS	C	G33	C	1079	G-8	NO	1-5	2, 5, 6, 8, 15	NONE
F235	3	B	NE	4	G	AFS	C	G33	C	1079	F-8	NO	1-5	2, 5, 6, 8, 15	NONE
F250	1	B	NE	6	G	M	0	G33	C	1079	G-5	YES	4, 5	2, 5, 6, 15	COMMENT G33-2
F251	1	B	NE	6	G	M	0	G33	C	1079	G-4	YES	4, 5	2, 5, 6, 15	COMMENT G33-3

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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INSERVICE INSPECTION PROGRAM
 SECTION XI OF ASME CODE
 VALVE SUMMARY LISTING

SYSTEM REACTOR WATER CLEAN-UP G33

VALVE INFORMATION					SYSTEM INFORMATION					TEST INFORMATION			COMMENTS		
VALVE NO.	C.P.S.	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST POSITION	P & ID NO. M	COOLING INLET	HIGH RADIATION AREA		TEST DURING	METHOD OF TESTING
F252	1	A	NE	6	G	M	0	G33	C	1079	F-5	YES	YES	2, 5, 6, 9, 15	NOTE IV COMMENT G33-2
F253	2	B	NE	6	G	M	0	G33	C	1079	F-4	NO	YES	2, 5, 6, 15	COMMENT G33-3

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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COMMENTS

G33. REACTOR WATER CLEAN-UP (M-1079)

G33-1. VALVE: F001 (M-1079, F-5)
CATEGORY: A
CLASS: 1
TYPE: Motor operated gate

FUNCTION: Containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Valve is located in the drywell, which is inaccessible during power operation. Valve failure in the open position would affect containment isolation capability and would require a plant shutdown for valve repair.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

G33-2. VALVES: F004 (M-1079, F-4)
F039 (M-1079, G-5)
F250 (M-1079, G-5)
F252 (M-1079, F-5)
F054 (M-1079, F-2)

CATEGORY: A or B
CLASS: 1 or 2
TYPE: Motor operated gate

FUNCTION: Containment and drywell isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: These valves are located in either the drywell or the main steam tunnel, which are inaccessible during reactor operation. Failure of any one of these valves in the closed position would shutdown the RWCU system, which is required for reactor operation. Valve repairs would require a plant shutdown.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

G33-3. VALVES: F040 (M-1079, G-4)
F053 (M-1079, E-2)
F251 (M-1079, G-4)
F253 (M-1079, E-4)

CATEGORY: A or B
CLASS: 1
TYPE: Motor operated gate

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COMMENTS

FUNCTION: F040, F053 - Containment isolation.
F251, F253 - Pre-pump mode flow isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: These valves are located in the RWCU pump room, which is a high radiation area. Failure of any of these valves in the closed position would shut down the RWCU system, which is required for reactor operation. Valve repairs would require extensive backflushing and decontamination of the RWCU system.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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SYSTEM RWCU FILTER DEMINERALIZER G36

VALVE NO.	CLASS	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS			
		CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST POSITION	P & ID NO. M	RAIO CORP INVALS	HIGH RADIATION AREA		TEST-ABLE	TEST DURING	METHOD OF TESTING
F101	2	A	NE	4	G	A	C	G36	C	1080B	G-3	NO	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV
F106	2	A	NE	4	G	A	C	G36	C	2080B	G-2	YES	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV
F108	3	B	NE	4	G	AF5	C	G36	C	1080B	G-3	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F109	3	B	NE	4	G	AF5	C	G36	C	1080B	G-4	NO	YES	1-5	2, 5, 6, 8, 15	NONE

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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SYSTEM FUEL POOL COOLING AND CLEANUP G41

VALVE NO.	CLASS	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS			
		CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M-	CONFORMANCE AREA	HIGH TEST DURING		METHOD OF TESTING		
F028	2	A	NE	B	GL	M	O	G41	C	1088C	H-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F029	2	A	NE	B	G	M	O	G41	C	1088C	C-7	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F040	2	A/C	NE	B	C	NA	O	G41	C	1088C	H-5	YES	YES	1-5	1, 5, 9	NOTE IV
F044	2	A	NE	B	G	M	O	G41	C	1088C	C-7	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F053	2	A(P)	NE	12	G	H	LC	G41	NA	1088C	B-8	NO	YES	NA	9	NOTE IV
F201	2	A(P)	NE	12	G	H	LC	G41	NA	1088C	C-8	NO	YES	NA	9	NOTE IV
F265	2	B(P)	NE	3	G	H	C	G41	NA	1088C	E-8	NO	NA	NA	NA	NONE
F340	2	A(P)	NE	3/4	GL	H	LC	G41	NA	1088C	H-5	NO	YES	NA	9	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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SYSTEM FILTER/DEMINERALIZER (FPCU) G46

VALVE INFORMATION			SYSTEM INFORMATION			TEST INFORMATION			COMMENTS						
VALVE NO.	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION		P & ID NO. M-	COORDINATES	HIGH RADIATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING
F253	B	NE	3	G	AF5	0	G46	C	1089	H-4	YES	YES	1-5	2, 5, 6, 8, 15	NONE

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SYSTEM CONTAINMENT COOLING M41

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F007	3	B	NE	20	B	AFS	0	M41	C	1100A	D-1	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F008	3	B	NE	20	B	AFS	0	M41	C	1100A	C-2	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F011	2	A	NE	20	B	AFS	C	M41	C	1100A	B-5	NO	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV
F012	2	A	NE	20	B	AFS	C	M41	C	1100A	B-6	NO	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV
F013	2	B	NE	20	B	AFS	C	M41	C	1101	D-1	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT M41-2
F015	2	B	NE	20	B	AFS	C	M41	C	1101	D-2	YES	YES	4, 5	2, 5, 6, 8, 15	COMMENT M41-2
F016	2	B	NE	20	B	AFS	C	M41	C	1101	G-8	YES	YES	4, 5	2, 5, 6, 8, 15	COMMENT M41-2
F017	2	B	NE	20	B	AFS	C	M41	C	1101	H-8	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT M41-2
F034	2	A	NE	20	B	AFS	C	M41	C	1100A	F-1	NO	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV
F035	2	A	NE	20	B	AFS	C	M41	C	1100A	F-1	NO	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV
F036	3	B	NE	20	B	AFS	0	M41	C	1100A	G-2	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F037	3	B	NE	20	B	AFS	0	M41	C	1100A	G-2	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F042	2	A(P)	NE	3/4	GL	H	LC	M41	NA	1100A	C-5	NA	YES	NA	9	NOTE IV
F051	2	A(P)	NE	3/4	GL	H	LC	M41	NA	1100A	G-1	NO	YES	NA	9	NOTE IV
F054	2	A(P)	NE	3/4	GL	H	LC	M41	NA	1100B	E-6	NO	YES	NA	9	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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M41. CONTAINMENT COOLING SYSTEM (M-1100 A, B)

M41-1. Deleted.

M41-2. VALVE: F013 (M-1101, D-1)
F015 (M-1101, D-2)
F016 (M-1101, G-8)
F017 (M-1101, H-8)

CATEGORY: B

CLASS: 2

TYPE: Air operated butterfly

FUNCTION: Drywell isolation; open for cooling.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Valve failure in the open position would violate the drywell boundary. This could result in a pathway to bypass the suppression pool during an accident.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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SYSTEM CONTAINMENT LEAKAGE RATE TEST SYSTEM M61

VALVE NO.	CLASS	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS			
		CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST POSITION	P&ID NO. M-	COOR. #	HIGH RADIATION AREA		TEST-ABLE	TEST DURING	METHOD OF TESTING
F009	2	A(P)	NE	3/4	GL	H	C	M61	NA	1111A	D-4	NO	YES	NA	9	NOTE IV
F010	2	A(P)	NE	3/4	GL	H	C	M61	NA	1111A	E-4	NO	YES	NA	9	NOTE IV
F014	2	A(P)	NE	1	GL	H	LC	M61	NA	1111A	E-7	NO	YES	NA	9	NOTE IV
F015	2	A(P)	NE	1	GL	H	LC	M61	NA	1111A	E-7	NO	YES	NA	9	NOTE IV
F016	2	A(P)	NE	1	GL	H	LC	M61	NA	1111A	D-7	NO	YES	NA	9	NOTE IV
F017	2	A(P)	NE	1	GL	H	LC	M61	NA	1111A	D-7	NO	YES	NA	9	NOTE IV
F018	2	A(P)	NE	1	GL	H	LC	M61	NA	1111A	C-7	NO	YES	NA	9	NOTE IV
F019	2	A(P)	NE	1	GL	H	LC	M61	NA	1111A	C-7	NO	YES	NA	9	NOTE IV
F020	1	B(P)	NE	1	G	H	C	M61	NA	1111A	E-6	NO	NA	NA	NA	NONE
F021	1	B(P)	NE	1	G	H	C	M61	NA	1111A	E-6	NO	NA	NA	NA	NONE

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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SYSTEM CONTAINMENT AND DRYWELL INSTRUMENT AND CONTROL M71

VALVE NO.	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS				
	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO.	CONTROL POINT		HIGH RADIATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING
F591A	2	A	NE	3/4	GL	M	0	M71	C	1110A	C-7	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F591B	2	A	NE	3/4	GL	M	0	M71	C	1110A	C-3	NG	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F592A	2	A	NE	3/4	GL	M	0	M71	C	1110A	C-7	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F592B	2	A	NE	3/4	GL	M	0	M71	C	1110A	C-3	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F593	2	A	NE	3/4	GL	M	0	M71	C	1110A	D-3	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F594	2	A	NE	3/4	GL	M	0	M71	C	1110A	E-3	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F595	2	A	NE	1	GL	M	0	M71	C	1110A	F-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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SYSTEM COND. & REFUELING WATER STORAGE & TRANS. P11

VALVE INFORMATION								SYSTEM INFORMATION					TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING		
F004	2	A, C	NE	6	C	NA	0	P11	C	1065	E-7	NO	YES	4, 5	1, 5, 9	NOTE IV COMMENT P11-1	
F047	3	B	NE	12	G	AFS	C	P11	C	1065	B-5	NO	YES	1-5	2, 5, 6, 8, 15	NONE	
F061	3	B	NE	12	G	AFS	0	P11	C	1065	B-4	NO	YES	1-5	2, 5, 6, 8, 15	NONE	
F062	3	B	NE	8	G	AFS	0	P11	C	1065	G-6	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT P11-2	
F063	3	B	NE	8	G	AFS	0	P11	C	1065	G-5	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT P11-2	
F064	3	B	NE	12	G	AFS	0	P11	C	1065	D-5	NO	YES	1-5	2, 5, 6, 8, 15	NONE	
F065	3	B	NE	12	G	AFS	0	P11	C	1065	D-4	NO	YES	1-5	2, 5, 6, 8, 15	NONE	
F066	3	B	NE	12	G	AFS	0	P11	C	1065	C-5	NO	YES	1-5	2, 5, 6, 8, 15	NONE	
F067	3	B	NE	12	G	AFS	0	P11	C	1065	C-4	NO	YES	1-5	2, 5, 6, 8, 15	NONE	
F075	2	A	NE	6	G	AFS	0	P11	C	1065	E-7	NO	YES	4, 5	2, 5, 6, 8, 9, 15	NOTE IV COMMENT P11-3	
F095	2	A(P)	NE	3/4	GL	H	LC	P11	NA	1065	D-7	NO	YES	NA	9	NOTE IV	
F130	2	A	NE	12	B	AFS	0	P11	C	1065	A-7	NO	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV	
F131	2	A	NE	12	B	AFS	0	P11	C	1065	A-6	NO	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV	
F132	2	A(P)	NE	3/4	GL	H	LC	P11	NA	1065	A-7	NO	YES	NA	9	NOTE IV	
F425	2	A(P)	NE	3/4	GL	H	LC	P11	NA	1065	A-7	NO	YES	NA	9	NOTE IV	

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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COMMENTS

P11. CONDENSATE AND REFUELING WATER SYSTEM (M-1065)

P11-1. VALVE: F004 (M-1065, D-7)
CATEGORY: A, C
CLASS: 2
TYPE: Check

FUNCTION: Maintain containment boundary upon reverse flow, post LOCA.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Test would require interruption of supply water to containment fire hose stations.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

P11-2. VALVES: F062, F063 (M-1065, G-6, G-5)
CATEGORY: B
CLASS: 3
TYPE: Air operated gate (AFS)

FUNCTION: Secondary containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Failure of either valve and subsequent penetration isolation would result in a loss of condensate transfer supply to the RWCU demineralizers. This would prevent RWCU demineralizer regeneration and would eventually allow reactor water chemistry to degrade beyond Technical Specification limits, forcing a plant shutdown.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

P11-3. VALVE: F075 (M-1065, E-7)
CATEGORY: A
CLASS: 2
TYPE: Air operated gate (AFS)

FUNCTION: Containment isolation.

TEST REQUIREMENTS: Exercise every 3 months

EXPLANATION: Valve failure in the closed position would result in a loss of fire protection water supply to containment, and eliminate the ability to regenerate RWCU demineralizer, as stated in Comment P11-2.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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SYSTEM MAKEUP WATER TREATMENT P21

VALVE NO.	CLASS	VALVE INFORMATION			SYSTEM INFORMATION				TEST INFORMATION			COMMENTS				
		CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M.	CLASSIFICATION		HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING
F017	2	A	NE	2	GL	M	0	P21	C	0033B	E-2	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F018	2	A	NE	2	GL	M	0	P21	C	0033B	E-2	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F024	3	B	NE	4	G	AFS	0	P21	C	0033B	F-2	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT P21-1

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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COMMENTS

P21. MAKEUP WATER TREATMENT SYSTEM (M-0033B)

P21-1. VALVE: F024 (M-0033B, F-2)
CATEGORY: B
CLASS: 3
TYPE: Air operated gate (AFS)

FUNCTION: Secondary containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Failure of this valve and subsequent penetration isolation would result in a loss of makeup water to the component cooling water (CCW) heat exchangers. After the CCW head tank level dropped below the low level alarm, the CCW pumps would have to be shut down to prevent cavitation. This would cause a loss of cooling water to the CRD pump coolers, RWCU pump coolers, RWCU nonregenerative heat exchangers, and the recirculation pump motor bearing, motor cooler, and pump seals. Plant shutdown would result.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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SYSTEM STANDBY SERVICE WATER P41

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M	P&ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F001A	3	B	NE	24	B	M	O	P41	O	1061A	H-3	NO	YES	1-5	2, 5, 6, 15	NONE
F001B	3	B	NE	24	B	M	O	P41	9	1061A	C-4	NO	YES	1-5	2, 5, 6, 15	NONE
F005A	3	B	NE	24	B	M	O	P41	O	1061A	G-8	NO	YES	1-5	2, 5, 6, 15	NONE
F005B	3	B	NE	24	B	M	O	P41	O	1061A	C-7	NO	YES	1-5	2, 5, 6, 15	NONE
F006A	3	B	NE	20	B	M	C	P41	C	1061A	H-4	NO	YES	1-5	2, 5, 6, 15	NONE
F006B	3	B	NE	20	B	M	C	P41	C	1061A	A-6	NO	YES	1-5	2, 5, 6, 15	NONE
F007A	3	B	NE	4	G	M	C	P41	O/C	1061A	G-5	NO	YES	1-5	2, 5, 6, 15	NONE
F007B	3	B	NE	4	G	M	C	P41	O/C	1061A	A-4	NO	YES	1-5	2, 5, 6, 15	NONE
F008A	3	C	NE	24	C	NA	C	P41	O	1061A	F-5	NO	YES	1-5	1, 5	NOTE 3
F008B	3	C	NE	24	C	NA	C	P41	O	1061A	B-5	NO	YES	1-5	1, 5	NOTE 3
F011	3	B	NE	10	B	M	C	P41	O	1061A	F-7	NO	YES	1-5	2, 5, 6, 15	NONE
F012	3	C	NE	10	C	NA	C	P41	O/C	1061A	F-5	NO	YES	1-5	1, 5	NOTES 2 & 3
F014A	3	B	NE	18	B	M	O	P41	O	1061C	C-6	NO	YES	1-5	2, 5, 6, 15	NONE
F014B	3	B	NE	18	B	M	O	P41	O	1061D	F-4	NO	YES	1-5	2, 5, 6, 15	NONE
F015A	3	B	NE	4	G	M	C	P41	C	1061A	G-3	NO	YES	1-5	2, 5, 6, 15	NONE
F015B	3	B	NE	4	G	M	C	P41	C	1061A	C-3	NO	YES	1-5	2, 5, 6, 15	NONE

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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SYSTEM STANDBY SERVICE WATER P41

VALVE NO.	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS				
	SIZE (Inches)	CATEGORY	STATUS	WATER TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST TO POSITION	TEST TO POSITION	P & ID NO. M	CONTAMINATION AREA	HIGH RAD. AREA		TEST DURING	METHOD OF TESTING		
F016A	3	B	NE	G	M	C	C	P41	C	1061A	G-3	NO	YES	1-5	2, 5, 6, 15	NONE
F016B	3	B	NE	G	M	C	C	P41	C	1061A	C-4	NO	YES	1-5	2, 5, 6, 15	NONE
F016A	3	B	NE	B	M	C	C	P41	O	1061B	C-5	NO	YES	1-5	2, 5, 6, 15	NONE
F016B	3	B	NE	B	M	C	C	P41	O	1061B	G-3	NO	YES	1-5	2, 5, 6, 15	NONE
F019	3	C	NE	SC	H	O	C/O	P41	C/O	1061B	G-6	NO	YES	1-5	1, 5	NONE
F064A	3	B	NE	G	M	C	C	SP41	O	1061C	E-2	NO	YES	1-5	2, 5, 6, 15	NONE
F064B	3	B	NE	G	M	C	C	SP41	O	1061D	G-8	NO	YES	1-5	2, 5, 6, 15	NONE
F066A	3	B	NE	G	M	O	C	SP41	C	1061C	F-1	NO	YES	1-5	2, 5, 6, 15	NONE
F066B	3	B	NE	G	M	O	C	SP41	C	1061D	G-7	NO	YES	1-5	2, 5, 6, 15	NONE
F066C	3	B	NE	B	M	C	C	P41	O	1061C	C-7	NO	YES	1-5	2, 5, 6, 15	NONE
F068B	3	B	NE	B	M	C	C	P41	O	1061D	F-6	NO	YES	1-5	2, 5, 6, 15	NONE
F074A	3	B	NE	G	M	O	C	SP41	C	1061C	H-2	NO	YES	1-5	2, 5, 6, 15	NONE
F074B	3	B	NE	G	M	O	C	SP41	C	1061D	D-7	NO	YES	1-5	2, 5, 6, 15	NONE
F081A	3	B	NE	G	M	C	C	SP41	O	1061C	H-2	NO	YES	1-5	2, 5, 6, 15	NONE
F081B	3	B	NE	G	M	C	C	SP41	O	1061D	E-6	NO	YES	1-5	2, 5, 6, 15	NONE
F111A	3	C	NE	SC	H	O	C/O	P41	C/O	1061B	B-7	NO	YES	1-5	1, 5	NONE

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI POWER & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1

INSERVICE INSPECTION PROGRAM
 SECTION XI OF ASME CODE
 VALVE SUMMARY LISTING

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SYSTEM STANDBY SERVICE WATER P41

VALVE NO.	VALVE INFORMATION				SYSTEM INFORMATION			TEST INFORMATION			COMMENTS				
	QTY	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-		ISOLATION POINT	HIGH RADIATION AREA	TEST DURING	METHOD OF TESTING
F111B	3	C	NE	2	SC	H	0	P41	C/O	1061B	G-5	NO	1-5	1, 5	NONE
F113	3	B	NE	2	GL	M	0	P41	C/O	1061B	C-7	NO	4, 5	2, 5, 6, 15	COMMENT P41-1
F125	3	B	NE	6	G	M	0	5P41	C	1061C	F-1	NO	1-5	2, 5, 6, 15	NONE
F154	3	B	NE	3	G	M	C	P41	C	1061D	H-2	NO	1-5	2, 5, 6, 15	NOTE 4
F155A	3	B	NE	3	G	M	C	P41	C	1061D	G-2	NO	1-5	2, 5, 6, 15	NOTE 4
F155B	3	B	NE	3	G	M	C	P41	C	1061D	G-2	NO	1-5	2, 5, 6, 15	NOTE 4
F159A	2	A	NE	2	GL	M	C	P41	C/O	1061B	F-4	NO	1-5	2, 5, 6, 9, 15	NOTE IV
F159B	2	A	NE	2	GL	M	C	P41	C/O	1061D	D-2	NO	1-5	2, 5, 6, 9, 15	NOTE IV
F160A	2	A	NE	2	GL	M	C	P41	C/O	1061B	E-3	NO	1-5	2, 5, 6, 9, 15	NOTE IV
F160B	2	A	NE	2	GL	M	C	P41	C/O	1061D	D-3	NO	1-5	2, 5, 6, 9, 15	NOTE IV
F163A	2	A(P)	NE	3/4	GL	H	LC	P41	NA	1061B	E-4	NO	NA	9	NOTE IV
F163B	2	A(P)	NE	3/4	GL	H	LC	P41	NA	1061D	D-7	NO	NA	9	NOTE IV
F168A	2	A	NE	2	GL	M	C	P41	C/O	1061B	E-4	NO	1-5	2, 5, 6, 9, 15	NOTE IV
F168B	2	A	NE	2	GL	M	C	P41	C/O	1061D	E-3	NO	1-5	2, 5, 6, 9, 15	NOTE IV
F169A	2	A, C	NE	2	SC	H	0	P41	C/O	1061B	F-4	NO	1-5	5, 9, 1	NOTE IV
F169B	2	A, C	NE	2	SC	H	0	P41	C/O	1061D	E-2	NO	1-5	5, 9, 1	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

SYSTEM ENERGY RESOURCES, INC.
 GRAND GULF NUCLEAR STATION, UNIT 1
 PUMP AND VALVE INSERVICE TESTING PROGRAM

SYSTEM NAME: STANDBY SERVICE WATER SYSTEM
 P&ID(s): M-1061A, M-1061C, M1061D

VALVE SUMMARY LISTING

SYSTEM NO.: P41

VALVE NO.	VALVE INFORMATION						TEST INFORMATION						COMMENTS
	CLASS	CATEGORY	STATUS	SIZE (IN.)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST TO POSITION	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F174	3	B	NE	3	C	NA	C	C	NO	YES	5	1,5	RELIEF REQUEST P41-1
F189	3	B	NE	6	G	M	O	C	NO	YES	1-5	2,5,6,15	NONE
F236	3	C	NE	3	C	NA	O	C	NO	YES	1-5	1,5	NONE
F237	3	B	NE	3	G	M	C	O	NO	YES	1-5	2,5,6,15	NONE
F238	3	B	NE	3	G	M	C	O	NO	YES	1-5	2,5,6,15	NONE
F239	3	B	NE	3	G	AFS	O	C	NO	YES	1-5	2,5,6,8,15	NONE
F240	3	B	NE	3	G	AFS	O	C	NO	YES	1-5	2,5,6,8,15	NONE
F241	3	B	NE	3	G	M	O	C	NO	YES	1-5	2,5,6,15	NONE
F299A	3	C	NE	6	RV	H	C	C	NO	YES	4,5	10	NONE
F299B	3	C	NE	6	RV	H	C	C	NO	YES	4,5	10	NONE

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

VALVE SUMMARY LISTING - COMMENTS

P41 STANDBY SERVICE WATER SYSTEM (P&IDs M-1061A, M-1061B, M-1061C, M-1061D)

P41-1 VALVE: F113 (M-1061B, D-6)

 CATEGORY: B

 CLASS: 3

 TYPE: Motor operated globe

 FUNCTION: Discharge valve from standby service water fill tank.

 TEST REQUIREMENTS: Exercise every 3 months.

 EXPLANATION: Failure of this single discharge valve in the closed position would jeopardize tank availability.

 ALTERNATE TESTING: Exercise during cold shutdown and refueling.

P41-2 Deleted.

VALVE SUMMARY LISTING - NOTES FOR P41

1. Deleted
2. Prevents system draining to basin; must open to prevent dead-heading of HPCS Service Water Pump.
3. To meet the requirements of IE Bulletin 83-03, these valves will be disassembled and inspected during the first refueling outage. Thereafter, these valves shall be disassembled and inspected once during every 5 years.
4. Isolates turbine building cooling water.

MISSISSIPPI 3 & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1

INSERVICE INSPECTION PROGRAM
 SECTION XI OF ASME CODE
 VALVE SUMMARY LISTING

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SYSTEM COMPONENT COOLING WATER P42

JOB 15026

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F035	2	A,C	NE	10	C	NA	D	P42	C	1063B	H-7	NO	YES	4, 5	1, 5, 9	NOTE IV COMMENT P42-1
F066	2	A	NE	10	G	M	D	P42	C	1063B	H-7	NO	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT P42-2
F067	2	A	NE	10	G	M	D	P42	C	1063B	E-8	NO	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT P42-3
F068	2	A	NE	10	G	M	D	P42	C	1063B	D-8	NO	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT P42-3
F114	2	B	NE	8	G	M	D	P42	C	1063B	H-5	NO	YES	4, 5	2, 5, 6, 15	COMMENT P42-4
F115	2	C	NE	8	C	NA	D	P42	C	1063B	H-5	YES	YES	4, 5	1, 5	COMMENT P42-5
F116	2	B	NE	8	G	M	D	P42	C	1063B	C-5	YES	YES	4, 5	2, 5, 6, 15	COMMENT P42-6
F117	2	B	NE	8	G	M	D	P42	C	1063B	C-5	NO	YES	4, 5	2, 5, 6, 15	COMMENT P42-4
F161	2	A(P)	NE	3/4	GL	H	LC	P42	NA	1063B	H-7	NO	YES	NA	9	NOTE IV
F162	2	A(P)	NE	3/4	GL	H	LC	P42	NA	1063B	D-8	NO	YES	NA	9	NOTE IV
F200A	3	B	NE	8	B	M	C	P42	O/C	1063A	G-3	NO	YES	1-5	2, 5, 6, 15	NONE
F200B	3	B	NE	8	B	M	C	P42	O/C	1063A	F-4	NO	YES	1-5	2, 5, 6, 15	NONE
F201A	3	B	NE	8	B	M	C	P42	O/C	1063A	F-8	NO	YES	1-5	2, 5, 6, 15	NONE
F201B	3	B	NE	8	B	M	C	P42	O/C	1063A	E-7	NO	YES	1-5	2, 5, 6, 15	NONE

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.
 15026-M-189.1 1ST P42 TABLE 1

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MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
UNIT 1
INSERVICE INSPECTION PROGRAM
PUMP AND VALVE



COMMENTS

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P42. COMPONENT COOLING WATER SYSTEM (M-1063A, B)

P42-1. VALVE: F035 (M-1063B, H-7)
CATEGORY: A, C
CLASS: 2
TYPE: Check

FUNCTION: Containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Verification of positive valve closure would require an interruption of normal cooling water to the reactor recirculation pump motor bearings and seals, and RWCU nonregenerative heat exchangers. This could result in a loss of RWCU demineralizers and manual trip of the reactor recirculation pumps. This could result in a reactor shutdown.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

P42-2. VALVE: F066 (M-1063B, H-7)
CATEGORY: A
CLASS: 2
TYPE: Motor operated gate

FUNCTION: Containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Same as F035.

ALTERNATE TESTING: Same as F035.

P42-3. VALVE: F067, F068 (M-1063B, D-8)
CATEGORY: A
CLASS: 2
TYPE: Motor operated gate

FUNCTION: Containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Same as F035.

ALTERNATE TESTING: Same as F035.

MISSISSIPPI POWER & LIGHT COMPANY
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COMMENTS

P42-4. VALVE: F114, F117 (M-1063B, H-5, C-5)
CATEGORY: B
CLASS: 2
TYPE: Motor operated gate

FUNCTION: Drywell isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Same as F035.

ALTERNATE TESTING: Same as F035.

P42-5. VALVE: F115 (M-1063B, H-5)
CATEGORY: C
CLASS: 2
TYPE: Check

FUNCTION: Drywell isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Same as F035. In addition, valve is located in the drywell, which is inaccessible due to high radiation.

ALTERNATE TESTING: Same as F035.

P42-6. VALVE: F116 (M-1063B, D-5)
CATEGORY: B
CLASS: 2
TYPE: Motor operated gate

FUNCTION: Drywell isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Same as F035. In addition, valve is located in the drywell, which is inaccessible during reactor operation.

ALTERNATE TESTING: Same as F035.

MISSISSIPPI POWER & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1

INSERVICE INSPECTION PROGRAM
 SECTION XI OF ASME CODE
 VALVE SUMMARY LISTING

PLANT SERVICE WATER P44

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SYSTEM

VALVE NO.	CLASS	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION				COMMENTS		
		CAT	ST	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYST. POS.	TEST TO POSITION	P & ID NO.	INSULATION	HIGH RADIATION AREA	TEST-ABLE		TEST DURING	METHOD OF TESTING
F042	3	B	NE	8	B	M	C	P44	C	1072B	G-5	NO	YES	1-5	2, 5, 6, 15	NONE
F043	2	A, C	NE	4	C	NA	O	P44	C	1072B	F-6	YES	YES	4, 5	1, 5, 9	NOTE IV COMMENT P44-1
F052	3	C	NE	8	C	NA	O	P44	C	1072B	G-7	NO	YES	4, 5	1, 5	COMMENT P44-2
F053	2	A	NE	4	G	M	O	P44	C	1072B	F-6	NO	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT P44-3
F054	3	B	NE	8	B	M	C	P44	C	1072B	G-4	NO	YES	1-5	2, 5, 6, 15	NONE
F067	3	B	NE	8	B	M	C	P44	C	1072B	G-7	NO	YES	4, 5	2, 5, 6, 15	COMMENT P44-4
F069	2	A	NE	4	G	M	O	P44	C	1072B	G-8	NO	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT P44-5
F070	2	A	NE	4	G	M	O	P44	C	1072B	F-8	YES	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT P44-5
F074	2	B	NE	4	G	M	O	P44	C	1072B	E-6	YES	YES	4, 5	2, 5, 6, 15	COMMENT P44-6
F075	2	C	NE	4	C	NA	O	P44	C	1072B	E-6	YES	YES	4, 5	1, 5	COMMENT P44-7
F076	2	B	NE	4	G	M	O	P44	C	1072B	E-8	YES	YES	4, 5	2, 5, 6, 15	COMMENT P44-8
F077	2	B	NE	4	G	M	O	P44	C	1072B	E-8	YES	YES	4, 5	2, 5, 6, 15	COMMENT P44-6
F116	3	B	NE	24	B	AFS	O	P44	C	1072A	B-5	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT P44-10
F117	3	B	NE	24	B	AFS	O	P44	C	1072A	B-6	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT P44-10
F118	3	B	NE	24	B	AFS	O	P44	C	1072A	B-8	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT P44-9
F119	3	B	NE	24	B	AFS	O	P44	C	1072A	A-8	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT P44-9

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI POWER & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1

INSERVICE INSPECTION PROGRAM
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SYSTEM

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F120	3	B	NE	36	B	AFS	0	P44	C	1072A	F-8	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT P44-9
F121	3	B	NE	36	B	AFS	0	P44	C	1072A	G-8	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT P44-9
F122	3	B	NE	30	B	AFS	0	P44	C	1072A	H-6	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT P44-10
F123	3	B	NE	30	B	AFS	0	P44	C	1072A	H-6	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT P44-10
F333	2	A(P)	NE	3/4	GL	H	LC	P44	NA	1072B	F-6	NO	YES	NA	9	NOTE IV

MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
UNIT 1



INSERVICE INSPECTION PROGRAM

PUMP AND VALVE

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P44. PLANT SERVICE WATER SYSTEM (M-1072A, B)

P44-1. VALVE: F043 (1072B, F-6)
CATEGORY: A, C
CLASS: 2
TYPE: Check

FUNCTION: Containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Verification of positive closure would require an interruption of drywell chilled water. Failure of this valve to reopen could cause drywell temperatures/pressure to increase causing possible activation of reactor scram and ECCS logic.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

P44-2. VALVE: F052 (M-1072B, G-7)
CATEGORY: C
CLASS: 3
TYPE: Check

FUNCTION: To stop back flow from SSW to PSW.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: To check that the valve closes will require shutdown of PSW. This would cause a loss of cooling water flow to the drywell chillers and containment chillers and loss of makeup to the cooling tower circulating water, etc.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

P44-3. VALVE: F053 (M-1072B, G-6)
CATEGORY: A
CLASS: 2
TYPE: Motor operated gate

FUNCTION: Containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Same as F043.

ALTERNATE TESTING: Same as F043.

MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
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-
- P44-4. VALVE: F067 (M-1072B, G-7)
CATEGORY: B
CLASS: 3
TYPE: Motor operated butterfly
- FUNCTION: Provides interface between PSW and SSW systems.
- TEST REQUIREMENTS: Exercise every 3 months.
- EXPLANATION: This valve is interlocked with F068, which closes automatically when F067 is opened. Closure of F068 would isolate cooling water to the drywell chillers and cause drywell temperatures to rise. A plant shutdown would result if the chillers were not brought back on line in a timely manner.
- ALTERNATE TESTING: Exercise during cold shutdown and refueling.
- P44-5. VALVE: F065 F070 (M-1072B, G-8)
CATEGORY: A
CLASS: 2
TYPE: Motor operated gate
- FUNCTION: Containment isolation.
- TEST REQUIREMENTS: Exercise every 3 months.
- EXPLANATION: Same as F043.
- ALTERNATE TESTING: Same as F043.
- P44-6. VALVE: F074, F077 (M-1072B, E-6, E-8)
CATEGORY: B
CLASS: 2
TYPE: Motor operated gate
- FUNCTION: Drywell isolation.
- TEST REQUIREMENTS: Exercise every 3 months.
- EXPLANATION: Same as F043.
- ALTERNATE TESTING: Same as F043.
- P44-7. VALVE: F075 (M-1072B, D-6)
CATEGORY: C
CLASS: 2
TYPE: Check

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GRAND GULF NUCLEAR STATION
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FUNCTION: Drywell isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Same as F043.

ALTERNATE TESTING: Same as F043.

P44-8. VALVE: F076 (M-1072B, E-8)
CATEGORY: B
CLASS: 2
TYPE: Motor operated gate

FUNCTION: Drywell isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Same as F043.

ALTERNATE TESTING: Same as F043.

P44-9. VALVE: F118, F119, F120, F121 (M-1072A, B-8, A-8, F-8, G-8)
CATEGORY: B
CLASS: 3
TYPE: Air operated butterfly (AFS)

FUNCTION: Secondary containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Stroking any of these valves at power would introduce flow and pressure transients into the PSW system which would upset circulating water makeup and PSW blowdown flow control. The drywell chillers are extremely sensitive to PSW flow perturbations. If the chillers tripped and could not be restarted quickly, a SCRAM and an ECCS injection could result due to high drywell pressure.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

P44-10. VALVE: F116, F117, F122, F123 (M-1072A, B-8, B-6, H-6, H-6)
CATEGORY: B
CLASS: 3
TYPE: Air operated butterfly (AFS)

FUNCTION: Secondary containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

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EXPLANATION: Failure of any of these valves and subsequent penetration isolation would result in a loss of cooling water to the TBCW heat exchangers. This would result in a loss of cool water supply to the reactor feed pump turbine lube oil cooler, the main turbine lube oil cooler, condensate pump motor bearing oil cooler, the heater drain pump bearing coolers, the condensate booster pump bearing coolers, isophase bus coolers, and exciter coolers. This would cause a plant shutdown.

ALTERNATIVE TESTING: Exercise during cold shutdown and refueling.

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 GRAND GULF NUCLEAR STATION
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SYSTEM FLOOR AND EQUIPMENT DRAINS P45

VALVE INFORMATION								SYSTEM INFORMATION					TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING		
F003	2	B	NE	3	G	AFS	0	P45	C	1094A	H-6	YES	YES	4, 5	2, 5, 6, 8, 15	COMMENT P45-1	
F004	2	B	NE	3	G	AFS	0	P45	C	1094A	H-6	YES	YES	4, 5	2, 5, 6, 8, 15	COMMENT P45-2	
F009	2	B	NE	3	G	AFS	0	P45	C	1094A	E-6	YES	YES	4, 5	2, 5, 6, 8, 15	COMMENT P45-1	
F010	2	B	NE	3	G	AFS	0	P45	C	1094A	E-6	YES	YES	4, 5	2, 5, 6, 8, 15	COMMENT P45-2	
F061	2	A	NE	6	G	AFS	0	P45	C	1094B	D-3	YES	YES	4, 5	2, 5, 6, 8, 9, 15	NOTE IV COMMENT P45-2	
F062	2	A	NE	6	G	AFS	0	P45	C	1094B	D-2	YES	YES	4, 5	2, 5, 6, 8, 9, 15	NOTE IV COMMENT P45-2	
F067	2	A	NE	6	G	AFS	0	P45	C	1094B	F-3	YES	YES	4, 5	2, 5, 6, 8, 9, 15	NOTE IV COMMENT P45-2	
F068	2	A	NE	6	G	AFS	0	P45	C	1094B	F-2	YES	YES	4, 5	2, 5, 6, 8, 9, 15	NOTE IV COMMENT P45-2	
F096	2	B	NE	1½	GL	M	0	P45	C	1094A	C-7	YES	YES	1-5	2, 5, 6, 15	NONE	
F097	2	B	NE	1½	GL	M	0	P45	C	1094A	C-7	YES	YES	1-5	2, 5, 6, 15	NONE	
F098	2	A	NE	3	G	AFS	0	P45	C	1094A	B-6	YES	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV	
F099	2	A	NE	3	G	AFS	0	P45	C	1094A	B-6	YES	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV	
F158	3	B	NE	8	G	AFS	0	P45	C	1094C	E-1	YES	YES	1-5	2, 5, 6, 8, 15	NONE	
F159	3	B	NE	8	G	AFS	0	P45	C	1094C	E-1	YES	YES	1-5	2, 5, 6, 8, 15	NONE	
F160	3	B	NE	8	G	AFS	0	P45	C	1094C	B-2	YES	YES	4, 5	2, 5, 6, 8, 15	COMMENT P45-3	
F161	3	B	NE	8	G	AFS	0	P45	C	1094C	C-2	YES	YES	4, 5	2, 5, 6, 8, 15	COMMENT P45-3	

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI POWER & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION

UNIT 1

INSERVICE INSPECTION PROGRAM
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 VALVE SUMMARY LISTING

FLOOR AND EQUIPMENT DRAINS P45
 SYSTEM

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VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	VALVE INFORMATION		SYSTEM INFORMATION			TEST INFORMATION			COMMENTS		
						ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO M -	COORINATION AREA	HIGH RADIATION AREA	TEST DURING		METHOD OF TESTING	
F163	3	B	NE	3	G	AFS	0	P45	C	1094C	E-5	YES	1-5	2, 5, 6, 8, 15	NONE	
F273	2	A	NE	4	G	M	C	P45	O/C	1094C	B-1	NO	1-5	2, 5, 6, 9, 15	NOTE IV	
F274	2	A	NE	4	G	M	C	P45	O/C	1094C	C-1	NO	1-5	2, 5, 6, 9, 15	NOTE IV	
F275	2	A(P)	NE	3/4	GL	H	LC	P45	NA	1094C	C-1	NO	NA	9	NOTE IV	
F290	2	A(P)	NE	3/4	GL	H	LC	P45	NA	1094C	C-1	NO	NA	9	NOTE IV	

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
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P45. FLOOR AND EQUIPMENT DRAINS (M-1094)

P45-1. VALVES: F003 (M-1094A, H-6)
F009 (M-1094A, E-6)
CATEGORY: B
CLASS: 2
TYPE: Air operated gate (AFS)

FUNCTION: Drywell isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Valve failure in the closed position would result in a partial loss of the ability to monitor reactor coolant system unidentified and identified leakage. Valves are located in the drywell, which is inaccessible during power operation, and repair would require plant shutdown.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

P45-2. VALVES: F004 (M-1094A, E-6)
F010 (M-1094A, E-6)
F061 (M-1094B, D-3)
F062 (M-1094B, D-2)
F067 (M-1094B, F-3)
F068 (M-1094B, F-2)
CATEGORY: A or B
CLASS: 2
TYPE: Air operated gate (AFS)

FUNCTION: Discharge isolation for the drywell equipment drain sump and the drywell floor drain sump.

EXPLANATION: Valve failure in the closed position would result in a partial loss of the ability to monitor reactor coolant system unidentified and identified leakage. If valve repairs could not be accomplished in a timely manner, a plant shutdown would result.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

P45-3. VALVES: F160, F161 (M-1094C, B-2, C-2)
CATEGORY: B
CLASS: 3
TYPE: Air operated gate (AFS)

FUNCTION: Secondary containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

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EXPLANATION: Failure of either valve and subsequent penetration isolation would result in an inability to discharge dirty radwaste from the auxiliary building floor drain transfer tank, which receives water from the auxiliary building floor drain sump, containment floor drain sump, drywell floor drain sump, and the emergency equipment room sumps. Increasing floor water level would force equipment de-energization and plant shutdown. Also, contamination of large floor areas would require decontamination (i.e., personnel doses).

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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GRAND GULF NUCLEAR STATION

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SERVICE AIR P52

SYSTEM

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VALVE NO.	CLASSIFICATION	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS		
		CATEGORY	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	ORIGIN	TEST POSITION	P & ID NO	CLASSIFICATION	HIGH RADIATION AREA	TEST DURING		METHOD OF TESTING	
F105	2	A	3	G	AFS	0	P52	C	1068A	C-6	NO	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV
F127	2	A, C	3	C	NA	0	P52	C	1068A	C-6	NO	YES	1-5	1, 5, 9	NOTE IV
F160A	3	B	4	G	AFS	0	P52	C	1068A	D-5	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F160B	3	B	4	G	AFS	0	P52	C	1068A	D-4	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F195	2	B	2	GL	H	C	P52	C	1068A	B-5	NO	YES	1-5	2, 5, 6, 15	NONE
F196	2	C	2	SC	H	C	P52	C	1068A	B-5	YES	YES	4, 5	1, 5	COMMENT P52-1
F221A	3	B	4	G	AFS	0	P52	C	1068A	C-2	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F221B	3	B	4	G	AFS	0	P52	C	1068A	D-2	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F258	2	A(P)	3/4	GL	H	LC	P52	NA	1068A	B-6	NO	YES	NA	9	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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COMMENTS

P52. SERVICE AIR SYSTEM (M-1068A)

P52-1. VALVE: F196 (M-1068A, B-5)
CATEGORY: C
CLASS: 2
TYPE: Stop check

FUNCTION: Drywell isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: This valve is located in the drywell, where high radiation precludes testing at the required frequency.

ALTERNATE TESTING: Exercise during cold shutdown and refueling. |

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SYSTEM INSTRUMENT AIR P53

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F001	2	A	NE	2½	G	AFS	0	P53	C	1067A	B-5	NO	YES	4, 5	2, 5, 6, 8, 9, 15	NOTE IV COMMENT P53-1
F002	2	A, C	NE	2½	C	NA	0	P53	C	1067A	B-5	NO	YES	4, 5	1, 5, 9	NOTE IV COMMENT P53-2
F003	2	A	NE	1	GL	M	0	P53	C	1067A	A-5	NO	YES	4, 5	2, 5, 6, 9, 15	NOTE IV COMMENT P53-3
F006	2	A, C	NE	¾	C	NA	0	P53	O/C	1067A	A-4	YES	YES	4, 5	1, 5, 9	NOTE IV COMMENT P53-4
F007	2	B	NE	2	GL	M	0	P53	O/C	1067A	B-4	NO	YES	4, 5	2, 5, 6, 15	COMMENT P53-5
F008	2	C	NE	2	SC	H (10)	0	P53	C/O	1067A	B-4	YES	YES	4, 5	1, 5	COMMENT P53-6
F012	3	C	NE	¾	SC	H (10)	0	P53	0	1067	A-3	YES	YES	4, 5	1, 5	COMMENT P53-6
F026A	3	B	NE	2½	G	AFS	0	P53	C	1067A	C-6	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT P53-7
F026B	3	B	NE	2½	G	AFS	0	P53	C	1067E	G-8	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT P53-7
F036	2	A(P)	NE	¾	GL	H	LC	P53	NA	1067A	B-5	NO	YES	NA	9	NOTE IV
F043	2	A(P)	NE	¾	GL	H	LC	P53	NA	1067A	A-5	NO	YES	NA	9	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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COMMENTS

P53. INSTRUMENT AIR SYSTEM (M-1067A, E)

P53-1. VALVE: F001 (M-1067A, B-5)
CATEGORY: A
CLASS: 2
TYPE: Air operated gate

FUNCTION: Containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Failure of the valve in the closed position would result in a loss of air to the CRD flow control station, which would affect cooling water flow to the CRDs. This would also result in a loss of air to the SCRAM valves (resulting in random individual rod scrams) and the MSIV accumulators (which, as the accumulators bled down, would allow the MSIV's to drift closed). A SCRAM would result.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

P53-2. VALVE: F002 (M-1067A, B-5)
CATEGORY: A, C
CLASS: 2
TYPE: Check

FUNCTION: Containment isolation upon reverse flow, post LOCA.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Same as F001.

ALTERNATE TESTING: Same as F001.

P53-3. VALVE: F003 (M-1067A, A-5)
CATEGORY: A
CLASS: 2
TYPE: Motor operated globe

FUNCTION: Containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Failure of the valve in the closed position would result in a loss of air to the ADS receivers. As the receivers and accumulators bled down, the ADS function would be lost.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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COMMENTS

P53-4. VALVE: F006 (M-1067A, A-4)
CATEGORY: A, C
CLASS: 2
TYPE: Check

FUNCTION: Drywell isolation upon reverse flow, post LOCA.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Same as F003. Also, this valve is inside the drywell and is inaccessible.

ALTERNATE TESTING: Same as F003.

P53-5. VALVE: F007 (M-1067A, B-4)
CATEGORY: B
CLASS: 2
TYPE: Motor operated globe.

FUNCTION: Drywell isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Failure of the valve in the closed position would result in a loss of air to the MSIV accumulators. As the accumulators bled down, the MSIVs would drift closed and cause a reactor trip.

ALTERNATE TESTING: Same as F001.

P53-6. VALVE: F008 (M-1067A, B-4), F012 (M-1067A, A-3)
CATEGORY: C
CLASS: 2
TYPE: Stop check

FUNCTION: Drywell isolation upon reverse flow, post LOCA.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: These valves are inside the drywell, which is a high radiation area. Testing requires personnel access and can be done only during shutdown conditions.

ALTERNATE TESTING: Same as F001.

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COMMENTS

P53-7. VALVES: F026A (M-1067A, C-6)
F026B (M-1067A, G-8)
CATEGORY: B
CLASS: 3
TYPE: Air operated gate (AFS)

FUNCTION: Secondary containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Verification of valve closure will interrupt instrument air supply to numerous systems and components required to support power operation. These systems and components include MSIV accumulators; main steam SRV receivers and accumulators; numerous air-operated valves located in the auxiliary building, containment, and drywell; control rod drive system; and numerous instrument panels, etc. Loss of instrument air supply would result in a reactor trip.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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SYSTEM SUPPRESSION POOL CLEANUP P60

VALVE NO.	CLASS	VALVE INFORMATION			SYSTEM INFORMATION			TEST INFORMATION			COMMENTS					
		CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M-		COOLING POINTS	HIGH RADIATION AREA	TEST DURING	METHOD OF TESTING	
F001	2	B	NE	12	G	AFS	C	P60	C	1099	0-4	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F003	3	B	NE	12	G	AFS	0	P60	C	1099	E-3	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F004	3	B	NE	12	G	AFS	0	P60	C	1099	E-3	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F007	3	B	NE	12	G	AFS	0	P60	C	1099	F-6	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F008	3	B	NE	12	G	AFS	0	P60	C	1099	F-6	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F009	2	A	NE	12	G	AFS	0	P60	C	1099	F-6	NO	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV
F010	2	A	NE	12	G	AFS	0	P60	C	1099	F-7	NO	YES	1-5	2, 5, 6, 8, 9, 15	NOTE IV
F011	2	A(P)	NE	3/4	GL	H	LC	P60	NA	1099	E-6	NO	YES	NA	9	NOTE IV
F021	2	B	NE	12	G	AFS	C	P60	C	1099	D-5	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F034	2	A(P)	NE	3/4	GL	H	LC	P60	NA	1099	F-7	NO	YES	NA	9	NOTE IV

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI 1 & LIGHT COMPANY
 GRAND GL NUCLEAR STATION
 UNIT 1

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SYSTEM FIRE PROTECTION P64

JOB 15026

VALVE INFORMATION								SYSTEM INFORMATION					TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING		
F282A	3	B	NE	10	G	AFS	0	P64	C	0035B	C-4	NO	YES	1-5	2, 5, 6, 8, 15	NOTE 1	
F282B	3	B	NE	10	G	AFS	0	P64	C	0035B	C-4	NO	YES	1-5	2, 5, 6, 8, 15	NOTE 1	
F283A	3	B	NE	10	G	AFS	0	P64	C	0035B	C-7	NO	YES	1-5	2, 5, 6, 8, 15	NOTE 2	
F283B	3	B	NE	10	G	AFS	0	P64	C	0035B	C-7	NO	YES	1-5	2, 5, 6, 8, 15	NOTE 2	
F332A	3	B	NE	3	G	AFS	0	P64	C/O	0035E	F-6	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT P64-1	
F332B	3	B	NE	3	G	AFS	0	P64	C/O	0035E	E-6	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT P64-1	

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.
 15026-M-189.1 ISI P64 TBL 1

MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
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PUMP AND VALVE



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P64. FIRE PROTECTION SYSTEM (M-0035E)

P64-1. VALVE: F332A and B (M-0035E, F-6, E-6)
CATEGORY: B
CLASS: 3
TYPE: Air operated gate (AFS)

FUNCTION: Secondary containment isolation

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Failure of either of these valves in the closed position would result in a loss of fire protection (CO₂) to 10 ESF switchgear rooms. A fire watch with backup fire suppression equipment would be established, as required by GGNS Technical Specification 3.7.6.3, but the primary means of fire protection would be lost.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
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INSERVICE INSPECTION PROGRAM
PUMP AND VALVE

NOTES FOR SP64

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1. During verification of positive valve closure of valves F282A and/or F282B, care must be taken to ensure that bypass valve FA10A is open.
 2. During verification of positive valve closure of valves F283A and/or F283B, care must be taken to ensure that bypass valve FA10B is open.

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DOMESTIC WATER SP66

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SYSTEM

VALVE NO.	CLASS	VALVE INFORMATION				SYSTEM INFORMATION						TEST INFORMATION			COMMENTS	
		CATEGORY	STATUS	SIZE (inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING		METHOD OF TESTING
F029A	3	B	NE	3	G	AFS	0	SP66	C	0034B	E-3	NO	YES	1-5	2, 5, 6, 8, 15	NOTE 1

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI POWER & LIGHT COMPANY
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NOTES FOR SP66

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1. Closure of valve F029A will isolate the water supply to emergency decontamination stations located in the auxiliary building. Precautions must be taken during valve testing.

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PLANT CHILLED WATER P71

SYSTEM

VALVE NO.	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS		
	CLASSIFICATION	CATEGORY	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYMBOL	POSITION	P & ID NO	INSPECTION AREA	HIGH RADIATION AREA		TEST DURING	METHOD OF TESTING
F148	2	A	4	G	AFS 0	0	P71	C	11090	F-B	NO	YES	2, 5, 6, 8, 9, 15	NOTE IV
F149	2	A	4	G	AFS 0	0	P71	C	11090	F-7	NO	YES	2, 5, 6, 8, 9, 15	NOTE IV
F150	2	A	4	G	AFS 0	0	P71	C	11090	F-B	NO	YES	2, 5, 6, 8, 9, 15	NOTE IV
F151	2	A, C	4	C	NA	0	P71	C	11090	F-7	NO	YES	1, 5, 9	NOTE IV COMMENT P71-1
F232	2	A(P)	3/4	GL	H	LC	P71	NA	11090	F-B	NO	YES	9	NOTE IV
F246	2	A(P)	3/4	GL	H	LC	P71	NA	11090	F-7	NO	YES	9	NOTE IV
F300	3	B	2 1/2	G	AFS 0	0	P71	C	11090	C-7	NO	YES	2, 5, 6, 8, 15	NONE
F301	3	B	2 1/2	G	AFS 0	0	P71	C	11090	C-7	NO	YES	2, 5, 6, 8, 15	NONE
F302	3	B	2 1/2	G	AFS 0	0	P71	C	11090	C-B	NO	YES	2, 5, 6, 8, 15	NONE
F303	3	B	2 1/2	G	AFS 0	0	P71	C	11090	C-7	NO	YES	2, 5, 6, 8, 15	NONE
F304	3	B	8	G	AFS 0	0	P71	C	1109A	F-3	NO	YES	2, 5, 6, 8, 15	COMMENT P71-2
F305	3	B	8	G	AFS 0	0	P71	C	1109A	F-3	NO	YES	2, 5, 6, 8, 15	COMMENT P71-2
F306	3	B	8	G	AFS 0	0	P71	C	1109A	F-4	NO	YES	2, 5, 6, 8, 15	COMMENT P71-2
F307	3	B	8	G	AFS 0	0	P71	C	1109A	F-4	NO	YES	2, 5, 6, 8, 15	COMMENT P71-2

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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P71. PLANT CHILLED WATER SYSTEM (M-1109D)

P71-1. VALVE: F151 (M-1109D, E-7)
CATEGORY: A, C
CLASS: 2
TYPE: Check

FUNCTION: Containment isolation on reverse flow, post LOCA, and open on flow to fan cooling units.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Verification of valve closure would require an interruption of normal chilled water to containment cooling fan units.

Failure in the closed position would defeat the heat removal capability and cause containment temperatures to rise. A plant shutdown could result.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

P71-2. VALVES: F304, F305, F306, F307 (M-1109A, E-3, E-4)
CATEGORY: B
CLASS: 3
TYPE: Air operated gate (AFS)
FUNCTION: Secondary containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Closure of any of these valves will interrupt plant chilled water flow and, due to system interlocks, will trip the chilled water pumps. Failure of the valve to reopen will result in a loss of chilled water to numerous fan coil units throughout the plant. Without chilled water, area temperatures will rise and force a plant shutdown.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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SYSTEM ENERGY RESOURCES, INC.
 GRAND GULF NUCLEAR STATION, UNIT 1
 PUMP AND VALVE INSERVICE TESTING PROGRAM

VALVE SUMMARY LISTING

SYSTEM NO.: P75

SYSTEM NAME: STANDBY DIESEL GENERATOR SYSTEM

P&ID(s): M-1070A, M-1070B

VALVE NO.	VALVE INFORMATION						TEST INFORMATION						COMMENTS
	CLASS	CATEGORY	STATUS	SIZE (IN.)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST TO POSITION	HIGH RADIATION AREA	TESTABLE	DURING	METHOD OF TESTING	
FO03A	3	C	NE	2	SC	H (LO)	O	O	NO	YES	1-5	1,5	NONE
FO03B	3	C	NE	2	SC	H (LO)	O	O	NO	YES	1-5	1,5	NONE
FO06A	3	C	NE	2	SC	H (LO)	O	O	NO	YES	1-5	1,5	NONE
FO06B	3	C	NE	2	SC	H (LO)	O	O	NO	YES	1-5	1,5	NONE
FO07A	3	C	NE	8	C	NA	C	O	NO	YES	1-5	1,5	RELIEF REQUEST P75-5
FO07B	3	C	NE	8	C	NA	C	O	NO	YES	1-5	1,5	RELIEF REQUEST P75-5
FO09A	3	C	NE	3	C	NA	O/C	C	NO	YES	1-5	1,5	NONE
FO09B	3	C	NE	3	C	NA	O/C	C	NO	YES	1-5	1,5	NONE
FO09C	3	C	NE	3	C	NA	O/C	C	NO	YES	1-5	1,5	NONE
FO09D	3	C	NE	3	C	NA	O/C	C	NO	YES	1-5	1,5	NONE
FO11A	3	C	NE	3	C	NA	O	O	NO	YES	1-5	1,5	NONE

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

VALVE SUMMARY LISTING

SYSTEM NAME: STANDBY DIESEL GENERATOR SYSTEM

SYSTEM NO.: P75

P&ID(s): M-1070A, M-1070B

VALVE NO.	VALVE INFORMATION					TEST INFORMATION					COMMENTS	
	CLASS	CATEGORY	STATUS	SIZE (IN.)	VALVE TYPE	ACTUATOR TYPE	NOR-MAL POSITION	TEST TO POSITION	HIGH RADIATION AREA	TEST-ABLE		TEST DURING
F011B	3	C	NE	3	C	NA	O	NO	YES	1-5	1,5	NONE
F011C	3	C	NE	3	C	NA	O	NO	YES	1-5	1,5	NONE
F011D	3	C	NE	3	C	NA	O	NO	YES	1-5	1,5	NONE
F025A	3	C	NE	1 1/2	RV	NA	NA	NO	YES	4,5	10	NONE
F025B	3	C	NE	1 1/2	RV	NA	NA	NO	YES	4,5	10	NONE

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST. IST-FM-02, R/0

VALVE NO.	CLASS	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION				COMMENTS		
		CATEGORY	STAGS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	COORINATION	HIGH RADIATION AREA	TEST-ABLE		TEST DURING	METHOD OF TESTING
F025C	3	C	NE	1 1/2	RV	NA	C	P75	NA	1070B	E-5	NO	YES	4, 5	10	NONE
F025D	3	C	NE	1 1/2	RV	NA	C	P75	NA	1070B	A-8	NO	YES	4, 5	10	NONE
F034A	3	C	NE	8	C	NA	C	P75	C	1070A	C-4	NO	YES	1-5	1, 5	RELIEF REQUEST P75-5
F034B	3	C	NE	8	C	NA	C	P75	C	1070B	C-4	NO	YES	1-5	1, 5	RELIEF REQUEST P75-5
F038A	3	C	NE	1 1/2	C	NA	0	P75	C	1070A	C-3	NO	YES	1-5	1, 5	RELIEF REQUEST P75-5
F038B	3	C	NE	1 1/2	C	NA	0	P75	C	1070B	C-3	NO	YES	1-5	1, 5	RELIEF REQUEST P75-5
F045A	3	C	NE	5	C	NA	0	P75	C	1070A	D-4	NO	YES	1-5	1, 5	RELIEF REQUEST P75-3
F045B	3	C	NE	5	C	NA	0	P75	C	1070B	D-4	NO	YES	1-5	1, 5	RELIEF REQUEST P75-3

MISSISSIPPI 1 & LIGHT COMPANY
 GRAND GL JCLEAR STATION
 UNIT 1

INSERVICE INSPECTION PROGRAM
 SECTION XI OF ASME CODE
 VALVE SUMMARY LISTING

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SYSTEM STANDBY DIESEL GENERATOR P75

JOB 15026

VALVE INFORMATION								SYSTEM INFORMATION					TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING		
F050A	3	C	NE	6	C	NA	C	P75	O/C	1070A	F-3	NO	YES	1-5	1, 5	RELIEF REQUEST P75-3	
F050B	3	C	NE	6	C	NA	C	P75	O/C	1070B	F-3	NO	YES	1-5	1, 5	RELIEF REQUEST P75-3	
F059A	3	C	NE	6	C	NA	C	P75	O	1070A	E-5	NO	YES	1-5	1, 5	RELIEF REQUEST P75-3	
F059B	3	C	NE	6	C	NA	C	P75	O	1070B	E-5	NO	YES	1-5	1, 5	RELIEF REQUEST P75-3	
F077A	3	C	NE	1	C	NA	C	P75	O	1070C	G-6	NO	YES	1-5	1, 5	RELIEF REQUEST P75-2	
F077B	3	C	NE	1	C	NA	C	P75	O	1070D	G-5	NO	YES	1-5	1, 5	RELIEF REQUEST P75-2	
F078A	3	C	NE	1	C	NA	C	P75	C	1070C	G-5	NO	YES	1-5	1, 5	RELIEF REQUEST P75-2	
F078B	3	C	NE	1	C	NA	C	P75	C	1070D	H-6	NO	YES	1-5	1, 5	RELIEF REQUEST P75-2	
F079A	3	C	NE	3	C	NA	D	P75	O/C	1070C	D-6	NO	YES	1-5	1, 5	NONE	
F079B	3	C	NE	3	C	NA	D	P75	C/O	1070C	D-6	NO	YES	1-5	1, 5	NONE	

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.
 15026-M-189.1 ISI P75 TBL 1

MISSISSIPPI POWER & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1

INSERVICE INSPECTION PROGRAM
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STANDBY DIESEL GENERATOR P75

SYSTEM

VALVE NO.	CLASS	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS			
		CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO	CONTAINMENT AREA	HIGH RADIATION AREA		TEST DURING	METHOD OF TESTING	
F079C	3	C	NE	3	C	NA	0	P75	C/O	1070C	D-6	NO	YES	1-5	1, 5	NONE
F079D	3	C	NE	3	C	NA	0	P75	C/O	1070C	D-5	NO	YES	1-5	1, 5	NONE
F079E	3	C	NE	3	C	NA	0	P75	C/O	1070D	D-6	NO	YES	1-5	1, 5	NONE
F079F	3	C	NE	3	C	NA	0	P75	C/O	1070D	D-6	NO	YES	1-5	1, 5	NONE
F079G	3	C	NE	3	C	NA	0	P75	C/O	1070D	D-6	NO	YES	1-5	1, 5	NONE
F079H	3	C	NE	3	C	NA	0	P75	C/O	1070D	D-5	NO	YES	1-5	1, 5	NONE
F080A	3	C	NE	6	C	NA	C	P75	0	1070C	E-4	NO	YES	1-5	1, 5	RELIEF REQUEST P75-4
F080B	3	C	NE	6	C	NA	C	P75	0	1070D	E-4	NO	YES	1-5	1, 5	RELIEF REQUEST P75-4
F094A	3	C	NE	1 1/2	C	NA	C	P75	C	1070A	F-5	NO	YES	1-5	1, 5	RELIEF REQUEST P75-4
F094B	3	C	NE	1 1/2	C	NA	C	P75	C	1070B	F-5	NO	YES	1-5	1, 5	RELIEF REQUEST P75-4
F095A	3	C	NE	6	C	NA	C	P75	0	1070C	D-5	NO	YES	1-5	1, 5	RELIEF REQUEST P75-4
F095B	3	C	NE	6	C	NA	C	P75	0	1070D	D-5	NO	YES	1-5	1, 5	RELIEF REQUEST P75-4
F096A	3	C	NE	2	C	NA	C	P75	0	1070C	E-4	NO	YES	1-5	1, 5	RELIEF REQUEST P75-4
F096B	3	C	NE	2	C	NA	C	P75	0	1070D	E-4	NO	YES	1-5	1, 5	RELIEF REQUEST P75-4
F097A	3	C	NE	2	C	NA	C	P75	0	1070C	D-5	NO	YES	1-5	1, 5	RELIEF REQUEST P75-4
F097B	3	C	NE	2	C	NA	C	P75	0	1070D	D-4	NO	YES	1-5	1, 5	RELIEF REQUEST P75-4

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI R & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1

INSERVICE INSPECTION PROGRAM
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 VALVE SUMMARY LISTING

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SYSTEM STANDBY DIESEL GENERATOR P75

JOB 15028

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M -	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F507A	3	B	NE	3	G	S	C	P75	0	1070C	D-6	NO	YES	1-5	2, 5, 6	RELIEF REQUEST P75-1
F507B	3	B	NE	3	G	S	C	P75	0	1070C	D-6	NO	YES	1-5	2, 5, 6	RELIEF REQUEST P75-1
F507C	3	B	NE	3	G	S	C	P75	0	1070D	D-6	NO	YES	1-5	2, 5, 6	RELIEF REQUEST P75-1
F507D	3	B	NE	3	G	S	C	P75	0	1070D	D-6	NO	YES	1-5	2, 5, 6	RELIEF REQUEST P75-1
F508A	3	B	NE	3	G	S	C	P75	0	1070C	C-5	NO	YES	1-5	2, 5, 6	RELIEF REQUEST P75-1
F508B	3	B	NE	3	G	S	C	P75	0	1070C	D-6	NO	YES	1-5	2, 5, 6	RELIEF REQUEST P75-1
F508C	3	B	NE	3	G	S	C	P75	0	1070D	C-5	NO	YES	1-5	2, 5, 6	RELIEF REQUEST P75-1
F508D	3	B	NE	3	G	S	C	P75	0	1070D	D-6	NO	YES	1-5	2, 5, 6	RELIEF REQUEST P75-1

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI & LIGHT COMPANY
 GRAND G. NUCLEAR STATION
 UNIT 1

INSERVICE INSPECTION PROGRAM
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SYSTEM HPCS DIESEL GENERATOR P81

JOB 15026

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M -	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F007	3	C	NE	2	SC	H (LO)	0	P81	C/O	1093A	B-4	NO	YES	1-5	1, 5	NONE
F030A	3	C	NE	1	C	NA	C	P81	C	1093B	C-4	NO	YES	1-5	1, 5	NONE
F030B	3	C	NE	3/4	C	NA	C	P81	C	1093C	D-6	NO	YES	1-5	1, 5	NONE
F031A	3	C	NE	1	C	NA	C	P81	0	1093B	C-A	NO	YES	1-5	1, 5	NONE
F031B	3	C	NE	3/4	C	NA	C	P81	0	1093C	C-5	NO	YES	1-5	1, 5	NONE
F048A	3	C	NE	3/4	RV	NA	C	P81	NA	1093B	G-5	NO	YES	4, 5	10	NONE
F048B	3	C	NE	3/4	RV	NA	C	P81	NA	1093C	G-5	NO	YES	4, 5	10	NONE
F049A	3	C	NE	3/4	RV	NA	C	P81	NA	1093B	F-4	NO	YES	4, 5	10	NONE
F049B	3	C	NE	3/4	RV	NA	C	P81	NA	1093C	G-6	NO	YES	4, 5	10	NONE

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

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MISSISSIPPI R & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1

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SYSTEM HPCS DIESEL GENERATOR P81

JOB 15028

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORDINATES	HIGH RADIATION AREA	TESTABLE	TEST DURING	METHOD OF TESTING	
F059A	3	C	NE	1	C	NA	C	P81	O	1093B	D-2	NO	YES	1-5	1, 5	RELIEF REQUEST P81-2
F059B	3	C	NE	3/4	C	NA	C	P81	O	1093C	D-8	NO	YES	1-5	1, 5	RELIEF REQUEST P81-2
F060A	3	C	NE	1	C	NA	C	P81	C	1093B	D-2	NO	YES	1-5	1, 5	RELIEF REQUEST P81-2
F060B	3	C	NE	3/4	C	NA	C	P81	C	1093C	D-8	NO	YES	1-5	1, 5	RELIEF REQUEST P81-2
F067A	3	C	NE	3/4	C	NA	C	P81	C	1093B	G-5	NO	YES	1-5	1, 5	NONE
F067B	3	C	NE	3/4	C	NA	C	P81	C	1093C	G-5	NO	YES	1-5	1, 5	NONE
F068A	3	C	NE	3/4	C	NA	C	P81	C	1093B	F-4	NO	YES	1-5	1, 5	NONE
F068B	3	C	NE	3/4	C	NA	C	P81	C	1093C	F-6	NO	YES	1-5	1, 5	NONE
F503A	3	B	NE	1/2	G	S	C	P81	O	1093C	D-4	NO	YES	1-5	2, 5, 6	RELIEF REQUEST P81-1
F503B	3	B	NE	1/2	G	S	C	P81	O	1093C	D-6	NO	YES	1-5	2, 5, 6	RELIEF REQUEST P81-1
F504A	3	B	NE	1/2	G	S	C	P81	O	1093B	B-4	NO	YES	1-5	2, 5, 6	RELIEF REQUEST P81-1

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

GPD-13472 Rev. 4/83

MISSISSIPPI POWER & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1
 INSERVICE INSPECTION PROGRAM
 SECTION XI OF ASME CODE
 PUMP SUMMARY LISTING (IMP 6210)

PUMP NO.	SERVICE	P&ID M.	SPEED		INLET PRESS		DIFFERENTIAL PRESSURE		FLOW RATE		VIBRATION		LUB LEVEL OR PRESS		BEARING TEMP		REMARKS
			STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	
C001	FUEL OIL TRANSFER	1093R	E, 1	RP	X	YES	X	YES	X	YES	NA	NO	E, 3	NA	NA	NO	SUBMERGIBLE PUMP RELIEF REQUEST PB1-1, PB1-2

MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
UNIT 1
INSERVICE INSPECTION PROGRAM
PUMP AND VALVE



SECTION XI OF ASME CODE
PUMP SUMMARY LISTING (1WP-6210)

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SYSTEM: HPCS Diesel Generator System - P81

CLASS: 3

LEGEND:

- E - Exempt
- NA - Not Applicable
- X - Testing Required

NOTES

1. These motors are exempted from speed test (1WP-4400).
2. Indicated by Suction level.
3. Bearing are sealed and permanently lubricated. Lubricant level or pressure is not an observable parameter.

SYSTEM ENERGY RESOURCES, INC.
GRAND GULF NUCLEAR STATION, UNIT 1
PUMP AND VALVE INSERVICE TESTING PROGRAM

SPECIFICATION NO.: SERI-M-189.1
SPECIFICATION REVISION NO.: 3

APPENDIX A
APPENDIX REVISION NO.: 2

SPECIFICATION NO. SERI-M-189.1
PUMP AND VALVE INSERVICE TESTING PROGRAM

APPENDIX A
REVISION NO. 2

MAXIMUM STROKE TIMES
FOR
POWER ACTUATED VALVES

SYSTEM ENERGY RESOURCES, INC.
GRAND GULF NUCLEAR STATION, UNIT 1
PUMP AND VALVE INSERVICE TESTING PROGRAM

SPECIFICATION NO.: SERI-M-189.1
SPECIFICATION REVISION NO.: 3

APPENDIX A
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REVISION STATUS SHEET

PAGE REVISION STATUS

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i	2	11	0	23	0	35	0
ii	2	12	1	24	0	36	0
1	0	13	0	25	0	37	0
2	0	14	0	26	0	38	0
3	0	15	0	27	0	39	0
4	1	16	0	28	2	40	0
5	0	17	0	29	0	41	0
6	0	18	0	30	0	42	0
7	0	19	0	31	0	43	1
8	1	20	0	32	0		
9	1	21	0	33	0		
10	1	22	0	34	0		

INTRODUCTION

Appendix A provides maximum stroke times for all power actuated valves in the Pump and Valve Program as required by ASME Section XI, Paragraph IWB-3413.

The valves are listed by system in numerical order. The stroke time given applies to the valve stroke as the valve moves to its safety position. Valves having two safety positions will have one maximum stroke time applicable to both directions of travel unless otherwise noted.

SYSTEM B21

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F016	C	20.0	Note 1
F019	C	20.0	Note 1
F022A	C	5.0	Note 1
F022B	C	5.0	Note 1
F022C	C	5.0	Note 1
F022D	C	5.0	Note 1
F028A	C	5.0	Note 1
F028B	C	5.0	Note 1
F028C	C	5.0	Note 1
F028D	C	5.0	Note 1
F065A	C	131.5	None
F065B	C	131.5	None
F067A	C	9.0	Note 1
F067B	C	9.0	Note 1
F067C	C	9.0	Note 1
F067D	C	9.0	Note 1
F098A	C	184.0	None
F098B	C	184.0	None
F098C	C	184.0	None
F098D	C	184.0	None
F113	C	30.0 (8.5)	Note 1 & 2
F114	C	30.0 (10.0)	Note 1 & 2
F147A	O	31.0	None
F147B	O	31.0	None

SYSTEM B33

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F019	O/C	36.0 (33.6)	Note 1 & 2
F020	O/C	36.0 (33.6)	Note 1 & 2
F125	C	34.6	None
F126	C	34.6	None
F127	O/C	6.1	None
F128	O/C	6.1	None

SYSTEM C11

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F010	C	20.0	None
F011	C	16.2	None
F083	C	15.8	None
126	O	N/A	Relief Request C11-1
127	O	N/A	Relief Request C11-1
F322	C	34.8	None
F180	C	11.4	None
F181	C	30.0	None

SYSTEM C41

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
FO01A	O	27.4	None
FO01B	C	27.4	None

MISSISSIPPI POWER & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1

INSERVICE INSPECTION PROGRAM
 SECTION XI OF ASME CODE
 VALVE SUMMARY LISTING

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SYSTEM HPCS DIESEL GENERATOR P81

VALVE NO.	CLASS	CATEGORY	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS		
			STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST POSITION	P&ID NO. M-	VALVE CODE	HIGH RADIATION AREA	TEST DURING		METHOD OF TESTING	
F504B	3	B	NE	1/2	G	S	C	P81	0	1093C	C-6	ND	YES	1-5	2, 5, 6	RELIEF REQUEST P81-1

MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION

INSERVICE INSPECTION PROGRAM
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VALVE SUMMARY LISTING

AUXILIARY BUILDING VENTILATION 141

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VALVE NO.	VALVE INFORMATION				SYSTEM INFORMATION					TEST INFORMATION			COMMENTS			
	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO	COORDINATES	HIGH RADIATION AREA		TEST-ABLE	TEST DURING	METHOD OF TESTING
F006	3	B	NE	24	B	AFS	0	141	C	1103A	H-2	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT 141-1
F007	3	B	NE	24	B	AFS	0	141	C	1103A	G-2	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT 141-1

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
UNIT 1
INSERVICE INSPECTION PROGRAM
PUMP AND VALVE



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COMMENTS

T41. AUXILIARY BUILDING VENTILATION (M-1103)

T41-1. VALVE: F006, F007 (M-1103A, H-2, G-2)
CATEGORY: B
CLASS: 3
TYPE: Air operated butterfly (AFS)
FUNCTION: Secondary containment isolation.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: These valves are located in the air supply to the auxiliary building ventilation system. Closure of either valve would shut down the auxiliary building fan coil units. Failure of either valve to reopen would result in the inoperability of the system. Auxiliary building temperatures would rise, forcing a plant shutdown.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

MISSISSIPPI POWER & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1

INSERVICE INSPECTION PROGRAM
 SECTION XI OF ASME CODE
 VALVE SUMMARY LISTING

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FUEL HANDLING AREA VENTILATION 142

SYSTEM

VALVE NO.	CLASS	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION				COMMENTS		
		CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	TEST TO POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	COORDINATES	HIGH RADIATION AREA		TEST-ABLE	TEST DURING
F003	3	B	NE	44	B	AFS	0	C	142	C	F-8	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT 142-1
F004	3	B	NE	44	B	AFS	0	C	142	C	F-8	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT 142-1
F011	3	B	NE	B	B	AFS	0	C	142	C	D-2	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT 142-1
F012	3	B	NE	B	B	AFS	0	C	142	C	D-2	NO	YES	4, 5	2, 5, 6, 8, 15	COMMENT 142-1
F019	3	B	NE	36	B	AFS	0	C	142	C	G-3	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F020	3	B	NE	36	B	AFS	0	C	142	C	G-2	NO	YES	1-5	2, 5, 6, 8, 15	NONE

MISSISSIPPI POWER & LIGHT COMPANY
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UNIT 1
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PUMP AND VALVE



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COMMENTS

T42. FUEL HANDLING AREA VENTILATION (M-1104)

T42-1. VALVE: F003 (M-1104A, F-8)
F004 (M-1104A, E-8)
F011 (M-1104A, D-2)
F012 (M-1104A, D-2)

CATEGORY: B
CLASS: 3
TYPE: Air operated butterfly (AFS)
FUNCTION: Secondary containment isolation

TEST REQUIREMENTS: Exercise every 3 months

EXPLANATION: Closure of one of these valves will shut off the supply and exhaust fans for the fuel handling area ventilation system. Failure of a valve to reopen will prevent restart of the fans. Loss of the fuel handling area ventilation system will result in a loss of area cooling, air flow pattern for control of airborne radioactivity, and loss of radioactivity monitoring capability of the exhaust air from the auxiliary building and the fuel handling area. Extended outage of the fuel handling area ventilation system may require a plant shutdown.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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INSERVICE INSPECTION PROGRAM
 SECTION XI OF ASME CODE
 VALVE SUMMARY LISTING

STANDBY GAS TREATMENT 148

SYSTEM

VALVE NO.	CLASS	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS			
		CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M-	GRID COORDINATES	HIGH RADIATION AREA		TEST DURING	METHOD OF TESTING	
F005	Z	B	NE	6	B	M	C	148	0	1102B	E-3	NO	YES	1-5	2, 5, 6, 15	NONE
F006	Z	B	NE	6	B	M	C	148	0	1102B	D-3	NO	YES	1-5	2, 5, 6, 15	NONE
F023	Z	B	NE	18	B	M	C	148	0	1102A	E-6	NO	YES	1-5	2, 5, 6, 15	NONE
F024	Z	B	NE	18	B	M	C	148	0	1102A	B-6	NO	YES	1-5	2, 5, 6, 15	NONE
F025	Z	B	NE	18	B	M	C	148	0	1102A	E-2	NO	YES	1-5	2, 5, 6, 15	NONE
F026	Z	B	NE	18	B	M	C	148	0	1102A	B-2	NO	YES	1-5	2, 5, 6, 15	NONE

FOR LEGEND SEE THE "INSTRUCTIONS FOR USE OF VALVE SUMMARY LISTING FORM" WHICH ACCOMPANIES THIS LIST.

MISSISSIPPI POWER & LIGHT COMPANY
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INSERVICE INSPECTION PROGRAM
SECTION XI OF ASME CODE
VALVE SUMMARY LISTING

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CONTROL ROOM HVAC SYSTEM SZ51

SYSTEM

VALVE NO.	Q.P.S.	VALVE INFORMATION				SYSTEM INFORMATION				TEST INFORMATION			COMMENTS			
		CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M.	COORDINATION AREA	HIGH PRESSURE AREA		TEST-ABLE	TEST DURING	METHOD OF TESTING
F001	3	B	NE	24	B	AFS	C	SZ51	C	0049	F-7	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F002	3	B	NE	24	B	AFS	C	SZ51	C	0049	F-7	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F003	3	B	NE	18	B	AFS	0	SZ51	C	0049	B-7	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F004	3	B	NE	18	B	AFS	0	SZ51	C	0049	B-7	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F007	3	B	NE	20	B	M	C	SZ51	O/C	0049	G-3	NO	YES	1-5	2, 5, 6, 15	NONE
F008	3	B	NE	20	B	M	C	SZ51	O/C	0049	G-3	NO	YES	1-5	2, 5, 6, 15	NONE
F010	3	B	NE	18	B	AFS	0	SZ51	C	0049	D-2	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F011	3	B	NE	18	B	AFS	0	SZ51	C	0049	D-2	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F014	3	B	NE	20	B	M	C	SZ51	O/C	0049	D-2	NO	YES	1-5	2, 5, 6, 15	NONE
F016	3	B	NE	20	B	M	C	SZ51	O/C	0049	D-2	NO	YES	1-5	2, 5, 6, 15	NONE
F073A	3	B	NE	3	G	AFS	0	SZ51	0	1061C	G-2	NO	YES	1-5	2, 5, 6, 8	NONE
F073B	3	B	NE	3	G	AFS	0	SZ51	0	1061D	E-7	NO	YES	1-5	2, 5, 6, 8	NONE

PUMP PROGRAM

1.0 INSTRUCTIONS

- 1.1 The pump test requirements are presented on the Pump Summary Listing forms, along with pertinent valve, system, and plant information. The forms, organized by systems, are to be used in conjunction with the applicable P&IDs and SFDs. The revisions for these documents are indicated in the Table of Contents. Copies are available at the Plant Site, unless provided under separate cover.
- 1.2 The legend and notes accompany each Summary Listing form.

PUMP PROGRAM (Continued)

2.0 TESTING FREQUENCY

- 2.1 The inservice test on pumps shall be conducted normally every 3 months during normal plant operation. This frequency should be maintained reasonably during the shutdown periods. However, if any pump is not tested during plant shutdown, it shall be tested within 1 week after the plant is returned to normal operation.
- 2.2 Pumps that are operated more frequently than every 3 months need not be run or stopped for a special test, provided the plant log shows each such pump was operated at least once every 3 months at the reference conditions and the quantities specified on the Pump Summary Listing were measured, observed, recorded, and analyzed.

3.0 SCOPE OF TESTS

- 3.1 Each inservice test shall include the measurement and observation of all quantities indicated on the Pump Summary Listing forms except bearing temperatures, which shall be measured during at least one inservice test each year (Unless stated otherwise in "Alternate Testing" section of applicable relief requests.).

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INSERVICE INSPECTION PROGRAM
PUMP AND VALVE

Specification MP&L-M-189.1

RELIEF REQUEST C41-1:
STANDBY LIQUID CONTROL SYSTEM

Page 1
Rev. 1

PUMPS: C001A-A and C001B-B (M-1082, D-5, E-5)

CLASS: 2

FUNCTION: Injection of standby liquid into the reactor pressure vessel upon loss of reactivity control.

TEST REQUIREMENT: Measure inlet pressure prior to and during pump test and measure pump delta-p during pump test.

BASIS FOR RELIEF: Positive displacement pumps are not affected by changes in suction pressure, i.e., changes in suction pressure will not affect developed discharge pressure.

ALTERNATIVE TESTING: Utilize pump discharge pressure reading in lieu of pump inlet and delta-p measurement once pump has been started for pump test.

SYSTEM ENERGY RESOURCES, INC.
GRAND GULF NUCLEAR STATION, UNIT 1
PUMP AND VALVE INSERVICE TESTING PROGRAM

SPECIFICATION NO.: SERI-M-189.1
REVISION NO.: 3
PAGE: 2

RELIEF REQUEST C41-2:
STANDBY LIQUID CONTROL SYSTEM

DELETED

MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
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INSERVICE INSPECTION PROGRAM
PUMP AND VALVE

Specification MP&L-M-189.1

RELIEF REQUEST E12-1: Page 3
RESIDUAL HEAT REMOVAL SYSTEM Rev. 1

PUMPS: C003C-B (M-1085A, C-6)
C003A-A (M-1085B, C-4)
C003B-B (M-1085A, A-7)

CLASS: 2

FUNCTION: These jockey pumps operate continuously during normal plant operation to keep the main ECCS pump discharge piping full of water.

TEST REQUIREMENTS: Measure inlet pressure, differential pressure, flow rate, vibration amplitude, and bearing temperature every 3 months.

BASIS FOR RELIEF: The jockey pumps' function is to keep the main ECCS pump discharge piping full of water until the main ECCS pump is started. The listed ECCS pumps operate continuously whenever their respective ECC systems are in operable condition; therefore, the assessment of operation readiness of these pumps is not required. Adequate means exist to verify that these pumps are continuously performing their required function. Each jockey pump is provided with continuous indication of operation via lights in the Control Room. The pressure in the jockey pump discharge piping is continuously monitored, and an annunciator alarms in the Control Room if the discharge pressure drops below a preset value. By GGNS Technical Specification Section 4.5.1.a.1, operators are required to verify every 31 days that the main ECCS pump discharge piping is filled with water by venting the piping at a high point vent.

ALTERNATIVE TESTING: No alternative testing is considered necessary. Vibration amplitude and bearing temperature will continue to be measured on these pumps as required by ASME Section XI.

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INSERVICE INSPECTION PROGRAM
PUMP AND VALVE

RELIEF REQUEST E12-2:
RESIDUAL HEAT REMOVAL SYSTEM

Specification MP&L-M-189.1
Page 4
Rev. 1

PUMPS: C002A (M-1085B, B-4)
C002B (M-1085A, B-7)
C002C (M-2085A, C-7)

CLASS: 2

FUNCTION: Provide emergency water makeup in the event of a LOCA.

TEST REQUIREMENTS: Measure inlet pressure, differential pressure flowrate, vibration amplitude, and bearing temperature every 3 months.

BASIS FOR RELIEF: ASME Section XI, Article IWP-4310 states, "The temperature of all centrifugal pump bearings outside the main flow path ... shall be measured at points selected to be responsive to changes in the temperature of the bearing ...". All of the lower bearings are, therefore, exempt from testing. However, this is not true of the upper pump bearing which is above the main flow path. It is not possible with the present pump design to measure the upper pump bearing temperature, as there are no thermocouple leads into the bearing and the nearest point at which a portable contact pyrometer could be used is outside the bearing cavity and more than 6 inches from the bearing.

ALTERNATIVE TESTING: No alternative bearing temperature testing method is possible with the present pump design. Inlet pressure, differential pressure, flowrate, and vibration amplitude will continue to be tested as required by ASME Section XI.

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INSERVICE INSPECTION PROGRAM
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Specification MP&L-M-189.1

RELIEF REQUEST E21-1:
LOW PRESSURE CORE SPRAY SYSTEM

Page 5
Rev. 1

PUMPS: C002A (M-1087, E-6)
CLASS: 2
FUNCTION: Same as E12C003C-B
TEST REQUIREMENTS: Same as E12C003C-B
BASIS FOR RELIEF: Same as E12C003C-B
ALTERNATIVE TESTING: Same as E12C003C-B

MISSISSIPPI POWER & LIGHT COMPANY
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PUMP AND VALVE



RELIEF REQUEST E21-2: Specification MP&L-M-189.1
LOW PRESSURE CORE SPRAY SYSTEM Page 6
Rev. 1

PUMPS: E21-C001A (M-1087, D-3)
CLASS: 2
FUNCTION: Main LPCS pump. Provide flow for system operation.
TEST REQUIREMENTS: Same as E12-C002
BASIS FOR RELIEF: Same as E12-C002
ALTERNATIVE TESTING: Same as E12-C002

MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
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INSERVICE INSPECTION PROGRAM
PUMP AND VALVE



RELIEF REQUEST E22-1: Specification MP&L-M-189.1
HIGH PRESSURE CORE SPRAY SYSTEM Page 7
Rev. 1

PUMPS: C003C (M-1086, C-6)
CLASS: 2
FUNCTION: Same as E12C003C-B
TEST REQUIREMENTS: Same as E12C003C-B
BASIS FOR RELIEF: Same as E12C003C-B
ALTERNATIVE TESTING: Same as E12C003C-B

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Page 8

RELIEF REQUEST E22-2:
HIGH PRESSURE CORE SPRAY SYSTEM Rev. 1

PUMPS: E22-C001C (M-1086, E-6)

CLASS: 2

FUNCTION: Main HPCS pump. Provide flow for system operation.

TEST REQUIREMENTS: Same as E12-C002

BASIS FOR RELIEF: Same as E12-C002

ALTERNATIVE
TESTING: Same as E12-C002

MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
UNIT 1
INSERVICE INSPECTION PROGRAM
PUMP AND VALVE



Specification MP&L-M-189.1

RELIEF REQUEST P75-1: Page 9
STANDBY DIESEL GENERATOR SYSTEM Rev. 1

PUMPS: C002A, B (M-1070A, G-7, M-1070B, G-7)

CLASS: 3

TYPE: Centrifugal

FUNCTION: Fuel oil transfer pumps. Transfer fuel oil from the storage tank to the day tank.

TEST REQUIREMENTS: Measure inlet pressure, discharge pressure, differential pressure, flowrate, vibration amplitude, and bearing temperature every 3 months.

BASIS FOR RELIEF: These pumps are submerged in the storage tank and are, therefore, inaccessible for measuring pump vibration and bearing temperature.

ALTERNATIVE TESTING: No alternative vibration or bearing temperature testing is possible with current plant design. Pressure and flowrate will be measured as required by ASME Section XI.

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GRAND GULF NUCLEAR STATION
UNIT 1



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PUMP AND VALVE

Specification MP&L-M-189.1

RELIEF REQUEST P75-2: Page 10
STANDBY DIESEL GENERATOR SYSTEM Rev. 1

PUMPS: C002A, B (M-1070A, G-7, M-1070B, G-7)

CLASS: 3

TYPE: Centrifugal

FUNCTION: Fuel oil transfer pumps. Transfer fuel oil from the storage tank to the day tank.

TEST REQUIREMENTS: Measure inlet pressure, discharge pressure, differential pressure, flow rate, vibration amplitude, and bearing temperature once every 3 months.

BASIS FOR RELIEF: There is no installed flow instrumentation with which to measure flowrate.

ALTERNATIVE TESTING: The flowrate will be observed by monitoring the level change in the day tank when transferring fuel oil to the day tank with the diesel engine shut down.

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RELIEF REQUEST P81-1:
HPCS DIESEL GENERATOR SYSTEM

Specification MP&L-M-189.1
Page 11
Rev. 1

PUMPS: C001C (M-1093A, B-4)
CLASS: 3
TYPE: Centrifugal
FUNCTION: Same as Relief Request P75-1
TEST REQUIREMENTS: Same as Relief Request P75-1
BASIS FOR RELIEF: Same as Relief Request P75-1
ALTERNATIVE TESTING: Same as Relief Request P75-1

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RELIEF REQUEST P81-2:
HPCS DIESEL GENERATOR SYSTEM

Specification MP&L-M-189.1
Page 12
Rev. 1

PUMPS: C001C (M-1093A, B-4)
CLASS: 3
TYPE: Centrifugal
FUNCTION: Same as Relief Request P75-2
TEST REQUIREMENTS: Same as Relief Request P75-2
BASIS FOR RELIEF: Same as Relief Request P75-2
ALTERNATIVE
TESTING: Same as Relief Request P75-2

SYSTEM ENERGY RESOURCES, INC.
 GRAND GULF NUCLEAR STATION, UNIT 1
 PUMP AND VALVE INSERVICE TESTING PROGRAM

SPECIFICATION NO. SERI-M-189.1
 REVISION NO. 3
 PAGE NO. C41-1

PUMP SUMMARY LISTING

SYSTEM NAME: STANDBY LIQUID CONTROL SYSTEM

SYSTEM NO.: C41

P&ID(s): M-1082

CLASS: 2

PUMP NO.	SPEED		INLET PRESSURE		DIFFERENTIAL PRESSURE		FLOW RATE		VIBRATION		LUB. LEVEL OR PRESSURE		BEARING TEMPERATURE		REMARKS
	STATUS	TEST-ABLE	STATUS	TEST-ABLE	STATUS	TEST-ABLE	STATUS	TEST-ABLE	STATUS	TEST-ABLE	STATUS	TEST-ABLE	STATUS	TEST-ABLE	
C001 A-A	E, 1	NA	X	YES	NA	NA	X	YES	X	4	LEVEL	5	X	4	RELIEF REQUEST C41-1
C001 B-B	E, 1	NA	X	YES	NA	NA	X	YES	X	4	LEVEL	5	X	4	RELIEF REQUEST C41-1

FOR LEGEND AND NOTES, SEE NEXT PAGE.

IST-FM-06, R/0

PUMP SUMMARY LISTING

SYSTEM: Standby Liquid Control System - C41

CLASS: 2

LEGEND:

E - Exempt

NA - Not Applicable

X - Testing Required

NOTES:

1. Induction motors exempt from speed test (IWP-4400).
2. Deleted.
3. Deleted.
4. No instrumentation installed. Use portable contact instrument.
5. Only the crankcase lubricant level is observable. Use installed sight gauge.

MISSISSIPPI POWER & LIGHT COMPANY
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 PUMP SUMMARY LISTING (IWP 6210)

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PUMP NO	SERVICE	PKID M-	SPEED		INLET PRESS		DIFF. PRESS		FLOW RATE		VIBRATION		SUB LEVEL OR PRESS		BEARING TEMP		REMARKS
			STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	
C002 A-A	RHR	1085B	E.1	NA	X	YES	X	YES	X	YES	X	2	E. 3	NA	NA	4	RELIEF REQUEST E12-2
C002 B-B	RHR	1085A	E.1	NA	X	YES	X	YES	X	YES	X	2	E. 3	NA	NA	4	RELIEF REQUEST E12-2
C002 C-B	RHR	1085A	E.1	NA	X	YES	X	YES	X	YES	X	2	E. 3	NA	NA	4	RELIEF REQUEST E12-2
C003 A-A	RHR JOCKEY	1085B	E.1	NA	NA	NA	NA	NA	NA	NA	NA	2	LEVEL	YES	X	2	RELIEF REQUEST E12-1
C003 B-B	RHR JOCKEY	1085A	E.1	NA	NA	NA	NA	NA	NA	NA	NA	2	LEVEL	YES	X	2	RELIEF REQUEST E12-1
C003 C-B	RHR JOCKEY	1085A	E.1	NA	NA	NA	NA	NA	NA	NA	NA	2	LEVEL	YES	X	2	RELIEF REQUEST E12-1

SYSTEM RESIDUAL HEAT REMOVAL - E12 CLASS 2

MISSISSIPPI POWER & LIGHT COMPANY
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INSERVICE INSPECTION PROGRAM
PUMP AND VALVE

Specification MP&L-M-189.1

SECTION XI OF ASME CODE Page E12-2

PUMP SUMMARY LISTING (IWP-6210) Rev. 1

SYSTEM: Residual Heat Removal - E12

CLASS: 2

LEGEND

- E - Exempt
- NA - Not Applicable
- X - Testing Required

NOTES

1. Induction motors exempt from speed test (IWP-4400).
2. No instrumentation installed. Use portable contact instrument.
3. Bearings are water-lubricated by pump discharge; no measurement necessary.
4. Line shaft bearings are exempt in main flow path (IWP-4310).

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 PUMP SUMMARY LISTING (IWP 6210)

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PUMP NO	SERVICE	P&ID NO	SPEED		INLET PRESS		DIFF PRESS		FLOW RATE		VIBRATION		LUB LEVEL OR PRESS		BEARING TEMP		REMARKS
			STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	
C001 A	LPCS	1087	E.1	NA	X	YES	X	YES	X	YES	X	2	E. 3	NA	NA	4	RELIEF REQUEST E21-2
C002 A	LPCS JOCKEY	1087	E.1	NA	NA	NA	NA	NA	NA	NA	X	2	LEVEL	YES	X	2	RELIEF REQUEST E21-1

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PUMP AND VALVE

Specification MP&L-M-189.1

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PUMP SUMMARY LISTING (IWP-6210) Rev. 1

SYSTEM: Low Pressure Core Spray - E21

CLASS: 2

LEGEND

- E - Exempt
- NA - Not Applicable
- X - Testing Required

NOTES

1. Induction motors exempt from speed test (IWP-4400).
2. No instrumentation installed. Use portable contact instrument.
3. Bearings are water lubricated by pump discharge; no measurement necessary.
4. Line shaft bearings are exempt in main flow path (IWP-4310).

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 PUMP SUMMARY LISTING (IWP 6210)

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SYSTEM HIGH PRESSURE CORE SPRAY - E22 CLASS 2

PUMP NO	SERVICE	PUMP M-	SPEED		INLET PRESS		DIFF PRESS		FLOW RATE		VIBRATION		LUB LEVEL OR PRESS		BEARING TEMP		REMARKS
			STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	
C001 C	HPCS	1086	E.1	NA	X	YES	X	YES	X	YES	X	2	E.3	NA	NA	4	RELIEF REQUEST E22-2
C003 C	HPCS JOCKEY	1086	E.1	NA	NA	NA	NA	NA	NA	NA	X	2	LEVEL	YES	X	2	RELIEF REQUEST E22-1

FOR LEGEND AND NOTES, SEE NEXT PAGE

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INSERVICE INSPECTION PROGRAM
PUMP AND VALVE

Specification MP&L-M-189.1

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Page E22-2

PUMP SUMMARY LISTING (IWP-6210) Rev. 1

SYSTEM: High Pressure Core Spray - E22

CLASS: 2

LEGEND

- E - Exempt
- NA - Not Applicable
- X - Testing Required

NOTES

1. Induction motors exempt from speed test (IWP-4400).
2. No instrumentation installed. Use portable contact instrument.
3. Bearings are water lubricated by pump discharge; no measurement necessary.
4. Line shaft bearings are exempt in main flow path (IWP-4310).

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 SECTION XI OF ASME CODE
 PUMP SUMMARY LISTING (NWP 62'0)

Specification MP&L-M-189.1
 Page E51-1
 Rev. 3

SYSTEM REACTOR CORE ISOLATION COOLING - ESI CLASS 2

PUMP NO	SERVICE	PRD M	SPEED		INLET PRESS		DIFF PRESS		FLOW RATE		VIBRATION		RUB LEVEL OR PRESS		BEARING TEMP		REMARKS
			STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	
0001	RCTC	1083A	X	YES	X	YES	X	YES	X	YES	X	YES, 1	LEVEL	YES	X	YES, 1	NONE

FOR LEGEND AND NOTES, SEE NEXT PAGE

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GRAND GULF NUCLEAR STATION
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INSERVICE INSPECTION PROGRAM
PUMP AND VALVE

Specification MP&L-M-189.1

SECTION XI OF ASME CODE Page E51-2
PUMP SUMMARY LISTING (1WP-6210) Rev. 1

SYSTEM: Reactor Core Isolation Cooling - E51

CLASS: 2

LEGEND

- E - Exempt
- NA - Not Applicable
- X - Testing Required

NOTES

1. No instrumentation installed. Use portable contact instrument.

MISSISSIPPI POWER & LIGHT COMPANY
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 PUMP SUMMARY LISTING (IWP 6210)

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SYSTEM STANDBY SERVICE WATER - F41 CLASS 3

PUMP NO	SERVICE	PAID M.	SPEED		INLET PRESS		DIFF PRESS		FLOW RATE		VIBRATION		LUB LEVEL OR PRESS		BEARING TEMP		REMARKS
			STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	
C001 A-A	SSM	1061A	E, 1	NA	X	YES, 2	X	YES	X	YES	X	YES, 3	F, 4	NA	NA	5	NONE
C001 B-B	SSM	1061A	E, 1	NA	X	YES, 2	X	YES	X	YES	X	YES, 3	F, 4	NA	NA	5	NONE
C002 C	HPCS SM	1061A	E, 1	NA	X	YES, 2	X	YES	X	YES	X	YES, 3	F, 4	NA	NA	5	NONE

MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
UNIT 1
INSERVICE INSPECTION PROGRAM
PUMP AND VALVE



SECTION XI OF ASME CODE
PUMP SUMMARY LISTING (IWP-621G) Rev. 2

Specification MP&L-M-189.1
Page P41-2

SYSTEM: Standby Service Water - P41

CLASS: 3

LEGEND

E - Exempt
NA - Not Applicable
X - Testing Required

NOTES

1. Induction motors exempt from speed test (IWP-4400).
2. Measure standby service water basin level and convert to psig.
3. No instrumentation installed. Use portable contact instrument.
4. Bearings are water-lubricated by pump discharge; no measurement necessary.
5. Line shaft bearings are exempt in main flow path (IWP-4310). There are no bearings outside the main flowpath.

MISSISSIPPI POWER & LIGHT COMPANY
 GRAND GULF NUCLEAR STATION
 UNIT 1

INSERVICE INSPECTION PROGRAM
 SECTION XI OF ASME CODE
 PUMP SUMMARY LISTING (IWP 6210)

Specification MP&L-M-189.1
 Page P75-1
 Rev. 1

SYSTEM STANDBY DIESEL GENERATOR P75 CLASS ANSI B31.1 UPGRADED

PUMP NO	SERVICE	PAID M.	SPEED		INLET PRESS.		DIFFERENTIAL PRESSURE		FLOW RATE		VIBRATION		LUB LEVEL OR PRESS.		BEARING TEMP.		REMARKS	
			STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE	STATUS	TEST ABLE		
C002 A-A	FUEL OIL TRANSFER	1070A	E.1	NA	X	YES 2	X	YES	X	YES	X	X	NO	E. 4	NA	NA	NO	SUBMERSIBLE PUMPS RELIEF REQUEST P75-1, P75-2
C002 B-B	FUEL OIL TRANSFER	1070B	E.1	NA	X	YES 2	X	YES	X	YES	X	X	NO	E. 4	NA	NA	NO	SUBMERSIBLE PUMPS RELIEF REQUEST P75-1, P75-2

MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
UNIT 1



INSERVICE INSPECTION PROGRAM
PUMP AND VALVE

Specification MP&L-M-189.1

SECTION XI OF ASME CODE
PUMP SUMMARY LISTING (1WP-6210)

Page P75-2
Rev. 1

SYSTEM: Standby Diesel Generator - P75

CLASS: ANSI B31.1 Upgraded

LEGEND:

- E - Exempt
- NA - Not Applicable
- X - Testing Required

NOTES

1. These motors are exempt from speed test (1WP-4400).
2. Indicated by suction level.
3. No pressure indications currently installed.
4. These pumps have sealed, permanently lubricated bearings. Lubricant level or pressure is not an observable parameter.

MISSISSIPPI POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
UNIT 1
INSERVICE INSPECTION PROGRAM
PUMP AND VALVE



Specification MP&L-M-189.1
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Rev. 1

Pump Generic Relief Request 1

PUMPS: As applicable

CLASS: As applicable

FUNCTION: As applicable

TEST REQUIREMENT: ASME Section XI, Subsection IWP

BASIS FOR RELIEF: Pump testing is performed with 2% accurate instrumentation, but the high value Alert Range is only 102 to 103% and the Required Action Range is greater than 103%. As pump failures that include increasing flow or discharge pressure as part of their indications are very rare, the very narrow ranges allowed are unrealistic.

ALTERNATIVE TESTING: Change the High Value Alert Range for pump flow and differential pressure to 1.05 to 1.07 times the reference value and the High Value Required Action Range for pump flow and differential pressure to greater than 1.07 times the reference value.

SYSTEM D23

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F591	O/C	32.3	None
F592	O/C	32.9	None
F593	O/C	32.6	None
F594	O/C	32.3	None

SYSTEM E12

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F003A	O/C	108.4	None
F003B	O/C	108.4	None
F004A	O/C	162.9	None
F004B	O/C	162.9	None
F004C	O/C	162.9	None
F006A	O	131.6	None
F006B	O	131.6	None
F008	O/C	40.0 (35.8)	Note 1 & 2
F009	O/C	40.0 (35.8)	Note 1 & 2
F011A	C	36.0 (33.7)	Note 1 & 2
F011B	C	36.0 (33.7)	Note 1 & 2
F021	C	144.0 (131.9)	Note 1 & 2
F023	C	94.0 (84.1)	Note 1 & 2
F024A	O/C	90.0	Note 1
F024B	O/C	90.0	Note 1
F026A	C	30.1	None
F026B	C	30.1	None
F027A	O/C	88.4	None
F027B	O/C	88.4	None
F028A	O/C	90.0 (88.4)	Note 1 & 2
F028B	O/C	90.0 (88.4)	Note 1 & 2
F037A	C	74.0 (65.2)	Note 1 & 2
F037B	C	74.0 (65.2)	Note 1 & 2
F040	C	26.0	None

SYSTEM E12

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F042A	O/C	29.0/22.0	None
F042B	O/C	29.0/22.0	None
F042C	O/C	29.0/27.0	None
F047A	O/C	104.8	None
F047B	O/C	104.8	None
F048A	O/C	108.4	None
F048B	O/C	108.4	None
F049	C	32.1	None
F051A	C	26.0	None
F051B	C	26.0	None
F052A	C	104.0	None
F052B	C	104.0	None
F053A	O/C	30.6	None
F053B	O/C	30.6	None
F064A	O/C	11.7	None
F064B	O/C	11.7	None
F064C	O/C	11.7	None
F065A	C	7.1	None
F065B	C	7.1	None
F073A	C	15.8	None
F073B	C	15.8	None
F074A	C	15.8	None
F074B	C	15.8	None
F082A	O/C	9.3	None

SYSTEM E12

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F082B	O/C	9.3	None
F087A	C	104.0	None
F087B	C	104.0	None
F094			Deleted
F096			Deleted
F203	C	30.0 (5.7)	Note 1 & 2
F290A	O/C	9.3	None
F290B	O/C	9.3	None
F346	C	5.4	None
F394	C	43.0	None

SYSTEM E21

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F001	O/C	120.8	None
F005	O/C	29.0/25.7	None
F011	O/C	31.8	None
F012	C	144.0 (134.7)	Note 1 & 2

SYSTEM E22

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F001	C	104.0	None
F004	O/C	15.0	None
F010	C	63.2	None
F011	C	62.9	None
F012	O/C	8.0	None
F015	O/C	31.1	None
F023	C	75.0	Note 1

SYSTEM E30

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F001A	O	79.2	Note 5
F001B	O	79.2	Note 5
F002A	O	79.2	Note 5
F002B	O	79.2	Note 5
F591A	C	18.3	None
F591B	C	31.6	None
F592A	C	33.8	None
F592B	C	24.9	None
F593A	C	34.0	None
F593B	C	34.1	None
F594A	C	27.2	None
F594B	C	33.1	None

SYSTEM E32

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F001A	O/C	9.3	None
F001E	O/C	9.3	None
F001J	O/C	9.3	None
F001N	O/C	9.3	None
F002A	O	9.3	None
F002E	O	9.3	None
F002J	O	9.3	None
F002N	O	9.3	None
F003A	O/C	9.3	None
F003E	O/C	9.3	None
F003J	O/C	9.3	None
F003N	O/C	9.3	None
F006	O	6.3	None
F007	O	6.3	None
F008	O	6.3	None
F009	O	6.3	None

SYSTEM E38

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F001A	O/C	9.3	None
F001B	O/C	9.3	None

SYSTEM E51

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F004	C	2.0	Note 3
F005	C	2.0	Note 3
F010	C	39.0	None
F013	O/C	15.2	None
F019	O/C	6.4	None
F022	C	33.3	None
F025	C	4.8	None
F026	C	5.7	None
F031	O/C	56.0 (49.1)	Note 1 & 2
F045	O/C	10.3	None
F046	O	1.4	None
F059	O	22.3	None
F063	O/C	20.0	Note 1
F064	O/C	20.0	Note 1
F068	C	110.7	None
F076	C	20.0 (15.2)	Note 1 & 2
F077	O/C	26.0	Note 1
F078	O/C	10.0 (9.3)	Note 1 & 2
Trip & Throttle	C	2.0	Note 3 & 4
F095	O/C	5.0	None

SYSTEM E61

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F003A	O/C	84.0 (75.1)	Note 1 & 2
F003B	O/C	84.0 (75.1)	Note 1 & 2
F005A	O/C	84.0 (75.1)	Note 1 & 2
F005B	O/C	84.0 (75.1)	Note 1 & 2
F007	O/C	9.0 (7.2)	Note 1 & 2
F009	C	4.0	Note 1
F010	C	4.0	Note 1
F020	C	18.0 (13.8)	Note 1 & 2
F056	C	4.0	Note 1
F057	C	4.0	Note 1
F595A	C	24.4	None
F595B	C	25.3	None
F595C	C	23.0	None
F595D	C	25.4	None
F596A	C	24.4	None
F596B	C	23.9	None
F596C	C	24.8	None
F596D	C	26.3	None
F597A	C	24.9	None
F597B	C	20.8	None
F597C	C	21.4	None
F597D	C	25.2	None
F598A	C	25.0	None

SYSTEM E61

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F598B	C	21.5	None
F598C	C	22.5	None
F598D	C	22.9	None

SYSTEM G33

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F001	C	35.0	Note 1
F004	C	35.0	Note 1
F028	C	35.0 (27.5)	Note 1 & 2
F034	C	35.0 (27.5)	Note 1 & 2
F039	C	35.0	Note 1
F040	C	35.0	Note 1
F053	C	35.0 (27.5)	Note 1 & 2
F054	C	35.0 (27.5)	Note 1 & 2
F234	C	30.0 (15.5)	Note 1 & 2
F235	C	30.0 (8.1)	Note 1 & 2
F250	C	35.0	Note 1
F251	C	35.0	Note 1
F252	C	35.0	Note 1
F253	C	35.0	Note 1

SYSTEM G36

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F101	C	11.0 (9.6)	Note 1 & 2
F106	C	11.0 (7.2)	Note 1 & 2
F108	C	30.0 (8.5)	Note 1 & 2
F109	C	30.0 (7.1)	Note 1 & 2

SYSTEM G41

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F028	C	51.0	Note 1
F029	C	51.0 (45.5)	Note 1 & 2
F044	C	40.0	Note 1

SYSTEM G46

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F253	C	20.0 (4.8)	Note 1 & 2

SYSTEM M41

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F007	C	4.0	Note 1
F008	C	4.0	Note 1
F011	C	4.0	Note 1
F012	C	4.0	Note 1
F013	C	4.0	Note 1
F015	C	4.0	Note 1
F016	C	4.0	Note 1
F017	C	4.0	Note 1
F034	C	4.0	Note 1
F035	C	4.0	Note 1
F036	C	4.0	Note 1
F037	C	4.0	Note 1

SYSTEM M71

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F591A	C	27.3	None
F591B	C	26.6	None
F592A	C	27.1	None
F592B	C	27.7	None
F593	C	27.5	None
F594	C	28.6	None
F595	C	6.1	None

SYSTEM P11

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F047	C	4.0 (4.6)	Note 1 & 2
F061	C	4.0 (5.8)	Note 1 & 2
F062	C	9.0 (11.5)	Note 1 & 2
F063	C	4.0 (4.0)	Note 1 & 2
F064	C	4.0 (5.4)	Note 1 & 2
F065	C	4.0 (5.1)	Note 1 & 2
F066	C	4.0 (5.0)	Note 1 & 2
F067	C	4.0 (5.9)	Note 1 & 2
F075	C	10.0 (9.8)	Note 1 & 2
F130	C	8.0 (6.7)	Note 1 & 2
F131	C	8.0 (8.2)	Note 1 & 2

SYSTEM P21

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F017	C	19.0 (14.6)	Note 1 & 2
F018	C	19.0 (14.6)	Note 1 & 2
F024	C	30.0 (27.9)	Note 1 & 2

SYSTEM P41

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F001A	O	80.0	None
F001B	C	80.0	None
F005A	C	80.0	None
F005B	O	80.0	None
F006A	C	74.9	None
F006B	C	74.9	None
F007A	O/C	31.1	None
F007B	O/C	31.1	None
F011	O	76.8	None
F014A	C	79.0	None
F014B	C	79.0	None
F015A	C	31.1	None
F015B	O	31.1	None
F016A	C	31.1	None
F016B	C	31.1	None
F018A	O	76.8	None
F018B	O	76.8	None
F064A	O	22.7	None
F064B	O	22.7	None
F066A	C	22.7	None
F066B	C	22.7	None
F068A	O	28.7	None
F068B	O	28.7	None

SYSTEM P41

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F074A	C	22.7	None
F074B	C	22.7	None
F081A	O	22.7	None
F081B	O	22.7	None
F113	O/C	15.8	None
F125	C	35.2	None
F154	C	22.7	None
F155A	C	22.7	None
F155B	C	22.7	None
F159A	O/C	9.4	None
F159B	O/C	9.4	None
F160A	O/C	9.4	None
F160B	O/C	9.4	None
F168A	O/C	9.4	None
F168B	O/C	9.4	None
F189	C	35.2	None
F237	O	22.7	None
F238	O	22.7	None
F239	C	8.9	None
F240	C	8.4	None
F241	C	22.7	None

SYSTEM ENERGY RESOURCES, INC.
GRAND GULF NUCLEAR STATION, UNIT 1
PUMP AND VALVE INSERVICE TESTING PROGRAM

SPECIFICATION NO.: SERI-M-189.1
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APPENDIX A
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SYSTEM P42 ---

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
FO66	C	72.2	None
FO67	C	72.2	None
FO68	C	72.2	None
F114	C	52.2	None
F116	C	52.2	None
F117	C	52.2	None
F200A	O/C	73.5/73.5	None
F200B	O/C	70.8/70.8	None
F201A	O/C	34.6/34.7	None
F201B	O/C	26.3/26.3	None

SYSTEM P44

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F042	C	74.9	None
F053	C	33.0 (27.6)	Note 1 & 2
F054	C	74.9	None
F067	C	74.9	None
F069	C	33.0 (27.8)	Note 1 & 2
F070	C	33.0 (27.8)	Note 1 & 2
F074	C	32.0 (27.8)	Note 1 & 2
F076	C	32.0 (27.8)	Note 1 & 2
F077	C	32.0 (27.8)	Note 1 & 2
F116	C	100.0 (31.5)	Note 1 & 2
F117	C	100.0 (61.4)	Note 1 & 2
F118	C	100.0 (38.2)	Note 1 & 2
F119	C	100.0 (25.2)	Note 1 & 2
F120	C	100.0	Note 1
F121	C	100.0	Note 1
F122	C	100.0 (37.6)	Note 1 & 2
F123	C	100.0 (38.2)	Note 1 & 2

SYSTEM P45

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F003	C	6.0 (5.7)	Note 1 & 2
F004	C	6.0 (5.7)	Note 1 & 2
F009	C	6.0	Note 1
F010	C	6.0	Note 1
F061	C	7.0 (6.1)	Note 1 & 2
F062	C	7.0 (5.4)	Note 1 & 2
F067	C	7.0 (6.7)	Note 1 & 2
F068	C	7.0 (6.9)	Note 1 & 2
F096	C	9.0	Note 1
F097	C	9.0	Note 1
F098	C	8.0 (6.7)	Note 1 & 2
F099	C	8.0 (6.7)	Note 1 & 2
F158	C	9.0 (9.2)	Note 1 & 2
F159	C	9.0 (11.2)	Note 1 & 2
F160	C	9.0 (11.5)	Note 1 & 2
F161	C	9.0 (12.2)	Note 1 & 2
F163	C	9.0 (7.4)	Note 1 & 2
F273	O/C	32.0 (27.8)	Note 1 & 2
F274	O/C	32.0 (27.8)	Note 1 & 2

SYSTEM P52

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F105	C	6.0	Note 1
F160A	C	4.0 (5.3)	Note 1 & 2
F160B	C	4.0 (5.9)	Note 1 & 2
F195	C	16.0 (15.8)	Note 1 & 2
F221A	C	4.0 (5.3)	Note 1 & 2
F221B	C	4.0 (3.2)	Note 1,2 & 3

SYSTEM P53

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F001	C	6.0 (4.8)	Note 1 & 2
F003	C	4.0	Note 1
F007	C/C	7.0 (6.5)	Note 1 & 2
F026A	C	4.0 (5.4)	Note 1 & 2
F026B	C	4.0 (7.2)	Note 1 & 2

SYSTEM P60

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F001	C	8.0	None
F003	C	30.0 (7.6)	Note 1 & 2
F004	C	30.0 (7.6)	Note 1 & 2
F007	C	30.0 (10.7)	Note 1 & 2
F008	C	30.0 (8.7)	Note 1 & 2
F009	C	8.0	Note 1
F010	C	8.0 (7.6)	Note 1 & 2
F021	C	7.4	None

SYSTEM P64

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F282A	C	4.0 (4.8)	Note 1 & 2
F282B	C	4.0 (4.5)	Note 1 & 2
F283A	C	4.0 (5.0)	Note 1 & 2
F283B	C	4.0 (5.0)	Note 1 & 2
F332A	O/C	4.0	Note 1
F332B	O/C	4.0	Note 1

SYSTEM P66

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F029A	C	4.0 (4.6)	Note 1 & 2

SYSTEM P71

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F148	C	12.0 (5.6)	Note 1 & 2
F149	C	12.0 (5.2)	Note 1 & 2
F150	C	12.0 (5.7)	Note 1 & 2
F300	C	4.0 (5.3)	Note 1 & 2
F301	C	4.0 (6.1)	Note 1 & 2
F302	C	4.0 (5.6)	Note 1 & 2
F303	C	4.0 (5.4)	Note 1 & 2
F304	C	30.0 (5.6)	Note 1 & 2
F305	C	30.0 (15.5)	Note 1 & 2
F306	C	30.0 (13.3)	Note 1 & 2
F307	C	30.0 (16.6)	Note 1 & 2

SYSTEM P75

<u>VALVE</u>	<u>SAFETY POSITION</u>	<u>MAXIMUM STROKE TIME</u>	<u>COMMENTS</u>
F507A	0	N/A	Relief Request P75-1
F507B	0	N/A	Relief Request P75-1
F507C	0	N/A	Relief Request P75-1
F507D	0	N/A	Relief Request P75-1
F508A	0	N/A	Relief Request P75-1
F508B	0	N/A	Relief Request P75-1
F508C	0	N/A	Relief Request P75-1
F508D	0	N/A	Relief Request P75-1

SYSTEM P81

<u>VALVE</u>	<u>SAFETY POSITION</u>	<u>MAXIMUM STROKE TIME</u>	<u>COMMENTS</u>
F503A	0	N/A	Relief Request P81-1
F503B	0	N/A	Relief Request P81-1
F504A	0	N/A	Relief Request P81-1
F504B	0	N/A	Relief Request P81-1

SYSTEM T41

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F006	C	4.0	Note 1 & 3
F007	C	4.0	Note 1

SYSTEM T42

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F003	C	4.0	Note 1
F004	C	4.0	Note 1
F011	C	4.0	Note 1 & 3
F012	C	4.0	Note 1 & 3
F019	C	4.0	Note 1
F020	C	4.0	Note 1

SYSTEM T48

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F005	0	81.0	None
F006	0	81.0	None
F023	0	81.0	None
F024	0	81.0	None
F025	0	81.0	None
F026	0	81.0	None

SYSTEM Z51

VALVE	SAFETY POSITION	MAXIMUM STROKE TIME	COMMENTS
F001	C	4.0	None
F002	C	4.0	None
F003	C	4.0	None
F004	C	4.0	None
F007	O/C	74.9	None
F008	O/C	74.9	None
F010	C	4.0	None
F011	C	4.0	None
F014	O/C	74.9	None
F016	O/C	74.9	None
F073A	O	9.4	None
F073B	O	9.4	None

NOTES

1. The maximum stroke time is the maximum isolation time given in Technical Specification Table 3.6.4-1 or 3.6.6.2-1.
2. The number in parenthesis was derived from the greater of 3 standard deviations from the mean plus 10% or 10% above the code allowable alert value (1.35 x for stroke times exceeding 10 seconds and 1.6 x for stroke times less than or equal to 10 seconds). This number is under consideration for future revisions to this specification and the Technical Specification.
3. Fast acting valve. Refer to Generic Relief Request 2.
4. The safety function of the RCIC trip and throttle valve is to close in the "trip" mode. This mode of closure is accomplished by spring action and not by use of the motor operator.
5. The valve opening time is an analytical time, based on the analysis supporting DCP 86/0083.

SYSTEM ENERGY RESOURCES, INC.
GRAND GULF NUCLEAR STATION, UNIT 1
PUMP AND VALVE INSERVICE TESTING PROGRAM

SPECIFICATION NO.: SERI-M-189.1
SPECIFICATION REVISION NO.: 3

APPENDIX B
APPENDIX REVISION NO.: 0

SPECIFICATION NO. SERI-M-189.1
PUMP AND VALVE INSERVICE TESTING PROGRAM

APPENDIX B
REVISION NO. 0

SPECIFICATION CHANGE REQUEST/NOTICE

SYSTEM ENERGY RESOURCES, INC.
GRAND GULF NUCLEAR STATION, UNIT 1
PUMP AND VALVE INSERVICE TESTING PROGRAM

SPECIFICATION NO.: SERI-M-189.1
SPECIFICATION REVISION NO.: 3

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REVISION STATUS SHEET

PAGE REVISION STATUS

<u>Page No.</u>	<u>Rev. No.</u>
i	0
ii	0
1	0
2	0
3	0
4	0
5	0

1.0 PURPOSE

To provide an avenue for the initiation of change requests to Specification No. SERI-M-189.1, Pump and Valve Inservice Inspection Program (M-189.1).

2.0 SCOPE

This appendix provides instruction to SERI organizations on inception, documentation, submittal, review, control, and incorporation of an M-189.1 Specification Change Request/Notice (SCR/SCN). Any change within the Inservice Inspection (ISI) boundary affecting M-189.1 shall be evaluated for impact to this specification. The M-189.1 SCR/SCN only makes changes to M-189.1 and is not intended for making design changes to the plant.

3.0 RESPONSIBILITY

3.1 SERI Organizations

3.1.1 Perform review of plant documents that could affect M-189.1 and initiate an M-189.1 SCR/SCN if applicable.

3.1.2 Submit M-189.1 SCR/SCNs to NPE for review and approval.

3.2 Nuclear Plant Engineering (NPE)

3.2.1 Performs review of documents that could affect M-189.1 (e.g., new ASME Code requirements, Technical Specification, NRC Documents, UFSAR, etc.) and initiates an M-189.1 SCR/SCN if applicable.

3.2.2 Approves or disapproves submitted M-189.1 SCR/SCNs.

3.2.3 Incorporates approved M-189.1 SCR/SCNs into M-189.1.

3.2.4 Maintains the M-189.1 SCR/SCN Log and File.

4.0 REFERENCES

4.1 Specification No. SERI-M-489.1, Technical Specification for the Ten-Year Inservice Inspection Plan.

4.2 Nuclear Plant Engineering Administration Procedure (NPEAP) 01-321, Standards.

5.0 ATTACHMENTS ---

5.1 M-189.1 Specification Change Request/Notice (Form)

6.0 DEFINITIONS

6.1 M-189.1 Specification Change Request/Notice (M-189.1 SCR/SCN) - A form originated by any SERI organization to request and make changes to M-189.1.

6.2 M-189.1 SCR/SCN Log - A record of M-189.1 SCR/SCN's processed by NPE.

7.0 DETAILS

7.1 General

7.1.1 M-189.1 SCR/SCNs must be processed in accordance with this appendix.

7.1.2 An M-189.1 SCR/SCN may be initiated by any SERI organization to request an addition or modification to testing information for components within the Inservice Inspection (ISI) boundary as depicted on ISI Boundary Diagrams (See Reference 4.1 for ISI Boundary Diagram Index).

7.1.3 Once approved, an M-189.1 SCR/SCN must not be revised. However, it may be cancelled, superseded, or voided and another issued.

7.1.4 Examples of changes to be documented via an M-189.1 SCR/SCN:

- a. The addition, deletion, or modification of valve or pump information provided by M-189.1.
- b. Incorporation of changes to Engineering Markups as a result of Design Change Packages (DCPs) or Change Notices (CNs).
- c. Editorial corrections.
- d. Changes to valve stroke times due to maintenance or other activities.
- e. Changes to reference drawing information provided by M-189.1.
- f. Modification, deletion, or addition of testing requirements as a result of document reviews.

7.1.5 Upon completion of activities within the ISI Boundary and the subject component returned to operation, originating organizations should submit any necessary M-189.1 SCR/SCNs within thirty (30) days.

7.2 M-189.1 SCR/SCN Initiation

7.2.1 PART I of M-189.1 SCR/SCN Form:

- a. Indicate current revision of Specification M-189.1.
- b. Thoroughly describe the change and provide marked-up pages when applicable.
- c. List all reference documents researched and provide reason for the change request.
- d. Initiator signs and dates the form and enters initiating organization.

7.3 M-189.1 SCR/SCN Submittal (SERI Organizations Other than NPE)

7.3.1 The responsible originating organization supervisor or superintendent must review the M-189.1 SCR/SCN prior to submittal to NPE.

7.3.2 Once initiator has obtained supervisor or superintendent review signature, NPE's Inservice Testing (IST) Responsible Engineer (RE) must be contacted for an M-189.1 SCR/SCN number. The number is entered on the M-189.1 SCR/SCN form and the form is submitted to NPE.

7.4 M-189.1 SCR/SCN Processing (NPE Organization)

7.4.1 When a NPE section submits an M-189.1 SCR/SCN, it must first be reviewed/signed by the initiator's Cognizant Principal Engineer (CPE) or designee, and then submitted to NPE's Inservice Testing (IST) Responsible Engineer (RE) for a number and processing.

7.4.2 NPE must process all M-189.1 SCR/SCNs submitted.

7.4.3 An M-189.1 SCR/SCN Log must be maintained by NPE for all M-189.1 SCR/SCNs received.

- 7.4.4 The NPE IST RE provides the disposition and justification on the M-189.1 SCR/SCN and obtains a verification review for those dispositioned as approved. Disapproved requests should be returned to initiator with an explanation. A copy must be maintained in the M-189.1 SCR/SCN File.
 - 7.4.5 After verification review, requests approved by NPE must be forwarded to NPE Mechanical Principal Engineer, NPE Quality Engineering, Authorized Nuclear Inservice Inspector (ANII), and the Manager, Nuclear Design, for approval prior to incorporation into M-189.1.
 - 7.4.6 Requests obtaining Manager, Nuclear Design approval must be incorporated into the next revision of M-189.1 in accordance with Reference 4.2. Revisions to M-189.1 must be scheduled for completion ninety (90) days, or sooner, prior to the next scheduled refueling outage, if time allows.
- 7.5 Issuance of M-189.1 SCR/SCNs
- 7.5.1 Approved M-189.1 SCR/SCNs must be submitted to NPE Document Control for issuance to Plant Staff Document Control for controlled distribution.

M-189.1 SPECIFICATION CHANGE REQUEST/NOTICE (M-189.1 SCR/SCN)

PART I - INITIATION SECTION

SCR/SCN NUMBER: _____

CURRENT SPEC. REV. NO.: _____

SCR/SCN PAGE _____ OF _____

PROPOSED CHANGE TO SPECIFICATION:
(List Section, Page No., etc.)

REASON FOR SCR/SCN:

INITIATOR: _____ DATE: _____ SERI ORGANIZATION: _____

INITIATOR'S SUPERVISOR/SUPERINTENDENT: _____ DATE: _____

PART II - DISPOSITION SECTION

DISPOSITION: _____

DISPOSITION JUSTIFICATION:

DISPOSITIONER

DATE

VERIFIER

DATE

MECHANICAL PE

DATE

QUALITY ENGINEERING

DATE

ANII

DATE

MANAGER, NUCLEAR DESIGN

DATE