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February 5, 1985

NUCLEAR LICENSING & SAFETY DEPARTMENT

U. S. Nuclear Regulator Commission
Office of Nuclear Reactor Regulation
Washington, D. C. 20555

Attention: Mr. Harold R. Denton, Director

Dear Mr. Denton:

SUBJECT: Grand Gulf Nuclear Station
Unit 1
Docket No. 50-416
License No. NPF-29
File: 0290/M-189.1
Pump and Valve Inservice Testing
Program - Check Valve Testing
AECM-85/0034

By letter to Mississippi Power & Light (MP&L) dated October 10, 1984, the NRC staff requested additional information pertaining to the Grand Gulf Nuclear Station (GGNS) Unit 1 Pump and Valve Inservice Testing Program. MP&L's previous response to the NRC request (AECM-85/0019, dated January 18, 1985) addressed all concerns with the exception of those related to check valve testing. The attached report provides MP&L's proposed methods for testing check valves at GGNS Unit 1. Also attached are hand marked copies of the affected pages of Specification MP&L-M-189.1

If you have any further questions, please contact this office.

Yours truly,

L. F. Dale
Director

MLC/JGC:rg
Attachment

cc: Mr. J. B. Richard (w/a)
Mr. R. E. McGehee (w/a)
Mr. N. S. Reynolds (w/a)
Mr. G. B. Taylor (w/o)

cc: Continued on next page

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RESPONSE

TO

NUCLEAR REGULATORY COMMISSION STAFF'S INQUIRIES

ON

PUMP AND VALVE INSERVICE TESTING

GRAND GULF NUCLEAR STATION UNIT 1

PREPARED BY: _____

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INTRODUCTION:

On October 10, 1984, Mississippi Power and Light Company (MP&L) received a letter from the Nuclear Regulatory Commission (NRC) with respect to the Grand Gulf Nuclear Station Unit 1 Pump and Valve Inservice Testing Program (reference letter to J. B. Richard-MP&L, from Elinor G. Adensam-NRC, Docket No. 50-416). The NRC and their consultant (EG&G-Idaho), while reviewing the pump and valve testing program (Specification MP&L-M-189.1, Revision 0), had identified a need for additional information to complete their evaluation. A working meeting was held with the NRC staff on November 27, and 28, 1984, to discuss the staff's questions and comments prior to providing a formal response to the referenced letter. As a result of the working meeting, information in addition to that requested by the staff's October 10, 1984, letter has been requested (reference letter to J. B. Richard-MP&L, from Les Kintner-NRC, December 12, 1984, Docket No. 50-416).

This report provides responses to the NRC staff's comments, or portions of comments, concerning check valves and other miscellaneous items. This report is in conjunction with AECM 85/0019, dated January 18, 1985. Also included are hand marked copies of the affected pages of Specification MP&L-M-189.1. The subject pages of the previous submittal should be replaced with these pages which reflect the additional check valve related changes. MP&L's responses are given by system and in numerical order to correspond with the format of the staff's inquiries.

Throughout this report, where requested, MP&L has supplied the method of testing for certain valves. These methods are currently being used or are planned for use, and are subject to change.

Also, several Relief Requests are being submitted to allow disassembly as an alternate method of testing certain check valves. These valves are currently being investigated and, at some later date, a more practical means of testing may be employed and additional Relief Requests will be submitted if necessary.

General Comments

Minor changes have been made throughout the program as a result of a review of the safety functions of all check valves listed. These changes included "Test to Position", "Method of Testing", etc.

Nuclear Boiler System, B21

NRC Comment B.2

How are the air supply check valves to the non-ADS safety relief valves verified shut?

MP&L Response:

The air supply check valves (Q1B21-F036 series) to the non-ADS safety/relief valves are verified shut by depressurizing the air supply lines upstream of the -F036 valves and verifying that the respective accumulators hold pressure by venting from the accumulators.

NRC Comment B.3

How are the air supply stop check valves to the ADS air accumulator verified open?

MP&L Response:

The air supply stop-check valves (Q1B21-F036 and -F039 series) to the ADS air accumulators are individually verified to open by depressurizing and repressurizing the accumulators. Full required flow will be verified by checking for pressurized flow at the accumulator vent valve. Since a differential pressure of 0.1 psi over 100 feet of 2 inch diameter pipe will ensure 50 scfm flow, any noticeable pressurized flow at the vent valve ensures greater than 1 scfm flow which is the safety flowrate.

NRC Comment B.4

Are valves F100A-D exercised in both the open and closed directions?

MP&L Response:

Yes, valves Q1B21-F100A-D are exercised both open and closed. The "Test to Position" has been corrected. Also, Relief Request B21-4 is being submitted to explain the method of testing these valves.

NRC Comment B.6

In reference to Comments B21-4 and B21-9; what are the consequences of a loss of reactor feedwater?

MP&L Response:

With reference to Comment B21-9, to test valve Q1B21-F803 to the closed position would require entering the Auxiliary Building Steam Tunnel, which is a very high radiation area inaccessible during power operation. Thus, testing -F803 would require shutting down to hot standby for a minimum of 8 hours.

Additional Nuclear Boiler Items

Safety/Relief valve discharge vacuum breakers, check valves -F037 and -F078 series, have previously been included only for the ADS valves. The remainder of these valves have been added due to their identical function.

Reactor Recirculation System, B33

Valves Q1B33-F013A, -F013B, -F017A, and -F017B are being added due to their drywell isolation function. Comment B33-1 explains that testing of these valves will be done only during shutdown conditions.

Control Rod Drive System, C11

NRC Comment D.3

How is valve 138 verified shut?

MP&L Response:

Currently, all 138 valves are verified shut during scram testing of each control rod. Also, item (d) of the Alternative Testing section of Relief Request C11-1 has been deleted.

Standby Liquid Control System, C41

NRC Comment E.1

Provide a more detailed technical explanation why valves F006 and F007 cannot be exercised during power operation or cold shutdown.

MP&L Response:

Relief Request C41-1 has been modified to explain that testing of these valves requires firing of the squib valves.

Additional Standby Liquid Control Items

Relief Request C41-2 is being submitted to explain that valves -F033A and -F033B can be full flow tested only during refueling.

Residual Heat Removal System, E12

NRC Comment F.2

Is valve F308 verified shut during power operation by pressure readings?

MP&L Response:

Currently, valve Q1E12-F308 is verified shut by observing a differential pressure across the valve. However, Comment E12-8 explains that testing is performed only during shutdown conditions due to high radiation.

Additional Residual Heat Removal Items

1. Comment E12-7 has been added to explain that valves -F050A and B will be tested only during shutdown conditions due to system interlocks.

2. Relief Request E12-1 is being submitted to explain that valves -F046A, B, and C cannot be full flow tested and will be disassembled during the first refueling outage.

3. Relief Request E12-2 has been modified to explain that valves -F103A and B, and -F104A and B will not be tested open due to the Humphrey Issue.

4. Relief Request E12-3 is being submitted to explain that valves -F273, -F274, and -F278 cannot be full flow tested and will be disassembled during the first refueling outage.

High Pressure Core Spray System, E22

1. MP&L plans to test valve Q1E22-F016 to the open position by verifying proper HPCS system flow when taking suction from, and discharging to the suppression pool and to the closed position by verifying a lack of pressurized flow at test connection -F017.

2. Comment E22-2, which concerns valve -F039, has been deleted. F039 will be tested closed at the normal quarterly frequency.

Feedwater Leakage Control System, E38

NRC Comment H.2

How are valves F002A, F002B, F003A, and F003B full-stroke exercised during refueling outages?

MP&L Response:

The function of the feedwater leakage control system is to keep the feedwater lines filled post-LOCA and, therefore, has no maximum flowrate identified. Valved Q1E38-F002A and B and -F003A and B will be tested closed by verifying proper pressure differentials upon reverse flow and will be tested open by use of a Clampitron flowmeter. The Clampitron will verify that sufficient flow is being passed without quantifying that flow.

Relief Request E38-1 has been deleted and replaced with Comment E38-2 which explains that these valves can only be tested during shutdown conditions.

Reactor Core Isolation Cooling, E51

NRC Comment I.1

Provide a more detailed technical explanation why valve F065 cannot be exercised at the Code-specified frequency.

MP&L Response:

Relief Request E51-2 is being submitted to explain that testing this valve requires injecting water into the vessel which is undesirable due to temperature, thermal stress, and oxygen levels.

NRC Comment I.2

Can valves F079 and F081 be exercised during power operation?

MP&L Response:

These valves are currently exercised quarterly. The "Test During" information has been corrected.

Additional Reactor Core Isolation Cooling Items

1. Relief Request E51-1 is being submitted to explain that no feasible means, other than disassembly, exist to exercise -F030 to the open position.

2. Relief Request E51-3 is being submitted to explain that valves -F021, -F040, and -F204 cannot be full flow tested at the Code frequency during extended outages because the RCIC system is inoperable.

3. Relief Request E51-4 is being submitted to explain that valve -F021 will be disassembled during refueling. This Relief Request will not be necessary if -F021 can be tested during RCIC operation as referenced in Relief Request E51-3. However, the method of testing -F021 has not been proven to be a full flow test.

Standby Service Water System, P41

NRC Comment P.2

How are valves F169A and F169B verified shut if they are exercised during cold shutdown? What is "Method of Testing 16" where these valves are concerned?

MP&L Response:

These stop-check valves will be verified closed by use of the handwheel or other positive means during all modes of operation. "Method of Testing 16" has been deleted.

These valves will be verified open by installing an annubar at flowpoint FP-N076 to measure the flowrate.

Additional Standby Service Water Items

1. Check valve -F236 has been included due to its redundant isolation function.

2. Gate valve, -F174 has also been included due to its redundant isolation function. Relief Request P41-1 explains that this valve can be tested only during refueling periods.

Plant Service Water System, P44

NRC Comment R.1

How is operability of valve F043 verified during operation of the plant service water system? Note 1 does not agree with Comment P44-1.

MP&L Response:

Note 1 has been deleted.

Valve -F043 will be tested closed by verifying a lack of pressurized flow at an upstream test connection when the downstream piping is pressurized.

NRC Comment R.2

Identify the equipment that would be affected while testing valve F043.

MP&L Response:

Exercising valve -F043 during normal plant operation would affect plant service water flow to the drywell chillers and the steam tunnel coolers.

Instrument Air System, P53

NRC Comment T.1

What are the consequences of a loss of air to the MSIV accumulators and ADS receivers? (Reference Comments P53-1 through 6)

MP&L Response:

Valve Q1P53-F002 and -F006 will be tested closed by verifying a lack of pressurized flow upstream when the downstream piping is pressurized.

Also, valve -F012 has been added to the program.

Plant Chilled Water System, P71

Comment P71-1 concerns valve -F151 and has been expanded to explain that valve failure in the closed position would isolate cooling water to the containment cooling fan units. This would allow area temperatures to rise and force a plant shutdown.

Standby Diesel Generator System, P75

NRC Comment 2.1

Valves included in the IST Program should be tested in accordance with Section XI or individual specific relief from the Code requirements should be requested. (Reference Relief Request P75-1)

MP&L Response:

Relief Requests P75-2, P75-3, P75-4, and P75-5 are being submitted to explain that certain check valves cannot be individually tested but can be indirectly tested during operability testing of the associated diesel engine.

Additional Standby Diesel Generator Items

Valves Q1P75-F053A&B have been deleted. These valves have no safety function. The downstream valve, -F078 serves to prevent backflow through the non-safety related DC fuel oil booster pumps.

HPCS Diesel Generator System, P81

NRC Comment AA.1

Valves includes in the IST program should be tested in accordance with Section XI or individual specific relief from the code requirements should be requested. (Reference Relief Request P81-1)

MP&L Response:

Relief Request P81-2 is being submitted to explain that certain check valves cannot be individually tested but can be indirectly tested during operability testing of the associated diesel engine.

Pump Program

Standby Liquid Control System, C41

Relief Request C41-1 has been modified to reflect the correct "Function" of the SLC pumps.

Also, Relief Request C41-2 is being submitted to explain that the flowrate for the SLC pumps cannot be measured quarterly but will be verified each refueling outage.

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 dowell 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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UNIT 1
INSERVICE INSPECTION PROGRAM
PUMP AND VALVE

RELIEF REQUEST C41-1:
STANDBY LIQUID CONTROL SYSTEM

REV. 3
SHEET 1 OF 1

VALVES:	F006, F007 (M-1082, E-7, E-8)
CATEGORY:	C
CLASS:	1
TYPE:	Stop check, check
FUNCTION:	Drywell isolation; open for SLC injection
TEST REQUIREMENTS:	Exercise every 3 months
EXPLANATION:	To verify valve opening would require SLC injection, which is unacceptable during plant operation or cold shutdown.
ALTERNATIVE TESTING:	Exercise once every 18 months per GGNS Technical Specifications surveillance requirements, Section 4.1.5(d).

Replaced by new RR C41-1

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RELIEF REQUEST C41-1: STANDBY LIQUID CONTROL SYSTEM

VALVES:	F006, F007 (M-1082, E-7, E-8)
CATEGORY:	C
CLASS:	1
TYPE:	Stop check, check
FUNCTION:	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 would require 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. In addition, both valves will be tested closed during cold shutdown and refueling. F006 will be tested closed by use of the handwheel and F007 will be tested closed by pressurizing downstream and verifying no flow, at the test connection upstream.

RELIEF REQUEST C41-2: STANDBY LIQUID CONTROL SYSTEM

VALVES:	F033A, B (M-1082, F-6, D-6)
CATEGORY:	B
CLASS:	2
TYPE:	Check
FUNCTION:	Open for SLC injection. Closed to prevent short circuiting of SLC discharge back to pump suction through the non-operating SLC pump discharge relief valve.
TEST REQUIREMENTS:	Check valves shall be exercised at least once every 3 months (IWV-3520).
BASIS FOR RELIEF:	It is not possible with the normal system configuration to verify a flowrate through these valves as the flow-path is from the SLC test tank through the operating SLC pump back to the test tank. Verifying flow by pumping water to the reactor vessel would require firing of the squib valves.
ALTERNATIVE TESTING:	Valves will be tested to the open position by verifying proper pump discharge pressure when performing monthly pump operability tests. The required safety flow will be verified by monitoring the SLC test tank level drop when performing the 18 month surveillance required by Technical Specifications. Both sets of pumps and discharge valves will be tested every 18 months.

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PUMP AND VALVE

RELIEF REQUEST E12-1: RESIDUAL HEAT REMOVAL SYSTEM REV. 3
SHEET 1 OF 1

VALVES:	F098 (M-1061D,G-5)
CATEGORY:	C
CLASS:	2
TYPE:	Check
FUNCTION:	Cross-connect standby service water to RHR system
TEST REQUIREMENTS:	Exercise every 3 months
BASIS FOR RELIEF:	To verify that check valve F098 moves to the open position would require flow from the standby service water system into the RHR system. Such a flow path will significantly degrade the water quality of the RHR system and the suppression pool. (The standby service water system is chemically treated to control the growth of algae.) Modifying the valve to accommodate an external disk exercising device has been investigated and found to be impractical. Disk movement verification using ultrasonic or radiographic equipment was also considered but found to be unacceptable. These methods would also require flow and, therefore, would introduce chemically active and poor quality water into the RHR system and suppression pool.
ALTERNATIVE TESTING:	Initially disassemble check valve when RHR Loop B is depressurized and drained during the first regularly scheduled refueling outage. Subsequent valve disassemblies will be determined from the results of the initial valve disassembly.

Replaced by new RR E12-1

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RELIEF REQUEST E12-1: RESIDUAL HEAT REMOVAL SYSTEM

VALVES:	F046A (M-1085B, D-5) F046B, F046C (M-1085A, C-6, D-6)
CATEGORY:	C
CLASS:	2
TYPE:	Check
FUNCTION:	Closed to protect RHR jockey pumps from backflow through the RHR pump minimum flow line during steam condensing operation. Open to pass RHR minimum 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 minimum flow line.
ALTERNATIVE TESTING:	Valves will be disassembled and their disks examined for free movement during the first refueling outage. The requirement for subsequent valve disassemblies will be determined from the results of the initial valve disassemblies.

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INSERVICE INSPECTION PROGRAM
PUMP AND VALVE

RELIEF REQUEST E12-2: RESIDUAL HEAT REMOVAL SYSTEM REV. 3
SHEET 1 OF 1

VALVES:	F103A, F103B (M-1085B,D-7; M1085A,C-4) F104A, F104B (M-1085B,D-7; M1085A,C-4)
CATEGORY:	C, A
CLASS:	2
TYPE:	Stop check
FUNCTION:	Vacuum breaker check valves on the discharge line from the RHR heat exchanger relief valves
TEST REQUIREMENTS:	Exercise every 3 months
BASIS FOR RELIEF:	These valves cannot be tested closed. There are no test connections between the valves and the suppression pool.
ALTERNATIVE TESTING:	These valves will be disassembled and their discs examined for free movement every refueling outage.

Replaced by new RR E12-2

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RELIEF REQUEST E12-2: RESIDUAL HEAT REMOVAL SYSTEM

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 connections where a vacuum gage 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 operational test. In addition, 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 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 operability of the steam condensing mode becomes a requirement, these valves will be disassembled during the first refueling outage. The requirements for subsequent disassemblies will be determined from the results of the initial disassembly. In addition, these valves will be tested closed at the normal quarterly frequency.

RELIEF REQUEST E12-3: RESIDUAL HEAT REMOVAL SYSTEM

VALVES:	F273 (M-1085A, B-5) F274 (M-1085B, D-5) F278 (M-1085A, C-5)
CATEGORY:	C
CLASS:	2
TYPE:	Stop Check
FUNCTION:	Closed to protect low pressure side of RHR subsystems (i.e., jockey pumps and discharge piping) from high pressure RHR pump discharge. 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 the first refueling outage. The requirements for subsequent valve disassemblies will be determined from the results of the initial valve disassembly.

RELIEF REQUEST E38-1:
FEEDWATER LEAKAGE CONTROL SYSTEM

E38-1 VALVES:	F002A (M-1112, F-6) F002B (M-1112, E-6) F003A (M-1112, C-6) F003B (M-1112, B-6)
CATEGORY:	C
CLASS:	2
TYPE:	Stop Check
FUNCTION:	Closed to feedwater pressure; open to control feedwater leakage following isolation valve closure.
TEST REQUIREMENTS:	Exercise every 3 months
BASIS FOR RELIEF:	To pass flow through the check valve, to demonstrate opening, would require an interruption of feedwater, RHR, and RWCU, which all tie together downstream of subject check valve. This would put the plant in an unsafe condition.
ALTERNATE TESTING:	Exercise during refueling

Replaced by Comment E38-2

RELIEF REQUEST E51-1: REACTOR CORE ISOLATION COOLING SYSTEM

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 were 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% of full flow through the valve.
ALTERNATIVE TESTING:	The valve will be disassembled and its disk examined for free movement during the first refueling outage. The requirement for subsequent disassemblies will be determined from the initial disassembly. The valve will be tested closed at the code required frequency.

RELIEF REQUEST E51-2: REACTOR CORE ISOLATION COOLING

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.

RELIEF REQUEST E51-3: REACTOR CORE ISOLATION COOLING SYSTEM

VALVES:	F021 (M-1083A, E-4) F040 (M-1083A, C-4) F204 (M-1083A, F-3)
CATEGORY:	C
CLASS:	2
TYPE:	Check
FUNCTION:	F021 is the minimum flow to Suppression Pool line check valve. F040 is the RCIC turbine exhaust line to Suppression Pool check valve. F204 is the RCIC pump discharge valve.
TEST REQUIREMENTS:	Check valves shall be exercised at least once every 3 months (IWV-3520).
BASIS FOR RELIEF:	Verifying full safety flow through these check valves requires operation of the RCIC system. Since RCIC is inoperable during cold shutdown conditions these valves cannot be tested at the ASME Code required frequency during extended outages.
ALTERNATIVE TESTING:	Valves will be tested open with full flow within 14 days after exceeding 135 psig reactor pressure when returning to power upon completion of refueling. Valve F021 is not required to be flow tested open if it was disassembled during the outage in accordance with Relief Request E51-4.

RELIEF REQUEST E51-4: REACTOR CORE ISOLATION COOLING SYSTEM

VALVES:	F021 (M-1083A, E-4)
CATEGORY:	C
CLASS:	2
TYPE:	Check
FUNCTION:	Minimum flow line to Suppression Pool check valve.
TEST REQUIREMENTS:	Check valves shall be exercised at least once every 3 months (IWV-3520).
BASIS FOR RELIEF:	It is not possible with present plant design to verify full safety flow through this valve. There are no installed flow elements with which to monitor flow.
ALTERNATIVE TESTING:	Valve will be disassembled and it's disk examined for free movement during the first refueling outage. Subsequent valve disassemblies will be determined from the results of the initial valve disassembly.

RELIEF REQUEST P41-1: STANDBY SERVICE WATER SYSTEM

VALVES:	F174 (M-1061D, H-3)
CATEGORY:	C
CLASS:	3
TYPE:	Check
FUNCTION:	Prevent backflow from the Standby Service Water System to the Plant Service 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:	Exercise the valve to the closed direction every refueling outage.

RELIEF REQUEST P42-1: COMPONENT COOLING WATER

VALVES:	F200A (M-1063A, G-3) F200B (M-1063A, F-4) F201A (M-1063A, F-8) F201B (M-1063A, E-7)
CATEGORY:	B
CLASS:	3
TYPE:	Motor operated butterfly
FUNCTION:	Isolate the spent fuel pool heat exchangers from the standby service water system.
TEST REQUIREMENTS:	Category B valves shall be exercised at least once every 3 months (IWV-3411).
BASIS FOR RELIEF:	These valves are required by a license condition to be locked closed. This is because the SSW system is not capable of providing sufficient flow for the fuel pool heat exchangers.
ALTERNATIVE TESTING:	These valves will be verified to be locked closed every 31 days as required by Technical Specification 4.7.1.1(a)(2). No other testing will be performed until system modifications are made to provide sufficient flowrate capability. These modifications are scheduled for the first refueling outage.

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RELIEF REQUEST P75-1:
STANDBY DIESEL GENERATOR SYSTEM

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VALVES:	All auxiliary system components except starting air storage tank relief valves (M-1070A, B, C, D)
CATEGORY:	B, C
CLASS:	3
TYPE:	Gate, globe, check, stop check, automatic vent, 3-way, relief valve
FUNCTION:	Valves for which relief is sought are found in the following standby diesel generator auxiliary systems: compressed air, fuel oil, jacket water, and lube oil.
TEST REQUIREMENTS:	Exercise-test every 3 months
BASIS FOR RELIEF:	These auxiliary systems (and their components) are an integral part of the standby diesel generator system. They are, therefore, operability tested every 31 days (or less) on a staggered test basis (refer to GGNS Technical Specifications, Sections 4.8.1.1.2 and 4.8.1.2, and Table 4.8.1.1.2-1). At the least frequent interval referenced above, standby diesel generator auxiliary system components are tested more often than required by ASME Section XI. The failure of any of those valves to perform any intended function will be immediately identified by the failure of the associated diesel generator to meet the appropriate GGNS Technical Specifications.
ALTERNATIVE TESTING:	Operability test every 31 days (or less) on a staggered test basis in accordance with GGNS Technical Specifications, Sections 4.8.1.1.2 and 4.8.1.2, and Table 4.8.1.1.2-1.

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RELIEF REQUEST P75-2: STANDBY DIESEL GENERATOR SYSTEM

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 (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 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.

RELIEF REQUEST P75-3: STANDBY DIESEL GENERATOR SYSTEM

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.

RELIEF REQUEST P75-4: STANDBY DIESEL GENERATOR SYSTEM

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, D-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 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.

RELIEF REQUEST P75-5: STANDBY DIESEL GENERATOR SYSTEM

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:
HPCS DIESEL GENERATOR SYSTEM

VALVES:	All auxiliary system components EXCEPT starting air storage tank relief valves (M-1093A, B, C)
CATEGORY:	B, C
CLASS:	3
TYPE:	Gate, globe, check, stop check, automatic vent, 3-way, relief valve 4
FUNCTION:	Valves for which relief is sought are found in the following HPCS diesel generator auxiliary systems: compressed air, fuel oil, jacket water, and lube oil.
TEST REQUIREMENTS:	Exercise-test every 3 months
BASIS FOR RELIEF:	These auxiliary systems (and their components) are an integral part of the HPCS diesel generator system. They are, therefore, operability tested every 31 days (or less) on a staggered test basis (refer to GGNS Technical Specifications, Sections 4.8.1.1.2 and 4.8.1.2, and Table 4.8.1.1.2-1). At the least frequent interval referenced above, HPCS diesel generator auxiliary system components are tested more often than required by ASME Section XI. The failure of any of those valves to perform any intended function will be immediately identified by the failure of the associated diesel generator to meet the appropriate GGNS Technical Specifications.
ALTERNATIVE TESTING:	Operability test every 31 days (or less) on a staggered test basis in accordance with GGNS Technical Specifications, Sections 4.8.1.1.2 and 4.8.1.2, and Table 4.8.1.1.2-1.

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

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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	~~NA~~ YES	NA	9	NOTE IV
F030B	2	A (P)	NE	3/4	GL	H	LC	B21	NA	1077A	C-8	YES	~~NA~~ YES	NA	9	NOTE IV
F032A	1	C,A	NE	24	C	A	O	B21	O/C	1077A	E-8	YES	YES	5	1, 5, 9	NOTES 3, ~~5~~, & IV RELIEF REQUEST B21-1
F032B	1	C,A	NE	24	C	A	O	B21	O/C	1077A	B-8	YES	YES	5	1, 5, 9	NOTES 3, ~~5~~, & IV RELIEF REQUEST B21-1
F036A	3	C	NE	1	C	NA	O	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	COMMENT B21-2
F036B	3	C	NE	1	C	NA	O	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036C	3	C	NE	1	C	NA	O	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036D	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036E	3	C	NE	1	C	NA	O	B21	O/C	1077C	D-6	YES	YEA	4, 5	1, 5	SAME AS F036A
F036F	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036G	3	C	NE	1	C	NA	O	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036H	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036J	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036K	3	C	NE	1	C	NA	O	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036L	3	C	NE	1	C	NA	O	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036M	3	C	NE	1	C	NA	O	B21	O/C	1077C	D-6	YES	YEA	4, 5	1, 5	SAME AS F036A

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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	O	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036P	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036R	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036S	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036T	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F036A
F036U	3	C	NE	1	SC	H	O	B21	O/C	1077C	G-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036V	3	C	NE	1	C	NA	O	B21	O/C	1077C	D-6	YES	YES	4, 5	1, 5	SAME AS F036A
F036W	3	C	NE	1	C	NA	O	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
F037D	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	SAME AS F037A
F037F	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	SAME AS F037A
F037H	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	SAME AS F037A
F037L	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	SAME AS F037A
F037N	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	SAME AS F037A
F037R	3	C	NE	10	C	NA	C	B21	O/C	1077C	F-2	YES	YES	4, 5	1, 5	SAME AS F037A
F037U	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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VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACT-UATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M-	P&ID COORD-INATES	HIGH RADI-ATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING	
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
F039P	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F039D
F039R	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F039D
F039S	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F039D
F039T	3	C	NE	1	SC	H	O	B21	O/C	1077C	H-4	YES	YES	4, 5	1, 5	SAME AS F039D
F041A	1	C, B	NE	8	RV	A	C	B21	O	1077C	F-5	YES	YES	~~4, 5~~ 2, 5	1, 5, 10, 11	NOTE 4 RR B21-3 ~~COMMENT B21-10~~
F041B	1	C, B	NE	8	RV	A	C	B21	O	1077C	F-6	YES	YES	~~4, 5~~ 2, 5	1, 5, 10, 11	SAME AS F041A
F041C	1	C, B	NE	8	RV	A	C	B21	O	1077C	F-5	YES	YES	~~4, 5~~ 2, 5	1, 5, 10, 11	SAME AS F041A
F041D	1	C, B	NE	8	RV	A	C	B21	O	1077C	F-6	YES	YES	~~4, 5~~ 2, 5	1, 5, 10, 11	SAME AS F041A
F041E	1	C, B	NE	8	RV	A	C	B21	O	1077C	F-5	YES	YES	~~4, 5~~ 2, 5	1, 5, 10, 11	SAME AS F041A
F041F	1	C, B	NE	8	RV	A	C	B21	O	1077C	F-6	YES	YES	~~4, 5~~ 2, 5	1, 5, 10, 11	SAME AS F041A
F041G	1	C, B	NE	8	RV	A	C	B21	O	1077C	F-5	YES	YES	~~4, 5~~ 2, 5	1, 5, 10, 11	SAME AS F041A
F041K	1	C, B	NE	8	RV	A	C	B21	O	1077C	F-6	YES	YES	~~4, 5~~ 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	ACT-UATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P&ID COORD-INATES	HIGH RADI-ATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING	
F098D	2	B	NE	28	G	M	C	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	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100B	3	C	NE	3	C	NA	C	B21	C/O	1077C	D-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100C	3	C	NE	3	C	NA	C	B21	C/O	1077C	D-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100D	3	C	NE	2½	C	NA	C	B21	C/O	1077C	G-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100E	3	C	NE	2½	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100F	3	C	NE	2½	C	NA	C	B21	O/C	1077C	G-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100G	3	C	NE	2½	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100H	3	C	NE	2½	C	NA	C	B21	O/C	1077C	G-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100J	3	C	NE	2½	C	NA	C	B21	O/C	1077C	G-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100K	3	C	NE	2½	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100L	3	C	NE	2½	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100M	3	C	NE	2½	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100N	3	C	NE	2½	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100P	3	C	NE	2½	C	NA	C	B21	O/C	1077C	G-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100R	3	C	NE	2½	C	NA	C	B21	O/C	1077C	G-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4

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VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACT-UATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M-	P&ID COORD-INATES	HIGH RADI-ATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING	
F100S	3	C	NE	2½	C	NA	C	B21	O/C	1077C	G-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100T	3	C	NE	2½	C	NA	C	B21	O/C	1077C	G-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100U	3	C	NE	2½	C	NA	C	B21	O/C	1077C	G-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100V	3	C	NE	2½	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F100W	3	C	NE	2½	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4, 5	1, 5	~~COMMENT B21-3~~ RELIEF REQUEST B21-4
F113	3	B	NE	4	G	~~A~~ AFS	O	B21	C	1077A	E-1	~~NO~~ YES	YES	~~NA~~ 4,5	~~NA~~ 2,5,6,8,15	~~NOTE V~~ COMMENT B21-10
F114	3	B	NE	4	G	~~A~~ AFS	O	B21	C	1077A	E-1	~~NO~~ YES	YES	~~NA~~ 4,5	~~NA~~ 2,5,6,8,15	~~NOTE V~~ COMMENT B21-10
F124A	3	C	NE	1	RV	NA	C	B21	O	1077C	H-4	YES	YES	4, 5	10	NONE
F124B	3	C	NE	1	RV	NA	C	B21	O	1077C	H-4	YES	YES	4, 5	10	NONE
F124C	3	C	NE	1	RV	NA	C	B21	O	1077C	H-4	YES	YES	4, 5	10	NONE
F124D	3	C	NE	1	RV	NA	C	B21	O	1077C	H-4	YES	YES	4, 5	10	NONE
F124E	3	C	NE	1	RV	NA	C	B21	O	1077C	H-4	YES	YES	4, 5	10	NONE
F124F	3	C	NE	1	RV	NA	C	B21	O	1077C	H-4	YES	YES	4, 5	10	NONE
F124G	3	C	NE	1	RV	NA	C	B21	O	1077C	H-4	YES	YES	4, 5	10	NONE
F124H	3	C	NE	1	RV	NA	C	B21	O	1077C	H-4	YES	YES	4, 5	10	NONE
F125A	3	C	NE	1	RV	NA	C	B21	O	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.

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GRAND GULF NUCLEAR STATION
UNIT 1
INSERVICE INSPECTION PROGRAM
SECTION XI OF ASME CODE
VALVE SUMMARY LISTING

SYSTEM NUCLEAR BOILER B21

JOB 15028

REV. 3
SHEET 3 OF 3

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACT-UATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORD-INATES	HIGH RADI-ATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING	
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
F037E	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4,5	1,5	COMMENT B21-3
F037G	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4,5	1,5	COMMENT B21-3
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
F037M	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4,5	1,5	COMMENT B21-3
F037P	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4,5	1,5	COMMENT B21-3
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
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

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

INSERVICE INSPECTION PROGRAM
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SYSTEM NUCLEAR BOILER B21

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACT-UATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M-	P&ID COORD-INATES	HIGH RADIATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING	
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
F078E	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4,5	1,5	COMMENT B21-3
F078G	3	C	NE	10	C	NA	C	21	O/C	1077C	D-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
F078M	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-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
F078S	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-2	YES	YES	4,5	1,5	COMMENT B21-3
F078T	3	C	NE	10	C	NA	C	B21	O/C	1077C	D-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

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

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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.

ALTERNATE TESTING: Exercise during shutdown ~~or~~ 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)

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.

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

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

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 ~~or~~ and refueling.

B21-3. VALVE:

~~F037B~~	~~F078B~~	~~F100A~~ (M-1077C, D-2)
~~F037C~~	~~F078C~~	~~F100B~~ (M-1077C, D-2)
~~F037E~~	~~F078E~~	~~F100C~~ (M-1077C, D-2)
F037A,	F078A,	~~F100D~~ (M-1077C, G-2)
~~F037G,~~	~~F078G,~~	~~F100E~~ (M-1077C, D-2)
F037D,	F078D,	~~F100F~~ (M-1077C, G-2)
~~F037J,~~	~~F078J,~~	~~F100G~~ (M-1077C, D-2)
~~F037H~~ F037F	F078F,	~~F100H~~ (M-1077C, G-2)
~~F037K~~ F037H	F078H,	~~F100J~~ (M-1077C, G-2)
~~F037K,~~	~~F078K,~~	~~F100K~~ (M-1077C, D-2)
~~F037M,~~	~~F078M,~~	~~F100L~~ (M-1077C, D-2)
~~F037P,~~	~~F078P,~~	~~F100M~~ (M-1077C, D-2)
~~F037S,~~	~~F078S,~~	~~F100N~~ (M-1077C, D-2)
F037L,	F078~~K~~L	~~F100P~~ (M-1077C, G-2)
F037N,	F078L,	~~F100R~~ (M-1077C, G-2)
F037R,	F078N,	~~F100S~~ (M-1077C, G-2)
F037U,	F078R,	~~F100T~~ (M-1077C, G-2)
~~F037T,~~	~~F078U~~ T	~~F100U~~ (M-1077C, G-2)
~~F037V,~~	~~F078V~~	~~F100V~~ (M-1077C, D-2)
~~F037W,~~	~~F078W~~	~~F100W~~ (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: ~~A steam blowdown concurrent with an open disc could result in personal injury~~. Valves are located inside the drywell which is inaccessible during power operation. Testing requires ALTERNATE TESTING: Exercise during cold shutdown ~~or~~ and refueling.

B21-4. VALVE: F065A (M-1077A, D-8)
F065B (M-1077A, C-8)
CATEGORY: A
CLASS: 2
TYPE: Motor operated gate

personnel access and can be performed only during shutdown conditions.

FUNCTION: Outboard containment isolation valves on feedwater lines.

TEST REQUIREMENTS: Exercise every 3 months.

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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 ~~or~~ 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: ~~These valves are located in the main steam tunnel, which is a high radiation zone.~~ 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 ~~or~~ and refueling.

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

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$_x$ 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 ~~or~~ and refueling.

B21-10. VALVE: 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); F051J (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: C, B
CLASS: 1

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INSERVICE INSPECTION PROGRAM
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VALVE SUMMARY LISTING

SYSTEM REACTOR RECIRCULATION B33

JOB 15026

REV. 3
SHEET 1 OF 2

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACT-UATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P&ID COORD-INATES	HIGH RADI-ATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING	
F019	2	B	NE	3/4	GL	M	O/C	B33	O/C	1078A	G-6	YES	YES	1-5	2, 5, 6, 15	NONE
F020	2	B	NE	3/4	GL	M	O/C	B33	O/C	1078A	G-7	NO	YES	1-5	2, 5, 6, 15	NONE
F125	2	A	NE	3/4	GL	M	O/C	B33	~~O/C~~ C	1078B	D-7	NO	YES	~~4,5~~ 1-5	2, 5, 6, 9, 15	NOTE ~~8 III 8~~ IV ~~COMMENT B33-1~~
F126	2	A	NE	3/4	GL	M	C	B33	~~O/C~~ C	1078B	D-7	NO	YES	~~4,5~~ 1-5	2, 5, 6, 9, 15	NOTE ~~8 III 8~~ IV ~~COMMENT B33-1~~
F127	2	A	NE	3/4	GL	M	C	B33	O/C	1078A	H-8	NO	~~NA~~ YES	1-5	2, 5, 6, 9, 15	NOTE IV
F128	2	A	NE	3/4	GL	M	C	B33	O/C	1078A	H-8	NO	~~NA~~ 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
F013A	2	C	NE	3/4	SC	H	O	B33	C	1078A	E-7	YES	YES	4,5	1, 5	COMMENT B33-1
F013B	2	C	NE	3/4	SC	H	O	B33	C	1078A	E-2	YES	YES	4,5	1, 5	COMMENT B33-1
F017A	2	C	NE	3/4	SC	H	O	B33	C	1078A	E-7	YES	YES	4,5	1, 5	COMMENT B33-1
F017B	2	C	NE	3/4	SC	H	O	B33	C	1078A	E-2	YES	YES	4,5	1, 5	COMMENT B33-1

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

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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VALVE SUMMARY LISTING

SYSTEM STANDBY LIQUID CONTROL C41

JOB 15026

REV. 3
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VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACT-UATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M-	P&ID COORD-INATES	HIGH RADI-ATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING	
F001A	2	B	NE	3	GL	M	C	C41	O	1082	E-4	NO	YES	1-5	2, 5, 6, 15	NOTE 1
F001B	2	B	NE	3	GL	M	C	C41	O	1082	D-4	NO	YES	1-5	2, 5, 6, 15	NOTE 1
F004A	1	D	NE	1½	X	EXP	C	C41	NA	1082	F-7	NO	YES	5	12	NOTE 2
F004B	1	D	NE	1½	X	EXP	C	C41	NA	1082	D-7	NO	YES	5	12	NOTE 2
F006	1	C	NE	1½	SC	H	C	C41	O/C	1082	E-7	YES	NO	5, 4	1, 5	RELIEF REQUEST C41-1
F007	1	C	NE	1½	C	NA	C	C41	O/C	1082	E-8	YES	YES	5, 4	1, 5	RELIEF REQUEST C41-1
F029A	2	C	NE	1½	RV	NA	C	C41	NA	1082	F-6	NO	YES	1-5	11	NONE
F029B	2	C	NE	1½	RV	NA	C	C41	NA	1082	D-6	NO	YES	1-5	11	NONE
F033A	2	C	NE	1½	C	NA	C	C41	O	1082	F-6	NO	YES	1-5	1, 5	~~NONE~~ RELIEF REQUEST C41-2
F033B	2	C	NE	1½	C	NA	C	C41	O	1082	D-6	NO	YES	1-5	1, 5	~~NONE~~ RELIEF REQUEST C41-2
F150	2	A(P)	NE	3	G	H	LC	C41	NA	1082	F-1	NO	NA	NA	NA	NOTES 3, ~~III &~~ IV
F151	2	C,A(P)	NE	2	SC	H (LO)	C	C41	NA	1082	F-2	NO	NA	NA	NA	NOTES 3, ~~III &~~ IV
F152	2	A(P)	NE	3/4	GL	H	LC	C41	NA	1082	F-1	NO	NA	NA	NA	NOTES 3 & IV

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

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VALVE SUMMARY LISTING

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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	
F036	2	C, A	NE	4	RV	NA	C	E12	NA	1085A	G-3	NO	YES	4,5	9, 10	NOTE IV
F037A	2	A	NE	12	GL	M	C	E12	~~O/C~~ C	1085B	H-3	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 9 & IV
F037B	2	A	NE	12	GL	M	C	E12	~~O/C~~ C	1085A	G-8	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 9 & IV
F040	2	B	NE	4	GL	M	C	E12	C	1085B	H-8	NO	YES	1-5	2, 5, 6, 15	NOTE 10
F041A	1	C,A	NE	14	C	A	C	E12	O/C	1085B	G-4	YES	YES	4, 5	~~2~~, 5, 9, 15, 1	NOTE VI COMMENT E12-3
F041B	1	C,A	NE	14	C	A	C	E12	O/C	1085A	G-7	YES	YES	4, 5	~~2~~, 5, 9, 15, 1	NOTE VI COMMENT E12-3
F041C	1	C,A	NE	12	C	A	C	E12	O/C	1085A	F-7	YES	YES	4, 5	~~2~~, 5, 9, 15, 1	NOTES IV & VI COMMENT E12-3
F042A	1	A	NE	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	A	NE	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	A	NE	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	A(P)	NE	4	G	H	LC	E12	NA	1085B	H-3	NO	~~NA~~ YES	NA	9	NOTE IV
F044B	2	A(P)	NE	4	G	H	LC	E12	NA	1085A	H-7	NO	~~NA~~ YES	NA	9	NOTE IV
F046A	2	C	NE	4	C	NA	O	E12	O	1085B	D-5	NO	YES	~~1-5~~ 5	1, 5	~~NONE~~ RELIEF REQUEST E12-1
F046B	2	C	NE	4	C	NA	O	E12	O	1085A	C-6	NO	YES	~~1-5~~ 5	1, 5	~~NONE~~ RELIEF REQUEST E12-1
F046C	2	C	NE	4	C	NA	O	E12	O	1085A	D-6	NO	YES	~~1-5~~ 5	1, 5	~~NONE~~ RELIEF REQUEST E12-1
F047A	2	B	NE	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.

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SYSTEM RESIDUAL HEAT REMOVAL SYSTEM E12

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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	
F047B	2	B	NE	18	G	M	O	E12	O/C	1085A	D-5	NO	YES	1-5	2, 5, 6, 15	NOTE 11
F048A	2	B	NE	18	GL	M	O	E12	O/C	1085B	F-6	NO	YES	1-5	2, 5, 6, 15	NONE
F048B	2	B	NE	18	GL	M	O	E12	O/C	1085A	D-3	NO	YES	1-5	2, 5, 6, 15	NONE
F049	2	B	NE	4	G	M	C	E12	C	1085B	G-8	NO	YES	1-5	2, 5, 6, 15	NOTE 12
F050A	2	C,A	NE	12	C	NA	C	E12	O/C	1085B	F-4	NO	YES	4, 5	1, 5, 9	NOTES 13, 15 & VI COMMENT E12-7
F050B	2	C,A	NE	12	C	NA	C	E12	O/C	1085A	F-6	NO	YES	4, 5	1, 5, 9	NOTES 13, 15 & VI COMMENT E12-7
F052A	2	B	NE	8	GL	M	C	E12	C	1085B	E-7	NO	YES	1-5	2, 5, 6, 15	NOTE 14
F052B	2	B	NE	8	GL	M	C	E12	C	1085A	D-2	NO	YES	1-5	2, 5, 6, 15	NOTE 14
F053A	2	A	NE	12	GL	M	C	E12	O/C	1085B	F-5	NO	YES	4, 5	2, 5, 6, 9, 15	NOTE VI COMMENT E12-5
F053B	2	A	NE	12	GL	M	C	E12	O/C	1085A	F-6	NO	YES	4, 5	2, 5, 6, 9, 15	NOTE VI COMMENT E12-5
F055A	2	C,A	NE	6	RV	NA	C	E12	NA	1085B	D-6	NO	YES	4, 5	9, 10	NOTE IV
F055B	2	C,A	NE	6	RV	NA	C	E12	NA	1085A	D-4	NO	YES	4, 5	9, 10	NOTE IV
F056C	2	A(P)	NE	3/4	GL	H	LC	E12	NA	1085A	F-6	NO	~~NA~~ YES	NA	9	NOTE IV
F061	2	A(P)	NE	3/4	GL	H	LC	E12	NA	1085A	H-3	NO	~~NA~~ YES	NA	9	NOTE IV
F064A	2	A	NE	4	G	M	O	E12	O/C	1085B	D-5	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F064B	2	A	NE	4	G	M	O	E12	O/C	1085A	B-6	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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VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACT-UATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M-	P&ID COORD-INATES	HIGH RADI-ATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING	
F064C	2	A	NE	4	G	M	O	E12	O/C	1085A	C-6	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F073A	2	A	NE	2	GL	M	C	E12	C	1085B	D-6	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F073B	2	A	NE	2	GL	M	C	E12	C	1085A	C-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F074A	2	B	NE	2	GL	M	C	E12	C	1085B	D-6	NO	YES	1-5	2, 5, 6, 15	NONE
F074B	2	B	NE	2	GL	M	C	E12	C	1085A	C-4	NO	YES	1-5	2, 5, 6, 15	NONE
F082A	2	B	NE	1½	GL	M	O	E12	O/C	1085B	D-4	NO	YES	1-5	2, 5, 6, 15	NONE
F082B	2	B	NE	1½	GL	M	O	E12	O/C	1085A	A-7	NO	YES	1-5	2, 5, 6, 15	NONE
F084A	2	C	NE	1½	SC	H	O	E12	O/C	1085B	C-5	NO	YES	1-5	~~2~~, 5, 1	NONE
F084B	2	C	NE	1½	SC	H	O	E12	O/C	1085A	A-6	NO	YES	1-5	~~2~~, 5, 1	NONE
F084C	2	C	NE	1½	SC	H	O	E12	O/C	1085A	C-5	NO	YES	1-5	~~2~~, 5, 1	NONE
F085A	2	C	NE	1½	SC	H	O	E12	O	1085B	C-5	NO	YES	1-5	~~2~~, 5, 1	NONE
F085B	2	C	NE	1½	SC	H	O	E12	O	1085A	A-6	NO	YES	1-5	~~2~~, 5, 1	NONE
F085C	2	C	NE	1½	SC	H	O	E12	O	1085A	C-5	NO	YES	1-5	~~2~~, 5, 1	NONE
~~F094~~	~~2~~	~~B~~	~~NE~~	~~18~~	~~G~~	~~M~~	~~C~~	~~E12~~	~~O/C~~	~~1061D~~	~~G-4~~	~~NO~~	~~YES~~	~~1-5~~	~~2, 5, 6, 15~~	~~NONE~~
~~F095~~	~~2~~	~~B~~	~~NE~~	~~3/4~~	~~GL~~	~~S~~	~~O~~	~~E12~~	~~C~~	~~1061D~~	~~G-5~~	~~NO~~	~~YES~~	~~1-5~~	~~2, 5~~	~~NONE~~
~~F096~~	~~2~~	~~3~~	~~NE~~	~~18~~	~~G~~	~~M~~	~~C~~	~~E12~~	~~O/C~~	~~1061D~~	~~G-5~~	~~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 RESIDUAL HEAT REMOVAL SYSTEM E12

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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	
~~F098~~	~~2~~	~~C~~	~~NE~~	~~10~~	~~C~~	~~NA~~	~~C~~	~~E12~~	~~C/O~~	~~1061D~~	~~G-5~~	~~NO~~	~~YES~~	~~1-5~~	~~1, 5~~	~~NOTE 16 RELIEF REQUEST E12-1~~
F103A	2	C,A	NE	1½	SC	H	O	E12	~~C/O~~ C	1085B	D-7	NO	YES	1-5	~~1~~, 5, 9, 1	NOTE IV RELIEF REQUEST E12-2
F103B	2	C,A	NE	1½	SC	H	O	E12	~~C/O~~ C	1085A	C-4	NO	YES	1-5	~~1~~, 5, 9, 1	NOTE IV RELIEF REQUEST E12-2
F104A	2	C,A	NE	1½	SC	H	O	E12	~~C/O~~ C	1085B	D-7	NO	YES	1-5	~~1~~, 5, 9, 1	NOTE IV RELIEF REQUEST E12-2
F104B	2	C,A	NE	1½	SC	H	O	E12	~~C/O~~ C	1085A	C-4	NO	YES	1-5	~~1~~, 5, 9, 1	NOTE IV RELIEF REQUEST E12-2
F107A	2	A(P)	NE	3/4	GL	H	LC	E12	NA	1085B	G-4	NO	~~NA~~ YES	NA	9	NOTE IV
F107B	2	A(P)	NE	3/4	GL	H	LC	E12	NA	1085A	H-6	NO	~~NA~~ YES	NA	9	NOTE IV
F203	3	B	NE	4	G	~~A~~ AFS	C	E12	C	1085B	G-6	NO	YES	~~NA~~ 1-5	~~NA~~ 2,5,6,8,15	~~NOTE V~~ NONE
F212	2	A(P)	NE	1	GL	H	LC	E12	NA	1085A	F-4	NO	~~NA~~ YES	NA	9	NOTE IV
F213	2	A(P)	NE	1	GL	H	LC	E12	NA	1085A	F-4	NO	~~NA~~ YES	NA	9	NOTE IV
F227	2	A(P)	NE	1	GL	H	LC	E12	NA	1085B	D-5	NO	~~NA~~ YES	NA	9	NOTE IV
F228	2	A(P)	NE	1	GL	H	LC	E12	NA	1085B	D-5	NO	~~NA~~ YES	NA	9	NOTE IV
F234	1	A(P)	NE	1	GL	H	LC	E12	NA	1085A	F-7	NO	~~NA~~ YES	NA	9	NOTE IV
F249	2	A(P)	NE	3/4	GL	H	LC	E12	NA	1085A	C-6	NO	~~NA~~ YES	NA	9	NOTE IV
F250	2	A(P)	NE	3/4	GL	H	LC	E12	NA	1085A	C-6	NO	~~NA~~ YES	NA	9	NOTE IV
F259	2	A(P)	NE	1	GL	H	LC	E12	NA	1085B	F-5	NO	~~NA~~ 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: RESIDUAL HEAT REMOVAL SYSTEM E12

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				
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	COMMENTS
F260	2	A(P)	NE	1	GL	H	LC	E12	NA	1085B	F-6	NO	~~NA~~ YES	NA	9	NOTE IV
F261	2	A(P)	NE	1	GL	H	LC	E12	NA	1085B	F-6	NO	~~NA~~ YES	NA	9	NOTE IV
F262	2	A (P)	NE	1	GL	H	LC	E12	NA	1085B	F-6	NO	~~NA~~ YES	NA	9	NOTE IV
F273	2	C	NE	1½	SC	H	O	E12	C/O	1085A	B-5	NO	YES	1-5	1, 5	~~NONE~~ RELIEF REQUEST E12-3
F274	2	C	NE	1½	SC	H	O	E12	C/O	1085B	D-5	NO	YES	1-5	1, 5	~~NONE~~ RELIEF REQUEST E12-3
F276	2	A (P)	NE	1	GL	H	LC	E12	NA	1085A	E-5	NO	~~NA~~ YES	NA	9	NOTE IV
F277	2	A (P)	NE	1	GL	H	LC	E12	NA	1085A	E-5	NO	~~NA~~ YES	NA	9	NOTE IV
F278	2	C	NE	1½	SC	H	O	E12	C/O	1085A	C-5	NO	YES	1-5	1, 5	~~NONE~~ RELIEF REQUEST E12-3
F280	2	A (P)	NE	1	GL	H	LC	E12	NA	1085A	E-6	NO	~~NA~~ YES	NA	9	NOTE IV
F281	2	A (P)	NE	1	GL	H	LC	E12	NA	1085A	E-5	NO	~~NA~~ YES	NA	9	NOTE IV
F290A	2	A	NE	1½	GL	M	O	E12	C/O	1085B	C-5	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F290B	2	A	NE	1½	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	½	GL	H	LC	E12	NA	1085B	F-5	NO	~~NA~~ YES	NA	9	NOTE IV
F304	2	A (P)	NE	½	GL	H	LC	E12	NA	1085A	E-6	NO	~~NA~~ YES	NA	9	NOTE IV
F305	2	A (P)	NE	½	GL	H	LC	E12	NA	1085A	F-5	NO	~~NA~~ YES	NA	9	NOTE IV
F308	2	A,C	NE	3/4	SC	H	C	E12	C	1085B	F-3	~~NO~~ YES	YES	~~1-5~~ 4,5	2, 5, 9	NOTES ~~III,~~ IV & VI COMMENT E12-8

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

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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.

These valves are prohibited from opening at reactor pressures above about

EXPLANATION: ~~Failure of this isolation valve in the open position would jeopardize the containment boundary~~.

135 psig by pressure interlocks. Testing during power operation is precluded.

ALTERNATE TESTING: Exercise during cold shutdown ~~or~~ and refueling.

E12-2.
VALVE: F023 (M-1085A, H-4)
CATEGORY: A
CLASS: 1
TYPE: Motor operated globe

FUNCTION: Containment isolation; open for injection to RPV head spray.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Failure of valve in open position would ~~jeopardize containment boundary~~ result in single valve seperation of the high pressure reactor recirculation system and the low pressure RHR system,

ALTERNATE TESTING: Exercise during cold shutdown ~~or~~ 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

Also, system interlocks will not opening of this valve above 135 psig reactor pressure.

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.

ALTERNATE TESTING: Exercise during cold shutdown ~~or~~ and refueling.

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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 closes 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.

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VALVE SUMMARY LISTING

SYSTEM LOW PRESSURE CORE SPRAY E21 JOB 15026 REV. 3 SHEET 1 OF 3

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACT-UATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M-	P&ID COORD-INATES	HIGH RADI-ATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING	
F001	2	A	NE	24	G	M	O	E21	O/C	1087	D-6	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 1 & IV
F003	2	C	NE	16	C	NA	C	E21	O/C	1087	E-2	NO	YES	1-5	1, 5	NONE
F005	1	A	NE	14	G	M	C	E21	O	1087	F-5	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV ~~IV~~ VI
F006	1	A,C	NE	14	C	A	C	E21	O/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	O	E21	O/C	1087	E-3	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F012	2	A	NE	14	GL	M	O	E21	O/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	~~NA~~ YES	NA	9	NOTE IV
F018	2	A,C	NE	1½	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	O	E21	O/C	1087	F-2	NO	YES	1-5	1, 5	NONE
F200	2	A(P)	NE	3/4	GL	H	LC	E21	NA	1087	G-6	YES	~~NA~~ YES	NA	9	NOTE IV
F207	1	A(P)	NE	1	GL	H	LC	E21	NA	1087	F-6	YES	~~NA~~ YES	NA	9	NOTE IV
F217	2	A(P)	NE	3/4	GL	H	LC	E21	NA	1087	E-6	NO	~~NA~~ YES	NA	9	NOTE IV
F218	2	A(P)	NE	3/4	GL	H	LC	E21	NA	1087	E-6	NO	~~NA~~ YES	NA	9	NOTE IV
F221	2	A(P)	NE	½	GL	H	LC	E21	NA	1087	E-6	NO	~~NA~~ YES	NA	9	NOTE IV
F222	2	A(P)	NE	½	GL	H	LC	E21	NA	1087	E-6	NO	~~NA~~ 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 HIGH PRESSURE CORE SPRAY E22

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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	
F001	2	B	NE	18	G	M	O	E22	~~O/C~~ C	1086	E-7	NO	YES	1-5	2, 5, 6, 15	NOTE 1
F002	2	C	NE	18	C	NA	O	E22	~~O~~ 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	~~AFS~~ 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	SC	H	O	E22	O/C	1086	C-6	NO	YES	1-5	1, 5	NONE
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	~~NA~~ 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	SC	H	C	E22	C	1086	F-4	NO	YES	~~4, 5~~ 1-5	1, 5	~~COMMENT E22-2~~ NONE

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

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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 ~~or~~ and refueling.

E22-2. VALVE: F039 (M-1086, G-4)
CATEGORY: C
CLASS: 2
TYPE: Stop check

FUNCTION: Open for thermal relief for piping between two closed valves.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Verification of check valve opening would interrupt the operational readiness of the normally filled injection lines to the reactor vessel. This would put the plant in an unsafe condition.

ALTERNATE TESTING: Exercise during cold shutdown ~~or~~ and refueling.

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GRAND GULF NUCLEAR STATION
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VALVE SUMMARY LISTING

SYSTEM FEEDWATER LEAKAGE CONTROL E38

JOB 15026

REV. 3
SHEET 1 OF 2

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACT-UATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO M-	P&ID COORD-INATES	HIGH RADI-ATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING	
F001A	2	B	NE	1½	GL	M	C	E38	O/C	1112	B-4	NO	YES	4, 5	2, 5, 6, 15, 9	COMMENT E38-1
F001B	2	B	NE	1½	GL	M	C	E38	O/C	1112	F-4	NO	YES	4, 5	2, 5, 6, 15, 9	COMMENT E38-1
F002A	1	C	NE	1½	SC	H (LO)	C	E38	O/C	1112	F-6	NO	YES	5, 4	1, 5	~~RELIEF REQUEST E38-1~~ COMMENT E38-2
F002B	1	C	NE	1½	SC	H (LO)	C	E38	O/C	1112	E-6	NO	YES	5, 4	1, 5	~~RELIEF REQUEST E38-1~~ COMMENT E38-2
F003A	2	C	NE	1½	SC	H (LO)	C	E38	O/C	1112	C-6	NO	YES	5, 4	1, 5	~~RELIEF REQUEST E38-1~~ COMMENT E38-2
F003B	2	C	NE	1½	SC	H (LO)	C	E38	O/C	1112	B-6	NO	YES	5, 4	1, 5	~~RELIEF REQUEST E38-1~~ COMMENT E38-2

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

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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

BASIS FOR RELIEF: 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%.

ALTERNATE TESTING: Exercise during cold shutdown and refueling.

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VALVE SUMMARY LISTING

SYSTEM REACTOR CORE ISOLATION COOLING E51

JOB 15026

REV. 3
SHEET 1 OF 5

VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACT-UATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M-	P&ID COORD-INATES	HIGH RADI-ATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING	
F004	2	B	NE	1	GL	AFS	C	E51	C	1083B	B-6	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F005	2	B	NE	1	GL	AFS	O	E51	C	1083B	B-7	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F010	2	B	NE	6	G	M	O	E51	~~O/C~~ C	1083A	D-4	NO	YES	1-5	2, 5, 6, 15	NONE
F011	2	C	NE	6	C	NA	O	E51	~~O/C~~ C	1083A	D-3	NO	YES	1-5	1, 5	NONE
F013	2	A	NE	6	G	M	C	E51	O/C	1083A	F-5	NO	YES	1-5	2, 5, 6, 9, 15	NOTE VI
F017	2	C	NE	3/4	RV	NA	C	E51	NA	1083A	E-2	NO	YES	4, 5	10	NONE
F018	2	C	NE	1½	RV	NA	C	E51	NA	1083B	F-4	NO	YES	4, 5	10	NONE
F019	2	A	NE	2	GL	M	C	E51	O/C	1083A	E-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 1 & IV
F021	2	C	NE	2	SC	H	C	E51	O	1083A	E-4	NO	YES	1, 2, 3	1, 5	~~NONE~~ RELIEF REQUEST E51-4 RELIEF REQUEST E51-3
F022	2	B	NE	4	GL	M	C	E51	C	1083A	F-5	NO	YES	1-5	2, 5, 6, 15	NONE
F025	2	B	NE	1½	GL	AFS	O	E51	C	1083B	E-3	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F026	2	B	NE	1½	GL	AFS	O	E51	C	1083B	D-3	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F030	2	C	NE	6	C	NA	C	E51	O/C	1083A	B-5	NO	YES	~~1-5~~ 5	1, 5	NOTE 2 RELIEF REQUEST E51-1
F031	2	A	NE	6	G	M	C	E51	O/C	1083A	B-6	NO	YES	1-5	2, 5, 6, 9, 15	NOTES 3 & IV
F040	2	C	NE	20	C	NA	O	E51	O	1083A	C-4	NO	YES	1, 2, 3	1, 5	~~NONE~~ RELIEF REQUEST E51-3
F045	2	B	NE	6	GL	M	C	E51	O/C	1083B	E-4	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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VALVE SUMMARY LISTING

SYSTEM REACTOR CORE ISOLATION COOLING E51

JOB 15026

REV. 4
SHEET 2 OF 5

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	
F046	2	B	NE	2	GL	M	C	E51	O	1083B	F-6	NO	YES	1-5	2, 5, 6, 15	NONE
~~F047~~	~~2~~	~~C~~	~~NE~~	~~2~~	~~SC~~	~~M~~	~~C~~	~~E51~~	~~O~~	~~1083B~~	~~C-6~~	~~NO~~	~~YES~~	~~1-5~~	~~1, 5~~	~~NONE~~
F059	2	B	NE	4	GL	M	C	E51	C	1083A	D-5	NO	YES	1-5	2, 5, 6, 15	NONE
F063	1	A	NE	10	G	M	O	E51	C/O	1083B	G-5	YES	YES	~~1-5~~ 4,5	2, 5, 6, 9, 15	NOTES ~~III &~~ IV ◄ VI COMMENT E51-3
F064	1	A	NE	10	G	M	O	E51	C/O	1083B	G-3	NO	YES	1-5	2, 5, 6, 9, 15	NOTES ~~III &~~ IV ◄ VI
F065	2	A,C	NE	6	C	NA	C	E51	O/C	1083A	F-6	NO	YES	1, 2, 3	1, 5, 9	NOTE VI RELIEF REQUEST E51-2 ~~COMMENT E51-1~~
F066	1	A,C	NE	6	C	A	C	E51	~~O/C~~ C	1085A	H-2	YES	YES	4, 5	2, 5, 6, 9, 15	NOTES ~~III &~~ IV ◄ VI COMMENT E51-2 (4)
F068	2	A	NE	20	G	M	O	E51	C	1083A	C-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTE IV
F072	2	A(P)	NE	3/4	GL	H	LC	E51	NA	1083B	G-4	NO	~~NA~~ YES	NA	9	NOTE IV
F076	1	A	NE	1	GL	M	C	E51	C	1083B	G-5	YES	YES	~~1-5~~ 4,5	2, 5, 6, 9, 15	NOTES IV ◄ VI COMMENT E51-4
F077	2	A	NE	2½	G	M	O	E51	O/C	1083A	C-5	NO	YES	1, 2, 3	2, 5, 6, 9, 15	NOTES 4 & IV
F078	2	A	NE	1½	GL	M	O	E51	O/C	1083A	C-6	NO	YES	1, 2, 3	2, 5, 6, 9, 15	NOTES ~~III &~~ IV
F079	2	C	NE	2½	C	NA	O	E51	C/O	1083A	C-5	NO	YES	~~4, 5~~ 1-5	1, 5	NONE
F081	2	C	NE	2½	C	NA	O	E51	C/O	1083A	C-6	NO	YES	~~4, 5~~ 1-5	1, 5	NONE
F204	2	C	NE	6	C	NA	C	E51	~~O/C~~ O	1083A	F-3	NO	YES	1, 2, 3	1, 5	~~NONE~~ RELIEF REQUEST E51-3
F251	2	A(P)	NE	1	GL	H	LC	E51	NA	1083A	E-6	NO	~~NA~~ 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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E51. REACTOR CORE ISOLATION COOLING SYSTEM (M-1083A, B)

E51-1. VALVE: F065 (M-1083A, F-7)
CATEGORY: C
CLASS: 2
TYPE: Check

Deleted

FUNCTION: Prevent reverse feedwater flow; open for RCIC injection.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Valve F013 would have to be open to pass flow to test the check valve opening. However, this line ties directly to RHR, RWCU, and FW. Interruption of these lines to verify flow through the check would put the plant in an unsafe condition.

ALTERNATE TESTING: Exercise during cold shutdown ~~or~~ and refueling.

E51-2. VALVE: F066 (M-1085A, H-2)
CATEGORY: A, C
CLASS: 1
TYPE: Check

FUNCTION: Close to reactor pressure; ~~open for RPV head spray 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 ~~or~~ and refueling.

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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	
F001A	3	B	NE	24	B	M	~~C~~ O	P41	O	1061A	H-3	NO	YES	1-5	2, 5, 6, 15	NONE
F001B	3	B	NE	24	B	M	~~C~~ O	P41	O	1061A	C-4	NO	YES	1-5	2, 5, 6, 15	NONE
F005A	3	B	NE	24	B	M	~~C~~ O	P41	O	1061A	G-8	NO	YES	1-5	2, 5, 6, 15	NONE
F005B	3	B	NE	24	B	M	~~C~~ 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/C~~ O	1061A	F-5	NO	YES	1-5	1, 5	NOTES ~~1 &~~ 3
F008B	3	C	NE	24	C	NA	C	P41	~~O/C~~ O	1061A	B-5	NO	YES	1-5	1, 5	NOTES ~~1 &~~ 3
FC11	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	~~C~~ O	P41	O	1061C	C-6	NO	YES	1-5	2, 5, 6, 15	NONE
F014B	3	B	NE	18	B	M	~~C~~ O	P41	O	1061D	F-4	NO	YES	1-5	2, 5, 6, 15	NONE
F016A	3	B	NE	4	G	M	C	P41	C	1061A	G-3	NO	YES	1-5	2, 5, 6, 15	NONE
F016B	3	B	NE	4	G	M	C	P41	C	1061A	C-4	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

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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	
F125	3	B	NE	6	G	M	O	SP41	~~C/O~~ C	1061C	F-1	NO	YES	1-5	2, 5, 6, 15	NONE
F154	3	B	NE	3	G	M	C	P41	C	1061D	H-2	NO	YES	1-5	2, 5, 6, 15	NOTE 4
F155B	3	B	NE	3	G	M	C	P41	C	1061D	G-2	NO	YES	1-5	2, 5, 6, 15	NOTE 4
F159A	2	A	NE	2	GL	M	C	P41	C/O	1061B	F-4	NO	YES	1-5	2, 5, 6, 9, 15	NOTES ~~III &~~ IV
F159B	2	A	NE	2	GL	M	C	P41	C/O	1061D	D-2	NO	YES	1-5	2, 5, 6, 9, 15	NOTES ~~III &~~ IV
F160A	2	A	NE	2	GL	M	C	P41	C/O	1061B	E-3	NO	YES	1-5	2, 5, 6, 9, 15	NOTES ~~III &~~ IV
F160B	2	A	NE	2	GL	M	C	P41	C/O	1061D	D-3	NO	YES	1-5	2, 5, 6, 9, 15	NOTES ~~III &~~ IV
F163A	2	A(P)	NE	3/4	GL	H	LC	P41	NA	1061B	E-4	NO	~~NA~~ YES	NA	9	NOTE IV
F163B	2	A(P)	NE	3/4	GL	H	LC	P41	NA	1061D	D-2	NO	~~NA~~ YES	NA	9	NOTE IV
F168A	2	A	NE	2	GL	M	C	P41	C/O	1061B	E-4	NO	YES	~~4, 5~~ 1-5	2, 5, 6, 9, 15	NOTES ~~III &~~ IV ~~COMMENT P41-2~~
F168B	2	A	NE	2	GL	M	C	P41	C/O	1061D	E-3	NO	YES	~~4, 5~~ 1-5	2, 5, 6, 9, 15	NOTES ~~III &~~ IV ~~COMMENT P41-2~~
F169A	2	A, C	NE	2	SC	H	O	P41	C/O	1061B	F-4	NO	YES	~~4, 5~~ 1-5	5, 9, ~~16~~, 1	NOTES ~~III &~~ IV ~~COMMENT P41-3~~
F169B	2	A, C	NE	2	SC	H	O	P41	C/O	1061D	E-2	NO	YES	~~4, 5~~ 1-5	5, 9, ~~16~~, 1	NOTES ~~III &~~ IV ~~COMMENT P41-3~~
F189	3	B	NE	6	G	M	O	P41	~~C/O~~ C	1061D	C-8	NO	YES	1-5	2, 5, 6, 15	NONE
F237	3	B	NE	3	G	M	C	P41	~~O/C~~ O	1061C	E-5	NO	YES	1-5	2, 5, 6, 15	NONE

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

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VALVE SUMMARY LISTING

SYSTEM STANDBY SERVICE WATER P41

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VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACT-UATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M-	P&ID COORD-INATES	HIGH RADI-ATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING	
F238	3	B	NE	3	G	M	C	P41	~~O/C~~ O	1061C	H-3	NO	YES	1-5	2, 5, 6, 15	NONE
F239	3	B	NE	3	G	AFS	O	P41	~~C/O~~ C	1061C	F-3	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F240	3	B	NE	3	G	AFS	O	P41	~~C/O~~ C	1061C	H-3	NO	YES	1-5	2, 5, 6, 8, 15	NONE
F241	3	B	NE	3	G	M	O	P41	~~C/O~~ C	1061C	H-3	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
F155A	3	B	NE	3	G	M	C	P41	C	1061D	G-2	NO	YES	1-5	2,5,6,15	NOTE 4
F174	3	B	NE	3	G	M	C	P41	C	1061D	G-2	NO	YES	5	2,5,6,15	RELIEF REQUEST P41-1
F236	3	C	NE	3	C	NA	C	P41	C	1061C	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.

P41. STANDBY SERVICE WATER SYSTEM (M-1061A, B, C, D)

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 ~~open~~ closed position ~~could~~ would jeopardize tank availability.

ALTERNATE TESTING: Exercise during cold shutdown ~~or~~ and refueling.

P41-2. ~~VALVE:~~ F168A (M-1061B, E-4)
F168B (M-1061D, D-4) Deleted
CATEGORY: A
CLASS: 2
TYPE: Motor operated globe

FUNCTION: Containment isolation valve and open for return flow from drywell purge compressors.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Valve failure in open position during exercising could violate containment boundary since outboard valve is open.

ALTERNATE TESTING: Exercise during cold shutdown or refueling.

P41-3. VALVE: F169A (M-1061B, E-4)
F169B (M-1061D, D-2) Deleted
CATEGORY: A, C
CLASS: 2
TYPE: Stop check

FUNCTION: Containment isolation on reverse flow and open on flow to drywell purge compressor coolers, post LOCA.

TEST REQUIREMENTS: Exercise every 3 months.

EXPLANATION: Valve failure in open position during exercising could violate containment boundary since outboard valve is normally open.

ALTERNATE TESTING: Exercise during cold shutdown ~~or~~ and refueling.

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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. This could result in a reactor scram.

ALTERNATE TESTING: Exercise during cold shutdown ~~or~~ 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.

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SYSTEM PLANT SERVICE WATER P44 JOB 15026 REV. 3 SHEET 1 OF 6

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	
F042	3	B	NE	8	B	M	C	P44	~~O/C~~ 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	NOTES ~~I~~, ~~III~~, & 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	NOTES ~~III~~ & IV COMMENT P44-3
F054	3	B	NE	8	B	M	C	P44	~~O/C~~ C	1072B	G-4	NO	YES	1-5	2, 5, 6, 15	NONE
F067	3	B	NE	8	B	M	C	P44	~~O/C~~ 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	NOTES ~~III~~ & 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	NOTES ~~III~~ & 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	~~NA~~ 4,5	~~NA~~ 2,5,6,8,15	~~NOTE V~~ COMMENT P44-9
F117	3	B	NE	24	B	AFS	O	P44	C	1072A	B-6	NO	YES	~~NA~~ 4,5	~~NA~~ 2,5,6,8,15	~~NOTE V~~ COMMENT P44-9
F118	3	B	NE	24	B	AFS	O	P44	C	1072A	B-8	NO	YES	~~NA~~ 4,5	~~NA~~ 2,5,6,8,15	~~NOTE V~~ COMMENT P44-9
F119	3	B	NE	24	B	AFS	O	P44	C	1072A	A-8	NO	YES	~~NA~~ 4,5	~~NA~~ 2,5,6,8,15	~~NOTE V~~ COMMENT P44-9

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

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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 plant service. Failure of this valve to reopen would result in isolation/loss of the normal cooling function of the system.

ALTERNATE TESTING: Exercise during cold shutdown ~~or~~ 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, containment chillers, loss of makeup to the cooling tower circulating water, etc.

ALTERNATE TESTING: Exercise during cold shutdown ~~or~~ 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.

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1. ~~The operability of Valve F043 is verified during the operation of the Plant Service Water System.~~

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SYSTEM INSTRUMENT AIR P53

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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	
F001	2	A	NE	2½	G	AFS	O	P53	C	1067A	B-5	NO	YES	4, 5	2, 5, 6, 8, 9, 15	NOTES ~~III &~~ IV COMMENT P53-1
F002	2	A, C	NE	2½	C	NA	O	P53	C	1067A	B-5	NO	YES	4, 5	5, 9	NOTES ~~III &~~ IV COMMENT P53-2
F003	2	A	NE	1	GL	M	O	P53	~~O/C~~ C	1067A	A-5	NO	YES	4, 5	2, 5, 6, 9, 15	NOTES ~~III &~~ IV COMMENT P53-3
F006	2	A, C	NE	3/4	C	NA	O	P53	O/C	1067A	A-4	YES	YES	4, 5	1, 5, 9	NOTES ~~III &~~ IV COMMENT P53-4
F007	2	B	NE	2	GL	M	O	P53	O/C	1067A	B-4	NO	YES	4, 5	2, 5, 6, 15	COMMENT P53-5
F008	2	C	NE	2	SC	H (LO)	O	P53	C/O	1067A	B-4	YES	YES	4, 5	1, 5	COMMENT P53-6
F026A	3	B	NE	2½	G	AFS	O	P53	~~O/C~~ C	1067A	C-6	NO	YES	~~NA~~ 4, 5	~~NA~~ 2, 5, 6, 8, 15	~~NOTE V~~ COMMENT P53-7
F026B	3	B	NE	2½	G	AFS	O	P53	~~O/C~~ C	1067E	G-8	NO	YES	~~NA~~ 4, 5	~~NA~~ 2, 5, 6, 8, 15	~~NOTE V~~ COMMENT P53-7
F036	2	A(P)	NE	3/4	GL	H	LC	P53	NA	1067A	B-5	NO	~~NA~~ YES	NA	9	NOTE IV
F043	2	A(P)	NE	3/4	GL	H	LC	P53	NA	1067A	A-5	NO	~~NA~~ YES	NA	9	NOTE IV
F012	3	C	NE	3/4	SC	H (LO)	O	P53	O	1067	A-3	YES	YES	4, 5	1, 5	COMMENT P53-6

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

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P53-4. VALVE: F006 (M-1067A, A-4)
CATEGORY: A, C
CLASS: 2
TYPE: ~~Stop~~ 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: ~~Same as F001.~~ 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: ~~Same as F001.~~ 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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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 ~~or~~ and refueling.

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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	
F003A	3	C	NE	2	SC	H (LO)	O	P75	O/C	1070A	H-7	NO	YES	~~NA~~ 1-5	~~NA~~ 1, 5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F003B	3	C	NE	2	SC	H (LO)	O	P75	O/C	1070B	H-7	NO	YES	~~NA~~ 1-5	~~NA~~ 1, 5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F006A	3	C	NE	2	SC	H (LO)	O	P75	O	1070A	G-6	NO	YES	~~NA~~ 1-5	~~NA~~ 1, 5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F006B	3	C	NE	2	SC	H (LO)	C	P75	O	1070B	G-6	NO	YES	~~NA~~ 1-5	~~NA~~ 1, 5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F007A	3	C	NE	8	C	NA	C	P75	O	1070A	B-4	NO	YES	~~NA~~ 1-5	~~NA~~ 1, 5	~~NOTE 1~~ RELIEF REQUEST P75-~~1~~ 5
F007B	3	C	NE	8	C	NA	C	P75	O	1070B	B-4	NO	YES	~~NA~~ 1-5	~~NA~~ 1, 5	~~NOTE 1~~ RELIEF REQUEST P75-~~1~~ 5
F009A	3	C	NE	3	C	NA	O/C	P75	C	1070A	F-6	NO	YES	1-5	1, 5	NONE
F009B	3	C	NE	3	C	NA	O/C	P75	C	1070A	A-8	NO	YES	1-5	1, 5	NONE
F009C	3	C	NE	3	C	NA	O/C	P75	C	1070B	F-6	NO	YES	1-5	1, 5	NONE
F009D	3	C	NE	3	C	NA	O/C	P75	C	1070B	A-8	NO	YES	1-5	1, 5	NONE
F011A	3	C	NE	3	C	NA	O	P75	~~O/C~~ O	1070A	E-6	NO	YES	~~NA~~ 1-5	~~NA~~ 1, 5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F011B	3	C	NE	3	C	NA	O	P75	~~O/C~~ O	1070A	B-8	NO	YES	~~NA~~ 1-5	~~NA~~ 1, 5	~~NOTE 1~~ NONE RELIEF REQUEST P75-1
F011C	3	C	NE	3	C	NA	C	P75	O	1070B	E-6	NO	YES	~~NA~~ 1-5	~~NA~~ 1, 5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F011D	3	C	NE	3	C	NA	C	P75	O	1070B	B-8	NO	YES	~~NA~~ 1-5	~~NA~~ 1, 5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F025A	3	C	NE	1½	RV	NA	C	P75	NA	1070A	E-6	NO	YES	~~1-5~~ 4, 5	10	NONE
F025B	3	C	NE	1½	RV	NA	C	P75	NA	1070A	A-8	NO	YES	~~1-5~~ 4, 5	10	NONE

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				
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACT-UATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M-	P&ID COORD-INATES	HIGH RADI-ATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING	COMMENTS
F025C	3	C	NE	1½	RV	NA	C	P75	NA	1070B	E-5	NO	YES	~~1-5~~ 4,5	10	NONE
F025D	3	C	NE	1½	RV	NA	C	P75	NA	1070B	A-8	NO	YES	~~1-5~~ 4,5	10	NONE
F026A	3	C	NE	1½	RV	NA	C	P75	NA	1070A	H-7	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F026B	3	C	NE	1½	RV	NA	C	P75	NA	1070B	H-7	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F028A	3	C	NE	1½	RV	NA	C	P75	NA	1070A	G-3	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75~~-1
F028B	3	C	NE	1½	RV	NA	C	P75	NA	1070B	G-3	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75~~-1
F031A	3	C	NE	4	RV	NA	C	P75	~~0~~ NA	1070A	F-3	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75~~-1
F031B	3	C	NE	4	RV	NA	C	P75	~~0~~ NA	1070B	F-3	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75~~-1
F034A	3	C	NE	8	C	NA	C	P75	~~0~~ C	1070A	C-4	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-X5
F034B	3	C	NE	8	C	NA	C	P75	~~0~~ C	1070B	C-4	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-X5
F038A	3	C	NE	1½	C	NA	0	P75	C	1070A	C-3	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-X5
F038B	3	C	NE	1½	C	NA	0	P75	C	1070B	C-3	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-X5
F045A	3	C	NE	5	C	NA	0	P75	C	1070A	D-4	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-X3
F045B	3	C	NE	5	C	NA	0	P75	C	1070B	D-4	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-X3
F048A	3	C	NE	¼	*	NA	C	P75	~~0~~ NA	1070A	E-4	NO	YES	~~NA~~ 4,5	~~NA~~ 10	*AUTOMATIC VENT VALVE, ~~NOTE 1~~ ~~RELIEF REQUEST P75-1~~
F048B	3	C	NE	¼	*	NA	C	P75	~~0~~ NA	1070B	E-4	NO	YES	~~NA~~ 4,5	~~NA~~ 10	*AUTOMATIC VENT VALVE, ~~NOTE 1~~ ~~RELIEF REQUEST P75-1~~

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	
F050A	3	C	NE	6	C	NA	C	P75	O/C	1070A	F-3	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-~~1~~ 3
F050B	3	C	NE	6	C	NA	C	P75	O/C	1070B	F-3	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-~~1~~ 3
F052A	3	C	NE	¼	*	NA	C	P75	~~O~~ NA	1070A	F-4	NO	YES	~~NA~~ 4,5	~~NA~~ 10	*AUTOMATIC VENT VALVE, ~~NOTE 1~~ ~~RELIEF REQUEST P75-1~~
F052A	3	C	NE	¼	*	NA	C	P75	~~O~~ NA	1070B	F-4	NO	YES	~~NA~~ 4,5	~~NA~~ 10	*AUTOMATIC VENT VALVE, ~~NOTE 1~~ ~~RELIEF REQUEST P75-1~~
~~F053A~~	~~3~~	~~C~~	~~NE~~	~~2~~	~~C~~	~~NA~~	~~C~~	~~P75~~	~~O~~	~~1070A~~	~~G-4~~	~~NO~~	~~YES~~	~~NA~~	~~NA~~	~~NOTE 1~~ RELIEF REQUEST P75-1
~~F053B~~	~~3~~	~~C~~	~~NE~~	~~2~~	~~C~~	~~NA~~	~~C~~	~~P75~~	~~O~~	~~1070B~~	~~G-4~~	~~NO~~	~~YES~~	~~NA~~	~~NA~~	~~NOTE 1~~ RELIEF REQUEST P75-1
F059A	3	C	NE	6	C	NA	C	P75	~~O/C~~ O	1070A	E-5	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	NOTE 1 RELIEF REQUEST P75-1
F059B	3	C	NE	6	C	NA	C	P75	~~O/C~~ O	1070B	E-5	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	NOTE 1 RELIEF REQUEST P75-1
F066A	3	C	NE	2	RV	NA	C	P75	~~O~~ NA	1070A	F-4	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F067A	3	C	NE	1½	RV	NA	C	P75	~~O~~ NA	1070A	F-4	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F066B	3	C	NE	2	RV	NA	C	P75	~~O~~ NA	1070B	F-4	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F067B	3	C	NE	1½	RV	NA	C	P75	~~O~~ NA	1070B	F-4	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F077A	3	C	NE	1	C	NA	C	P75	~~O/C~~ O	107[illegible]	G-6	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-~~1~~ 2
F077B	3	C	NE	1	C	NA	C	P75	~~O/C~~ O	1070D	G-5	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-~~1~~ 2
F078A	3	C	NE	1	C	NA	C	P75	~~O/C~~ C	1070C	G-5	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-~~1~~ 2
F078B	3	C	NE	1	C	NA	C	P75	~~O/C~~ C	1070D	H-6	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-~~1~~ 2

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				
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACT-UATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P&ID NO. M-	P&ID COORD-INATES	HIGH RADI-ATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING	COMMENTS
F079A	3	C	NE	3	C	NA	O	P75	O/C	1070C	D-6	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F079B	3	C	NE	3	C	NA	O	P75	C/O	1070C	D-6	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F079C	3	C	NE	3	C	NA	O	P75	C/O	1070C	D-6	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F079D	3	C	NE	3	C	NA	O	P75	C/O	1070C	D-5	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F079E	3	C	NE	3	C	NA	O	P75	C/O	1070D	D-6	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F079F	3	C	NE	3	C	NA	O	P75	C/O	1070D	D-6	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F079G	3	C	NE	3	C	NA	O	P75	C/O	1070D	D-6	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F079H	3	C	NE	3	C	NA	O	P75	C/O	1070D	D-5	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F080A	3	C	NE	6	C	NA	C	P75	O	1070C	E-4	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-X 4
F080B	3	C	NE	6	C	NA	C	P75	O	1070D	E-4	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-X 4
F094A	3	C	NE	1½	C	NA	C	P75	~~O~~ C	1070A	F-5	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-X 4
F094B	3	C	NE	1½	C	NA	C	P75	~~O~~ C	1070B	F-5	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-X 4
F095A	3	C	NE	6	C	NA	C	P75	O	1070C	D-5	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-X 4
F095B	3	C	NE	6	C	NA	C	P75	O	1070D	D-5	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-X 4
F096A	3	C	NE	2	C	NA	C	P75	~~C/C~~ O	1070C	E-4	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-X 4
F096B	3	C	NE	2	C	NA	C	P75	~~O/C~~ O	1070D	E-4	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-X 4

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	
F097A	3	C	NE	2	C	NA	C	P75	~~O/C~~ O	1070C	D-5	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-~~1~~ 4
F097B	3	C	NE	2	C	NA	C	P75	~~O/C~~ O	1070D	D-4	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P75-~~1~~ 4
F098A	3	C	NE	3	RV	NA	C	P75	~~O~~ NA	1070C	G-6	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F098B	3	C	NE	3	RV	NA	C	P75	~~O~~ NA	1070D	G-6	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P75-1~~
F507A	3	B	NE	3	GT	S	C	P75	0	1070C	D-6	NO	YES	~~NA~~ 1-5	~~NA~~ 2,5,6	~~NOTE 1~~ RELIEF REQUEST P75-1
F507B	3	B	NE	3	GT	S	C	P75	0	1070C	D-6	NO	YES	~~NA~~ 1-5	~~NA~~ 2,5,6	~~NOTE 1~~ RELIEF REQUEST P75-1
F507C	3	B	NE	3	GT	S	C	P75	0	1070D	D-6	NO	YES	~~NA~~ 1-5	~~NA~~ 2,5,6	~~NOTE 1~~ RELIEF REQUEST P75-1
F507D	3	B	NE	3	GT	S	C	P75	0	1070D	D-6	NO	YES	~~NA~~ 1-5	~~NA~~ 2,5,6	~~NOTE 1~~ RELIEF REQUEST P75-1
F508A	3	B	NE	3	GT	S	C	P75	0	1070C	C-5	NO	YES	~~NA~~ 1-5	~~NA~~ 2,5,6	~~NOTE 1~~ RELIEF REQUEST P75-1
F508B	3	B	NE	3	GT	S	C	P75	0	1070C	D-6	NO	YES	~~NA~~ 1-5	~~NA~~ 2,5,6	~~NOTE 1~~ RELIEF REQUEST P75-1
F508C	3	B	NE	3	GT	S	C	P75	0	1070D	C-5	NO	YES	~~NA~~ 1-5	~~NA~~ 2,5,6	~~NOTE 1~~ RELIEF REQUEST P75-1
F508D	3	B	NE	3	GT	S	C	P75	0	1070D	D-6	NO	YES	~~NA~~ 1-5	~~NA~~ 2,5,6	~~NOTE 1~~ RELIEF REQUEST P75-1

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
INSERVICE INSPECTION PROGRAM
SECTION XI OF ASME CODE
VALVE SUMMARY LISTING

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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)	O	P81	C/O	1093A	B-4	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F030A	3	C	NE	1	C	NA	C	P81	~~O~~ C	1093B	C-4	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F030B	3	C	NE	3/4	C	NA	C	P81	~~O~~ C	1093C	D-6	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F031A	3	C	NE	1	C	NA	C	P81	O	1093B	C-4	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F031B	3	C	NE	3/4	C	NA	C	P81	O	1093C	C-5	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
~~F034A~~	~~3~~	~~C~~	~~NE~~	~~3/4~~	~~C~~	~~NA~~	~~C~~	~~P81~~	~~O~~	~~1093B~~	~~C-4~~	~~NO~~	~~YES~~	~~NA~~	~~NA~~	~~NOTE 1~~ RELIEF REQUEST P81-1
~~F034B~~	~~3~~	~~C~~	~~NE~~	~~3/4~~	~~C~~	~~NA~~	~~C~~	~~P81~~	~~O~~	~~1093C~~	~~C-6~~	~~NO~~	~~YES~~	~~NA~~	~~NA~~	~~NOTE 1~~ RELIEF REQUEST P81-1
~~F035A~~	~~3~~	~~C~~	~~NE~~	~~3/4~~	~~C~~	~~NA~~	~~C~~	~~P81~~	~~O~~	~~1093B~~	~~C-3~~	~~NO~~	~~YES~~	~~NA~~	~~NA~~	~~NOTE 1~~ RELIEF REQUEST P81-1
~~F035B~~	~~3~~	~~C~~	~~NE~~	~~3/4~~	~~C~~	~~NA~~	~~C~~	~~P81~~	~~O~~	~~1093C~~	~~C-6~~	~~NO~~	~~YES~~	~~NA~~	~~NA~~	~~NOTE 1~~ RELIEF REQUEST P81-1
F046A	3	C	NE	1	RV	NA	C	P81	~~O~~ NA	1093B	B-5	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F046B	3	C	NE	3/4	RV	NA	C	P81	~~O~~ NA	1093C	C-5	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F047A	3	C	NE	1	RV	NA	C	P81	~~O~~ NA	1093B	D-5	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F047B	3	C	NE	1	RV	NA	C	P81	~~O~~ NA	1093C	D-5	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F048A	3	C	NE	3/4	RV	NA	C	P81	~~O~~ NA	1093B	G-5	NO	YES	~~1-5~~ 4,5	10	NONE
F048B	3	C	NE	3/4	RV	NA	C	P81	~~O~~ NA	1093C	G-5	NO	YES	~~1-5~~ 4,5	10	NONE
F049A	3	C	NE	3/4	RV	NA	C	P81	~~O~~ NA	1093B	F-4	NO	YES	~~1-5~~ 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 POWER & LIGHT COMPANY
GRAND GULF NUCLEAR STATION
UNIT 1
INSERVICE INSPECTION PROGRAM
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VALVE SUMMARY LISTING

SYSTEM HPCS DIESEL GENERATOR P81

JOB 15026

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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	
F049B	3	C	NE	3/4	RV	NA	C	P81	~~O~~ NA	1093C	G-6	NO	YES	~~1-5~~ 4,5	10	NONE
F051A	3	C	NE	3/4	RV	NA	C	P81	~~O~~ NA	1093B	F-8	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F051B	3	C	NE	3/4	RV	NA	C	P81	~~O~~ NA	1093C	F-2	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F052A	3	C	NE	1	RV	NA	C	P81	~~O~~ NA	1093B	C-5	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F052B	3	C	NE	3/4	RV	NA	C	P81	~~O~~ NA	1093C	C-5	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F055A	3	C	NE	1	RV	NA	C	P81	~~O~~ NA	1093B	B-3	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F055B	3	C	NE	3/4	RV	NA	C	P81	~~O~~ NA	1093C	B-7	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F058A	3	C	NE	1	RV	NA	C	P81	~~O~~ NA	1093B	D-3	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F058B	3	C	NE	3/4	RV	NA	C	P81	~~O~~ NA	1093C	D-7	NO	YES	~~NA~~ 4,5	~~NA~~ 10	~~NOTE 1~~ NONE ~~RELIEF REQUEST P81-1~~
F059A	3	C	NE	1	C	NA	C	P81	0	1093B	D-2	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P81-X2
F059B	3	C	NE	3/4	C	NA	C	P81	0	1093C	D-8	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P81-X2
F060A	3	C	NE	1	C	NA	C	P81	~~O~~ C	1093B	D-2	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P81-X2
F060B	3	C	NE	3/4	C	NA	C	P81	~~O~~ C	1093C	D-8	NO	YES	~~NA~~ 1-5	~~NA~~ 1,5	~~NOTE 1~~ RELIEF REQUEST P81-X2
F067A	3	C	NE	3/4	C	NA	C	P81	~~O/C~~ C	1093B	G-5	NO	YES	1-5	1, 5	NONE
F067B	3	C	NE	3/4	C	NA	C	P81	~~O/C~~ C	1093C	G-5	NO	YES	1-5	1, 5	NONE
F068A	3	C	NE	3/4	C	NA	C	P81	~~O/C~~ C	1093B	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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GRAND GULF NUCLEAR STATION
UNIT 1
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VALVE SUMMARY LISTING

SYSTEM HPCS DIESEL GENERATOR P81

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REV. 3
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VALVE INFORMATION								SYSTEM INFORMATION				TEST INFORMATION				COMMENTS
VALVE NO.	CLASS	CATEGORY	STATUS	SIZE (Inches)	VALVE TYPE	ACT-UATOR TYPE	NORMAL POSITION	SYSTEM NO.	TEST TO POSITION	P & ID NO. M-	P & ID COORD-INATES	HIGH RADI-ATION AREA	TEST-ABLE	TEST DURING	METHOD OF TESTING	
F068B	3	C	NE	3/4	C	NA	C	P81	~~O/C~~ C	1093C	F-6	NO	YES	1-5	1, 5	NONE
F503A	3	B	NE	½	G	S	C	P81	O	1093B	D-4	NO	YES	1-5	2,5,6	RELIEF REQUEST P81-1
F503B	3	B	NE	½	G	S	C	P81	O	1093C	D-6	NO	YES	1-5	2,5,6	RELIEF REQUEST P81-1
F504A	3	B	NE	½	G	S	C	P81	O	1093B	B-4	NO	YES	1-5	2,5,6	RELIEF REQUEST P81-1
F504B	3	B	NE	½	G	S	C	P81	O	1093C	C-6	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.

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GAITHERSBURG POWER DIVISION

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

RELIEF REQUEST C41-1:
STANDBY LIQUID CONTROL SYSTEM

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 ~~LOCA~~ 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.

RELIEF REQUEST C41-2: STANDBY LIQUID CONTROL SYSTEM

PUMPS:	C001A-A and C001B-B (M-1082, D-5, E-5)
CLASS:	2
FUNCTION:	Injection of standby liquid control (SLC) into the reactor pressure vessel upon loss of reactivity control.
TEST REQUIREMENTS:	Measure pump flowrate during testing.
BASIS FOR RELIEF:	There is no installed flow instrumentation with which to measure flow. Measuring pump flow by observing the SLC test tank level change would require firing of the squib valves to inject demineralized water into the reactor vessel.
ALTERNATIVE TESTING:	Proper pump discharge pressure will be verified during quarterly pump testing. Pump flowrate will be tested by monitoring the SLC test tank level drop when performing the 18 month surveillance required by GGNS Technical Specifications. Both pumps will be tested very 18 months.