

LA SALLE COUNTY STATION

UNIT 1

INSERVICE INSPECTION PROGRAM REPORT

INSTRUCTIONS FOR UPDATING

Before updating your Inservice Inspection Program Report, please remove from Volume 2 Tabs 22 through 30 and the material following each of the tabs and place them behind Form GE-11 in Section 21 at the end of Volume 1.

To update your La Salle County Station Unit I Inservice Inspection Report, remove the following pages and insert the following pages:

REMOVE

INSERT

VOLUME 1

Cover sheet

Cover sheet, Tab for Part A, and title sheet for Part A

VOLUME 2

Cover sheet

Cover sheet, Tab for Part A (Cont'd), and title sheet for Part A

After Page GEL-1103

Tab for Part B, title sheet for Part B, Tab 1, Table of Contents, Tab 2, Pages 1 and 2, Tab 3, Pages 1 through 7, Tab 4, Pages DG, DO, FC, HP, SC, RH, RI, LP, Tab 5, RP-01 Pages 1 and 2, RP-02, RP-03, RP-04 Pages 1 and 2, RP-05, RP-06, RP-07, RP-08, RP-09, Tab 6, CM Pages 1 and 2, DG, DO, FC, FW, HG Pages 1 and 2, HP Pages 1 and 2, IN Pages 1 through 3, LP, MC, MS Pages 1 through 11, NB Pages 1 through 3, PC, RD, RE, RH Pages 1 through 11, RI Pages 1 through 4, RR Pages 1 through 3, RT Pages 1 and 2, SA, SC, VP, VQ Pages 1 through 3, WR, Tab 7, RV-01,

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Q PDR

LA SALLE COUNTY STATION

UNIT 1

INSERVICE INSPECTION PROGRAM REPORT

INSTRUCTIONS FOR UPDATING (Cont'd)

REMOVE

INSERT

RV-02 Pages 1 and 2, RV-03,
RV-04, RV-05, RV-06,
RV-07, RV-08, RV-09
Pages 1 and 2, RV-10,
RV-11, RV-12, RV-13, RV-14,
RV-15, RV-16, RV-17, RV-18,
RV-19, RV-20, RV-21 Pages
1 and 2, RV-22 Pages 1 and 2,
RV-23 Pages 1 and 2, RV-24,
RV-25 Pages 1 and 2, RV-26,
RV-27 pages 1 and 2,
RV-28 Pages 1 through 3,
RV-29, RV-30, RV-31, RV-32,
RV-33, RV-34, RV-35, RV-36,
and RV-37.

INSERVICE INSPECTION PROGRAM

PART A: PIPING SUBSYSTEMS, COMPONENTS AND COMPONENT
SUPPORTS, AND NRC REQUIRED AUGMENTED INSERVICE
INSPECTIONS

PART B: PUMPS AND VALVES

LA SALLE COUNTY STATION

UNIT 1

COMMONWEALTH EDISON COMPANY

PART A: PIPING SYSTEMS

INSERVICE INSPECTION PROGRAM

LA SALLE COUNTY STATION

UNIT 1

COMMONWEALTH EDISON COMPANY

JANUARY 31, 1983

PREPARED BY

GENERAL ELECTRIC COMPANY
INSTALLATION & SERVICE ENGINEERING DIVISION

INSERVICE INSPECTION PROGRAM

PART A: PIPING SUBSYSTEMS, COMPONENTS AND COMPONENT
SUPPORTS, AND NRC REQUIRED AUGMENTED INSERVICE
INSPECTIONS

PART B: PUMPS AND VALVES

LA SALLE COUNTY STATION

UNIT 1

COMMONWEALTH EDISON COMPANY

PART A: PIPING SYSTEMS

INSERVICE INSPECTION PROGRAM

LA SALLE COUNTY STATION

UNIT 1

COMMONWEALTH EDISON COMPANY

JANUARY 31, 1983

PREPARED BY

GENERAL ELECTRIC COMPANY
INSTALLATION & SERVICE ENGINEERING DIVISION

PART B: PUMPS AND VALVES

INSERVICE INSPECTION PROGRAM

LA SALLE COUNTY STATION

UNIT 1

COMMONWEALTH EDISON COMPANY

JANUARY 31, 1983

PREPARED BY

GENERAL ELECTRIC COMPANY
INSTALLATION & SERVICE ENGINEERING DIVISION
AND
LA SALLE STATION TECHNICAL STAFF (OPERATIONS)
IN CONJUNCTION WITH
LA SALLE PROJECT ENGINEERING GROUP (DESIGN)



Commonwealth Edison

LaSalle County Nuclear Station Unit 1

PUMP AND VALVE
INSERVICE TESTING PLAN

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INSERVICE TESTING PLAN
DESCRIPTION

1. APPLICABLE ASME CODE INSERVICE TESTING

1.1 The Inservice Testing of equipment in NRC Quality Groups A, B, C, and D+ are performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code 1980 Edition through Winter 1980 Addenda, except where specific written relief from examinations and testings determined to be impractical has been granted by the NRC pursuant to 10 CFR Part 50, Section 50.55 a(g)(6)(i). Known relief requests from ASME Code Section XI requirements are included in the Inservice Testing Plan.

2. PUMPS AND VALVES TESTED IN ACCORDANCE WITH ASME SECTION XI SUBSECTIONS IWA, IWP, AND IWV

- 2.1 All ASME Code Class 1, 2, and 3 safety-related pumps that are provided with an emergency power-source are tested in accordance with ASME Section XI IWP-3000.
- 2.2 All ASME Code Class 1, 2, and 3 safety-related valves have been reviewed against the exclusion criteria of ASME Section XI IWV-1200.
- 2.3 All ASME Code Class 1, 2, and 3 safety-related valves, which are not excluded by Section 2.2 above, are categorized and tested in accordance with ASME Section XI IWV-2200 and IWV-3000.
- 2.4 Inservice Testing boundary classifications for pumps and valves are included in the Preservice Inspection Report as the Preservice Inspection Records Index.

3. INSERVICE TESTING

- 3.1 When a pump or valve is determined to be impractical to test in accordance with respective ASME Section XI IWP-3000 or IWV-3000, a specific written relief request from the ASME Code is submitted to the NRC (in accordance with Section 1.1 above). Each written relief request contains the following information as a minimum.
- 3.1.1 Identification of pump(s) or valve(s) for which relief is requested.
- 3.1.2 Function of pump(s) or valve(s).
- 3.1.3 ASME Section III Code Class and Category (valves only).



- 3.1.4 The specific ASME Code requirement that is determined to be impractical.
 - 3.1.5 LSCS relief justification(s) information for requesting relief.
 - 3.1.6 Specific alternative test(s) in lieu of ASME Code Section XI requirement(s).
- 3.3 All records and reports are prepared in accordance with ASME Section XI IWA-6000.



INSERVICE TESTING PLAN

FORMAT LEGEND AND NOTES

I. ASME CLASS 1, 2, AND 3 PUMPS

<u>FIELD</u>	<u>DESCRIPTION</u>
00 PUMP NUMBER	Pump number as used on the P&ID.
01 PUMP NAME	Pump word description and name.
02 CLASS	ASME Section III Code Classification (1, 2, or 3).
03 P&ID NO.	Piping and Instrumentation Drawing Number. All drawing numbers are prefixed with "M". Sheet numbers follow the drawing number.
04 COORDINATES	Pump coordinates on P&ID.
05 SPEED	Speed of pump to be measured. N/A - Not Applicable. All the pumps with N/A in the speed column are either synchronous or induction motor driven and do not require speed measurements.
06 INLET PRESS	Inlet pressure of pump to be measured.
07 DIFF. PRESS.	Differential pressure of pump to be measured, N/A, Not applicable for positive displacement pumps.
08 FLOW RATE	Flow rate of pump to be measured
09 VIBRATION	Vibration amplitude of pump to be measured. - See RP-04.
10 BEARING TEMP.	Bearing temperature of pump to be measured - See RP-01.
11 TEST INTERVAL	Testing interval of pumps and any Relief Requests. Relief numbers are prefixed by "RP" for pumps ("RV" for valves).



II ASME CLASS 1, 2, AND 3 VALVES

<u>FIELD</u>	<u>DESCRIPTION</u>
00 VALVE NUMBER	Valve number as used on the P&ID.
01 SIZE	Nominal size of valve in inches.
02 P&ID NO.	Piping and Instrumentation Drawing Number. All drawing numbers are prefixed with "M". Sheet numbers follow the drawing number.
03 COORDINATES	Valve location on P&ID.
04 CLASS CATEGORY	ASME Section III Code Classification (1, 2, or 3) followed by the Valve Category (A, B, C, D, OR E). NC is used for valves which do not have an ASME Section III Class.
05 VALVE TYPE	AG Angle BL Ball BF Butterfly CMV Control Valve DB Double Block EFC Excess Flow Check FCV Flow Control Valve GB Globe GT Gate MFC Manual Flow Control NV Needle Valve NSC Non-Slam Check P Plug PG Packless Globe PRV Pressure Regulator Valve RV Relief Valve S Safety SRV Safety Relief Valve SC Stop Check CV Check Valve
06 ACTUATOR TYPE	AO Air Operator AS Air Spring EX Explosive M Manual MO Motor Operated SO Solenoid Operated SP Spring
07 VALVE POSITION	C Normally Closed O Normally Open L.O. Locked Open L.C. Locked Closed



II ASME CLASS 1, 2, AND 3 VALVES - CON'T.

<u>FIELD</u>	<u>DESCRIPTION</u>
08 TEST	E Exercise FS Full Stroke PS Part Stroke Exercise ST Stroke Time LV Locked Valve (Administrative controls, No Schedule) RV Verify set points in accordance with IWV-3510 FC Fire Explosive Charge LT Leak Test in Accordance with FSAR Table 6.2-21 PIT Position Indiction check FST Fail Safe Test
09 TEST SCHEDULE	Q Quarterly, 92 Days CS Cold Shutdown (IST), See Note (3) RR Reactor Refueling EV IWV-3610
10 Max. STROKE TIME	The maximum allowed stroke time for valves requiring stroke time measurement
11 RELIEF REQUEST	A relief request number when a specific code requirement is determined to be impractical. Relief request numbers for valves are prefixed with "RV". ("RP" for pumps)
12 ACTIVE OR PASSIVE	Active "A" valves are valves which are required to change position to accomplish a specific function. Passive "P" valves are valves which are not required to change position to accomplish a specific function.
13 REMARKS	General valve descriptions or comments.

III NOTES

- (1) In accordance with ASME Section XI IWV-3410 (b) (1) and IWV-3520 (b) these valves are exercised to the position required to fulfill their function during Cold Shutdown or Reactor Refueling as applicable.
- (2) Safety valves and relief valves are tested during Reactor Refueling; however, individual valves are scheduled in accordance with ASME Section XI Table IWV-3510-1.



III NOTES - CON'T

- (3) Inservice valve testing at cold shutdown is defined as:
Valve testing which commences not later than forty eight (48) hours after cold shutdown and continues until required testing is completed or plant start-up, whichever occurs first. Completion of all required valve testing is not a requisite to plant start-up. Valve testing which is not completed during a cold shutdown will be performed during subsequent cold shutdowns to meet the code specified testing requirements. No valve will be tested more often than once every 90 days.

Also, some valves require entry into the containment to perform the test, such valves will only be tested when the drywell is de-inerted.

Note: It is expected that the required inservice valve testing will normally be completed in 120 hours following cold shutdown. However, completion of all valve testing during cold shutdown is not required if plant operating conditions will not permit the testing of specific valves.

In the event that a valve must be declared inoperable as a result of cold shutdown testing (ASME Code, Section XI, IWB-3410 (g) and IWB-3520 (c)) the applicable unit start-up limitations will be as stated in the technical specification, limiting conditions for operations.

- (4) 10 CFR 50 Appendix J Type C Test.
- (5) Reactor Coolant System Pressure Isolation Valves, leak tested per Tech. Spec. 4.4.3.2.2.
- (6) Test pressure is not in the same direction as the pressure existing when the valve is required to perform the safety function as required by Appendix J to 10 CFR 50. Either manufacturers' test data, site test results, or justification (e.g., reverse test pressure tending to lift disk from seat) will be available on site to verify that testing in the reverse direction will provide either equivalent or more conservative results. (From FSAR Table 6.2-21, Note 20).
- (7) These lines have been evaluated to an acceptable alternative design basis other than that specifically listed in GDC 56. This alternate basis is found in SRP 6.2.4.II.3.e, and the evaluation to the criteria specified therein is as follows:
- a. All lines are in engineered safety feature or engineered safety feature-related systems.
 - b. System reliability can readily be seen to be greater when only a single valve is provided, since the addition of another valve in series provides an additional potential point of failure, and, in the case of relief valve discharge lines, the installation of an additional valve is actually prohibited by the ASME Code.



III NOTES - CON'T

- c. The systems are closed outside containment.
 - d. A single active failure of these ESF systems can be accommodated.
 - e. The systems outside containment are protected from missiles consistent with their classification as ESF systems.
 - f. The systems are designed to Seismic Category I standards.
 - g. The systems are classified as Safety Class 2.
 - h. The design ratings of these systems meet or exceed those specified for the primary containment.
 - i. The leaktightness of these systems is assured by normal surveillance, inservice testing and leak detection monitoring.
 - j. The single valve on these lines is located outside containment.
(From FSAR Table 6.2-21, Note 28).
- (8) These lines are always filled with water on the outboard side of the containment thereby forming a water seal. They are maintained at a pressure that is always higher than primary containment pressure by water leg pumps; thus, precluding any outleakage from primary containment. However, even if outleakage did occur, it would be into an ESF system which forms a closed loop outside primary containment. Thus, any leakage from primary containment would return to primary containment through this closed loop.

These valves are under continuous leakage test because they are always subjected to a differential pressure acting across the seat. Leakage through these valves is continuously monitored by the pressure switches in the pump discharge lines, which have a low alarm setpoint in the main control room.

Even though a special leakage test is not merited on these valves for the reasons discussed above, a system leakage test to meet the requirements of Type C testing and as hereinafter described, will be performed to ensure the leak-tightnesses of the ECCS and RCIC systems. The systems will be pressurized with water to a minimum pressure of 39.6 psig (peak drywell accident pressure) with the system totally isolated from primary containment. A leakage rate for the entire system will then be determined and compared to an acceptance limit based on site boundary dose considerations (10 CFR 100: ECCS subsystem leakage not to exceed 1 gpm times number of valves in the subsystem tested). (From FSAR Table 6.2-21, Note 29).



III NOTES - CON'T

- (9) To satisfy the requirements of General Design Criterion 56 and to perform their function, these instrument lines have been designed to meet the requirements of Regulatory Guide 1.11 (Safety Guide 11).

These lines are Seismic Category I and terminate in instruments that are Seismic Category I. They are provided with manual isolation valves and excess flow check valves.

The integrity of these lines is to be tested during the Type "A" Test. These lines and their associated instruments will be pressurized to P. Surveillance inspections will be performed to ensure that the leak-tight integrity of these lines and their associated instruments. Additional inservice inspection is included in the Technical Specifications. This inservice inspection verifies the function of the excess flow check valves and their leakage rates.

Isolation is provided by the excess flow check valve. In the event of a line rupture downstream of the check valve and a containment pressure above 2 psig, this valve would close to limit the amount of leakage. (From FSAR Table 6.2-21, Note 32).

- (10) To perform their function and to satisfy the requirements of General Design Criterion 55, these instrument lines have been designed to meet the requirements of Regulatory Guide 1.11 (Safety Guide 11).

These lines are Seismic Category I and terminate in instruments that are Seismic Category I. They are provided with flow-restricting orifices, manual isolation valves, and excess flow check valves.

The flow-restricting orifice is sized to assure that in the event of a postulated failure of the piping or component, the potential offsite exposure will be substantially below the guidelines of 10 CFR 100.

Isolation is provided by the excess flow check valve. In the event of a line rupture downstream of the check valves, this valve would close to limit the amount of leakage.

The integrity of these lines will be tested during the Type "A" Test. Surveillance inspections will be performed to ensure the leak-tight integrity of these lines and their associated instruments. Additional inservice inspection is included in the Technical Specifications. This inservice inspection verifies the function of the excess flow check valves and their leakage rates. (From FSAR Table 6.2-21, Note 38).

- (11) The ECCS and RCIC suction lines are normally filled with water on both the inboard and outboard side of containment, thereby forming a water seal to the containment environment. The valves are open during post-LOCA conditions to supply a water source for the ECCS pumps. Since



III NOTES - CON'T

a break in an ECCS line need not be considered in conjunction with a DBA, the only possible situation requiring one of these valves to be closed during a DBA is an unacceptable leakage in an ECCS. However, because these ECCS systems are constantly monitored for excessive leakage, this is not a credible event for design.

However, at the insistence of the NRC, these valves will receive a leakage test as part of the low pressure system leakage test described in Note 29. (From FSAR Table 6.2-21, Note 39).

- (12) The leakages through the Main Steamline valves will not be included in establishing the acceptance limits for the combined leakage in accordance with the 10 CFR 50, Appendix J, Type B and C tests. Because the Main Steamlines are provided with a leakage control system, the leakage through these valves will not be added into the combined leakage rate. This exclusion is in accordance with Article III.C.3 of 10 CFR 50, Appendix J. (From FSAR Table 6.2-21, Note 30).
- (13) These penetrations are provided with removable spools outboard of the outboard isolation valve. During operation, these lines will be blind flanged using a double O-ring and type-B leak tested. In addition, the packing of these isolation valves will be soap bubble tested to ensure insignificant or no leakage at containment test pressure and refueling outage.



Commonwealth Edison

LaSalle County Nuclear Station Unit 1

INSERVICE TESTING PLAN
PUMPS

System DG - DIESEL GENERATOR
Page 1 of 1

PUMP NUMBER 00	PUMP NAME 01	CLASS 02	P&ID NO 03	COOR. 04	TEST PARAMETERS TO BE MEASURED						TEST INTERVAL 11
					SPEED 05	INLET PRESS 06	DIFF PRESS 07	FLOW RATE 08	VIBRA- TION 09	BEARING TEMP. 10	
ODG-01P	DG Cooling Pump "0A"	3	87-2	7C	N/A	yes	yes	yes	RP-04	RP-01	Quarterly - See RP-03
IDG-01P	DG Cooling Pump "1A"	3	87-1	7D	N/A	yes	yes	yes	RP-04	RP-01	Quarterly - See RP-03



Commonwealth Edison

LaSalle County Nuclear Station Unit 1

INSERVICE TESTING PLAN
PUMPS

System DO - DIESEL OIL
Page 1 of 1

PUMP NUMBER 00	PUMP NAME 01	CLASS 02	P&ID NO 03	COORD. 04	TEST PARAMETERS TO BE MEASURED						TEST INTERVAL 11
					SPEED 05	INLET PRESS 06	DIFF. PRESS 07	FLOW RATE 08	VIBRA- TION 09	BEARING TEMP. 10	
00001P	DG Pump 0	3	85-1	4C	N/A	RP-05	RP-05	RP-05	RP-04	RP-01	Quarterly - See RP-03
10001P	DG Pump 1A	3	85-1	6C	N/A	RP-05	RP-05	RP-05	RP-04	RP-01	Quarterly - See RP-03
10002P	HPCS DG 011 Transfer Pump	3	85-1	1C	N/A	RP-05	RP-05	RP-05	RP-04	RP-01	Quarterly - See RP-03



Commonwealth Edison

LaSalle County Nuclear Station Unit 1

INSERVICE TESTING PLAN
PUMPS

System FC - FUEL POOL COOLING
Page 1 of 1

PUMP NUMBER 00	PUMP NAME 01	CLASS 02	P&ID NO 03	COORD. 04	TEST PARAMETERS TO BE MEASURED						TEST INTERVAL 11
					SPEED 05	INLET PRESS 06	DIFF. PRESS 07	FLOW RATE 08	VIBRA- TION 09	BEARING TEMP. 10	
1FC03PA	FP-Emerg. Make-up-1A	3	87-2	7E	N/A	yes	yes	yes	RP-04	RP-01	Quarterly - See RP-03
1FC03PB	FP-Emerg. Make-up-1B	3	87-1	7C	N/A	yes	yes	yes	RP-04	RP-01	Quarterly - See RP-03



Commonwealth Edison

LaSalle County Nuclear Station Unit 1

INSERVICE TESTING PLAN
PUMPS

System HP-HIGH PRESSURE CORE SPRAY
Page 1 of 1

PUMP NUMBER 00	PUMP NAME 01	CLASS 02	P&ID NO 03	COORD. 04	TEST PARAMETERS TO BE MEASURED						TEST INTERVAL 11
					SPEED 05	INLET PRESS 06	DIFF. PRESS 07	FLOW RATE 08	VIBRA- TION 09	BEARING TEMP. 10	
1E22-C001	HPCS Pump	2	95	2C	N/A	yes	yes	yes	RP-04	RP-01	Quarterly - See RP-03
1E22-C003	HPCS Water Leg Pump	2	95	4D	N/A	yes	yes	RP-02	RP-04	RP-01	Quarterly - See RP-03
1E22-C002	HPCS DG Cooling Water Pump 1A	3	87-1	7B	N/A	yes	yes	yes	RP-04	RP-01	Quarterly - See RP-03



Commonwealth Edison

LaSalle County Nuclear Station Unit 1

IN-SERVICE TESTING PLAN
PUMPS

System SC-STANDBY LIQUID CONTROL
Page 1 of 1

PUMP NUMBER 00	PUMP NAME 01	CLASS 02	P&ID NO 03	COORD. 04	TEST PARAMETERS TO BE MEASURED						TEST INTERVAL 11
					SPEED 05	INLET PRESS 06	DIFF. PRESS 07	FLOW RATE 08	VIBRA- TION 09	BEARING TEMP 10	
1C41-C001A	SLC Pump 1A	2	99	C4	N/A	RP-06	NA (RP-06)	yes	RP-04	RP-01	Quarterly
1C41-C001B	SLC Pump 1B	2	99	B4	N/A	RP-06	NA (RP-06)	yes	RP-04	RP-01	Quarterly



Commonwealth Edison

LaSalle County Nuclear Station Unit 1

INSERVICE TESTING PLAN
PUMPS

System RH-RESIDUAL HEAT REMOVAL
Page 1 of 1

PUMP NUMBER 00	PUMP NAME 01	CLASS 02	P&ID NO 03	COORD. 04	TEST PARAMETERS TO BE MEASURED						TEST INTERVAL 11
					SPEED 05	INLET PRESS 06	DIFF. PRESS 07	FLOW RATE 08	VIBRA- TION 09	BEARING TEMP. 10	
1E12-C002A	RHR Pump 1A	2	96-01	5A	N/A	yes	yes	yes	RP-04	RP-01	Quarterly
1E12-C002B	RHR Pump 1B	2	96-02	4B	N/A	yes	yes	yes	RP-04	RP-01	Quarterly
1E12-C002C	RHR Pump 1C	2	96-3	5C	N/A	yes	yes	yes	RP-04	RP-01	Quarterly
1E12-C003	RHR Water Leg Pump	2	96-03	7A	N/A	yes	yes	RP-02	RP-04	RP-01	Quarterly
1E12-C300A	RHR Serv. Water Pump 1A	3	87-2	7A	N/A	yes	yes	yes	RP-04	RP-01	Quarterly
1E12-C300B	RHR Serv. Water Pump 1B	3	87-2	7B	N/A	yes	yes	yes	RP-04	RP-01	Quarterly
1E12-C300C	RHR Serv. Water Pump 1C	3	87-1	7E	N/A	yes	yes	yes	RP-04	RP-01	Quarterly
1E12-C300D	RHR Serv. Water Pump 1D	3	87-1	7F	N/A	yes	yes	yes	RP-04	RP-01	Quarterly



Commonwealth Edison

LaSalle County Nuclear Station Unit 1

INSERVICE TESTING PLAN
PUMPS

System RI-REACTOR CLOSURE ISOL-COOL
Page 1 of 1

PUMP NUMBER 00	PUMP NAME 01	CLASS 02	P&ID NO 03	COORD. 04	TEST PARAMETERS TO BE MEASURED						TEST INTERVAL 11
					SPEED 05	INLET PRESS 06	DIFF. PRESS 07	FLOW RATE 08	VIBRA- TION 09	BEARING TEMP. 10	
1E51-C001	RCIC Pump	2	101-02	C2	yes	yes	yes	yes	RP-04	RP-01	Quarterly
1E51-C003	RCIC Water Leg Pump	2	101-02	A4	N/A	yes	yes	RP-02	RP-04	RP-01	Quarterly



Commonwealth Edison

LaSalle County Nuclear Station Unit 1

INSERVICE TESTING PLAN
PUMPS

System LP-LOW PRESSURE CORE SPRAY
Page 1 of 1

PUMP NUMBER 00	PUMP NAME 01	CLASS 02	P&ID NO 03	COORD. 04	TEST PARAMETERS TO BE MEASURED						TEST INTERVAL 11
					SPEED 05	INLET PRESS 06	DIFF. PRESS 07	FLOW RATE 08	VIBRA- TION 09	BEARING TEMP. 10	
1E21-C001	LPCS Pump	2	94	2B	N/A	yes	yes	yes	RP-04	RP-01	Quarterly
1E21-C002	LPCS Water Leg Pump	2	94	3B	N/A	yes	yes	RP-02	RP-04	RP-01	Quarterly



Commonwealth Edison

LaSalle County Nuclear Station Unit 1

**PUMP & VALVE TESTING
RELIEF REQUESTS**

Page 1 of 2

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RP-01	All Pumps	--	N/A	Measure Bearing Temperature Annually	Bearing temperature measurements will not provide significant additional information regarding bearing condition than that already obtained by measuring vibration amplitude. Measurement of vibration amplitude provides more concise and consistent information with respect to pump and bearing condition. The usage of vibration amplitude measurements can provide information as to a change in the balance of rotating parts, misalignment- of bearings, worn bearings, changes in internal hydraulic forces and general pump integrity prior to the condition degrading to the point where the component is jeopardized. Bearing temperature does	Vibration velocity measurements will be taken quarterly.



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RP-01	Continued				<p>not always predict such problems. An increase in bearing temperature most often does not occur until the bearing has deteriorated to a point where additional pump damage may occur. Bearing temperatures are also affected by the temperatures of the medium being pumped, which could yield misleading results. Vibration readings are not affected by the temperature of the medium being pumped, thus the readings are more consistent. As described in relief request RP-04, vibration velocity measurements will be made in inches/second rather than in mils. This will provide a more sensitive determination of abnormal conditions.</p>	



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LaSalle County Nuclear Station Unit 1

**PUMP & VALVE TESTING
RELIEF REQUESTS**

Page 1 of 1

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RP-02	HPCS Water Leg Pump 1E22-C003	2	Pressure Maintenance	IWP-3100 Flow Measurement	Flow is not a significant design parameter for the water leg pumps. Their primary purpose is to maintain the ECCS pump discharge lines filled and pressurized. The satisfactory performance of this function is manifested by the maintenance of the discharge line within allowable standby pressure limits. Therefore, there is actually no flow criteria on the pump that could be used to determine whether the pump is satisfactorily performing its safety function. Therefore, because the design basis of the waterleg pumps is maintenance of pressure, this is the parameter that is considered for inservice testing.	Pressure Maintenance of ECCS discharge lines within allowable pressure limits.
	LPCS Water Leg Pump 1E21-C002	2				
	RHR Water Leg Pump 1E12-C003	2				



Commonwealth Edison

LaSalle County Nuclear Station Unit 1

**PUMP & VALVE TESTING
RELIEF REQUESTS**

Page 1 of 1

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RP-03	Deleted					

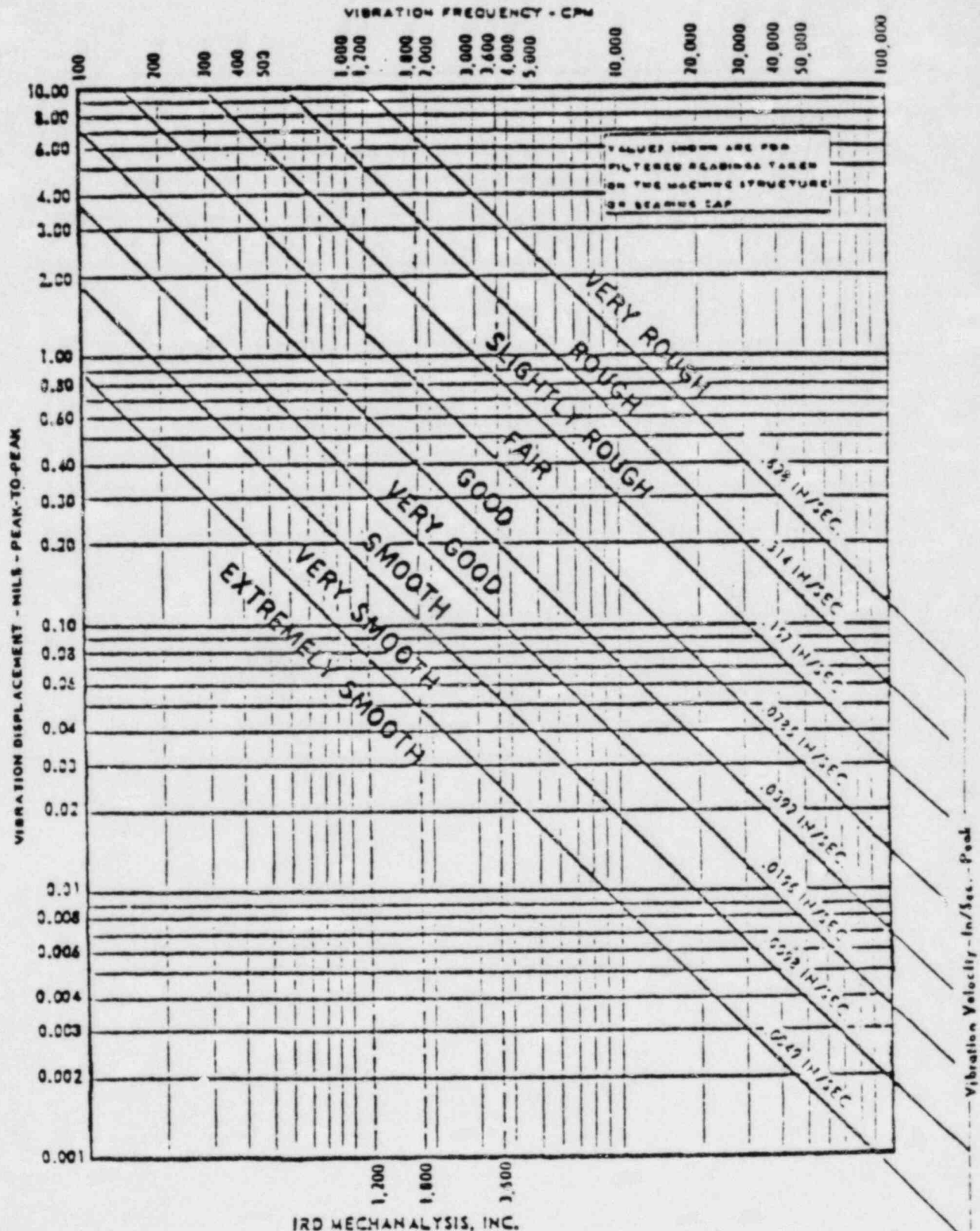


**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RP-04	All Pumps	--	N/A	Requirements of Table IWP-3100-2	Portable vibration monitoring equipment allowing for the measurement of vibration velocity in inches/ second is available at the plant site. This measurement gives a more accurate determination of abnormal vibrations at frequencies other than shaft rotational speed. The results of this testing will be evaluated using the "General Machinery Severity Chart", published by IRD Mech- analysis, Inc., as a guide.	The vibration testing data will be analyzed in accordance with the chart shown in RP-04. The alert range will be $.314 \frac{\text{in}}{\text{sec}} \leq V \leq .628 \frac{\text{in}}{\text{sec}}$ The required action range will be $V > .628 \text{ in/sec.}$

GENERAL MACHINERY VIBRATION SEVERITY CHART

For use as a GUIDE in judging vibration as a warning of impending trouble.





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**PUMP & VALVE TESTING
RELIEF REQUESTS**

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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS / CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RP-05	00001P 10001P 10002P	3 3 3	Transfer Fuel Oil From The Diesel Generator Fuel Oil Storage Tank To The Day Tank.	Measure Pump Inlet Pressure, And Differential Pressure, And Flow Rate.	The purpose of these pumps is to move fuel oil into the day tank approximately ten times faster than the diesel engine consumption rate. The exact flow characteristic of the pump is not crucial. Also, there is no definable output pressure requirement. For these reasons, the best method of determining degradation trends in pump performance is to measure the flow rate by measuring the time it takes to increase to a certain level in the day tank.	Measure flow by measuring the time it takes to increase the level in the day tank.



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**PUMP & VALVE TESTING
RELIEF REQUESTS**

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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RP-06	1C41-C001A 1C41-C001B	2 2		Measure Pump Inlet Pressure	It is impractical to measure standby liquid control pump inlet pressure in accordance with Section XI requirements. During pump testing, the pump suction is from a test tank rather than the main standby liquid control tank. The only means available to measure inlet pressure is to correlate tank level to inlet pressure. These pumps are positive displacement, the measurement of inlet pressure is not critical in judging pump performance. Measuring the discharge pressure and the flow rate is adequate to detect changes in the hydraulic characteristics of the pumps.	Monitor pump discharge at each inservice test.



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**PUMP & VALVE TESTING
RELIEF REQUESTS**

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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RP-07	Deleted					



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**PUMP & VALVE TESTING
RELIEF REQUESTS**

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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RP-08	RHR Pump A 1E12-C002A	2	Remove Decay Heat	IWP-4120 requires that the full scale range of pump instruments shall be three times the reference value or less.	The reference values for the inlet pressures of RHR Pumps A, B and C are all ($P_i > 7.5$ psig). The reference value for the inlet pressure of the RHR water leg pump is ($P_i > 8$ psig). The full scale range of the inlet pressure gages for all four pumps reads 0-250 psig. The inlet pressure for these pumps may attain a maximum pressure of 200 psig and therefore the pumps require a gage with a larger scale range.	Since inlet pressure varies on the RHR pumps, gages with larger scale ranges are required to accomodate pressure rises of pump suction.
	RHR Pump B 1E12-C002B	2	Remove Decay Heat			
	RHR Pump C 1E12-C002C	2	Remove Decay Heat			
	RHR Water Leg Pump	2	Pressure Maintenance			



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**PUMP & VALVE TESTING
RELIEF REQUESTS**

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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RP-09	HPCS Pump 1E22-C001	2	ECCS Pump	IWP 4120 requires that the full scale range of pump instruments shall be three times the reference value or less.	The reference value for the inlet pressure of the HPCS pumps is 8 psig when drawing water from the suppression pool and 17.5 psig when drawing water from the condensate storage tank. The full scale range of the inlet pressure gage is -30" Hg to 100 psig, or about a 115 psig range. The range is necessary due to the configuration of this system. When the HPCS pump is being stopped, there is a spike in the suction pressure. Such a pressure spike causes a suction pressure indicator with a smaller range to go out of calibration. Hence, a suction pressure gage with a larger scale is needed to enable the gage to remain in calibration for the measurement of suction pressure of the HPCS pump.	Due to pressure spikes, a gage with a larger scale will be used to measure inlet pressure.



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INSERVICE TESTING PLAN VALVES

System CM-Containment Monitoring
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VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13
1CM017A	.5	156-1	F7	2/A	GB	SO	0	FS, LT	Q RR	5	RV-02 RV-19	A	(See Note 4,6)
1CM017B	.5	156-2	F7	2/A	GB	SO	0	FS, LT	Q RR	5	RV-02 RV-19	A	(See Note 4)
1CM018A	.5	156-1	E7	2/A	GB	SO	0	FS, LT	Q RR	5	RV-02 RV-19	A	(See Note 4,6)
1CM018B	.5	156-2	F7	2/A	GB	SO	0	FS, LT	Q RR	5	RV-02 RV-19	A	(See Note 4)
1CM019A	.5	156-1	B7	2/A	GB	SO	0	FS, LT	Q RR	5	RV-02 RV-19	A	(See Note 4)
1CM019B	.5	156-2	B7	2/A	GB	SO	0	FS, LT	Q RR	5	RV-02 RV-19	A	(See Note 4)
1CM020A	.5	156-1	B7	2/A	GB	SO	0	FS, LT	Q RR	5	RV-02 RV-19	A	(See Note 4,6)
1CM020B	.5	156-2	B7	2/A	GB	SO	0	FS, LT	Q RR	5	RV-02 RV-19	A	(See Note 4,6)
1CM021B	.5	156-2	E3	2/B	GB	SO	C	FS	Q	5	RV-02	A	
1CM022A	.5	156-1	E3	2/B	GB	SO	C	FS	Q	5	RV-02	A	



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INSERVICE TESTING PLAN VALVES

CM-Containment Monitoring
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1CM023B	.5	156-2	E3	2/B	GB	SO	C	FS	Q	5	RV-02	A	
1CM024A	.5	156-1	E3	2/B	GB	SO	C	FS	Q	5	RV-02	A	
1CM025A	.5	156-1	A4	2/B	GB	SO	C	FS	Q	5	RV-02	A	
1CM026B	.5	156-2	A4	2/B	GB	SO	C	FS	Q	5	RV-02	A	
1CM031	.5	156-4	C6	2/A	GB	SO	O	FS, LT	Q RR	5	RV-02 RV-19	A	(See Note 4,6)
1CM032	.5	156-4	C6	2/A	GB	SO	O	FS, LT	Q RR	5	RV-02 RV-19	A	(See Note 4)
1CM033	.5	156-4	B7	2/A	GB	SO	O	FS, LT	Q RR	5	RV-02 RV-19	A	(See Note 4)
1CM034	.5	156-4	B7	2/A	GB	SO	O	FS, LT	Q RR	5	RV-02 RV-19	A	(See Note 4,6)



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INSERVICE TESTING PLAN VALVES

System DG-Diesel Generator
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00G-002	12	87-02	D6	3/C	NSC	-	C	E	Q			A	Diesel Cooling Water Pump Discharge Check
00G-009	4	87-02	C5	3/B	GT	MO	C	FS	Q		RV-01	A	Diesel Cooling Strainer Backwash Outlet Stop
00G-014	.75 x1.0	87-02	D4	3/C	RV	-	C	RV	RR			A	Diesel Generator Cooler QA relief (See Note 2)
10G-002	10	87-01	D6	3/C	NSC	-	C	E	Q			A	Diesel Cooling Water Pump Discharge Check
10G-011	4	87-01	D6	3/B	GT	MO	C	FS	Q		RV-01	A	Diesel Cooling Water Strainer
10G-034	.75	87-01	D4	3/C	RV	-	C	RV	RR			A	Diesel Generator Cooler 1A Relief (See Note 2)
10G-035	1.5	87-02	E4	3/B	GB	MO	O	FS,ST	Q	45		A	LPCS Pump Cooler Control
10G-036	1.5	87-02	E2	3/C	CV	-	C	E	Q			A	LPCS Pump Motor Cooler Outlet Check



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INSERVICE TESTING PLAN VALVES

System DO-Diesel Oil
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE		P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE
000002	1.5	85	D4	3/C	NSC	-	C	E	Q				Unit 0 DG Fuel Oil Transfer Pump Discharge Check
000004	1.5	85	D4	3/B	GT	SO	C	FS	Q		RV-02		Unit 0 DG Day Tank Inlet Stop Valve
100002	1.5	85	D6	3/C	NSC	-	C	E	Q				Unit 1A DG Fuel Oil Transfer Pump discharge check
100004	1.5	85	E6	3/B	GB	SO	C	FS	Q		RV-02		Unit 1 Day Tank Inlet Stop Valve
100012	1.5	85	D1	3/C	NSC	-	C	E	Q				Unit 1B DG Fuel Oil Transfer Pump Discharge Check
100014	1.5	85	E1	3/B	GB	SO	C	FS	Q		RV-02		Unit 1B Day Tank Inlet Stop Valve
100024	2	85	B2	3/B	GB	SO	C	FS	Q		RV-02		Diesel Fire Fuel Transfer Pump Inlet Stop



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INSERVICE TESTING PLAN VALVES

System FC-Fuel Pool Cooling
Page 1 of 1

VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13
1FC-044A	6	87-02	E6	3/C	NSC	-	C	E	Q			A	Fuel Pool Emergency Make Up Pump 1A Discharge Check
1FC-044B	6	87-01	C6	3/C	NSC	-	C	E	Q			A	Fuel Pool Emergency Make Up Pump 1B Discharge Check
1FC-105A	.75 x .75	91- 1	D4	3/C	RV	-	C	RV	RR			A	Fuel Pool Cooling Heat Exchanger Relief (See Note 2)
1FC-105B	.75 x .75	91- 1	D3	3/C	RV	-	C	RV	RR			A	Fuel Pool Cooling Heat Exchanger Relief (See Note 2)
1FC-086	10	98- 1	C7	2/A	GT	M	C	LT	RR	RV-19 RV-37		P	Rx well bulkhead drain outboard (M65)(See Note 4)
1FC-113	2	98- 1	D7	2/A	GB	M	C	LT	RR	RV-19 RV-37		P	Cond. to refuel bellows inboard (M59) (See Note 4,6)
1FC-114	2	98- 1	D7	2/A	GB	M	C	LT	RR	RV-19 RV-37		P	Cond. to refuel bellows outboard (M59) (See Note 4,6)
1FC-115	10	98- 1	C7	2/A	GT	M	C	LT	RR	RV-19 RV-37		P	Rx well bulkhead drain inboard(M65)(See Note 4,6)



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INSERVICE TESTING PLAN VALVES

System FM-Feedwater
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1B21-F010A	24	57	7A	1/AC	NSC	-	O	E LT	RR		RV-06 RV-19	A	Rx Feedwater Line Check Valve (M-5)(See Note 1,4)
1B21-F010B	24	57	7C	1/AC	NSC	-	O	E LT	RR		RV-06 RV-19	A	Rx Feedwater Line Check Valve (M-6)(See Note 1,4)
1B21-F032A	24	57	6A	1/AC	NSC	AO	O	E LT PIT	RR RR RR		RV-32 RV-19	A	Rx Feedwater Line Check Valve (M-5)(See Note 1,4)
1B21-F032B	24	57	6C	1/AC	NSC	AO	O	E LT PIT	RR RR RR		RV-32 RV-19	A	Rx Feedwater Line Check Valve (M-6)(See Note 1,4)
1B21-F065A	24	57	5A	2/A	GT	MO	O	FS,ST LT PIT	CS RR RR	132	RV-07 RV-19	A	Rx Feedwater Isolation Valve (M-5)(See Note 1,4)
1B21-F065B	24	57	5C	2/A	GT	MO	O	FS,ST LT PIT	CS RR RR	132	RV-07 RV-19	A	Rx Feedwater Isolation Valve (M-6)(See Note 1,4)



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INSERVICE TESTING PLAN VALVES

System HG-Cont. Combustible Gas
Page 1 of 2 Control

00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1HG001A	4	130-1	F7	2/A	GT	MO	C	FS, ST LT	Q RR	22	RV-19	A	Upsteam HG Stop (M-53) (See Note 4,6)
1HG001B	4	130-1	E7	2/A	GT	MO	C	FS, ST LT	Q RR	22	RV-19	A	Upsteam HG Stop (M-33) (See Note 4,6)
1HG002A	4	130-1	F7	2/A	GB	MO	C	FS, ST LT	Q RR	66	RV-19	A	Downsteam G Stop (M-53) (See Note 4)
1HG002B	4	130-1	E7	2/A	GB	MO	C	FS, ST LT	Q RR	66	RV-19	A	Downsteam HG Stop (M-33) (See Note 4)
1HG003	6	130-1	C6	2/B	GT	MO	O	FS, ST	Q	60	RV-19	A	Unit 1 Outlet to Unit 1 D/W
1HG005A	6	130-1	B7	2/A	GT	MO	C	FS, ST LT	Q RR	33	RV-19	A	Unit 1 Recombiner RTN Downstream stop (M-102) (See Note 4,6)
1HG005B	6	130-1	A7	2/A	GT	MO	C	FS, ST LT	Q RR	33	RV-19	A	Unit 2 Recombiner RTN downstream Stop (M-95) (See Note 4,6)
1HG006A	5	130-1	B6	2/A	GT	MO	C	FS, ST LT	Q RR	33	RV-19	A	Unit 1 Recombiner RTN Unstm Stop (M-102) (See Note 4)



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INSERVICE TESTING PLAN VALVES

System HG-Cont. Combustible Gas Control
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1HG006B	6	130-1	A6	2/A	GT	MO	C	FS,ST LT	Q RR	33	RV-19	A	Unit 2 Recombiner RTN Upstm Stop (M-95) (See Note 4)
1HG009	6	130-1	C6	2/B	GT	MO	C	FS,ST	Q	60		A	Unit 1 Outlet to Unit 2 D/W (See Note 4)



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INSERVICE TESTING PLAN VALVES

System HP-High Pressure Core Spray
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1E22-F001	14	95	A4	2/B	GT	MO	O	FS,ST	Q	140		A	HPCS Pump Suction Stop From CST
1E22-F002	24	95	B4	2/C	CV	-	C	E	Q			A	HPCS Pump Suction Stop From CST
1E22-F004	12	95	D6	1/A	GT	MO	C	FS,ST LT	Q RR	66	RV-19	A	HPCS Injection Line Stop (M11)(See Note 5,4)
1E22-F005	12	95	D7	1/AC	NSC	AO	C	E PIT LT	CS RR RR		RV-19 RV-35	A	HPCS Injection Line Test-able (M-11) (See Note 5,7,8)
1E22-F012	4	95	C3	2/A	GT	MO	C	FS,ST LT	Q RR	22	RV-19	A	HPCS Pump Minimum flow bypass line stop (See Note 4,6,8)
1E22-F014	1x2	95	B5	2/C	RV		C	RV	RR			A	HPCS Water Leg Discharge relief (See Note 2,4,8, 6)
1E22-F015	18	95	B6	2/A	GT	MO	C	FS,ST LT	Q RR	99	RV-19	A	HPCS Stop Pump Suction from Suppression Chamber (See Note 4,6, 11)



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INSERVICE TESTING PLAN VALVES

System HP-High Pres. Core Spray
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VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13
1E22-F016	24	95	B5	2/C	CV	-	C	E	RR		RV-10	A	HPCS Check Pump Suction from Suppression Chamber (See Note 1)
1E22-F024	16	95	C3	2/C	NSC	-	C	E	Q			A	HPCS Pump Discharge Check
1E22-F007	3/4	95	D4	2/C	NSC	-	O	E	Q			A	HPCS Water Leg Pump Discharge Check
1E22-F035	1x2	95	D2	2/C	RV	-	C	RV	RR			A	HPCS Discharge Line Relief (See Note 2)
1E22-F028	10	87-01	B6	3/C	NSC	-	C	E	Q			A	HPCS DLS Gen Cooling Water Discharge Check
1E22-F319	4	87-01	B6	3/B	GT	MO	C	FS	Q		RV-01	A	HPCS Diesel Cooling Water Strainer Bkswash Outlet Stp
1E22-F345	.75 x1.0	87-01	B4	3/C	RV	-	C	RV	RR			A	HPCS DG Cooler Inlet Relief (See Note 2)



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INSERVICE TESTING PLAN VALVES

System IN-Drywell Instr. Nitro.
Page 1 of 3

00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1IN001A	2	66-1	F6	2/A	GB	AO	0	FS,ST LT FST	RR RR RR	40	RV-12 RV-19	A	Drywell Suction Isolation Fail Close (See Note 1, 4,6)
1IN001B	2	66-1	F7	2/A	GB	AO	0	FS,ST LT FST	RR RR RR	40	RV-12 RV-19	A	Drywell Suction Isolation Fail Close (See Note 1, 4)
1IN017	1.5	66-1	B3	2/A	GB	AO	0	FS LT FST	RR RR RR		RV-12 RV-02 RV-19	A	Drywell Pneumatic-To Drywell Fail Close (See Note 1,4)
1IN074	1.5	66-1	E5	2/A	GB	AO	0	FS LT FST	RR RR RR		RV-02 RV-12 RV-19	A	Dryer Purging Valve Fail Close (See Note 1,4,6)
1IN075	1.5	66-1	E5	2/A	GB	AO	0	FS LT FST	RR RR RR		RV-02 RV-12 RV-19	A	Dryer Purging Valve Fail Close (See Note 1,4)
1IN045	1x2	66-7	E7	3/C	RV	-	C	RV	RR				Ventilation System
1IN046	1x2	66-7	E6	3/C	RV	-	C	RV	RR				Ventilation System



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INSERVICE TESTING PLAN VALVES

System IN-Drywell Instrument
Page 2 of 3 Nitrogen

00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
11021	.75	66-1	B5	2/A	GB	SO	0	FS FST LT	RR RR RR		RV-02 RV-12 RV-19	A	Tip Indexer Purge-Fail Close (See Note 1,4 6)
1B21-F024A	.75	66-2	F6	3/C	NSC	-	0	E	RR		RV-16	A	MSIV IN CHECK (See Note 1)
1B21-F024B	.75	66-2	F7	3/C	NSC	-	0	E	RR		RV-16	A	MSIV IN CHECK (See Note 1)
1B21-F024C	.75	66-2	F4	3/C	NSC	-	0	E	RR		RV-16	A	MSIV IN CHECK (See Note 1)
1B21-F024D	.75	66-2	F5	3/C	NSC	-	0	E	RR		RV-16	A	MSIV IN CHECK (See Note 1)
1B21-F040C	.50	66-2	B2	3/C	NSC	-	0	E	RR		RV-16	A	ADS IN CHECK (See Note 1)
1B21-F040D	.50	66-2	B4	3/C	NSC	-	0	E	RR		RV-16	A	ADS IN CHECK (See Note 1)
1B21-F040E	.50	66-2	B7	3/C	NSC	-	0	E	RR		RV-16	A	ADS IN CHECK (See Note 1)



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INSERVICE TESTING PLAN VALVES

System **IN-Drywell** Instrument
Page **3** of **3** Nitrogen

00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	PAID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1B21-F040R	.50 66-2 B8	3/C	NSC	-	0	E	RR	RR	RV-16	RV-16	A	ADS IN CHECK (See Note 1)	
1B21-F040S	.50 66-2 B6	3/C	NSC	-	0	E	RR	RR	RV-16	RV-16	A	ADS IN CHECK (See Note 1)	
1B21-F040U	.50 66-2 B3	3/C	NSC	-	0	E	RR	RR	RV-16	RV-16	A	ADS IN CHECK (See Note 1)	
1B21-F040V	.50 66-2 B4	3/C	NSC	-	0	E	RR	RR	RV-16	RV-16	A	ADS IN CHECK (See Note 1)	
11N043	1 66-7 D5	3/C	NSC	-	0	E	RR	RR	RV-12	RV-12	A	ADS Supply Check	
11N044	1 66-7 D8	3/C	NSC	-	0	E	RR	RR	RV-12	RV-12	A	ADS Supply Check	



Commonwealth Edison
LaSalle County Nuclear Station Unit 1

INSERVICE TESTING PLAN VALVES

System LP-Low Pres. Core Spray
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1E21-F001	24	94	B6	2/A	GT	MO	O	FS,ST LT	Q RR	132	RV-19	A	LPCS Suction From Suppression Pool Stop (M-68)(See Note 4,6,11)
1E21-F003	16	94	C2	2/C	NSC	-	C	E	Q			A	LPCS Pump Discharge Check
1E21-F005	12	94	D6	1/A	GT	MO	C	FS,ST LT	CS RR	20	RV-04 RV-19	A	LPCS Injection Line Out- board Stop (M-10) (See Note 1,5,4)
1E21-F006	12	94	C6	1/AC	NSC	AO	C	E PIT LT	CS RR RR		RV-21 RV-19	A	LPCS Injection Line Testable Check Valve (M-10)(See Note 1,5,7)
1E21-F011	4	94	C3	2/A	GT	MO	O	FS,ST LT	Q RR	4	RV-19	A	LPCS Min Flow Bypass Stp (See Note 4,6,8)
1E21-F018	3x4	94	D5	2/C	RV	-	C	RV	RR			A	LPCS Pump Discharge Relief (See Note 2,4,6,8)
1E21-F031	1x2	94	B4	2/C	RV	-	C	RV	RR			A	LPCS Pump Suction Relief (See Note 2,4,6,8)



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LaSalle County Nuclear Station Unit 1

INSERVICE TESTING PLAN VALVES

System MC-Clean Condens. Storage
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1MC027	3	75-02	B6	2/A	GT	M	LC	LT	RR	RV-19 RV-37	P	(M-37) (See Note 13)	
1MC033	3	75-02	B6	2/A	GT	M	LC	LT	RR	RV-19 RV-37	P	(M-37) (See Note 13)	



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IN SERVICE TESTING PLAN VALVES

System MS-MAIN STEAM
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VALVE NO.		SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13	
1B21-F013A	8x10	55-1	D3	1/C	SRV	AD	C	RV	RR		RV-23	A		D Main Steam Line Safety/Relief Valve (See Note 2)
1B21-F013B	8x10	55-1	C3	1/C	SRV	AD	C	RV	RR		RV-23	A		A Main Steam Line Safety/Relief Valve (See Note 2)
1B21-F013C	8x10	55-1	E2	1/BC	SRV	AD	C	RV E	RR RR		RV-23 RV-33	A		C Main Steam Line Safety/Relief Valve (ADS) (See Note 2)
1B21-F013D	8x10	55-1	B2	1/BC	SRV	AD	C	RV E	RR RR		RV-23 RV-33	A		B Main Steam Line Safety/Relief Valve (ADS) (See Note 2)
1B21-F013E	8x10	55-1	E3	1/BC	SRV	AD	C	RV E	RR RR		RV-23 RV-23	A		C Main Steam Line Safety/Relief Valve (ADS) (See Note 2)



Commonwealth Edison
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INSERVICE TESTING PLAN
VALVES

System MS-MAIN STEAM
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VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13
1B21-F013F	8x10	55-1	B3	1/C	SRV	AO	C	RV	RR		RV-23	A	B Main Steam Line Safety/Relief Valve (See Note 2)
1B21-F013G	8x10	55-1	D6	1/C	SRV	AO	C	RV	RR		RV-23	A	D Main Steam Line Safety/Relief Valve (See Note 2)
1B21-F013H	8x10	55-1	D4	1/C	SRV	AO	C	RV	RR		RV-23	A	D Main Steam Line Safety/Relief Valve (See Note 2)
1B21-F013J	8x10	55-1	C4	1/C	SRV	AO	C	RV	RR		RV-23	A	A Main Steam Line Safety Relief Valve (See Note 2)
1B21-F013K	8x10	55-1	D4	1/C	SRV	AO	C	RV	RR		RV-23	A	B Main Steam Line Safety Relief Valve (See Note 2)



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INSERVICE TESTING PLAN VALVES

System MS-MAIN STEAM
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1B21-F013L	8x10	55-1	E6	1/C	SRV	AO	C	RV	RR		RV-23	A	C Main Steam Line Safety/Relief Valve (See Note 2)
1B21-F013M	8x10	55-1	B7	1/C	SRV	AO	C	RV	RR		RV-23	A	B Main Steam Line Safety/Relief Valve (See Note 2)
1B21-F013N	8x10	55-1	E7	1/C	SRV	AO	C	RV	RR		RV-23	A	C Main Steam Line Safety/Relief Valve (See Note 2)
1B21-F013P	8x10	55-1	C6	1/C	SRV	AO	C	RV	RR		RV-23	A	A Main Steam Line Safety/Relief Valve (See Note 2)
1B21-F013R	8x10	55-1	E5	1/BC	SRV	AO	C	RV E	RR RR		RV-23 RV-33	A	C Main Steam Line Safety/Relief Valve (ADS)(See Note 2)



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INSERVICE TESTING PLAN VALVES

System MS-MAIN STEAM
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1B21-F013S	8x10	55-1	B6	1/BC	SRV	AO	C	RV E	RR RR		RV-23 RV-33	A	B Main Steam Line Safety/Relief Valve (ADS)(See Note 2)
1B21-F013 J	8x10	55-1	D7	1/BC	SRV	AO	C	RV E	RR RR		RV-23 RV-33	A	D Main Steam Line Safety/Relief Valve (ADS)(See Note 2)
1B21-F013V	8x10	55-1	C7	1/BC	SRV	AO	C	RV E	RR RR		RV-23 RV-33	A	A Main Steam Line Safety/Relief Valve (ADS)(See Note 2)
1B21-F016	3	55-7	B7	1/A	GT	MO	O	FS,ST LT PIT	Q RR RR	15	RV-19	A	Main Steam Inboard Drain Line Isolation Valve(See Note 4,6)
1B21-F019	3	55-7	B6	1/A	GT	MO	O	FS,ST LT PIT	Q RR RR	15	RV-19	A	Outboard Drain Line Main Steam Isolation Valve(See Note 4)



Commonwealth Edison
LaSalle County Nuclear Station Unit 1

INSERVICE TESTING PLAN VALVES

System MS-MAIN STEAM
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	PAID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1B21-F022A	26	55-2	C6	1/A	CB	A0	0	PS FS,ST FST PIT LT	Q CS CS RR RR	3-5	RV-22	A	A MSIV Inboard (See Note 1,4,6,12)
1B21-F022B	26	55-2	B6	1/A	CB	A0	0	PS FS,ST FST PIT LT	Q CS CS RR RR	3-5	RV-19 RV-22	A	B MSIV Inboard (See Note 1,4,12,6)
1B21-F022C	26	55-2	F6	1/A	CB	A0	0	PS FS,ST FST PIT LT	Q CS CS RR RR	3-5	RV-19 RV-22	A	C MSIV Inboard (See Note 1,4,12,6)
1B21-F022D	26	55-2	D6	1/A	CB	A0	0	PS FS,ST FST PIT LT	Q CS CS RR RR	3-5	RV-19 RV-22	A	D MSIV Inboard (See Note 1,4,12,6)
1B21-F028A	26	55-2	C4	1/A	CB	A0	0	PS FS,ST FST PIT LT	Q CS CS RR RR	3-5	RV-19 RV-22	A	A MSIV Outboard (See Note 1,4,12)



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INSERVICE TESTING PLAN VALVES

System **MS-MAIN STEAM**
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&IC NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1B21-F028B	26	55-2	B4	1/A	GB	AO	O	PS FS,ST FST PIT LT	Q CS CS RR RR	3-5	RV-22	A	B MSIV Outboard (See Note 1,4,12)
1B21-F028C	26	55-2	F4	1/A	GB	AO	O	PS FS,ST FST PIT LT	Q CS CS RR RR	3-5	RV-22	A	C MSIV Outboard (See Note 1,4,12)
1B21-F028D	26	55-2	D4	1/A	GB	AO	O	PS FS,ST FST PIT LT	Q CS CS RR RR	3-5	RV-22	A	D MSIV Outboard (See Note 1,4,12)
1B21-F067A	1.5	55-7	E6	1/A	PG	MD	C	FS,ST LT	Q RR	23	RV-19	A	A MSIV Outboard Drain Isolation (See Note 4,12)
1B21-F067B	1.5	55-7	E5	1/A	PG	MD	C	FS,ST LT	Q RR	23	RV-19	A	B MSIV Outboard Drain Isolation (See Note 4,12)
1B21-F067C	1.5	55-7	E7	1/A	PG	MD	C	FS,ST LT	Q RR	23	RV-19	A	C MSIV Outboard Drain Isolation (See Note 4,12)
1B21-F067D	1.5	55-7	E6	1/A	PG	MD	C	FS,ST LT	Q RR	23	RV-19	A	D MSIV Outboard Drain Isolation (See Note 4,12)



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INSERVICE TESTING PLAN VALVES

System MS-MAIN STEAM
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1E32-F001A	2.5	55-8	F3	1/A	GT	MO	C	FS,ST LT	CS RR	13.75	RV-11 RV-19	A	MS Loop A Bleed Valve Outboard(See Note 1,4,12)
1E32-F001E	2.5	55-8	E3	1/A	GT	MO	C	FS,ST LT	CS RR	13.75	RV-11 RV-19	A	MS Loop B Bleed Valve Outboard(See Note 1,4,12)
1E32-F001J	2.5	55-8	C3	1/A	GT	MO	C	FS,ST LT	CS RR	13.75	RV-11 RV-19	A	MS Loop C Bleed Valve Outboard(See Note 1,4,12)
1E32-F001N	2.5	55-8	C3	1/A	GT	MO	C	FS,ST LT	CS RR	13.75	RV-11 RV-19	A	MS Loop D Bleed Valve Outboard(See Note 1,4,12)
1E32-F003A	2	55-8	F4	2/B	GB	MO	C	FS,ST	CS	60	RV-11	A	MS Loop A Bypass to Steam tunnel (See Note 1)
1E32-F003E	2	55-8	D4	2/B	GB	MO	C	FS,ST	CS	60	RV-11	A	MS Loop B Bypass to Steam tunnel (See Note 1)
1E32-F003J	2	55-8	C4	2/B	GB	MO	C	FS,ST	CS	60	RV-11	A	MS Loop C Bypass to Steam tunnel (See Note 1)
1E32-F003N	2.5	55-8	B4	2/B	GT	MO	C	FS,ST	CS	25	RV-11	A	MS Loop D Bypass to Steam tunnel (See Note 1)
1E32-F002A	2.5	55-8	F3	2/B	GT	MO	C	FS,ST	CS	25	RV-11	A	MS Loop A Bleed Valve (See Note 1)



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INSERVICE TESTING PLAN VALVES

MS-MAIN STEAM
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Page

VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13
1E32-F002E	2.5	55-8	E3	2/B	GT	MD	C	FS,ST	CS	25	RV-11	A	MS Loop B Bleed Valve (See Note 1)
1E32-F002J	2.5	55-8	D3	2/B	GT	MD	C	FS,ST	CS	25	RV-11	A	MS Loop C Bleed Valve (See Note 1)
1E32-F002N	2.5	55-8	C3	2/B	GT	MD	C	FS,ST	CS	25	RV-11	A	MS Loop D Bleed Valve (See Note 1)
1E32-F006	2.5	55-8	B3	2/B	GT	MD	C	FS,ST	CS	25	RV-11	A	Bleed Valve-Steam Tunnel (See Note 1)
1E32-F007	2.5	55-8	B4	2/B	GT	MD	C	FS,ST	CS	25	RV-11	A	Bleed Valve-Steam Tunnel (See Note 1)
1E32-F008	2.0	55-8	A4	2/B	GB	MD	C	FS,ST	CS	60	RV-11	A	Discharge to Steam Tunnel (See Note 1)
1E32-F009	2.0	55-8	A4	2/B	GB	MD	C	FS,ST	CS	60	RV-11	A	Discharge to Steam Tunnel (See Note 1)



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INSERVICE TESTING PLAN
VALVES

System MS-MAIN STEAM
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VALVE NO.		SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13	
1B21-F037A1	12	92-1	C4	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037A2	12	92-1	C4	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037B1	12	92-1	C4	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037B2	12	92-1	C4	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037C1	12	92-1	C4	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037C2	12	92-1	C4	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037D1	12	92-1	C4	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037D2	12	92-1	C4	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037E1	12	92-1	C4	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037E2	12	92-1	C4	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037F1	12	92-1	C4	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037F2	12	92-1	C4	3/c	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	



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INSERVICE TESTING PLAN VALVES

System MS-MAIN STEAM
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VALVE NO.		SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13	
1B21-F037G1	12	92-1	C4	3/C	CV	-	C	E	CS		RV-28	A		Vacuum Breakers
1B21-F037G2	12	92-1	C4	3/C	CV	-	C	E	CS		RV-28	A		Vacuum Breakers
1B21-F037K1	12	92-1	C5	3/C	CV	-	C	E	CS		RV-28	A		Vacuum Breakers
1B21-F037K2	12	92-1	C5	3/C	CV	-	C	E	CS		RV-28	A		Vacuum Breakers
1B21-F037L1	12	92-1	C5	3/C	CV	-	C	E	CS		RV-28	A		Vacuum Breakers
1B21-F037L2	12	92-1	C5	3/C	CV	-	C	E	CS		RV-28	A		Vacuum Breakers
1B21-F037P1	12	92-1	C5	3/C	CV	-	C	E	CS		RV-28	A		Vacuum Breakers
1B21-F037P2	12	92-1	C5	3/C	CV	-	C	E	CS		RV-28	A		Vacuum Breakers
1B21-F037R1	12	92-1	C5	3/C	CV	-	C	E	CS		RV-28	A		Vacuum Breakers
1B21-F037R2	12	92-1	C5	3/C	CV	-	C	E	CS		RV-28	A		Vacuum Breakers
1B21-F037S1	12	92-1	C5	3/C	CV	-	C	E	CS		RV-28	A		Vacuum Breakers
1B21-F037S2	12	92-1	C5	3/c	CV	-	C	E	CS		RV-28	A		Vacuum Breakers



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INSERVICE TESTING PLAN VALVES

System MS-MIN STEAM
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VALVE NO.		SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13	
1B21-F037V1	12	92-1	C5	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037V2	12	92-1	C5	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037U1	12	92-1	C5	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037U2	12	92-1	C5	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037H1	12	92-1	C6	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037H2	12	92-1	C6	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037J1	12	92-1	C6	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037J2	12	92-1	C6	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037M1	12	92-1	C6	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037M2	12	92-1	C6	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037N1	12	92-1	C6	3/C	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	
1B21-F037N2	12	92-1	C6	3/c	CV	-	C	E	CS		RV-28	A	Vacuum Breakers	



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INSERVICE TESTING PLAN VALVES

System NB-Nuclear Boiler
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VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13
1B21-F346	.75	93-3	B6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F348	.75	93-3	A6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F350	.75	93-3	A6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F344	.75	93-3	B3	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F353	.75	93-4	A5	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F355	.75	93-4	B5	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F357	.75	93-4	D5	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F359	.75	93-4	C5	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F361	.75	93-4	D5	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F363	.75	93-4	C5	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F365	.75	93-4	E5	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F367	.75	93-4	A5	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F370	.75	93-5	A6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F372	.75	93-5	C6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10



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INSERVICE TESTING PLAN VALVES

System NB-Nuclear Boiler
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VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13
1B21-F374	.75	93-5	D6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F376	.75	93-5	B6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F378	.75	93-5	E6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F380	.75	93-5	A6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F382	.75	93-5	F6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F437	.75	93-3	E3	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F439	.85	93-3	E3	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F441	.75	93-3	D3	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F443	.75	93-3	D3	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F445A	.75	93-3	D3	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F445B	.75	93-3	D3	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F447	.75	93-3	C3	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F449	.75	93-3	C3	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F451	.75	93-3	C3	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10



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INSERVICE TESTING PLAN VALVES

System NB-Nuclear Boiler
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1B21-F453	.75	93-3	C3	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F455A	.75	93-3	B3	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F445B	.75	93-3	B3	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F457	.75	93-3	E6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F459	.75	93-3	E6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F461	.75	93-3	D6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F463	.75	93-3	D6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F465A	.75	93-3	D6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F465B	.75	93-3	D6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F467	.75	93-3	C6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F469	.75	93-3	C6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F471	.75	93-3	C6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F473	.75	93-3	C6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F475A	.75	93-3	B6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10
1B21-F475B	.75	93-3	B6	2/AC	EFC		0	E,LT	RR		RV-34	A	See Note 10



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INSERVICE TESTING PLAN VALVES

System 1 of 1 PC-Primary Containment Vent and Purge
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	PAID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1PC001A	24	92-2	D6	2/C	CV	-	C	E	Q			A	Vacuum Breakers
1PC001B	24	92-2	E6	2/C	CV	-	C	E	Q			A	Vacuum Breakers
1PC001C	24	92-2	D3	2/C	CV	-	C	E	Q			A	Vacuum Breakers
1PC001D	24	92-2	E3	2/C	CV	-	C	E	Q			A	Vacuum Breakers



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INSERVICE TESTING PLAN VALVES

System RD-CONTROL ROD DRIVE
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VALVE NO.		SIZE		PAID NO.		COORDINATES		CLASS/CATEGORY		VALVE TYPE		ACTUATOR TYPE		VALVE POSITION		TEST		TEST SCHEDULE		MAX STROKE TIME		RELIEF REQUEST		REMARKS	
00	01	02	03	04	05	06	07	08	09	10	11	12	13												
1C11-F010	1	100-2	C3	2/B	GT	A0	0	FS FST	Q Q					RV-26	A	CRD Scram Discharge Instrument Volume Vent Valve (Fail Close)									
1C11-F011	2	100-2	B1	2/B	GT	A0	0	FS FST	Q Q					RV-26	A	CRD Scram Discharge Instrument Volume Drain (Fail Close)									
1C11-0001-126 (185)		100-3	D6	NC/B	GT	0	0	FS FST	RV-30 RV-30					RV-30	A	Scram Testing									
1C11-0001-127 (185)		100-3	E3	NC/B	GT	0	0	FS FST	RV-30 RV-30					RV-30	A	Scram Testing									
1C11-0001-114 (185)		100-3	E3	NC/C	CV	0	0	E	RV-30					RV-30	A	Scram Testing									



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INSERVICE TESTING PLAN VALVES

RE-React. Bldg Floor Drn.
System RE-React. Bldg Equip Drn.
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1RE024	2	91-4	B4	2/A	CNV	AO	C	FS,ST LT	Q RR	20	RV-19	A	(M-96) Drywell Equipment Drain sump suction.(See Note 4,6)
1RE025	2	91-4	C4	2/A	CNV	AO	C	FS,ST LT	Q RR	20	RV-19	A	(M-96) Drywell Equipment Drain sump suction.(See Note 4)
1RE026	1	91-4	D5	2/A	CNV	AO	C	FS,ST LT	Q RR	20	RV-19	A	(M-97) Gland Seal Reservoir Drywell Equipment (See Note 4)
1RE029	1	91-4	D5	2/A	CNV	AO	C	FS,ST LT	Q RR	20	RV-19	A	(M-97) Gland Seal Reservoir Drywell Equipment (See Note 4)
1RF012	2	91-4	A4	2/A	CNV	AO	C	FS,ST LT	Q RR	20	RV-19	A	Floor Drain (Drywell) Sump Suction (M-98) F.C. (See Note 4)
1RF013	2	91-4	B4	2/A	CNV	AO	C	FS,ST LT	Q RR	20	RV-19	A	Drywell Floor Sump Suction (M-98) F.C. (Sec Note 4)



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INSERVICE TESTING PLAN VALVES

System RH-RESIDUAL HEAT REMOVAL
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VALVE NO.		SIZE	P&ID NO.	COORDINATES		CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13		
1E12-F003A	18	96-4	C1	2/B	GT	MO	O	FS,ST	Q	180			A		RHR Heat Exchanger Outlet Stop.
1E12-F003B	18	96-4	C8	2/B	GT	MO	O	FS,ST	Q	180			A		RHR Heat Exchanger Outlet Stop.
1E12-F004A	24	96-1	A7	2/A	GT	MO	O	FS,ST LT	Q RR	132	RV-19		A		RHR Outboard suction from Suppression Pool (M-70)(See Note 4,6,11)
1E12-F004B	24	96-2	A7	2/A	GT	MO	O	FS,ST LT	Q RR	132	RV-19		A		RHR Outboard suction from Suppression Pool (M-72)(See Note 4,6,11)
1E12-F004C	24	96-3	A7	2/A	GT	MO	O	FS,ST LT	Q RR	132	RV-19		A		RHR Outboard suction from Suppression Pool (M-71)(See Note 4,6,11)
1E12-F005	1x2	96-3	C5	2/C	RV	SP	C	RV	RR				A		RHR Shutdown suction cooling Suction HDR Relief(See Note 2,6,4,8)
1E12-F006A	18	96-1	A7	2/B	GT	MO	C	FS,ST	Q	180			A		Pump Suction Stop From Shutdown Cooling
1E12-F006B	18	96-2	B6	2/B	GT	MO	C	FS,ST	Q	180			A		Pump Suction Stop From Shutdown Cooling



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INSERVICE TESTING PLAN VALVES

System RH-Residual Heat Removal
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1E12-F008	20	96-3	D6	1/A	GT	MO	C	FS,ST LT	CS RR	41	RV-04 RV-19	A	RHR Shutdown Cooling Pump 1A Suction HDR Outboard Isolation (M-7)(See Note 1,5,4)
1E12-F009	20	96-3	C7	1/A	GT	MO	C	FS,ST LT PIT	CS RR RR	41	RV-04 RV-19	A	RHR Shutdown Cooling HDR Inboard Isolation (M-7)(See Note 1,5,4)
1E12-F011A	4	96-4	A3	2/A	GT	MO	C	FS,ST LT	Q RR	22	RV-19	A	RHR Heat Exchanger Steam Condensing Stop to Supp. Chamber (See Note 4,8,6)
1E12-F011B	4	96-4	A6	2/A	GT	MO	C	FS,ST LT	Q RR	22	RV-19	A	RHR Heat Exchanger Steam Condensing Stop to Supp. Chamber (See Note 4,8,6)
1E12-F016A	16	96-1	E5	2/A	GT	MO	C	FS,ST LT	Q RR	88	RV-19	A	RHR Containment Spray Upstream Isolation (M-18) (See Note 4)
1E12-F016B	16	96-2	F5	2/A	GT	MO	C	FS,ST LT	Q RR	88	RV-19	A	RHR Containment Spray Upstream Isolation (M-19) (See Note 4)



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INSERVICE TESTING PLAN VALVES

System RH-RESIDUAL HEAT REMOVAL
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1E12-F017A	16	96-1	E7	2/A	GT	MO	C	FS,ST LT	Q RR	88	RV-19	A	RHR Containment Spray Downstream Isolation (M-18)(See Note 4,6)
1E12-F017B	16	96-2	F6	2/A	GT	MO	C	FS,ST LT	Q RR	88	RV-19	A	RHR Containment Spray Downstream Isolation (M-19) (See Note 4,6)
1E12-F025A	1x2	96-1	E3	2/C	RV	SP	C	RV	RR			A	RHR Pump A Discharge Header Relief (M-85) (See Note 2,4,6,8)
1E12-F025B	1x2	96-2	D5	2/C	RV	SP	C	RV	RR			A	RHR Pump B Discharge Header Relief (M-86) (See Note 2,4,6,8)
1E12-F025C	1x2	96-3	C2	2/C	RV	SP	C	RV	RR			A	RHR Pump C Discharge Header Relief (M-87) (See Note 2,4,6,8)
1E12-F026A	4	96-4	B4	2/B	GT	MO	C	FS,ST	Q	40		A	RHR Heat Exchanger Steam Condensing Outlet Stop to RCIC Pump Suction



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INSERVICE TESTING PLAN VALVES

System RH-Residual Heat Removal
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1E12-F026B	4	96-4	B6	2/B	GT	MO	C	FS,ST	Q	40		A	RHR Heat Exchanger Steam Condensing Outlet Stop to RCIC Pump Suction
1E12-F027A	4	96-1	C5	2/A	GT	MO	C	FS,ST LT	Q RR	30	RV-19	A	RHR Suppression Chamber Spray Isolation (M-73) (See Note 4,6,8)
1E12-F027B	4	96-2	C4	2/A	GT	MO	C	FS,ST LT	Q RR	30	RV-19	A	RHR Suppression Chamber Spray Isolation (M-74) (See Note 4,6,8)
1E12-F030	1x2	96-2	B4	2/C	RV	SP	C	RV	RR			A	RHR System Drain Header Relief (M-91) (See Note 2,4,6,8)
1E12-F031A	18	96-1	A4	2/C	CV	-	C	E	Q			A	RHR Pump A Discharge Chk
1E12-F031B	18	96-2	C3	2/C	CV	-	C	E	Q			A	RHR Pump B Discharge Chk
1E12-F031C	18	96-3	B4	2/C	CV	-	C	E	Q			A	RHR Pump C Discharge Chk
1E12-F041A	12	96-1	D7	1/AC	NSC	AO	C	E PIT LT	CS RR RR		RV-21 RV-19	A	RHR LPCI Testable Chk Inboard Stop (M-13) (See Note 1,5,7,8)



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INSERVICE TESTING PLAN VALVES

System RH-RESIDUAL HEAT REMOVAL
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VALVE NO.		SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13	
1E12-F041B	12	96-2	E7	1/AC	NSC	AO	C	E PIT LT	CS RR RR		RV-21 RV-19	A		RHR LPCI Testable Chk Inboard Stop (M-14) (See Note 1,5,7,8)
1E12-F041C	12	96-3	E7	1/AC	NSC	AO	C	E PIT LT	CS RR RR		RV-21 RV-19	A		RHR LPCI Testable Chk Inboard Stop (M-12) (See Note 1,5,7,8)
1E12-F042A	12	96-1	D5	1/A	GT	MO	C	FS,ST LT	CS RR	20	RV-27 RV-19	A		RHR LPCI Injection Line Outboard Stop (M-13) (See Note 1,5,4)
1E12-F042B	12	96-2	E6	1/A	GT	MO	C	FS,ST LT	CS RR	20	RV-27 RV-19	A		RHR LPCI Injection Line Outboard Stop (M-14) (See Note 1,5,4)
1E12-F042C	12	96-3	E6	1/A	GT	MO	C	FS,ST LT	CS RR	20	RV-27 RV-19	A		RHR LPCI Injection Line Outboard Stop (M-12) (See Note 1,5,4)
1E12-F046A	8	96-1	B5	2/C	CV	-	C	E	Q			A		RHR Pump Minimum Bypass Check
1E12-F046B	8	96-2	C2	2/C	CV	-	C	E	Q			A		RHR Pump Minimum Flow Bypass Check



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INSERVICE TESTING PLAN VALVES

System RH-RESIDUAL HEAT REMOVAL
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1E12-F046C	8	96-3	B3	2/C	CV	-	C	E	Q			A	RHR Pump Minimum Flow Bypass Check
1E12-F047A	18	96-4	E4	2/B	GT	MO	O	FS,ST	Q	180		A	RHR Heat Exchanger Inlet Stop
1E12-F047B	18	96-4	E5	2/B	GT	MO	O	FS,ST	Q	180		A	RHR Heat Exchanger Inlet Stop
1E12-F048A	18	96-4	D1	2/B	GB	MO	C	FS,ST	Q	270		A	RHR Heat Exchanger Bypass Stop
1E12-F048B	18	96-4	D8	2/B	GB	MO	C	FS,ST	Q	270		A	RHR Heat Exchanger Bypass Stop
1E12-F049A	3	96-4	C1	2/B	GT	MO	C	FS,ST	Q	30		A	RHR Heat Exchanger Blowdown Upstream Isolation to RB EDT
1E12-F049B	3	96-4	C8	2/B	GT	MO	C	FS,ST	Q	30		A	Upstream Isolation to RB EDT
1E12-F050A	12	96-1	D7	1/AC	NSC	AO	O	E LT	CS RR		RV-04 RV-19	A	RHR Shutdown Cooling Testable Check (M-8) (See Note 1,5,7)



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INSERVICE TESTING PLAN VALVES

System RH-Residual Heat Removal
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VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13
1E12-F050B	12	96-2	D7	1/AC	NSC	AO	O	E LT	CS RR		RV-04 RV-19	A	RHR Shutdown Cooling Testable Chk (M-9) (See Note 1,5,7)
1E12-F052A	10	96-4	C4	2/B	GB	MO	C	FS,ST	Q	300		A	RHR Heat Exchanger Steam Inlet Stop
1E12-F052B	10	96-4	C5	2/B	GB	MO	C	FS,ST	Q	300		A	RHR Heat Exchanger Steam Inlet Stop
1E12-F053A	12	96-1	D5	1/A	GB	MO	C	FS,ST LT	CS RR	29	RV-04 RV-19	A	RHR Shutdown Cooling Discharge Isolation (M-8) (See Note 1,5,4)
1E12-F053B	12	96-2	D6	1/A	GB	MO	C	FS,ST LT	CS RR	29	RV-04 RV-19	A	RHR Shutdown Cooling Discharge Isolation (M-9) (See Note 1,5,4)
1E12-F055A	4x6	96-4	D3	2/C	RV	SP	C	RV	RR			A	RHR Heat Exchanger Steam Inlet Header Relief (M-88) (See Note 2,4,6,8)
1E12-F073A	.75	96-4	E3	2/A	GB	MO	C	LT	RR		RV-19	P	RHR Heat Exchanger Vent (See Note 4,8,6)
1E12-F073B	.75	96-4	E6	2/A	GB	MO	C	LT	RR		RV-19	P	RHR Heat Exchanger Vent (See Note 4,8,6)



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INSERVICE TESTING PLAN VALVES

System RH-Residual Heat Removal
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1E12-F055B	4x6	96-4	D5	2/C	RV	SP	C	RV	RR			A	RHR Heat Exchanger Steam Inlet Header Relief (M-88) (See Note 2,4,6,8)
1E12-F087A	10	96-4	C4	2/B	GB	MO	C	FS,ST	Q	300		A	RHR Heat Exchanger Steam Inlet PCV Bypass Stop
1E12-F087B	10	96-4	C5	2/B	GB	MO	C	FS,ST	Q	300		A	RHR Heat Exchanger Steam Inlet PCV Bypass Stop
1E12-F088A	1x2	96-1	A6	2/C	RV	-	C	RV	RR			A	RHR Pump Suction HDR Relief (See Note 2,4,8)
1E12-F088B	1x2	96-2	B5	2/C	RV	-	C	RV	RR			A	RHR Pump Suction HDR Relief (See Note 2,4,8)
1E12-F088C	1x2	96-3	B6	2/C	RV	-	C	RV	RR			A	RHR Pump Suction HDR Relief (See Note 2,4,8,6)
1E12-F311A	.75 x 1	96-4	D2	2/C	RV	SP	C	RV	RR			A	RHR Heat Exchanger Shell Side Relief (M-88, M89) (See Note 2,4,6,8)
1E12-F311B	.75 x 1	96-4	D6	2/C	RV	SP	C	RV	RR			A	RHR Heat Exchanger Shell Side Relief (M-88, M89) (See Note 2,4,6,8)



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System RH-Residual Heat Removal
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VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13
1E12-F312A	1.5	96-1	D2	2/B	GB	MO	C	FS,ST	Q	45		A	RHR Heat Exchanger to H2 Recombiner #1
1E12-F312B	1.5	96-2	E2	2/B	GB	MO	C	FS,ST	Q	45		A	RHR Heat Exchanger to H2 Recombiner #2
1E12-F064A	4	96-1	B5	2/A	GT	MO	O	FS,ST LT	Q RR	22	RV-19	A	RHR Pump 1A Main Flow Bypass (See Note 4,6,8)
1E12-F064B	4	96-2	C3	2/A	GT	MO	O	FS,ST LT	Q RR	22	RV-19	A	RHR Pump 1B Main Flow Bypass (See Note 4,6,8)
1E12-F064C	4	96-3	B4	2/A	GT	MO	O	FS,ST LT	Q RR	22	RV-19	A	RHR Pump 1C Main Flow Bypass (See Note 4,6,8)
1E12-F084A	.75	96-1	B3	2/C	CV	-	C	E	Q			A	From LPCS Water Leg Pump to RHR 1A Discharge
1E12-F084B	.75	96-4	E5	2/C	CV	-	C	E	Q			A	From RHR Water Leg Pump to RHR 1B Discharge
1E12-F084C	.75	96-3	A7	2/C	CV	-	C	E	Q			A	From RHR Water Leg Pump to RHR 1C Discharge
1E12-F068A	20	87-02	B3	3/B	GT	MO	C	FS,ST	Q	200		A	RHR Heat Exchanger Service Water Outlet Stop



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INSERVICE TESTING PLAN VALVES

System RH-Residual Heat Removal
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VALVE NO.		SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13	
1E12-F068B	20	87-01	F2	3/B	GT	MO	C	FS,ST	Q	200		A		RHR Heat Exchanger Service Water Outlet Stop
1E12-F331A	16	87-02	B6	3/C	NSC	-	C	E	Q			A		RHR Service Water Pump 1A Discharge Check
1E12-F331B	16	87-02	B6	3/C	NSC	-	C	E	Q			A		RHR Service Water Pump 1B Discharge Check
1E12-F331C	16	87-01	E6	3/C	NSC	-	C	E	Q			A		RHR Service Water Pump 1C Discharge Check
1E12-F331D	16	87-01	F6	3/C	NSC	-	C	E	Q			A		RHR Service Water Pump 1D Discharge Check
1E12-F336A	4	87-02	A5	3/B	GT	MO	C	FS	Q		RV-01	A		RHR Service Water Pump Strainer 1A Backwash Outlet Stop
1E12-F336B	4	87-01	E5	3/B	GT	MO	C	FS	Q		RV-01	A		RHR Service Water Pump Strainer 1B Backwash Outlet Stop
1E12-F313A	3x4	91-3	C4	2/C	RV	-	C	RV	RR			A		RHR Heat Exchanger Relief (See Note 2)



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INSERVICE TESTING PLAN VALVES

System RH-Residual Heat Removal
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1E12-F313B	3x4	91-3	C3	2/C	RV	-	C	RV	RR			A	RHR Heat Exchange Relief (See Note 2)
1E12-F023	6	96-1	F6	1/A	GB	MO	C	FS,ST LT	CS RR	90	RV-04 RV-19	A	RHR to Head Spray (See Note 1,4)
1E12-F024A	18	96-1	E2 D2	2/A	GB	MO	C	FS,ST LT	Q RR	297	RV-19	A	RHR Test Line for Suppression Pool Cooling (See Note 4,6,8)
1E12-F042B	18	96-2	E2	2/A	GB	MO	C	FS,ST LT	Q RR	297	RV-19	A	RHR Test Line for Suppression Pool Cooling (See Note 4,6,8)



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INSERVICE TESTING PLAN VALVES

System RI-Reactor Core Isolation Coolant
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1E51-F010	8	101-2	A4	2/B	GT	MO	O	FS,ST	Q	80		A	Suction from CST Downstream Stop
1E51-F011	8	101-2	B3	2/C	CV	-	C	E	Q			A	Suction from CST Downstream Check
1E51-F008	4	101-1	E7	1/A	GT	MO	O	FS,ST LT	CS RR	20	RV-31 RV-19	A	Steam Supply Outboard Isolation (M-15) (See Note 1,4)
1E51-F013	6	101-2	C7	1/A	GT	MO	C	FS,ST LT	CS RR	15	RV-05 RV-19	A	Injection Stop (M-29) (See Note 1,4)
1E51-F017	.75 x1.0	101-2	B2	2/C	RV	SP	C	RV	RR			A	Pump Suction Relief (See Note 2)
1E51-F018	1.5 x3.0	101-2	F3	2/C	RV	SP	C	RV	RR			A	Turbine Lube Oil Cooler Inlet Relief (See Note 2)
1E51-F019	2	101-2	B5	2/A	GB	MO	C	FS,ST LT	Q RR	7	RV-19	A	Minimum Flow Bypass Stop (See Note 4,6,8)
1E51-F028	1.25	101-1	B6	2/C	NSC	-	C	E	Q			A	Barometric Condenser Vacuum Pump Discharge (M-81)(See Note 4)
1E51-F030	8	101-2	B6	2/C	CV	-	C	PS E	Q RR		RV-36	A	Pump Suction From Suppression Chamber



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INSERVICE TESTING PLAN VALVES

System RI-Reactor Core Isolation Coolant
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VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13
1E51-F031	8	101-2	B7	2/A	GT	MO	C	FS,ST LT	Q RR	44	RV-19	A	Pump Suction from Suppression Chamber (See Note 4,6,11)
1E12-F036A	4x6	101-2	C6	2/C	RV	SP	C	RV	RR			A	RCIC Safety Relief Valve Discharge Condensate (M-101) (See Note 2)
1E12-F036B	4x6	101-2	B3	2/C	RV	SP	C	RV	RR			A	RCIC Safety Relief Valve Discharge Condensate (M-92) (See Note 2)
1E51-F040	10	101-1	B7	2/C	CV	-	C	E	Q			A	Turbine Exhaust Check (M-76) (See Note 4)
1E51-F045	4	101-1	D5	2/B	GB	MO	C	FS,ST	Q	120		A	Turbine Exhaust Supply Stop
1E51-F046	2	101-2	D3	2/B	GB	MO	C	FS,ST	Q	60		A	Turbine Lube Oil Cooler Supply Stop
1E51-F047	2	101-1	B6	2/C	CV	-	C	E	Q			A	RHR Condensate Pump Discharge Check
1E51-F061	.75	101-2	A3	2/C	CV	-	C	E	Q			A	Water Leg Pump Discharge Check



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INSERVICE TESTING PLAN VALVES

System RI-Reactor Core Isolation Coolant
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VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13
1E51-F063	10	101-1	E8	1/A	GT	MO	O	FS,ST LT PIT	CS RR RR	15	RV-31 RV-19	A	Steam Supply Inboard Isolation (M-15) (See Note 1,4,6)
1E51-F064	10	101-1	E7	1/A	GT	MO	C	FS,ST LT	CS RR	15	RV-15 RV-19	A	Steam Supply Inboard Isolation (To RHR) (M-15) (See Note 1,4)
1E51-F065	6	101-2	C7	1/C	CV	AO	C	E PIT LT	Q RR RR		RV-19	A	RCIC Injection Outboard Testable Check (M-29) (See Note 5,7)
1E51-F066	6	101-2	CB	1/C	CV	AO	C	E PIT LT	CS RR RR		RV-19 RV-35	A	RCIC Injection Inboard Testable Check (M-29) (See Note 5,7)
1E51-F068	10	101-1	B7	2/A	GT	MO	O	FS,ST LT	Q RR	55	RV-19	A	Turbine Exhaust Isolation (M-76) (See Note 4,6)
1E51-F069	1.25	101-1	B7	2/A	GB	MO	O	FS,ST LT	Q RR	20.6	RV-19	A	Barometric Condenser Vacuum Pump Discharge Stop (M-81) (See Note 4,6)
1E51-F076	1	101-1	E8	1/A	GB	MO	C	FS,ST LT PIT	Q RR RR	15	RV-19	A	Steam Supply Inboard Isolation Valve Warm-Up Bypass (M-15) (See Note 4,6)



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INSERVICE TESTING PLAN

VALVES

System RI-Reactor Core Isolation Coolant
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	PAID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1E51-F080	2	101-1	C7	2/A	GB	M0	0	FS, ST LT	Q RR	33	RV-19	A	RCIC Turbine Exhaust Vacuum Breaker Inlet Stop (M-101) (See Note 4)
1E51-F086	2.0	101-1	C7	2/A	GB	M0	0	FS, ST LT	Q RR	33	RV-19	A	RCIC Turbine Exhaust Vacuum Breaker Outlet Stop (M-101) (See Note 4,6)



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INSERVICE TESTING PLAN VALVES

System RR-Reactor Recirculation
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1B33-F019	.75	93-02	E6	2/A	GB	AO	0	FS LT PIT	Q RR RR		RV-02 RV-19	A	Process Sampling (See Note 4)
1B33-F020	.75	93-02	E8	2/A	GB	AO	0	FS LT	Q RR		RV-02 RV-19	A	Process Sampling (See Note 4)
1B33-F319A	.75	2093-8		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F319B	.75	2093-8		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F317A	.75	2093-8		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F317B	.75	2093-8		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F313A	.75	2093-2		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F313B	.75	2093-2		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F313C	.75	2093-2		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10



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INSERVICE TESTING PLAN VALVES

System RR-Reactor Recirculation
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1B33-F313D	.75	2093-2		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F311A	.75	2093-2		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F311B	.75	2093-2		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F311C	.75	2093-2		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F311D	.75	2093-2		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F315A	.75	2093-3		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F315B	.75	2093-3		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F315C	.75	2093-4		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F315D	.75	2093-4		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F301A	.75	93-1	D8	2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10



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INSERVICE TESTING PLAN
VALVE 3

System RR-Reactor Recirculation
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00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&IC NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1B33-F301B	.75	93-2	D8	2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F307A	.75	2093-1		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F307B	.75	2093-1		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F307C	.75	2093-1		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F307D	.75	2093-1		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F305A	.75	2093-1		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F305B	.75	2093-1		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F305C	.75	2093-1		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10
1B33-F305D	.75	2093-1		2/AC	EFC	-	0	E LT	RR		RV-34	A	See Note 10



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INSERVICE TESTING PLAN VALVES

System RT-REACTOR WATER CLEANUP
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VALVE NO	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13
1G33-F001	6	97-1	E8	1/A	GT	MO	O	FS, ST LT PIT	CS RR RR	30	RV-08 RV-19	A	C.U. Suction Inboard Isolation (M-30) (See Note 1.4.6)
1G33-F004	6	97-1	E7	1/A	GT	MO	O	FS, ST LT PIT	CS RR RR	30	RV-08 RV-19	A	C.U. Outboard Isolation (M-30) (See Note 1.4)
1G33-F339A	1.5 x2.5	91-2	E8	3/C	RV	-	C	RV	RR			A	RWCU Hx Relief (See Note 2).
1G33-F339B	1.5 x2.5	91-2	C8	3/C	RV	-	C	RV	RR			A	RWCU Hx Relief (See Note 2).
1G33-F340A	1.5 x2.5	91-2	E8	3/C	RV	-	C	RV	RR			A	RWCU Hx Relief (See Note 2).
1G33-F340B	1.5 x2.5	91-2	C8	3/C	RV	-	C	RV	RR			A	RWCU Hx Relief (See Note 2).
1G33-F341A	1.5 x2.5	91-2	E5	3/C	RV	-	C	RV	RR			A	RWCU Hx Relief (See Note 2).
1G33-F341B	1.5 x2.5	91-2	C5	3/C	RV	-	C	RV	RR			A	RWCU Hx Relief (See Note 2).



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INSERVICE TESTING PLAN

VALVES

System RT-REACTOR WATER CLEANUP
Page 2 of 2

00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	PAID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1G33-F040	4	97-1	F4	2/A	GT	MO	0	FS, ST LT	CS RR	22	RV-08 RV-19	A	RMCJ Isolation (See Note 1,4)



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INSERVICE TESTING PLAN VALVES

System SA-Service Air
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VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13
1SA042	3	82-03	B7	2/A	GT	M	C	LT	RR		RV-19 RV-37	P	(M-38) (See Note 13)
1SA046	3	82-03	B7	2/A	GT	M	C	LT	RR		RV-19 RV-37	P	(M-38) (See Note 13)



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INSERVICE TESTING PLAN VALVES

System SC-STANDBY LIQUID CONTROL
Page 1 of 1

00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1C41-F001A	3	99	C2	2/B	PG	MO	C	FS,ST	RR	15	RV-13	A	A SBLC Pump Suction Stop (See Note 1)
1C41-F001B	3	99	B2	2/B	PG	MO	C	FS,ST	RR	15	RV-13	A	B SBLC Pump Suction Stop (See Note 1)
1C41-F004A	1.5	99	C5	1/A, D	GT	EX	C	FC LT	EV RR		RV-19	A	Pump Injection Squib Valve (M-34)(See Note 4)
1C41-F004B	1.5	99	B5	1/A, D	GT	EX	C	FC LT	EV RR		RV-19	A	Pump Injection Squib Valve (M-34)(See Note 4)
1C41-F006	1.5	99	D6	1/C	NSC	-	C	E	RR		RV-14	A	Outboard Check (M-34)
1C41-F007	1.5	99	D7	1/A, C	NSC	-	C	E LT	RR RR		RV-14 RV-19	A	INboard Check (M-34) (See Note 4)
1C41-F029A	.75 x 1	99	D4	2/C	RV	SP	C	RV	RR			A	Pump Discharge Relief (See Note 2)
1C41-F029B	.75 x 1	99	C4	2/C	RV	SP	C	RV	RR			A	Pump Discharge Relief (See Note 2)
1C41-F033A	1.5	99	C4	2/C	NSC	-	C	E	Q			A	Pump Discharge Check
1C41-F033B	1.5	99	B4	2/C	NSC	-	C	E	Q			A	Pump Discharge Check



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INSERVICE TESTING PLAN VALVES

System VP-PRIMARY CONTAINMENT
Page 1 of 1 VENTILATION

00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
IVP053A	8	86	E2	2/A	GT	MO	O	FS,ST LT	RR RR	40	RV-17 RV-19	A	Chilled Water Return (M-27) (See Note 1,4)
IVP053B	8	86	C2	2/A	GT	MO	C	FS,ST LT	RR RR	40	RV-17 RV-19	A	Chilled Water Return (M-28) (See Note 1,4)
IVP063A	8	86	D2	2/A	GT	MO	O	FS,ST LT	RR RR	40	RV-17 RV-19	A	Water Supply (M-25) (See Note 1,4)
IVP063B	8	86	B2	2/A	GT	MO	C	FS,ST LT	RR RR	40	RV-17 RV-19	A	Water Supply (M-26) (See Note 1,4)
IVP113A	8	86	D2	2/R	BF	MO	O	FS,ST LT PIT	RR RR RR	90	RV-17 RV-19	A	Water Supply (M-25) (See Note 1,4,6)
IVP113B	8	86	B2	2/A	BF	MO	O	FS,ST LT PIT	RR RR RR	90	RV-17 RV-19	A	Water Supply (M-26) (See Note 1,4,6)
IVP114A	8	86	E2	2/A	BF	MO	O	FS,ST LT PIT	RR RR RR	90	RV-17 RV-19	A	Chilled Water Return (M-27) (See Note 1,4,6)
IVP114B	8	86	C2	2/A	BF	MO	O	FS,ST LT PIT	RR RR RR	90	RV-17 RV-19	A	Chilled Water Return (M-28) (See Note 1,4,6)



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INSERVICE TESTING PLAN VALVES

System VQ-PRIMARY CONTAINMENT
Page 1 of 3 PURGE

VALVE NO.		SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13	
1VQ026	26	92-1	C2	2/A	BF	MO	C	FS,ST LT	CS RR	130	RV-09 RV-19	P		Outboard to Suppression chamber Fr. Rx. Bldg. Inboard (PCIS) Isolation Damper (M-66) (See Note 1)
1VQ027	26	92-1	C3	2/A	BF	MO	C	FS,ST LT	CS RR	130	RV-09 RV-19	P		Inlet to Suppression Chamber Fr. Rx. Bldg. Inboard (PCIS) Isolation Damper (M-66) (See Note 1)
1VQ029	26	92-1	D2	2/A	BF	MO	C	FS,ST LT	CS RR	130	RV-09 RV-19	A		Inlet to Drywell Fr Rx. Bldg. Outboard Isolation Damper (PCIS) (M-20)(See Note 1,4)
1VQ030	26	92-1	D3	2/A	BF	MO	C	FS,ST LT	CS RR	130	RV-09 RV-19	A		Inlet to Drywell Fr Rx. Bldg. Inboard Isolation Damper (PCIS) (M-20)(See Note 1,4,6)
1VQ031	26	92-1	C7	2/A	BF	MO	C	FS,ST LT	CS RR	130	RV-09 RV-19	A		Suction Fr Rx. Bldg. Inboard Isolation Damper (PCIS) (M-67) (See Note 1)



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INSERVICE TESTING PLAN VALVES

System VQ-Primary Containment Purge
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VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13
1VQ032	2	92-1	C7	2/A	GB	MO	C	FS,ST LT	CS RR	10	RV-09 RV-19	P	Bypass Suction (See Note 1,4,6)
1VQ034	26	92-1	E6	2/A	BF	MO	C	FS,ST LT	CS RR	130	RV-09 RV-19	A	Suction Fr. Drywell Inboard Isolation Damper (PCIS) (M-21) (See Note 1,4,6)
1VQ035	2	92-1	E6	2/A	GB	MO	C	FS,ST LT	Q RR	5	RV-19	P	Suction Fr. Drywell Inboard Isolation Damper Bypass Inboard (M-21) (See Note 4,6)
1VQ036	26	92-1	E7	2/A	BF	MO	C	FS,ST LT	CS RR	130	RV-09 RV-19	A	Suction Fr. Drywell Outboard Isolation Damper Bypass (M-21) (See Note 4)
1VQ037	26	92-1	B8	2/B	BF	MO	C	FS,ST	Q	90		A	Prime Cont. Ventilation Secondary Containment InBoard Isolation Damper (PCIS)
1VQ038	26	92-1	B7	2/B	BF	MO	C	FS,ST	Q	90		A	Prime Cont. Ventilation Secondary Containment OutBoard Isolation Damper (PCIS)



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INSERVICE TESTING PLAN VALVES

System VQ-Primary Containment Pruge
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VALVE NO.	SIZE	P&ID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
00	01	02	03	04	05	06	07	08	09	10	11	12	13
1VQ040	26	92-1	C8	2/A	BF	MO	C	FS,ST LT	CS RR	130	RV-09 RV-19	A	Suction from Suppression Chamber Outboard Isolation Damper (PCIS) (See Note 1,4)
1VQ041	26	92-1	A8	2/B	BF	MO	C	FS,ST	Q	90		A	Suction Fr Rx Bldg. Return Air Riser
1VQ068	2	92-01	E7	2/A	GB	MO	C	FS,ST LT	Q RR	5	RV-19	A	(See Note 4)
1VQ047	1.5	92-01	D3	2/A	GB	MO	O	FS,ST LT	Q RR	23	RV-19	A	(See Note 4,6)
1VQ048	1.5	92-01	D3	2/A	GB	MO	O	FS,ST LT	Q RR	23	RV-19	A	(See Note 4)
1VQ050	1.5	92-01	C3	2/A	GB	MO	O	FS,ST LT	Q RR	23	RV-19	A	(See Note 4,6)
1VQ051	1.5	92-01	C3	2/A	GB	MO	O	FS,ST LT	Q RR	23	RV-19	A	(See Note 4)
1VQ042	8	92-01	D2	2/A	BF	MO	C	FS,ST LT	CS RR	90	RV-09 RV-19		(See Note 1,4)
1VQ043	8	92-01	C2	2/A	BF	MO	C	FS,ST LT	CS RR	90	RV-09 RV-19		(See Note 1,4)



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INSERVICE TESTING PLAN

VALVES

System MR-REACT. BLDG. CLOSED
Page 1 of 1 COOL. WATER

00	01	02	03	04	05	06	07	08	09	10	11	12	13
VALVE NO.	SIZE	PAID NO.	COORDINATES	CLASS/CATEGORY	VALVE TYPE	ACTUATOR TYPE	VALVE POSITION	TEST	TEST SCHEDULE	MAX. STROKE TIME	RELIEF REQUEST	ACT. OR PASSIVE	REMARKS
1WR-029	6	90-02	B7	2/A	GT	M0	0	FS, ST LT	CS RR	30	RV-03 RV-19	A	Drywell Equipment RBCCW Inlet Isolation (M-16) (See Note 1,4)
1WR-040	6	90-02	B4	2/A	GT	M0	0	FS, ST LT	CS RR	30	RV-03 RV-19	A	Drywell Equipment RBCCW Outside Isolation (See Note 1,4)
1WR-179	6	90-02	B7	2/A	GT	M0	0	FS, ST LT PIT	CS RR RR	30	RV-03 RV-19	A	Drywell Equipment RBCCW Inlet Isolation (M-16) (See Note 1,4)
1WR-180	6	90-02	B4	2/A	GT	M0	0	FS, ST LT PIT	CS RR RR	30	RV-03 RV-19	A	Drywell Equipment RBCCW Outlet Isolation (M-17) (See Note 1,4)



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-01	ODG-009	3/B	Cooling Water Discharge	Full stroke and stroke time quarterly	These valves open in response to an auto-backwash logic signal produced by an abnormally high differential pressure across the CSCS service water strainers. These valves stroke very quickly, and because they are not manually controlled, an accurate stroke time measurement is very difficult to obtain. Furthermore, the initiation time of this backwash feature is not considered a meaningful indicator of operational readiness. The ability of this valve to open upon receipt of a backwash signal is confirmed quarterly.	Perform a full stroke exercise once per quarter
	1DG-011	3/B	Strainer Backwash Valves			
	1E12-F336A	3/B	RHR Service Water Pump Strainer 1A Backwash Outlet Stop			
	1E12-F336B	3/B	RHR Service Water Pump Strainer 1B Backwash Outlet Stop			
	1E12-F319	3/B	HPCS Diesel Cooling Water Strainer Backwash Outlet Stop			



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-02	1IN017	2/A	Drywell Pneumatic to Drywell - Fail Close	Full Stroke and Stroke Time Quarterly	These valves are designed to stroke rapidly with- in a specified time range. Verification that the valve strokes within the time range is essential, but due to the inaccuracies involved with measuring short time intervals, stroke time trending provides no useful information and may even lead to useless and unnecessary maintenance operations. Therefore, the stroke times of these valves will not be trended, but will be verified to not exceed 5 seconds.	Perform a full stroke exercise quarterly.
	1IN074	2/B	Dryer Purging Valve - Fail Close			
	1IN075	2/B	" "			
	1IN031	2/A	TIP Indexer Purge			
	1B33-F019	2/A	Process Sampling Valve			
	1B33-F020	2/A	" "			
	0D0004	3/B	Diesel Oil Transfer Pump Stop Valve			
	1D0004	3/B	" "			
	1D0014	3/B	" "			
	1D0024	3/B	" "			
	1CM017A	2/A	" "			
	1CM017B	2/A	" "			
	1CM018A	2/A	" "			
	1CM018B	2/A	" "			
	1CM019A	2/A	" "			



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-02 (cont'd)	1CM019B	2/A	Diesel Oil Transfer			
	1CM020A	2/A	Pump Stop Valve			
	1CM020B	2/A	" "			
	1CM021B	2/B	" "			
	1CM022A	2/B	" "			
	1CM023B	2/B	" "			
	1CM024A	2/B	" "			
	1CM025A	2/B	" "			
	1CM026B	2/B	" "			
	1CM031	2/A	" "			
	1CM032	2/A	" "			
	1CM033	2/A	" "			
	1CM034	2/A	" "			



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-03	1WR-029	2/A	Drywell Equipment RECCW Isolation	Full Stroke Exercise Quarterly	Reactor recirculation pump operation requires a continuous cooling water flow from the reactor building closed cooling water system. Exercising these valves during operation interrupts this flow from the reactor building closed cooling water system. This could result in damage to these pumps and thus place the plant in a less safe mode of operation.	Perform a full stroke Exercise during cold shutdown.
	1WR-040	2/A	" "			
	1WR-179	2/A	" "			
	1WR-180	2/A	" "			



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-04	1E21-F005	1/B	LPCS Injection Line Outboard Stop	Full Stroke Exercise Quarterly	These valves cannot be exercised during normal operation because they are electrically inter- locked shut by normal operating differential pressure to protect the low pressure piping outside the drywell.	Perform a full stroke exercise during cold shutdown.
	1E12-F008	1/A	RHR Shutdown Cooling Pump 1/A Suction HDR Isolation			
	1E12-F009	1/A				
	1E12-F050A	1/C	RHR Shutdown Cooling Testable Check			
	1E12-F050B	1/C	" "			
	1E12-F053A	1/B	RHR Shutdown Cooling Discharge Isolation			
	1E12-F053B	1/B	RHR Shutdown Cooling Discharge Isolation			
	1E12-F023	1/B	RHR to Head Spray			



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-05	1E51-F013	1/B	RCIC Outboard In- jection Stop Valve	Full Stroke Exer- cise Quarterly	During power operation, the RCIC piping is normally pressurized at 60 psig. One purpose of valve F013 is to isolate reactor pressure from the RCIC system. Opening the valve would result in a water hammer of the RCIC piping, and the high reactor water pressure would cause damage to the low pressure piping on the suction side of the RCIC pump, which is designed for a maximum pressure of 100 psig. The valve may be exer- cised during cold shutdowns when reactor pressure has been sub- stantially reduced.	Perform a full stroke exercise during cold shutdown.



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-06	1B21-F010A	1/AC	Feedwater Inboard Check Valve	Exercise Quarterly	A leak rate test must be conducted in order to verify the closure of these normally open check valves. This test is not possible during power operation or cold shutdown because a steady flow rate of coolant is passing through the feedwater lines. These valves will be exercised at each refueling outage when the feed- water flow is interrupted.	Perform a full stroke exercise each refueling outage
	1B21-F010B	1/AC	Feedwater Inboard Check Valve			



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**PUMP & VALVE TESTING
RELIEF REQUESTS**

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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-07	1821-F065A 1821-F065B	2/A 2/A	Rx Feedwater Isolation Valve " "	Full Stroke Exercise Quarterly	It is impractical to exercise these valves during normal operation because the feedwater system is needed to maintain primary coolant inventory. Exercising them would deprive the flow of feedwater to the vessel thus putting the plant in a less safe condition.	Perform a full stroke exercise during cold shutdown.



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**PUMP & VALVE TESTING
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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-U8	1G33-F001	1/A	Inboard Suction Isolation	Full Stroke Exercise Quarterly	The entire RWCU system must be inoperable before any of these valves can be closed. This system maintains reactor water chemistry and prevents thermal stratification of the water in the bottom head section of the vessel. The systems operability is required during power operation to prevent fuel cladding reactions and to prevent thermal stresses in the vessel's bottom head section. Therefore, these valves will be full stroke exercised during each cold shutdown.	Perform a full stroke exercise during cold shutdown
	1G33-F004	1/A	Outboard Suction Isolation			
	1G33-F040	2/A	Discharge to Feed-water Isolation			



PUMP & VALVE TESTING
RELIEF REQUESTS

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-09	1VQ026	2/A	Outboard to Suppression Chamber Fr. Rx Bldg. Inboard (PCIS) Isolation Damper	Full Stroke Exercise Quarterly	These valves cannot be exercised during normal operation. These valves are required to remain administratively shut during power operation, in accordance with the Final Safety Analysis Report and the Technical Specifications. The response to FSAR Question 021.54 further explains that valve 1VQ032 cannot be opened in an operating or hot shutdown mode, and hence can only be tested while in cold shutdown. Valve 1VQ035 does not have this restriction, and hence is not contained on this relief request.	Perform a full stroke exercise during cold shutdown.
	1VQ027	2/A	Inlet to Suppression Chamber Fr. Rx Bldg. Inboard (PCIS) Isolation Damper			
	1VQ029	2/A	Inlet to Drywell Fr. Rx. Bldg. Isolation Damper (PCIS)			
	1VQ030		"			
	1VQ031	2/A	Suction Fr. Suppression Chamber Inboard Isolation Damper			



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-09	1VQ034	2/A	Suction Fr. Drywell Inboard Isolation Damper PCIS	Full Stroke Exercise Quarterly		Perform a full stroke exercise during cold shutdown.
	1VQ036	2/A	Suction Fr. Drywell Outboard Isolation Damper Bypass			
	1VQ042	2/B				
	1VQ043	2/B				
	1VQ032	2/A	Bypass Suction			
	1VQ040	2/A	Suction From Suppression Chamber Outboard Isolation Damper (PCIS)			



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-10	1E22-F016	2/C	Suppression Pool Suction Check	Exercise Quarterly	The HPCS system is demonstrated to be operable each quarter by taking a suction from, and discharging back to the cycled condensate storage tank. Cycled condensate is reactor grade water, however, this is not necessarily true of suppression pool water. Valve F016 can be exercised by aligning the HPCS pump suction to the suppression pool. Allowing suppression pool water to enter the HPCS system permits the possibility of cycled condensate contamination which would cause many of the units' systems to become contaminated. This situation is undesirable at all times, but may be guarded against if tested during refueling outages. Therefore, it is requested that this valve be full stroke exercised during each refueling outage.	Exercise each refueling outage during HPCS alternate flow path test.



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-11	1E32-F001A 1E32-F001E 1E32-F001J 1E32-F001N 1E32-F003A 1E32-F003E 1E32-F003J 1E32-F003N 1E32-F002A 1E32-F002E 1E32-F002J 1E32-F002N 1E32-F006 1E32-F007 1E32-F008 1E32-F009	1/A 1/A 1/A 1/A 2/B 2/B 2/B 2/B 2/B 2/B 2/B 2/B 2/B 2/B 2/B 2/B	MS Bleed Valve MS Bleed Valve MS Bleed Valve MS Bleed Valve MS Loop Bypass to Steam Tunnel " " " " " " MS Loop Bleed Valve " " " " " " Bleed Valve- Steam Tunnel " " " "	Full Stroke Exercise Quarterly	These valves cannot be exercised during normal operation. These valves are designed to operate when the main steam line pressure is near atmospheric. Testing of these valves at normal steam line pressure has the potential for discharging live steam into the Reactor Building Atmosphere.	Perform a full stroke exercise during cold shutdown.



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**PUMP & VALVE TESTING
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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-12	1IN017	2/A	Drywell Pneumatic to Drywell - Fail Close	Full Stroke Exer- cise Quarterly	As these valves cut off the supply and discharge side of the compressor from the drywell, they may be stroked closed only when the nitrogen compressor is shutdown. Normally, this occurs only during refueling outages because instrument nitro- gen is needed for control of the MSR's, the in- board isolation valves on MS, HPCS, LPCS, RHR, and RCIC, and the process sampling line on RR. The instrument air alternate emergency supply cannot be used during power operation or cold shut- down as it would contami- nate the drywell nitrogen atmosphere. Therefore, these valves will be stroked at each refueling outage when the drywell is de-inerted and the instrument nitrogen system is shutdown.	Perform full stroke exercise coincident with fail safe oper- ation. Test each refueling outage except 1IN043 and 1IN044 will not be fail safe tested.
	1IN001A	2/A	Drywell Suction Isolations - Fail Close			
	1IN001B	2/A	Drywell Suction Isolations - Fail Close			
	1IN074	2/A	Dryer Purging Valve - Fail Close	Check the Fail Safe Operation of the Valve upon loss of actuator power each quarter.		
	1IN075	2/A	Dryer Purging Valve - Fail Close			
	1IN031	2/A	Tip Indexer Purge Valve			
	1IN043	3/C	ADS Supply Check Valve			
	1IN044	3/C	ADS Supply Check Valve			



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**PUMP & VALVE TESTING
RELIEF REQUESTS**

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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-13	1C41-F001A	2/B	SBLC Pump Suction Stop Valve	Full Stroke Exer- cise Quarterly	During the testing of these valves, the system is aligned so that a greater pressure exists on the downstream side of the F001 valves than on the upstream side. Opening the valves causes dilution of the sodium pentaborate solution in the SBLC solution tank. Therefore, a chemical analysis of the solution will need to be performed, as required by the tech- nical specifications, to ensure that the concen- tration of boron in solution is within the required limits. It is undesirable to perform this test during cold shutdowns due to the considerable length of time the testing pro- cedure and chemical analysis requires. It is requested that the test- ing frequency for these valves be every refueling outage.	Perform a full stroke exercise during reactor refueling.
	1C41-F001B	2/B	SBLC Pump Suction Stop Valve			



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-14	1C41-F006	1/C	SBLC Outboard Check	Exercise Quarterly	These valves cannot be exercised during reactor operation nor during cold shutdown. To exercise these valves open, the system must inject into the vessel. A system injection is not practical during normal operation or cold shutdown; the explosive charges would have to be detonated and the system taken out of service.	Exercise during reactor refueling.
	1C41-F007	1/C	Inboard Check			



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-15	1E51-F064	1/A	High Energy Line Break Safeguard	Full Stroke Exercise Quarterly	This valve is located at the interface of high and low pressure piping. Opening the valve during power operation would result in severe water hammer and thermal shock to the low pressure piping. This valve may be stroked at each cold shutdown when reactor water pressure and temperature have both been reduced.	Perform a full stroke exercise during cold shutdown.



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**PUMP & VALVE TESTING
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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-16	1B21-F024A	3/C	MSIV Accumulator Check Valves	Exercise Quarterly	Entry into the drywell is required to confirm the closure of these check valves. Since the drywell atmosphere is normally inerted with nitrogen gas at all times except refueling outages, these valves may be exercised only during refueling outages when drywell entry is possible.	Exercise during reactor refueling outage.
	1B21-F024B	3/C	" "			
	1B21-F024C	3/C	" "			
	1B21-F024D	3/C	" "			
	1B21-F040C	3/C	ADS Accumulator Check Valves			
	1B21-F040D	3/C	" "			
	1B21-F040E	3/C	" "			
	1B21-F040R	3/C	" "			
	1B21-F040S	3/C	" "			
	1B21-F040V	3/C	" "			
	1B21-F040V	3/C	" "			



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**PUMP & VALVE TESTING
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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-17	1VP053A	2/A	Chilled Water Return	Full Stroke Exercise Quarterly	Closing any one of these isolation valves would prevent chilled water from reaching the primary containment cooling units. The systems operation is essential during power operation and is also necessary during cold shutdowns to maintain acceptable conditions in the drywell for equipment and maintenance personnel. These valves will be exercised at refueling outages when the heat input to the drywell atmosphere is substantially reduced.	Perform a full stroke exercise during refueling outages.
	1VP053B	2/A	" "			
	1VP114A	2/A	" "			
	1VP114B	2/A	" "			
	1VP063A	2/A	Chilled Water Supply			
	1VP063B	2/A	" "			
	1VP113A	2/A	" "			
	1VP113B	2/A	" "			



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-18	1833-F017A	2/C	CRD Flow CVA Outlet	Exercise Quarterly	Since these lines form part of the reactor coolant pressure boundary, the consequences of line failure was carefully evaluated. It is determined that consequences of failure would be less severe than an instrument line failure, and thereby exempting these valves from Inservice Testing. (Ref. IWV-1300)	NA
	1833-F017B	2/C	CRD Flow CVB Outlet			
	1833-F013A	2/C	CRD Flow CVA Outlet			
	1833-F013B	2/C	CRD Flow CVB Outlet			



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-19	All Category A primary con- tainment iso- lation valves	--	N/A	Perform a Seat Leakage Test Per IWV-3420	Primary containment Category A isolation valves will be seat leak tested and the results analyzed in accordance with Appendix J requirements of 10CFR50.	Seat leak test in accordance with 10CFR50 Appendix J.



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-20	Deleted					



PUMP & VALVE TESTING
RELIEF REQUESTS

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-21	1E21-F006	1/C	Primary Containment Inboard Isolation Valves	Exercise Quarterly	Exercising these valves during reactor operation requires opening the equalizing valve around the valve and then opening the valve. If a system initiation were received at this point, the pumps would start and the injection valve would open. The injection valve requires $\leq 729\#$ dp across it to open, and the pump head would easily give that. When the injection valve opens, should the check valve fail to close, or if it leaked, it would supply a path for Reactor Pressure to the low pressure piping of the low pressure ECCS systems. A one inch relief valve set at 500# would relieve to the suppression pool and provide a loss of	Exercise during cold shutdown.
	1E12-F041A	1/C	Primary Containment Inboard Isolation Valves			
	1E21-F041B	1/C	Primary Containment Inboard Isolation Valves			
	1E12-F041C	1/C	Primary Containment Inboard Isolation Valves			



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**PUMP & VALVE TESTING
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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-21	Continued				constant flow from the reactor to the suppression pool, possibly over-pressurizing the low pressure piping with an initiation already present. Also, opening the valve during Reactor operation gives only one valve protection to the low pressure piping.	



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-22	1B21-F022A	1/A	Primary Contain- ment Isolation For Main Steam	Full Stroke And Stroke Time Quarterly. Check The Fail-Safe Operation Of The Valve Upon Loss Of Actuator Power Quarterly.	Full stroke testing these valves during normal reactor operation requires isolating one of the four main steam lines. Isolation of these lines results in primary system pressure spikes, reactor power fluctuations, and in- creased flow in the unisolated steam lines. This unstable operation can lead to a reactor scram, and as discussed in WUREG-0626 pressure transients resulting from full stroke testing MSIV's increase the chances of actuating primary system relief valves. It is proposed that only partial stroke testing be performed during power operation and that the valve be full stroked and stroke timed	Part stroke exercise quarterly, perform a full stroke exercise and stroke time during cold shutdown. The fail-safe operation of these valves will also be checked during cold shutdown since this is done coincident with full stroke exercising. The fail-safe testing of valves 1B21-F022A, B, C, and D, however, will be completed only at cold shutdowns in which the primary containment is deinerted since acces- to the valves to perform this testing required entry into the drywell.
	1B21-F022B	1/A	Primary Contain- ment Isolation For Main Steam			
	1B21-F022C	1/A	Primary Contain- ment Isolation For Main Steam			
	1B21-F022D	1/A	Primary Contain- ment Isolation For Main Steam			
	1B21-F028A	1/A	Primary Contain- ment Isolation For Main Steam			
	1B21-F028B	1/A	Primary Contain- ment Isolation For Main Steam			
	1B21-F028C	1/A	Primary Contain- ment Isolation For Main Steam			



**PUMP & VALVE TESTING
RELIEF REQUESTS**

RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-22	Continued 1B21-F028D	1/A	Primary Contain- ment Isolation For Main Steam		during cold shutdowns. This partial stroke exercising provides an acceptable means of verifying valve performance during plant operation without affecting safety margins. This request also contributes to the reduction of the relief valves challenge rate as recommended in NUREG-0626.	



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-23	1B21-F013A 1B21-F013B 1B21-F013C 1B21-F013D 1B21-F013E 1B21-F013F 1B21-F013G 1B21-F013H 1B21-F013J 1B21-F013K 1B21-F013L 1B21-F013M 1B21-F013N 1B21-F013P	1/C 1/C 1/C 1/C 1/C 1/C 1/C 1/C 1/C 1/C 1/C 1/C 1/C 1/C	Safety Relief Valves For The Primary Coolant Pressure Boundary	Verify Valve Set Point	It is impractical for LaSalle County Station to meet the requirements of IWV-3510, in that as-found set points for these safety relief valves cannot be determined. The station has no on-site facility for testing safety valve set points. Our plans are to remove them from the system, and ship them off site. They will be rebuilt off site and then the set point will be tested before they are sent back on site. Therefore, IWV-3510(c) cannot be applied because "as found" set points are not verified.	The safety relief valves will be removed and replaced with valves, that have had their set point verified. The number of valves removed and replaced during refueling outages will be determined by the schedule in IWV-3510.



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-23	Continued 1821-F013R 1821-F013S 1821-F013U 1821-F013V	 1/C 1/C 1/C 1/C				



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-24	Deleted					



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-25	All valves in the program for which IWV 3417(b) and/or IWV 3523 apply.	NA	NA	IWV 3417(b) and IWV 3523	Specific relief is requested from the requirements of paragraphs IWV 3417(b) and IWV 3523 of Section XI of the 1980 Edition of the ASME Boiler and Pressure Vessel Code including the Addenda through Winter 1980. These paragraphs state the corrective actions to be taken when valves fail to exhibit a required change of disk position. These actions include requirements to take corrective action prior to plant startup should a failure occur during cold shutdown testing. Also stated are requirements to declare valves inoperable if corrective action is unsuccessful within a 24 hour period. These paragraphs do not take into account the plant Technical Specification requirements for limiting conditions for operation which state the	Evaluate the condition of each valve with respect to its safety related function and take appropriate corrective action as stated in the Technical Specification - Limiting Condition for operation.



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-25	Continued				<p>minimum conditions necessary for safe operation of the plant. The failure of a particular valve may not necessarily require a plant shutdown or prevent a startup. In addition, valves not capable of performing their safety-related function are declared inoperable as soon as that condition has been verified, not after a 24-hour period has elapsed.</p> <p>For the above reasons, La Salle County Station will evaluate the condition of each valve with respect to its safety-related function and take the appropriate corrective action as stated in the Technical Specification - Limiting Condition for Operation.</p>	



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-26	1C11-F010	2/B	CRD Scram Discharge Instrument Volume Vent Valve	Full Stroke And Stroke Time Quarterly	The system is designed such that the test circuit bleeds air from these air operated valves at a very slow rate, much slower than during normal operation of the valve. Thus timing these valves during testing has no relevance, and because of the slow bleed rate the test time repeatability is poor.	Full stroke exercise quarterly
	1C11-F011	2/B	CRD Scram Discharge Instrument Volume Drain			



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-27	1E12-F042A 1E12-F042B 1E12-F042C	1/8 1/8 1/8	LPCI Injection Valves	Full Stroke Exercise Quarterly	Relief is requested from full stroke exercising these valves during normal reactor operation. The valves are interlocked closed with greater than 729 psid across them, which would require the LPCI pumps to be running to cycle the valves. If the valve was opened (pump running) in this manner and the inboard testable check valve was to fail or leak, the low pressure piping would be subjected to reactor pressure. This would lift the low pressure piping relief valve (500#) and provide a flow path for reactor pressure to the suppression pool. The relief line is only a 1 inch line which,	Perform a full stroke exercise during cold shutdown.



**PUMP & VALVE TESTING
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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-27	Continued				depending on the amount of check valve leakage, has the potential to severely overpressurize the low pressure piping. Exercising these valves provides single valve protection to the low pressure piping for the duration of the test. Such exercising puts the plant in a less safe condition.	



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-28	1B21-F037A1 1B21-F037A2 1B21-F037B1 1B21-F037B2 1B21-F037C1 1B21-F037C2 1B21-F037D1 1B21-F037D2 1B21-F037E1 1B21-F037E2 1B21-F037F1 1B21-F037F2 1B21-F037G1 1B21-F037G2	3/C 3/C 3/C 3/C 3/C 3/C 3/C 3/C 3/C 3/C 3/C 3/C 3/C 3/C	Vacuum Breakers For The Main Steam Relief Valve Discharge Lines.	Exercise Quarterly	These check valves have no external means of actuation for exercising. The only practical method for exercising these valves open is by manually pushing the disc from its seat using a small diameter rod. Since this requires access to the valves which are located within primary containment, the test must be deferred to cold shutdowns when the primary containment is de-inerted.	Verify that these check valves freely swing to their full open position at cold shutdown.



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS / DISPOSITION 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-28	Continued					
	1B21-F037K1	3/C				
	1B21-F037K2	3/C				
	1B21-F037L1	3/C				
	1B21-F037L2	3/C				
	1B21-F037P1	3/C				
	1B21-F037P2	3/C				
	1B21-F037R1	3/C				
	1B21-F037R2	3/C				
	1B21-F037S1	3/C				
	1B21-F037S2	3/C				
	1B21-F037V1	3/C				
	1B21-F037V2	3/C				
	1B21-F037U1	3/C				
	1B21-F037U2	3/C				



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE "ST" 06
RV-28	Continued					
	1B21-F037H1	3/C				
	1B21-F037H2	3/C				
	1B21-F037J1	3/C				
	1B21-F037J2	3/C				
	1B21-F037M1	3/C				
	1B21-F037M2	3/C				
	1B21-F037N1	3/C				
	1B21-F037N2	3/C				



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-29	Deleted					



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-30	1C11-D001-126 1C11-D001-127 1C11-D001-114	NC/B NC/B NC/C		Full Stroke And Stroke Time Quarterly Check The Fail-Safe Operation of 1C11-D001-126 and 1C11-D001-127 Upon Loss of Actuator Power Quarterly	There are 185 of each of the valves listed, i.e., one for each of the 185 control rod drives. The proper operation of each of these valves is demonstrated during scram testing. During scram testing each drive's scram insertion time is measured. The Technical Specifications limit individual scram insertion times to specific valves. This insures that the above mentioned valves are functioning properly.	Individual scram insertion tests will be performed per the Technical Specification frequency.



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-31	1E51F008 1E51F063	1/A 1/A	RCIC Steam Supply Supply Outboard Isolation RCIC Steam Supply Inboard Isolation	Full Stroke And Stroke Time Quarterly	<p>These valves are normally open to supply steam to the turbine driven RCIC injection pump. Conservatively these valves are left in the open position to insure that driving steam can be supplied to these turbines at all times during operation. These valves also serve as a primary containment isolation function.</p> <p>LaSalle County Station feels that to close these valves during operation would place the operation of the system in an untenable condition. Further, if either were to fail closed, it would render the RCIC Sytem inoperable.</p>	Perform a full stroke exercise during cold shutdown.



**PUMP & VALVE TESTING
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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-32	1B21-F032A	1/AC	Feedwater Outboard Testable Check Valve	Exercise Quarterly	A test operator is incorporated into the design of these valves which is capable of closing the valve through an angle of 15°, and the valve is equipped with two position indication lights for reporting disk positions of approximately 85% and 100% of full open. These valves can be opened by feedwater flow only so a partial stroke exercise is possible only when the reactor is at high power and the feedwater flow has completely opened the disk. A full stroke exercise of these valves may be performed when feedwater flow increases from a no-flow condition to a maximum flow conditions following each refueling outage.	An attempt will be made to partially stroke these valves quarterly. A full stroke exercise will be performed each refueling outage.
	1B21-F032B	1/AC	" "			



**PUMP & VALVE TESTING
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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-33	1B21-F013C	1/BC	ADS Relief Valve	Exercise Quarterly	Vendor specifications for these ADS safety relief valves require steam pressure behind the disk before cycling. Thus, the plant must be in an operating or startup condition with the required steam pressure in the main steam lines. Since the valves are located inside the drywell, it is preferable that they be exercised either preceeding or following each refueling outage when the containment atmosphere is de-inerted.	Perform an 'in place' exercise at each refueling outage.
	1B21-F013D	1/BC	" "			
	1B21-F013E	1/BC	" "			
	1B21-F013R	1/BC	" "			
	1B21-F013S	1/BC	" "			
	1B21-F013U	1/BC	" "			
	1B21-F013V	1/BC	" "			



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-34	All Nuclear Boiler and Reactor Recir- culation Excess Flow Check Valves Indi- cated in the Program	2/AC	Excess Flow Check Valves	Exercise Quarterly, Leak Test During Reactor Refueling	These excess flow check valves are designed to automatically close in the event of a down- stream line rupture in which flow exceeds 6.5 gpm, or if drywell pressure exceeds 1.69 psig. Upon closing, these valves are designed to allow a controlled leakage of approximately 0.5 gpm. The lines are also provided with flow restricting orifices which would limit the potential offsite exposure to well below the guidelines of 10CFR100. Because exercising these valves requires that recircula- tion flow instrumentation and neutron monitoring instrumentation be tempor- arily taken out of service, the optimum time for the functionability testing of these valves is during the routine vessel pressure test performed during each refueling outage.	Full Stroke Exercise and Leak Test During Reactor Refueling



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-35	1E22-F005	1/C	HPCS Injection Inboard Testable Check Valve	Exercise Quarterly	These normally closed testable check valves serve as the first isolation valves in the event of a system line break. Testing could be performed during power operation, however, a real possibility exists that these valves, or their bypass test valves, may not properly reseal, rendering them incapable of performing their isolation function. Since the drywell is inaccessible during power operation, the affected penetration would need to be isolated, causing the system to be unavailable for its emergency function. The risk involved with the cycling of these valves during power operation is much greater than the assurance of operability gained by quarterly testing. The valves will be exercised at cold shutdown when their isolation function is not required.	Perform a full stroke exercise during each cold shutdown.
	1E51-F066	1/C	RCIC Injection Inboard Testable Check Valve			



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
RV-36	1E51-F030	2/C	RCIC Suppression Pool Suction Check Valve	Exercise Quarterly	The check valve is partial stroke exercised each quarter by the performance of a reduced flow test of the RCIC system alternate flow path. The opening of this valve is confirmed by the sustenance of suction pressure at the RCIC pump. A quarterly full flow test is not performed for the alternate flow path because suppression pool water could potentially contaminate the cycled condensate system. Each refueling outage a full flow test of the alternate flow path is conducted at which time this check valve is full-stroke exercised.	Perform a full stroke exercise during the RCIC alternate flow path test at each refueling outage and partial stroke the valve each quarter.



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RELIEF REQUEST 00	PUMP OR VALVE NO. 01	CLASS/ CATEGORY 02	FUNCTION 03	ASME SECTION XI TEST REQUIREMENT 04	BASIS FOR RELIEF 05	ALTERNATIVE TEST 06
KV-37	1FC-086	2/A	Rx Well Bulkhead Drain Outboard	Full Stroke and Stroke Time Quar- terly, Leak Test During Reactor Refueling	These valves are passive and locked closed. They do perform a containment isolation function and will be leak tested. However, these valves are not required to change position during power operation or during an emergency situation and therefore, their ability to stroke will not be tested.	Leak test during refueling outages.
	1FC-113	2/A	Cond. to Refuel Bellows Inboard			
	1FC-114	2/A	Cond. to Refuel Bellows Outboard			
	1FC-115	2/A	Rx Head Bulkhead Drain Inboard			
	1MC027	2/A				
	1MC033	2/A				
	1SA042	2/A				
	1SA046	2/A				