

Enclosure 1
to U-602626

Appendix V, Revision 18

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Revision 18

Date 11-03-95

APPENDIX V

PUMP AND VALVE TESTING PROGRAM PLAN

Revision 18 is issued for the following:

To revise Program Description Section I "Introduction" and Section II.E. "Pump Testing - Test Procedures" to reflect incorporation of Generic Letter 89-04, Supplement 1, "Guidance on Developing Acceptable Inservice Testing Programs", Illinois Power review letter Y-105346, dated September 1, 1995.

To add leak rate test for valves 1E22-F011 and 1E51-F059 as a result of Information Notice 91-56.

To delete stroke time (exercise) test for valves 1FP078 and 1FP079.

Submitted By: B. A. Puchett 11/3/95

Approved By: PJP 11/3/95 DeKorneman 11/3/95

ANII Concurrence: [Signature] 11/6/95

APPENDIX V

PUMP AND VALVE TESTING PROGRAM PLAN RECORD OF REVISION SHEET

Revision/Date	Affected Pages
0/ 12/26/85	Initial Issue as CPS 1887.00
1/ 03/18/86	Complete Revision
2/ 07/06/87	Complete Revision
3/ 08/24/87	Complete Revision
4/ 03/01/88	Complete Revision
5/ 05/31/88	Complete Revision
6/ 08/17/88	Revised Table II-page 87
7/ 05/26/89	Complete Revision
8/ 08/31/90	Revised Table II - pages 33 and 53 and Key to Table II
9/ 05/15/91	Complete Revision
10/ 03/11/92	Issued in response to NRC Safety Evaluation Report.
11/ 06/15/92	Complete Revision
12/ 12/22/92	Revised Table 2 - pages 12, 15, 25, and 34.
13/ 06/07/93	Revised Table 2 - pages 13, 14, 23, 25, 26, 31, 41, 42, 47, 48, and 51.
14/ 10/22/93	Revised Table 2 - pages 4, 5, 6, 7, 10, 20, 24 and 25.
15/ 03/07/94	Revised Table 2 - pages 11, 19, 24, 26, 33, and 34.
16/ 10/27/94	Revised Table 2 - pages 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 24, 25, 26, 27, 28, 29, 30, 31, 34, 35, 36, 37, 41, 42, 43, 44, 48, 49, 50, 51 and 52.

17/ 05/17/95

Revised Table 2 - pages 17 and 50.
Revised Program Description - pages
4 and 13

18/ 11/03/95

Revised Program Description - pages
1 and 3. Revised Table II pages 25
and 30.

I. INTRODUCTION

This program plan describes how safety-related pumps and valves will be tested to satisfy the requirements of the ASME Boiler and Pressure Vessel Code Section XI, Rules for the Inservice Inspection of Nuclear Power Plant Components, 1980 Edition, Winter 1981 Addenda and any additional requirements as listed below. The requirements of this edition and addenda will be used during the first 10-year inspection interval or until a later edition is selected to be used. Later editions must be endorsed in 10CFR50.55a or approved by the appropriate enforcement and regulatory agencies prior to their use. The requirements of this program plan include the relief requests as documented in Appendix III of the ISI Manual.

Revision to this program will be controlled by Illinois Power. Plant Modifications/Field Alterations which could affect this plan will be reviewed by personnel responsible for implementation of ISI requirements to ensure that changes are identified and the plan is revised to remain current. These identified changes to the plan may be implemented prior to revising the plan if approved by personnel responsible for implementation of ISI requirements.

The following documents have been reviewed and incorporated into the ISI Manual as necessary:

- 1) NRC Letter dated September 22, 1987, which attached "NRR's Position on When Technical Specification LCO Action Statement Clock Begins When IST Surveillance Results Are in the Action Range."
- 2) IE Information Notice 86-50 "Inadequate Testing to Detect Failures of Safety-Related Pneumatic Components or Systems." Illinois Power review letter Y-86498 dated November 18, 1987.
- 3) IE Information Notice "Check Valve Inservice Testing Program Deficiencies" Illinois Power review letter Y-90126 dated December 6, 1988.
- 4) NRC Generic Letter 89-04 "Guidance on Developing Acceptable Inservice Testing Programs" Illinois Power review letter Y-91415 dated May 11, 1989.
- 5) NRC Safety Evaluation Report of CPS ISI Program dated September 30, 1991.

- 6) NRC Generic Letter 89-09, Supplement 1 "Guidance on Developing Acceptable Inservice Testing Programs" Illinois Power review letter Y-105346, dated September 1, 1995

II. PUMP TESTING

A. Scope

The requirements of this program plan shall be applied to safety-related pumps which are required to perform a specific function in shutting down the reactor or in mitigating the consequences of an accident and are provided with an emergency power source. The pumps which are included in this plan are identified in Table I of this plan.

B. Frequency of Testing

Inservice tests of pumps shall be performed every 3 months during normal plant operations. This frequency shall be maintained during extended cold shutdowns and refueling outages whenever possible. If this frequency cannot be maintained during these shutdown periods, the pump(s) shall be tested within 1 week of the plant being returned to normal operating conditions.

C. Inservice Test Requirements

The following test parameters shall be observed or measured during inservice testing of pumps.

1. Speed (Variable speed pumps only).
2. Inlet pressure (measured prior to pump startup and during testing).
3. Differential pressure.
4. Flow rate.
5. Vibration amplitude.
6. Proper lubrication level for those pumps not lubricated by the fluid being pumped or having grease lubricated bearings.

D. Reference Values

1. Pump testing references values have been established for all pumps included in this program. If additional sets of reference values are needed, they shall be established in accordance with IWP-3112.
2. After a pump has been replaced, a new set or sets of reference values shall be determined from the results of the first inservice test run after the pump is put into service.
3. When a reference value or set of values have been affected by repair or routine servicing of the pump, a new reference value or set of values shall be determined or the previous value reconfirmed by an inservice test run prior to returning the pump to normal service. Deviations between the previous and new set of reference values shall be identified, and verification that the new values represent acceptable pump operation shall be placed in the test records.

E. Test Procedures

The procedures utilized for inservice testing shall include the following requirements.

1. Each pump shall be run at least 2 minutes under conditions as stable as the associated system permits. At the end of this time, at least one measurement or observation of each of the quantities shall be made and recorded.
2. The test flow path to be used shall be identified.
3. Instruments which measure the various test quantities shall be identified by instrument number for permanent instruments or type and location if test gauges are to be used.
4. Limits for the quantities to be measured shall be provided in the procedure. Reference values which serve as the basis for the limits shall be available in the ISI Manual.

5. The resistance of the system shall be varied until either the measured differential pressure or the measured flow rate equals the corresponding reference value with a tolerance of ± 2 percent. The test quantities shall then be measured of observed and recorded.

F. Analysis of Results/Corrective Action

1. The test results analysis shall consist of a comparison of the measured test quantities and the ranges defined in IWP-3210 and as modified by Relief Requests 3002 and 3006.
2. When Test quantities fall within the alert range identified, the testing frequency shall be doubled until the cause of the deviation is determined and the condition corrected.
3. When test quantities fall within the required action range, the pump shall be declared inoperable and not returned to service until the cause of the deviation is determined and the condition corrected.
4. When a test shows deviation greater than allowed, the instruments involved may be recalibrated and the test rerun.
5. After the cause of deviations to test quantities has been determined, the condition shall be corrected by either repairing or replacing the pump or by performing an analysis to demonstrate that the condition does not impair pump operability and to ensure that the pump will perform its function. A new set of reference values shall be established after such an analysis.

G. Inservice Test Records

1. Summary Listing

The Cognizant Plant Engineer shall maintain a log of the pumps in this program and the current status of the program.

2. Pump Records

Manufacturers' pump records shall be maintained in the IP Records Center.

3. Record of Tests

The pump test record shall include the following information:

- a. Date of test.
- b. Measured and observed quantities.
- c. Instruments used.
- d. Comparisons with allowable ranges of test values.
- e. Analysis of any deviations in test quantities.
- f. Corrective action requirements.
- g. Signatures of personnel conducting the test and analyzing the results.

H. Instruments

1. Accuracy

Instrument accuracy shall be within the following limits:

- a. Pressure - $\pm 2\%$ of full scale.
- b. Differential pressure - $\pm 2\%$ of full scale.
- c. Flow rate - $\pm 2\%$ of full scale.
- d. Speed - $\pm 2\%$ of full scale.
- e. Vibration amplitude - $\pm 5\%$ of full scale.
- f. Temperature = $\pm 5\%$ of full scale.

2. Range

The full scale range of each instrument shall not exceed 3 times the reference value of the parameter being measured.

3. Calibration

Instruments shall be calibrated in accordance with schedules and procedures established for each instrument.

III. VALVE TESTING

A. Scope

The requirements of this program plan apply to certain safety-related valves (and their actuating and position indicating systems) which are required to perform a specific function in shutting down the reactor to a cold shutdown condition or in mitigating the consequences of an accident. The following valves are exempt from the requirements of this plan:

1. Valves used for operating conveniences (such as manual vent, drain, instruments, and test valves).
2. Valves used for system control (such as pressure regulating valves).
3. Valves used only for maintenance.
4. External control and protection systems responsible for sensing plant conditions and providing signals for valve operation.

The valves which are to be tested under this plan and their ASME Category are listed in Table II.

B. Frequency of Testing

1. Seat leakage tests shall be performed at least once every 2 years.
2. Valve exercising and stroke timing shall be performed every 3 months unless such testing is not practical during normal plant operations. Those instances where this frequency is not practical shall be identified.
3. Relief valve setpoints shall be verified in accordance with a schedule that provides for all applicable relief valves to be tested every 5 years.

4. At least 20% of the charges in explosively actuated valves shall be removed, fired, and replaced every 2 years with charges from a fresh batch. A sample charge from the fresh batch shall have been tested satisfactorily. Charges shall not be older than 10 years.
5. Valves with remote position indication shall be observed at least once every 2 years to verify that valve indication is accurately indicated.
6. When systems are declared inoperable or not required to operate for extended periods, the exercising and stroke timing schedule need not be followed; however, within 30 days prior to returning the system to operable status, the valves shall be tested as applicable and the test frequency resumed.
7. Illinois Power Company will perform testing during cold shutdowns as follows:
 - a. Testing shall commence no later than 48 hours after cold shutdown is reached, and continue until complete or the plant is ready to return to power.
 - b. Completion of all valve testing is not a prerequisite to return to power.
 - c. Any testing not completed during one cold shutdown will be performed during any subsequent cold shutdowns starting from the last test performed at the previous cold shutdown.
 - d. For planned cold shutdowns, where ample time is available for testing all of the valves identified which require the cold shutdown test frequency, all will be tested although testing may not begin within 48 hours.

C. Inservice Test Requirements

The following table identifies the types of tests required for each valve.

CATEGORY	VALVE FUNCTION	SEAT LEAKAGE TEST	STROKE TIME TEST	EXERCISE TEST	SPECIAL TEST
A	Active	Yes	Yes	Yes	No
A	Passive	Yes	No	No	No
B	Active	No	Yes	Yes	No
B	Passive	No	No	No	No
C-Relief Valves	Active	No	No	No	Yes
	Passive	No	No	No	No
C-Check Valves	Active	No	No	Yes	No
	Passive	No	No	No	No
D	Active	No	No	No	Yes
D	Passive	No	No	No	No

D. Baseline Values

1. Preservice baseline values have been established for valves included in this program.
2. When a valve or its control system has been replaced, repaired, or has undergone maintenance that could affect performance and prior to the time it is returned to service, it shall be tested to demonstrate that the affected performance parameters are within acceptable limits. The results of these tests shall be used during subsequent inservice testing as appropriate.

E. Test Procedures

Test procedures utilized for inservice testing shall include the following requirements:

1. Seat Leakage Tests

a. Valve seat leakage tests shall be made with the pressure differential in the same direction as when the valve is performing its function unless on the following exceptions is taken:

i) Globe valves may be tested with pressure under the seat.

ii) Butterfly valves may be tested in either direction if their seat construction is designed for sealing against pressure from both sides.

iii) Gate valves with 2-piece disks may be tested by pressurizing between the seats.

iv) Valves (except check valves) may be tested in either direction if the functional differential pressure is 25 psi or less.

v) Types of valves in which service pressure tends to diminish overall leakage may be tested at lower than service differential pressure. In such cases, the observed leakage (l_t) shall be adjusted. This adjustment shall be made by utilizing the following formula:

$$l_f = l_t \frac{P_f}{P_t}$$

l_t = observed leakage

l_f = functional leakage

P_t = test pressure

P_f = functional pressure

b. Seat leakage shall be measured by one of the methods described in IWV-3424 or other equivalent method.

c. Seat leakage rates shall be evaluated for acceptability by comparing the test results with previous test results and the maximum permissible leakage rate.

2. Valve Exercising

- a. Valves shall be exercised to the position required to fulfill their function.
- b. Valve disk movement shall be determined by observing an indicator that signals the required change of disk position, or observing indirect evidence (changes in system pressure, flow rate, level, or temperature) which reflect stem or disk position.
- c. Check valves which are normally open and are required to prevent reverse flow shall be tested in a manner that proves the disk travels to the seat promptly on the cessation or reversal of flow.
- d. Check valves which are normally shut and whose function is to open on reversal of pressure differential shall be tested by proving that the disk moves away from the seat when the closing pressure is removed and flow through the valve is initiated, or when a mechanical force is applied to the disk.
- e. Valves with fail-safe actuators shall be tested by observing the operation of the valves upon loss of actuator power.

3. Valve Stroke Timing

- a. Stroke time shall be that time interval from initiation of the actuating signal to the desired position indication.
- b. The stroke time of valves shall be rounded up to the nearest second.
- c. For all valves except those that are air operated, the limiting value of full stroke time for valves shall be determined using the most conservative of the following values:

- 1) Design Specification
 - 2) Technical Specification
 - 3) USAR commitments
 - 4) For valves with full stroke time less than or equal to 10 seconds the Max.
Allowable Stroke Time = Initial Base Line Time x 2
 - 5) For valves with full stroke times greater than 10 seconds the Max.
Allowable Stroke Time = Initial Base Line Time x 1.5.
- d. For air operated valves, the limiting value shall be determined using the most conservative of the values:
- 1) Design Specifications
 - 2) Technical Specification
 - 3) USAR commitments
 - 4) For valves with full stroke time less than or equal to 5 seconds the Max.
Allowable Stroke Time = 10 seconds (10 seconds was determined by review of all air operated valves with initial stroke times less than 5 seconds. These initial stroke times varied from 0.98 seconds to 4.93 seconds.
 - 5) For valves with full stroke times greater than 5 seconds and less than or equal to 10 seconds the Max. Allowable Stroke Time = Initial Baseline Time x 2.
 - 6) For valves with full stroke times greater than 10 seconds the Max.
Allowable Stroke Time = Initial Baseline Time x 1.5.

4. Relief Valve Testing

Relief valve set points shall be tested in accordance with ASME PTC 25.3-1976

5. Fail-Safe Valves (Loss of Power Testing)

Valves with fail-safe actuators shall be tested by observing the operation of the valves upon loss of actuator power.

6. Position Indication Verification

Valves with remote position indicators shall be observed to verify that valve operation is accurately indicated. Position indication testing shall be satisfied with an operator at the valve to verify actual valve movement in the proper direction against remote indication.

F. Analysis of Results/Corrective Action

1. Seat Leakage Tests

If the leakage rate exceeds the maximum permissible rate the valve shall be repaired or replaced.

2. Exercising and Stroke Time

- a. If a valve fails to exhibit the required change of stem or disk position or exceeds its specified limiting value of full stroke time, the valve shall be considered inoperable.
- b. When corrective action is required as a result of tests performed during cold shutdown periods, the condition must be corrected prior to starting the plant up.
- c. The test frequency for power operated valves shall be increased to once per month if:
 - i) For valves with stroke times greater than 10 seconds, the valve exhibits an increase in stroke time of more than 25% from the last test.
 - ii) For valves with stroke times of 10 seconds or less, the valve exhibits an increase in stroke time of more than 50% from the last test.
 - iii) For valves which have been given a reference stroke time per Relief Request 2032, the valve exhibits an increase in stroke time of greater than 50% from the reference valve.

3. Relief Valve Testing

A relief valve failing to function properly during testing shall be repaired or replaced.

4. Explosive Valve Testing

If a charge fails to fire, all charges with the same batch number shall be removed, destroyed, and replaced with charges from a fresh batch from which a sample charge shall have been tested satisfactorily.

G. Inservice Test Records

1. Summary Listing

The Cognizant Plant Engineer shall maintain a log of the valves in this program and the current status of the program.

2. Preservice Tests

Preservice test results and manufacturers' functional test results shall be maintained in the IP Records Center.

3. Test Results

The test results records shall include the following:

- ° Component Identification Number
- ° Test Required/Performed
- ° Test Method
- ° Measured Quantities
- ° Acceptance criteria
- ° Dated signature of the individual responsible for the test.

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PUMP AND VALVE TESTING PROGRAM PLAN

TABLE 1--PUMPS

Page 1

EIN	EQUIPMENT NAME	TYPE OF TEST	FREQUENCY	RELIEF REQUEST
0VC08PA	Control Room HVAC Chilled Water Pump A 1	Pump	3 Month	3001
0VC08PB	Control Room HVAC Chilled Water Pump B	Pump	3 Month	3001
1C41-C001A	Standby Liquid Control (SLC) Pump A	Pump	3 Month	3001,3003,3005
1C41-C001B	Standby Liquid Control (SLC) Pump B	Pump	3 Month	3001,3003,3005
1D001PA	Diesel Oil Transfer Pump A	Pump	3 Month	3001,3002
1D001PB	Diesel Oil Transfer Pump B	Pump	3 Month	3001,3002
1D001PC	Diesel Oil Transfer Pump C	Pump	3 Month	3001,3002
1E12-C002A	Residual Heat Removal (RHR) Pump A	Pump	3 Month	3001
1E12-C002B	Residual Heat Removal (RHR) Pump B	Pump	3 Month	3001
1E12-C002C	Residual Heat Removal (RHR) Pump C	Pump	3 Month	3001
1E12-C003	RHR Water Leg Pump	Pump	3 Month	3001,3006
1E21-C001	Low Pressure Core Spray (LPCS) Pump	Pump	3 Month	3001
1E21-C002	LPCS and RHR Loop A Water Leg Pump	Pump	3 Month	3001,3006
1E22-C001	High Pressure Core Spray (HPCS) Pump	Pump	3 Month	3001
1E22-C003	HPCS Water Leg Pump	Pump	3 Month	3001,3006
1E51-C001	Reactor Core Isolation Cooling (RCIC) Pump	Pump	3 Month	
1E51-C003	RCIC Water Leg Pump	Pump	3 Month	3001,3006
1FC02PA	Fuel Pool Cooling and Clean-Up Pump A	Pump	3 Month	3001
1FC02PB	Fuel Pool Cooling and Clean-Up Pump B	Pump	3 Month	3001
1SX01PA	Shutdown Service Water Pump A	Pump	3 Month	3001
1SX01PB	Shutdown Service Water Pump B	Pump	3 Month	3001
1SX01PC	Shutdown Service Water Pump C	Pump	3 Month	3001

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TABLE II--VALVES

Page 1

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
OMC009	G	4	2	A	MO	O	C	M05-1042/4;E-5	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
OMC010	G	4	2	A	MO	O	C	M05-1042/4;D-5	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
ORA026	CV	1	2	A	AO	O	C	M05-1065/7;D-8	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2032 2011,2034	
ORA027	CV	1	2	A	AO	O	C	M05-1065/7;D-7	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2032 2011,2034	
ORA028	CV	1	2	B	AO	O	C	M05-1065/7;D-6	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	
ORA029	CV	1	2	B	AO	O	C	M05-1065/7;D-5	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	
OVC010A	CV	2	3	B	AO	O	O	M05-1102/5;A-7	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
OVC010B	CV	2	3	B	AO	O	O	M05-1102/6;A-7	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
OVC017A	C	2	3	C		C	O	M05-1102/5;F-7	Exercise	3 Month		
OVC017B	C	2	3	C		C	O	M05-1102/6;F-7	Exercise	3 Month		
OVC020A	C	2	3	B		C	C	M05-1102/5;F-7	Exercise	3 Month		
OVC020B	C	2	3	B		C	C	M05-1102/6;F-7	Exercise	3 Month		
OVC022A	CV	1.5	3	B	AO	C	O	M05-1102/5;F-7	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
OVC022B	CV	1.5	3	B	AO	C	O	M05-1102/6;F-7	Stroke Time (Exercise, Loss of Power)	3 Month	2032	

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TABLE II--VALVES

Page 2

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
OVC025A	R	1x1.5	3	C		C	O	M05-1102/5;E-6	Bench	5 Year		
OVC025B	R	1x1.5	3	C		C	O	M05-1102/6;E-6	Bench	5 Year		
1B21-F001	GL	2	1	A-P*	MO	C	C	M05-1071/2;D-4	Leak Rate Position Indication	2 Year 2 Year	2011	
1B21-F002	GL	2	1	A-P*	MO	C	C	M05-1071/2;E-4	Leak Rate Position Indication	2 Year 2 Year	2011	
1B21-F010A	NC	18	1	A/C		O	C,O	M05-1004;C-7	Exercise (Open) Leak Rate (Exercise Closed)	Cold Shutdown Cold Shutdown	2011,2034	CSJ-16
1B21-F010B	NC	18	1	A/C		O	C,O	M05-1004;A-7	Exercise (Open) Leak Rate (Exercise Closed)	Cold Shutdown Cold Shutdown	2011,2034	CSJ-16
1B21-F016	G	3	1	A	MO	O	C	M05-1002/1;B-1	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1B21-F019	G	3	1	A	MO	O	C	M05-1002/1;B-1	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1B21-F022A	GL	24	1		AO	O	C	M05-1002/1;C-2	Stroke Time (Exercise, Loss of Power) Partial Exercise Leak Rate Position Indication	Cold Shutdown 3 Month 18 Month 18 Month	2011,2034	CSJ-1
1B21-F022B	GL	24	1	A	AO	O	C	M05-1002/1;F-2	Stroke Time (Exercise, Loss of Power) Partial Exercise Leak Rate Position Indication	Cold Shutdown 3 Month 18 Month 18 Month	2011,2034	CSJ-1
1B21-F022C	GL	24	1	A	AO	O	C	M05-1002/1;A-2	Stroke Time (Exercise, Loss of Power) Partial Exercise Leak Rate Position Indication	Cold Shutdown 3 Month 18 Month 18 Month	2011,2034	CSJ-1

* Passive valve

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TABLE II--VALVES

Page 3

EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1B21-F022D	GL	24	1	A	AO	O	C	M05-1002/1;D-2	Stroke Time (Exercise, Loss of Power) Partial Exercise Leak Rate Position Indication	Cold Shutdown 3 Month 18 Month 18 Month	2011,2034	CSJ-1
1B21-F024A	C	0.5	3	C		O	C	M10-9002/5	Exercise	Cold Shutdown		CSJ-2
1B21-F024B	C	0.5	3	C		O	C	M10-9002/5	Exercise	Cold Shutdown		CSJ-2
1B21-F024C	C	0.5	3	C		O	C	M10-9002/5	Exercise	Cold Shutdown		CSJ-2
1B21-F024D	C	0.5	3	C		O	C	M10-9002/5	Exercise	Cold Shutdown		CSJ-2
1B21-F028A	GL	24	1	A	AO	O	C	M05-1002/2;C-5	Stroke Time (Exercise, Loss of Power) Partial Exercise Leak Rate Position Indication	Cold Shutdown 3 Month 18 Month 18 Month	2011,2034	CSJ-1
1B21-F028B	GL	24	1	A	AO	O	C	M05-1002/2;F-5	Stroke Time (Exercise, Loss of Power) Partial Exercise Leak Rate Position Indication	Cold Shutdown 3 Month 18 Month 18 Month	2011,2034	CSJ-1
1B21-F028C	GL	24	1	A	AO	O	C	M05-1002/2;B-5	Stroke Time (Exercise, Loss of Power) Partial Exercise Leak Rate Position Indication	Cold Shutdown 3 Month 18 Month 18 Month	2011,2034	CSJ-1
1B21-F028D	GL	24	1	A	AO	O	C	M05-1002/2;E-5	Stroke Time (Exercise, Loss of Power) Partial Exercise Leak Rate Position Indication	Cold Shutdown 3 Month 18 Month 18 Month	2011,2034	CSJ-1
1B21-F029A	C	0.5	3	C		O	C	M10-9002/5	Exercise	Cold Shutdown		CSJ-2
1B21-F029B	C	0.5	3	C		O	C	M10-9002/5	Exercise	Cold Shutdown		CSJ-2

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TABLE II--VALVES

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1B21-F029C	C	0.5	3	C		O	C	M10-9002/5	Exercise	Cold Shutdown		CSJ-2
1B21-F029D	C	0.5	3	C		O	C	M10-9002/5	Exercise	Cold Shutdown		CSJ-7
1B21-F032A	NC	20	1	A/C	AO	O	C,O	M05-1004;C-6	Exercise (Open) Leak Rate(Exer Closed, Loss of Power)	Cold Shutdown Cold Shutdown	2011,2034	CSJ-1f
1B21-F032B	NC	20	1	A/C	AO	O	C,O	M05-1004;A-6	Exercise (Open) Leak Rate(Exer Closed, Loss of Power)	Cold Shutdown Cold Shutdown	2011,2034	CSJ-16
1B21-F036A	C	0.5	3	C		C	C	M10-9002/2	Exercise	Cold Shutdown		CSJ-3
1B21-F036F	C	0.5	3	C		C	C	M10-9002/2	Exercise	Cold Shutdown		CSJ-3
1B21-F036G	C	0.5	3	C		C	C	M10-9002/2	Exercise	Cold Shutdown		CSJ-3
1B21-F036J	C	0.5	3	C		C	C	M10-9002/2	Exercise	Cold Shutdown		CSJ-3
1B21-F036L	C	0.5	3	C		C	C	M10-9002/2	Exercise	Cold Shutdown		CSJ-3
1B21-F036M	C	0.5	3	C		C	C	M10-9002/2	Exercise	Cold Shutdown		CSJ-3
1B21-F036N	C	0.5	3	C		C	C	M10-9002/2	Exercise	Cold Shutdown		CSJ-3
1B21-F036P	C	0.5	3	C		C	C	M10-9002/2	Exercise	Cold Shutdown		CSJ-3
1B21-F036R	C	0.5	3	C		C	C	M10-9002/2	Exercise	Cold Shutdown		CSJ-3
1B21-F037A	VR	10	3	C		C	O,C	M05-1002/1;C-6	Exercise	Cold Shutdown		CSJ-6
1B21-F037B	VR	10	3	C		C	O,C	M05-1002/1;E-6	Exercise	Cold Shutdown		CSJ-6
1B21-F037C	VR	10	3	C		C	O,C	M05-1002/1;A-7	Exercise	Cold Shutdown		CSJ-6
1B21-F037D	VR	10	3	C		C	O,C	M05-1002/1;D-7	Exercise	Cold Shutdown		CSJ-6
1B21-F037E	VR	10	3	C		C	O,C	M05-1002/1;E-4	Exercise	Cold Shutdown		CSJ-6

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1B21-F037F	VR	10	3	C		C	O,C	M05-1002/1;A-5	Exercise	Cold Shutdown		CSJ-6
1B21-F037G	VR	10	3	C		C	O,C	M05-1002/1;A-4	Exercise	Cold Shutdown		CSJ-6
1B21-F037H	VR	10	3	C		C	O,C	M05-1002/1;C-5	Exercise	Cold Shutdown		CSJ-6
1B21-F037J	VR	10	3	C		C	O,C	M05-1002/1;E-7	Exercise	Cold Shutdown		CSJ-6
1B21-F037K	VR	10	3	C		C	O,C	M05-1002/1;A-5	Exercise	Cold Shutdown		CSJ-6
1B21-F037L	VR	10	3	C		C	O,C	M05-1002/1;D-6	Exercise	Cold Shutdown		CSJ-6
1B21-F037M	VR	10	3	C		C	O,C	M05-1002/1;E-3	Exercise	Cold Shutdown		CSJ-6
1B21-F037N	VR	10	3	C		C	O,C	M05-1002/1;E-5	Exercise	Cold Shutdown		CSJ-6
1B21-F037P	VR	10	3	C		C	O,C	M05-1002/1;A-6	Exercise	Cold Shutdown		CSJ-6
1B21-F037R	VR	10	3	C		C	O,C	M05-1002/1;D-5	Exercise	Cold Shutdown		CSJ-6
1B21-F037S	VR	10	3	C		C	O,C	M05-1002/1;A-3	Exercise	Cold Shutdown		CSJ-6
1B21-F039B	C	0.5	3	A/C		C	O,C	M10-9002/1	Leak Rate (Exercise)	Cold Shutdown	2029,2011	CSJ-3
1B21-F039C	C	0.5	3	A/C		C	O,C	M10-9002/1	Leak Rate (Exercise)	Cold Shutdown	2029,2011	CSJ-3
1B21-F039D	C	0.5	3	A/C		C	O,C	M10-9002/1	Leak Rate (Exercise)	Cold Shutdown	2029,2011	CSJ-3
1B21-F039E	C	0.5	3	A/C		C	O,C	M10-9002/1	Leak Rate (Exercise)	Cold Shutdown	2029,2011	CSJ-3
1B21-F039H	C	0.5	3	A/C		C	O,C	M10-9002/1	Leak Rate (Exercise)	Cold Shutdown	2029,2011	CSJ-3
1B21-F039K	C	0.5	3	A/C		C	O,C	M10-9002/1	Leak Rate (Exercise)	Cold Shutdown	2029,2011	CSJ-3
1B21-F039S	C	0.5	3	A/C		C	O,C	M10-9002/1	Leak Rate (Exercise)	Cold Shutdown	2029,2011	CSJ-3
1B21-F041A	SR	8x10	1	C	AO	C	O	M05-1002/1;C-6	Position Indication Bench	2 Year 5 Year	2036	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1B21-F041B	SR	8x10	1	B/C	AO	C	O	M05-1002/1;F-7	Stroke Time (Exercise, Loss of Power) Position Indication Bench	Refueling 2 Year 5 Year	2012 2036	
1B21-F041C	SR	8x10	1	B/C	AO	C	O	M05-1002/1;B-8	Stroke Time (Exercise, Loss of Power) Position Indication Bench	Refueling 2 Year 5 Year	2012 2036	
1C21-F041D	SR	8x10	1	B/C	AO	C	O	M05-1002/1;D-8	Stroke Time (Exercise, Loss of Power) Position Indication Bench	Refueling 2 Year 5 Year	2012 2036	
1B21-F041F	SR	8x10	1	B/C	AO	C	O	M05-1002/1;F-5	Stroke Time (Exercise, Loss of Power) Position Indication Bench	Refueling 2 Year 5 Year	2012 2036	
1B21-F041G	SR	8x10	1	C	AO	C	O	M05-1002/1;B-6	Position Indication Bench	2 Year 5 Year	 2036	
1B21-F041L	SR	8x10	1	C	AO	C	O	M05-1002/1;B-4	Position Indication Bench	2 Year 5 Year	 2036	
1B21-F047A	SR	8x10	1	B/C	AO	C	O	M05-1002/1;C-6	Stroke Time (Exercise, Loss of Power) Position Indication Bench	Refueling 2 Year 5 Year	2012 2036	
1B21-F047B	SR	8x10	1	C	AO	C	O	M05-1002/1;F-8	Position Indication Bench	2 Year 5 Year	 2036	
1B21-F047C	SR	8x10	1	B/C	AO	C	O	M05-1002/1;B-5	Stroke Time (Exercise, Loss of Power) Position Indication Bench	Refueling 2 Year 5 Year	2012 2036	
1B21-F047D	SR	8x10	1	C	AO	C	O	M05-1002/1;D-7	Position Indication Bench	2 Year 5 Year	 2036	
1B21-F047F	SR	8x10	1	C	AO	C	O	M05-1002/1;F-4	Position Indication Bench	2 Year 5 Year	 2036	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1B21-F051B	SR	8x10	1	C	AO	C	O	M05-1002/1;F-6	Position Indication Bench	2 Year 5 Year	2036	
1B21-F051C	SR	8x10	1	C	AO	C	O	M05-1002/1;B-7	Position Indication Bench	2 Year 5 Year	2036	
1B21-F051D	SR	8x10	1	C	AO	C	O	M05-1002/1;D-6	Position Indication Bench	2 Year 5 Year	2036	
1B21-F051G	SR	8x10	1	B/C	AO	C	O	M05-1002/1;B-4	Stroke Time (Exercise, Loss of Power) Position Indication Bench	Refueling 2 Year 5 Year	2012 2036	
1B21-F065A	G	20	2	A	MO	O	C	M05-1004;C-5	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 2 Year	2011,2034	CSJ-8
1B21-F065B	G	20	2	A	MO	O	C	M05-1004;A-5	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 2 Year	2011,2034	CSJ-8
1B21-F067A	GL	1.5	1	A	MO	O	C	M05-1002/2;C-6	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 18 Month	2011,2034	
1B21-F067B	GL	1.5	1	A	MO	O	C	M05-1002/2;E-6	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 18 Month	2011,2034	
1B21-F067C	GL	1.5	1	A	MO	O	C	M05-1002/2;A-6	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 18 Month	2011,2034	
1B21-F067D	GL	1.5	1	A	MO	O	C	M05-1002/2;D-6	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 18 Month	2011,2034	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1B21-F078A	VR	10	3	C		C	O,C	M05-1002/1;C-6	Exercise	Cold Shutdown		CSJ-6
1B21-F078B	VR	10	3	C		C	O,C	M05-1002/1;E-6	Exercise	Cold Shutdown		CSJ-6
1B21-F078C	VR	10	3	C		C	O,C	M05-1002/1;A-7	Exercise	Cold Shutdown		CSJ-6
1B21-F078D	VR	10	3	C		C	O,C	M05-1002/1;D-7	Exercise	Cold Shutdown		CSJ-6
1B21-F078E	VR	10	3	C		C	O,C	M05-1002/1;E-4	Exercise	Cold Shutdown		CSJ-6
1B21-F078F	VR	10	3	C		C	O,C	M05-1002/1;A-5	Exercise	Cold Shutdown		CSJ-6
1B21-F078G	VR	10	3	C		C	O,C	M05-1002/1;A-4	Exercise	Cold Shutdown		CSJ-6
1B21-F078H	VR	10	3	C		C	O,C	M05-1002/1;C-5	Exercise	Cold Shutdown		CSJ-6
1B21-F078J	VR	10	3	C		C	O,C	M05-1002/1;E-7	Exercise	Cold Shutdown		CSJ-6
1B21-F078K	VR	10	3	C		C	O,C	M05-1002/1;A-5	Exercise	Cold Shutdown		CSJ-6
1B21-F078L	VR	10	3	C		C	O,C	M05-1002/1;D-6	Exercise	Cold Shutdown		CSJ-6
1B21-F078M	VR	10	3	C		C	O,C	M05-1002/1;E-3	Exercise	Cold Shutdown		CSJ-6
1B21-F078N	VR	10	3	C		C	O,C	M05-1002/1;E-5	Exercise	Cold Shutdown		CSJ-6
1B21-F078P	VR	10	3	C		C	O,C	M05-1002/1;A-6	Exercise	Cold Shutdown		CSJ-6
1B21-F078R	VR	10	3	C		C	O,C	M05-1002/1;D-5	Exercise	Cold Shutdown		CSJ-6
1B21-F078S	VR	10	3	C		C	O,C	M05-1002/1;A-3	Exercise	Cold Shutdown		CSJ-6
1B21-F379A	VR	2	3	C		C	O,C	M05-1002/1;F-7	Exercise	Cold Shutdown		CSJ-7
1B21-F379B	VR	2	3	C		C	O,C	M05-1002/1;F-6	Exercise	Cold Shutdown		CSJ-7
1B21-F379C	VR	2	3	C		C	O,C	M05-1002/1;F-5	Exercise	Cold Shutdown		CSJ-7

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1B21-F379D	VR	2	3	C		C	O,C	M05-1002/1;F-4	Exercise	Cold Shutdown		CSJ-7
1B21-F379E	VR	2	3	C		C	O,C	M05-1002/1;F-3	Exercise	Cold Shutdown		CSJ-7
1B21-F379F	VR	2	3	C		C	O,C	M05-1002/1;E-7	Exercise	Cold Shutdown		CSJ-7
1B21-F379G	VR	2	3	C		C	O,C	M05-1002/1;E-6	Exercise	Cold Shutdown		CSJ-7
1B21-F379H	VR	2	3	C		C	O,C	M05-1002/1;E-5	Exercise	Cold Shutdown		CSJ-7
1B21-F379J	VR	2	3	C		C	O,C	M05-1002/1;C-6	Exercise	Cold Shutdown		CSJ-7
1B21-F379K	VR	2	3	C		C	O,C	M05-1002/1;C-5	Exercise	Cold Shutdown		CSJ-7
1B21-F379L	VR	2	3	C		C	O,C	M05-1002/1;B-7	Exercise	Cold Shutdown		CSJ-7
1B21-F379M	VR	2	3	C		C	O,C	M05-1002/1;B-6	Exercise	Cold Shutdown		CSJ-7
1B21-F379N	VR	2	3	C		C	O,C	M05-1002/1;B-5	Exercise	Cold Shutdown		CSJ-7
1B21-F379P	VR	2	3	C		C	O,C	M05-1002/1;B-5	Exercise	Cold Shutdown		CSJ-7
1B21-F379Q	VR	2	3	C		C	O,C	M05-1002/1;B-4	Exercise	Cold Shutdown		CSJ-7
1B21-F379R	VR	2	3	C		C	O,C	M05-1002/1;B-3	Exercise	Cold Shutdown		CSJ-7
1B21-F433A	C	0.5	3	C		O	C	M10-9004/8	Exercise	Cold Shutdown		CSJ-4
1B21-F433B	C	0.5	3	C		O	C	M10-9004/8	Exercise	Cold Shutdown		CSJ-4
1B33-F019	CV	0.75	2	B	AO	O	C	M05-1072/1;E-5	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	
1B33-F020	CV	0.75	2	B	AO	O	C	M05-1072/1;E-8	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	
1C11-114 **	C	0.75	0	C		C	O	CLN-001	Exercise	10%/120 days	2024	

** Typical (145 of each)

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1C11-115 **	C	0.5	0	A/C		O	C	CLN-001	Leak Rate (Exercise)	Refueling	2023,2011	
1C11-126 **	DIA	1	0	B	AO	C	O	CLN-001	Stroke Time (Exercise, Loss of Power)	10%/120 days	2024	
1C11-127 **	DIA	0.75	0	B	AO	C	O	CLN-001	Stroke Time (Exercise, Loss of Power)	10%/120 days	2024	
1C11-138 **	C	0.5	0	C		O	C	CLN-001	Exercise	3 Month	2025	
1C11-139 **	DIA	0.75	0	B	SO	C	O	CLN-001	Stroke Time (Exercise, Loss of Power)	10%/120 days	2024	
1C11-F010	GL	1	2	B	AO	O	C	CLN-001	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	
1C11-F011	GL	2	2	B	AO	O	C	CLN-001	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	
1C11-F083	GL	2	2	A	MO	O	C	M05-1078/1;E-1	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 2 Year	2011,2034	CSJ-9
1C11-F122	C	2	2	A/C		O	C	M05-1078/1;C-7	Leak Rate (Exercise)	Refueling	2002,11,34	
1C11-F180	GL	1	2	B	AO	O	C	CLN-001	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year		
1C11-F181	GL	2	2	B	AO	O	C	CLN-001	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year		
1C11-F376A	C	0.25	0	A/C		O	O,C	M05-1078/1	Leak Rate (Exercise)	Cold Shutdown		
1C11-F376B	C	0.25	0	A/C		O	O,C	M05-1078/1	Leak Rate (Exercise)	Cold Shutdown		
1C11-F377A	C	0.25	0	A/C		O	O,C	M05-1078/1	Leak Rate (Exercise)	Cold Shutdown		
1C11-F377B	C	0.25	0	A/C		O	O,C	M05-1078/1	Leak Rate (Exercise)	Cold Shutdown		
1C41-F001A	GL	3	2	B	MO	C	O	M05-1077;C-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		

** Typical (145 of each)

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1C41-F001B	GL	3	2	B	MO	C	O	M05-1077;E-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1C41-F004A	EX	1.5	1	D		C	O	M05-1077;C-3	Explosive	Alt Refueling		
1C41-F004B	EX	1.5	1	D		C	O	M05-1077;D-3	Explosive	Alt Refueling		
1C41-F006	NC	3	1	C		C	O,C	M05-1077;D-2	Exercise (Open) Exercise (Closed) Exercise (Open) alternate	Refueling Cold Shutdown Cold Shutdown	2030	CSJ-24
1C41-F029A	R	1.5x2	2	C		C	O	M05-1077;C-4	Bench	5 Year		
1C41-F029B	R	1.5x2	2	C		C	O	M05-1077;E-4	Bench	5 Year		
1C41-F033A	NC	1.5	2	C		C	O,C	M05-1077;C-4	Exercise (Open) Exercise (Full Stroke)	3 Month Cold Shutdown		CSJ-24
1C41-F033B	NC	1.5	2	C		C	O,C	M05-1077;D-4	Exercise (Open) Exercise (Full Stroke)	3 Month Cold Shutdown		CSJ-24
1C41-F336	C	4	1	C		C	O,C	M05-1077;E-1	Exercise (Open) Leak Rate (Exercise Closed)	Refueling Refueling	2023	
1CC049	G	10	2	A	MO	O	C	M05-1032/3;C-8	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2011,2034	CSJ-10
1CC050	G	6	2	A	MO	O	C	M05-1032/3;C-7	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2011,2034	CSJ-10
1CC053	G	6	2	A	MO	O	C	M05-1032/3;C-3	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2011,2034	CSJ-10
1CC054	G	10	2	A	MO	O	C	M05-1032/3;C-1	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2011,2034	CSJ-10

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1CC057	G	8	2	B	MO	O	C	M05-1032/3;D-8	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-10
1CC060	G	8	2	A	MO	O	C	M05-1032/3;C-2	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2011,2034	CSJ-10
1CC071	G	4	2	A	MO	C	C	M05-1032/3;E-2	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1CC072	G	4	2	A	MO	C	C	M05-1032/3;E-1	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1CC073	G	4	2	A	MO	C	C	M05-1032/3;F-1	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1CC074	G	4	2	A	MO	C	C	M05-1032/3;F-2	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1CC075A	B	14	3	B	MO	O	C	M05-1032/2;E-3	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1CC075B	B	14	3	B	MO	O	C	M05-1032/2;C-3	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1CC076A	B	14	3	B	MO	O	C	M05-1032/2;D-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1CC076B	B	14	3	B	MO	O	C	M05-1032/2;C-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1CC127	G	8	2	A	MO	O	C	M05-1032/3;D-8	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2011,2034	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1CC128	G	8	2	B	MO	O	C	M05-1032/3;C-2	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		
1CC280A	R	0.75x1	3	C		C	O	M05-1032/2	Bench	5 Year		
1CC280B	R	0.75x1	3	C		C	O	M05-1032/2	Bench	5 Year		
1CM002A	EFC	0.75	2	A/C		O	C	M05-1034/1;B-7	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1CM002B	EFC	0.75	2	A/C		O	C	M05-1034/1;A-7	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1CM003A	EFC	0.75	2	A/C		O	C	M05-1034/1;B-4	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1CM003B	EFC	0.75	2	A/C		O	C	M05-1034/1;B-7	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1CM011	G	0.75	2	A	SO	O	C	M05-1034/2;C-7	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011, 2034	
1CM012	G	0.75	2	A	SO	O	C	M05-1034/2;C-6	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011, 2034	
1CM022	G	0.75	2	A	SO	C	C	M05-1034/2;D-3	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011, 2034	
1CM023	G	0.75	2	A	SO	C	C	M05-1034/2;D-3	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011, 2034	

*** Tested by ILRT during alternate refueling outages

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1CM025	G	0.75	2	A	SO	C	C	M05-1034/2;C-3	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1CM026	G	0.75	2	A	SO	C	C	M05-1034/2;C-3	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1CM047	G	0.75	2	A	SO	O	C	M05-1034/2;D-6	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1CM048	G	0.75	2	A	SO	O	C	M05-1034/2;D-7	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1CM051	EFC	0.75	2	A/C		O	C	M05-1034/2;C-6	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1CM053	EFC	0.75	2	A/C		O	C	M05-1034/3;C-5	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1CM066	EFC	0.75	2	A/C		O	C	M05-1071/1;F-3	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1CM067	EFC	0.75	2	A/C		O	C	M05-1071/1;E-6	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1CY016	G	6	2	A	MO	O	C	M05-1012/6;C-6	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1CY017	G	6	2	A	MO	O	C	M05-1012/6;C-6	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	

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						NORMAL	TEST					
1CY020	G	3	2	B	MO	O	C	M05-1012/6;D-3	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1CY021	G	3	2	B	MO	O	C	M05-1012/6;D-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1DG006A	R	0.75x1	O	C		C	O	M05-1035/1;E-6	Bench	5 Year		
1DG006B	R	0.75x1	O	C		C	O	M05-1035/1;D-6	Bench	5 Year		
1DG006C	R	0.75x1	O	C		C	O	M05-1035/2;E-6	Bench	5 Year		
1DG006D	R	0.75x1	O	C		C	O	M05-1035/2;D-6	Bench	5 Year		
1DG006E	R	0.75x1	O	C		C	O	M05-1035/3;E-6	Bench	5 Year		
1DG006F	R	0.75x1	O	C		C	O	M05-1035/3;D-6	Bench	5 Year		
1DG008A	DIA	2	O	B	SO	C	O	M05-1035/1;E-3	Stroke Time (Exercise)	3 Month	2026	
1DG008B	DIA	2	O	B	SO	C	O	M05-1035/1;C-3	Stroke Time (Exercise)	3 Month	2026	
1DG008C	DIA	2	O	B	SO	C	O	M05-1035/1;F-3	Stroke Time (Exercise)	3 Month	2026	
1DG008D	DIA	2	O	B	SO	C	O	M05-1035/1;B-3	Stroke Time (Exercise)	3 Month	2026	
1DG008E	DIA	2	O	B	SO	C	O	M05-1035/2;E-3	Stroke Time (Exercise)	3 Month	2026	
1DG008F	DIA	2	O	B	SO	C	O	M05-1035/2;C-3	Stroke Time (Exercise)	3 Month	2026	
1DG008G	DIA	2	O	B	SO	C	O	M05-1035/2;F-3	Stroke Time (Exercise)	3 Month	2026	
1DG008H	DIA	2	O	B	SO	C	O	M05-1035/2;B-3	Stroke Time (Exercise)	3 Month	2026	
1DG008J	DIA	2	O	B	SO	C	O	M05-1035/3;E-3	Stroke Time (Exercise) Stroke Time (Exercise) -Alt Procedure	3 Month 3 Month	2026 2026	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1DG008K	DIA	2	0	B	SO	C	O	M05-1035/3;D-3	Stroke Time (Exercise) Stroke Time (Exercise) -Alt Procedure	3 Month 3 Month	2026 2026	
1DG168	C	1.25	0	A/C		C	C	M05-1035/1;E-7	Leak Rate (Exercise)	3 Month	2029,2011	
1DG169	C	1.25	0	A/C		C	C	M05-1035/1;C-7	Leak Rate (Exercise)	3 Month	2029,2011	
1DG170	C	1.25	0	A/C		C	C	M05-1035/2;E-7	Leak Rate (Exercise)	3 Month	2029,2011	
1DG171	C	1.25	0	A/C		C	C	M05-1035/2;C-7	Leak Rate (Exercise)	3 Month	2029,2011	
1DG172	C	1.25	0	A/C		C	C	M05-1035/3;E-7	Leak Rate (Exercise) Leak Rate (Exercise) -Alt Procedure	3 Month 3 Month	2029,2011	
1DG173	C	1.25	0	A/C		C	C	M05-1035/3;C-7	Leak Rate (Exercise) Leak Rate (Exercise) -Alt Procedure	3 Month 3 Month	2029,2011	
1D0001A	C	1.5	3	C		C	O	M05-1036/1;B-1	Exercise	3 Month		
1D0001B	C	1.5	3	C		C	O	M05-1036/1;B-5	Exercise	3 Month		
1D0001C	C	1.5	3	C		C	O	M05-1036/2;B-3	Exercise	3 Month		
1D0005A	R	0.75x1	3	C		C	O	M05-1036/1;C-1	Bench	5 Year		
1D0005B	R	0.75x1	3	C		C	O	M05-1036/1;C-5	Bench	5 Year		
1D0005C	R	0.75x1	3	C		C	O	M05-1036/2;C-3	Bench	5 Year		
1E12-F003A	GL	14	2	B	MO	O	O	M05-1075/4;C-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F003B	GL	14	2	B	MO	O	O	M05-1075/4;C-7	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F004A	G	20	2	A	MO	O	O,C	M05-1075/1;A-4	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 2 Year	2011,2034	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E12-F004B	G	20	2	A	MO	O	O,C	M05-1075/2;A-6	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 2 Year	2011,2034	
1E12-F005	R	1.5x2	2	C		C	O	M05-1075/1;B-5	Bench	5 Year		
1E12-F006A	G	16	2	B	MO	C	C	M05-1075/1;A-5	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F006B	G	16	2	B	MO	C	C	M05-1075/2;A-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F008	G	18	1	A	MO	C	C	M05-1075/1;B-4	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 18 Month 18 Month	2011,2034	CSJ-11
1E12-F009	G	18	1	A	MO	C	C	M05-1075/1;B-2	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 18 Month 18 Month	2011,2034	CSJ-11
1E12-F011A	GL	4	2	A	MO	C	C	M05-1075/4;D-4	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 18 Month	2011,2034	
1E12-F011B	GL	4	2	A	MO	C	C	M05-1075/2;C-3	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 18 Month	2011,2034	
1E12-F014A	G	18	3	B	MO	C	O	M05-1052/1;D-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F014B	G	18	3	B	MO	C	O	M05-1052/2;D-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F017A	R	1.5x2	2	A/C		C	O,C	M05-1075/1;B-6	Leak Rate Bench	18 Month 5 Year	2011,2034	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E12-F017B	R	1.5x2	2	A/C		C	O,C	M05-1075/2;B-6	Leak Rate Bench	18 Month 5 Year	2011,2034	
1E12-F019	C	4	1	C		C	O	M05-1075/3;C-5	Exercise	Cold Shutdown		CSJ-18
1E12-F021	GL	14	2	A	MO	C	C	M05-1075/3;D-3	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 18 Month	2011,2034	
1E12-F023	GL	4	1	A	MO	C	O,C	M05-1075/2;C-5	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 18 Month 18 Month	2011,2034	CSJ-11
1E12-F024A	G	14	2	A	MO	C	O,C	M05-1075/1;C-7	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 18 Month	2011,2034	
1E12-F024B	G	14	2	A	MO	C	O,C	M05-1075/2;C-2	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 18 Month	2011,2034	
1E12-F025A	R	1x1.5	2	A/C		C	O,C	M05-1075/1;D-4	Leak Rate Bench	2 Year 5 Year	2011,2034	
1E12-F025B	R	1x1.5	2	A/C		C	O,C	M05-1075/2;E-5	Leak Rate Bench	2 Year 5 Year	2011,2034	
1E12-F025C	R	1x1.5	2	A/C		C	O,C	M05-1075/3;F-3	Leak Rate Bench	18 Month 5 Year	2011,2034	
1E12-F026A	G	4	2	B	MO	C	C	M05-1075/4;E-3	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F026B	G	4	2	B	MO	C	C	M05-1075/4;E-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F027A	G	12	2	A	MO	O	O,C	M05-1075/1;D-4	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 2 Year	2011,2034	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E12-F027B	G	12	2	A	MO	O	O,C	M05-1075/2;D-5	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 2 Year	2011,2034	
1E12-F028A	G	10	2	A	MO	C	O,C	M05-1075/1;F-3	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 7 Year 2 Year	2011,2034	
1E12-F028B	G	10	2	A	MO	C	O,C	M05-1075/2;F-6	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 2 Year	2011,2034	
1E12-F030	R	1x1.5	2	A-P*		C	C	M05-1075/2;B-3	Leak Rate	18 Month	2011	
1E12-F031A	NC	14	2	C		C	O,C	M05-1075/1;B-E	Exercise (Open) Exercise (Closed)	3 Month 3 Month		
1E12-F031B	NC	14	2	C		C	O,C	M05-1075/2;B-1	Exercise (Open) Exercise (Closed)	3 Month 3 Month		
1E12-F031C	NC	14	2	C		C	O,C	M05-1075/3;D-1	Exercise (Open) Exercise (Closed)	3 Month 3 Month		
1E12-F036	R	4x6	2	A/C		C	O,C	M05-1075/4;F-5	Leak Rate Bench	18 Month 5 Year	2011,2034	
1E12-F037A	GL	10	2	A	MO	C	C	M05-1075/1;F-2	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1E12-F037B	GL	10	2	A	MO	C	C	M05-1075/1;F-7	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1E12-F040	GL	3	2	B	MO	C	C	M05-1075/2;E-1	Position Indication Stroke Time (Exercise)	2 Year 3 Month		

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						NORMAL	TEST					
1E12-F041A	NC	12	1	A/C	AO	C	O,C	M05-1075/1;D-2	Exercise Leak Rate Position Indication	Refueling 18 Month 2 Year	2014 2011,2034	
1E12-F041B	NC	12	1	A/C	AO	C	O,C	M05-1075/2;D-7	Exercise Leak Rate Position Indication	Refueling 18 Month 2 Year	2014 2011,2034	
1E12-F041C	NC	12	1	A/C	AO	C	O,C	M05-1075/3;E-7	Exercise Leak Rate Position Indication	Refueling 18 Month 2 Year	2014 2011,2034	
1E12-F042A	G	12	1	A	MO	C	O,C	M05-1075/1;D-3	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 18 Month 2 Year	2011,2034	CSJ-11
1E12-F042B	G	12	1	A	MO	C	O,C	M05-1075/2;D-6	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 18 Month 2 Year	2011,2034	CSJ-11
1E12-F042C	G	12	1	A	MO	C	O,C	M05-1075/3;E-5	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 18 Month 2 Year	2011,2034	CSJ-11
1E12-F046A	C	4	2	C		O	O	M05-1075/1;B-7	Exercise	3 Month		
1E12-F046B	C	4	2	C		O	O	M05-1075/2;B-2	Exercise	3 Month		
1E12-F046C	C	4	2	C		O	O	M05-1075/3;B-2	Exercise	3 Month		
1E12-F047A	G	14	2	B	MO	O	O	M05-1075/4;C-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F047B	G	14	2	B	MO	O	O	M05-1075/4;C-8	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F048A	GL	14	2	B	MO	O	O,C	M05-1075/1;C-8	Stroke Time (Exercise) Position Indication	3 Month 2 Year		

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E12-F048B	GL	14	2	B	MO	O	O,C	M05-1075/2;C-1	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F049	G	3	2	A	MO	C	C	M05-1075/2;E-1	Leak Rate Position Indication Stroke Time (Exercise)	18 Month 2 Year 3 Month	2011	
1E12-F050A	NC	10	2	A/C		C	O,C	M05-1075/1;D-5	Exercise (Open) Leak Rate (Alternate Exercise Closed) Exercise (Closed)	Cold Shutdown 18 Month Cold Shutdown	2011	CSJ-11
1E12-F050B	NC	10	2	A/C		C	O,C	M05-1075/2;E-5	Exercise (Open) Leak Rate (Alternate Exercise Closed) Exercise (Closed)	Cold Shutdown 18 Month Cold Shutdown	2011	CSJ-11
1E12-F051A	G	6	2	A-P*	AO	C	C	M05-1075/4;F-2	Stroke Time (Exercise) Leak Rate	3 Month 18 Month	2011	
1E12-F051B	G	6	2	A-P*	AO	C	C	M05-1075/4;F-6	Stroke Time (Exercise) Leak Rate	3 Month 18 Month	2011	
1E12-F052A	GL	8	2	B	MO	C	C	M05-1075/4;E-4	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F052B	GL	8	2	B	MO	C	C	M05-1075/4;E-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F053A	GL	10	2	A	MO	C	O,C	M05-1075/1;D-6	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 18 Month 18 Month	2011,2034	CSJ-11
1E12-F053B	GL	10	2	A	MO	C	O,C	M05-1075/2;E-4	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 18 Month 18 Month	2011,2034	CSJ-11
1E12-F054A	C	4	2	C		C	O	M05-1075/4;D-3	Exercise	3 Month		

* Passive valve

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						NORMAL	TEST					
1E12-F054B	C	4	2	C		C	O	M05-1075/4;D-6	Exercise	3 Month		
1E12-F055A	R	8x12	2	A/C		C	O,C	M05-1075/4;C-2	Leak Rate Bench	18 Month 5 Year	2011,2034	
1E12-F055B	R	8x12	2	A/C		C	O,C	M05-1075/4;C-7	Leak Rate Bench	18 Month 5 Year	2011,2034	
1E12-F060A	G	0.75	2	B	SO	C	C	M05-1075/4;B-4	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2013	
1E12-F060B	G	0.75	2	B	SO	C	C	M05-1075/4;B-5	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2013	
1E12-F064A	G	4	2	A	MO	O	O,C	M05-1075/1;B-8	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 2 Year	2011,2034	
1E12-F064B	G	4	2	A	MO	O	O,C	M05-1075/2;B-1	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 2 Year	2011,2034	
1E12-F064C	G	4	2	A	MC	O	O,C	M05-1075/3;B-1	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 2 Year	2011,2034	
1E12-F065A	G	4	2	B-P	AO	C	C	M05-1075/4;D-3	Stroke Time (Exercise)	3 Month		
1E12-F065B	G	4	2	B-P	AO	C	C	M05-1075/4;D-6	Stroke Time (Exercise)	3 Month		
1E12-F068A	G	18	3	B	MO	C	O	M05-1052/1;C-1	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F068B	G	18	3	B	MO	C	O	M05-1052/2;C-1	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F075A	G	0.75	2	B	SO	C	C	M05-1075/4;B-4	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2013	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E12-F075B	G	0.75	2	B	SO	C	C	M05-1075/4;B-5	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2013	
1E12-F084A	C	2.5	2	C		O	O	M05-1075/1;B-7	Exercise (Open) Exercise (Closed) ****	3 Month 3 Month		
1E12-F084B	C	2.5	2	C		O	O	M05-1075/2;B-2	Exercise (Open) Exercise (Closed) ****	3 Month 3 Month		
1E12-F084C	C	2.5	2	C		O	O	M05-1075/3;E-2	Exercise (Open) Exercise (Closed) ****	3 Month 3 Month		
1E12-F085A	GSC	2	2	C		O	O,C	M05-1075/1;B-8	Exercise (Open) Exercise (Closed) ****	3 Month 3 Month	2008	
1E12-F085B	GSC	2	2	C		O	O,C	M05-1075/2;B-1	Exercise (Open) Exercise (Closed) ****	3 Month 3 Month	2008	
1E12-F085C	GSC	2	2	C		O	O,C	M05-1075/3;E-1	Exercise (Open) Exercise (Closed) ****	3 Month 3 Month	2008	
1E12-F087A	G	6	2	A-P*	MO	C	C	M05-1075/4;E-3	Stroke Time (Exercise) Leak Rate	3 Month 18 Month	2011	
1E12-F087B	G	6	2	A-P*	MO	C	C	M05-1075/4;E-7	Stroke Time (Exercise) Leak Rate	3 Month 18 Month	2011	
1E12-F094	G	4	3	B	MO	C	C	M05-1075/4;E-7	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F096	G	4	2	B	MO	C	C	M05-1075/4;E-7	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E12-F098	C	4	2	C		C	O	M05-1075/4;D-7	Exercise	3 Month		
1E12-F101	R	1x1.5	2	A/C		C	O,C	M05-1075/3;C-5	Leak Rate Bench	18 Month 5 Year	2011,2034	

* Passive valve

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E12-F105	G	20	2	A	MO	O	O,C	M05-1075/3;B-5	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 2 Year	2011,2034	
1E12-F475	C	1	2	A/C		C	O,C	M05-1075/1;B-2	Leak Rate (Exercise Closed) Exercise (Open)	Refueling Refueling	2011,18,34 2018	
1E21-F001	G	20	2	A	MO	O	O,C	M05-1073;B-4	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 2 Year	2011,2034	
1E21-F003	NC	12	2	C		C	O,C	M05-1073;E-6	Exercise (Open) Exercise (Closed)	3 Month 3 Month		
1E21-F005	G	10	1	A	MO	C	O,C	M05-1073;E-4	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 18 Month 2 Year	2011,2034	CSJ-11
1E21-F006	NC	10	1	A/C	AO	C	O,C	M05-1073;E-2	Exercise Leak Rate Position Indication	Refueling 18 Month 2 Year	2014 2011,2034	
1E21-F011	G	4	2	A	MO	O	O,C	M05-1073;D-6	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 2 Year	2011,2034	
1E21-F012	GL	10	2	A	MO	C	C	M05-1073;D-5	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 18 Month	2011,2034	
1E21-F018	R	1.5x2	2	A/C		C	O,C	M05-1073;E-5	Leak Rate Bench	18 Month 5 Year	2011,2034	
1E21-F031	R	1.5x1	2	A/C		C	O,C	M05-1073;C-8	Leak Rate Bench	18 Month 5 Year	2011,2034	
1E21-F033	C	2.5	2	C		O	O	M05-1073;D-6	Exercise (Open) Exercise (Closed) ****	3 Month 3 Month		

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E21-F034	GSC	2	2	C		O	O,C	M05-1073;D-6	Exercise (Open) Exercise (Closed) ****	3 Month 3 Month	2008	
1E21-F303	NC	10	2	C		C	O	M05-1073;C-5	Exercise	3 Month		
1E22-F001	G	16	2	B	MO	O	C	M05-1074;A-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E22-F002	C	16	2	C		O	O	M05-1074;A-5	Exercise Exercise - Alt Method	3 Month 3 Month		
1E22-F004	G	10	1	A	MO	C	O,C	M05-1074;E-7	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 18 Month 2 Year	2011,2034	CSJ-11
1E22-F005	NC	10	1	A/C	AO	C	O,C	M05-1074;E-8	Exercise Leak Rate Position Indication	Refueling 18 Month 2 Year	2014 2011,2034	
1E22-F006	GSC	2	2	C	M	O	O,C	M05-1074;D-4	Exercise (Open) Exercise (Closed) ****	3 Month 3 Month	2008	
1E22-F007	C	2.5	2	C		O	O	M05-1074;D-4	Exercise (Open) Exercise (Closed) ****	3 Month 3 Month		
1E22-F010	GL	10	2	B	MO	C	C	M05-1074;D-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E22-F011	GL	10	2	A	MO	C	C	M05-1074;D-5	Stroke Time (Exercise) Position Indication Leak Rate	3 Month 2 Year 2 Year		
1E22-F012	G	4	2	A	MO	C	O,C	M05-1074;D-3	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 2 Year	2011,2034	
1E22-F014	R	1x0.75	2	A/C		C	O,C	M05-1074;C-5	Leak Rate Bench	18 Month 5 Year	2011,2034	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E22-F015	G	20	2	A	MO	C	O,C	M05-1074;B-7	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 2 Year	2011,2034	
1E22-F016	C	20	2	C		C	O	M05-1074;B-6	Exercise Exercise - Alt Method	3 Month 3 Month		
1E22-F023	GL	10	2	A	MO	C	C	M05-1074;D-6	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 18 Month	2011,2034	
1E22-F024	NC	14	2	C		C	O,C	M05-1074;E-3	Exercise (Open) Exercise (Closed)	3 Month 3 Month		
1E22-F035	R	1x0.75	2	A/C		C	O,C	M05-1074;E-3	Leak Rate Bench	18 Month 5 Year	2011,2034	
1E22-F039	R	1x0.75	2	A/C		C	O,C	M05-1074;C-6	Leak Rate Bench	18 Month 5 Year	2011,2034	
1E22-F330	EFC	0.75	2	A/C		O	C	M10-9074/3	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1E22-F332	EFC	0.75	2	A/C		O	C	M10-9074/3	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1E31-F014	G	1	2	B	SO	O	C	M05-1041/4;E-8	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2013	
1E31-F015	G	1	2	B	SO	O	C	M05-1041/4;E-7	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2013	
1E31-F017	G	1	2	B	SO	O	C	M05-1041/4;C-7	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2013	

*** Tested by ILRT during alternate refueling outages

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E31-F018	G	1	2	B	SO	O	C	M05-1041/4;C-8	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2013	
1E32-F001A	GL	1.5	1	A	MO	C	O,C	M05-1070;C-7	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 18 Month 2 Year	2011,2034	CSJ-19
1E32-F001E	GL	1.5	1	A	MO	C	O,C	M05-1070;E-7	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 18 Month 2 Year	2011,2034	CSJ-19
1E32-F001J	GL	1.5	1	A	MO	C	O,C	M05-1070;B-7	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 18 Month 2 Year	2011,2034	CSJ-19
1E32-F001N	GL	1.5	1	A	MO	C	O,C	M05-1070;D-7	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 18 Month 2 Year	2011,2034	CSJ-19
1E32-F002A	GL	1.5	2	B	MO	C	O,C	M05-1070;C-7	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-19
1E32-F002E	GL	1.5	2	B	MO	C	O,C	M05-1070;E-7	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-19
1E32-F002J	GL	1.5	2	B	MO	C	O,C	M05-1070;B-7	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-19
1E32-F002N	GL	1.5	2	B	MO	C	O,C	M05-1070;D-7	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-19
1E32-F003A	GL	1.5	2	B	MO	C	O,C	M05-1070;C-7	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-19
1E32-F003E	GL	1.5	2	B	MO	C	O,C	M05-1070;E-7	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-19

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E32-F003J	GL	1.5	2	B	MO	C	O,C	M05-1070;A-7	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-19
1E32-F003N	GL	1.5	2	B	MO	C	O,C	M05-1070;D-7	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-19
1E32-F006	G	2.5	2	B	MO	C	O,C	M05-1070;C-4	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-19
1E32-F007	G	2.5	2	B	MO	C	O,C	M05-1070;C-3	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-19
1E32-F008	G	2.5	2	B	MO	C	O,C	M05-1070;A-4	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-19
1E32-F009	G	2.5	2	B	MO	C	O,C	M05-1070;A-3	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-19
1E32-F010	C	0.75	2	C		C	O,C	M05-1070;E-4	Exercise (Open) Exercise (Closed)	Cold Shutdown 3 Month		CSJ-20
1E32-F011	C	0.75	2	C		C	O,C	M05-1070;B-2	Exercise (Open) Exercise (Closed)	Cold Shutdown 3 Month		CSJ-20
1E32-F315A	C	0.75	2	C		C	O,C	M05-1070;A-4	Exercise (Open) Exercise (Closed)	Cold Shutdown 3 Month		CSJ-20
1E32-F315B	C	0.75	2	C		C	O,C	M05-1070;A-4	Exercise (Open) Exercise (Closed)	Cold Shutdown 3 Month		CSJ-20
1E32-F315C	C	0.75	2	C		C	O,C	M05-1070;A-4	Exercise (Open) Exercise (Closed)	Cold Shutdown 3 Month		CSJ-20
1E32-F315D	C	0.75	2	C		C	O,C	M05-1070;A-4	Exercise (Open) Exercise (Closed)	Cold Shutdown 3 Month		CSJ-20
1E51-C002E	G	4	2	B	MO	O	C	M05-1079/2;D-3	Stroke Time (Exercise) Position Indication	3 Month 2 Year		

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E51-F004	CV	1	2	B	AO	O	C	M05-1079/1;B-1	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	
1E51-F005	CV	1	2	B	AO	C	C	M05-1079/1;B-2	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	
1E51-F010	G	6	2	B	MO	O	C	M05-1079/2;A-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E51-F011	C	6	2	C		C	O	M05-1079/2;A-4	Exercise	3 Month		
1E51-F013	G	6	1	A	MO	C	O,C	M05-1079/2;F-6	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 18 Month 2 Year	2011,2034	CSJ-11
1E51-F018	R	2x3	2	C		C	O	M05-1079/2;C-5	Bench	5 Year		
1E51-F019	GL	2	2	A	MO	C	O,C	M05-1079/2;D-6	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 2 Year	2011,2034	
1E51-F021	C	2.5	2	C		C	O	M05-1079/2;D-5	Exercise	3 Month		
1E51-F022	GL	4	2	B	MO	C	C	M05-1079/2;E-5	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E51-F025	CV	1	2	B	AO	O	C	M05-1079/1;D-5	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	
1E51-F026	CV	1	2	B	AO	O	C	M05-1079/1;D-5	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	
1E51-F030	C	6	2	C		C	O	M05-1079/2;B-4	Exercise	3 Month		
1E51-F031	G	6	2	A	MO	C	O,C	M05-1079/2;C-6	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 18 Month	2011,2034	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E51-F040	C	12	2	A/C		C	O,C	M05-1079/1;C-4	Exercise (Open) Leak Rate (Alternate Exercise Closed) Exercise (Closed)	3 Month 18 Month 3 Month	2011,2034	
1E51-F045	GL	4	2	B	MO	C	O,C	M05-1079/1;D-4	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E51-F046	GL	2	2		MO	C	O	M05-1079/2;C-3	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E51-F059	G	4	2		MO	C	C	M05-1079/2;E-5	Stroke Time (Exercise) Position Indication Leak Rate	3 Month 2 Year 2 Year		
1E51-F061	C	2.5	2	C		O	O	M05-1079/2;B-4	Exercise	3 Month		
1E51-F062	C	2	2	C		O	O	M05-1079/2;B-4	Exercise	3 Month		
1E51-F063	G	8	1	A	MO	O	C	M05-1079/1;E-8	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1E51-F064	G	8	1	A	MO	O	C	M05-1079/1;E-5	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1E51-F065	NC	4	1	C		C	O	M05-1079/2;E-6	Exercise	Cold Shutdown		CSJ-21
1E51-F066	NC	4	1	A/C		C	O,C	M05-1079/2;F-8	Exercise (Open) Leak Rate (Exercise Closed)	Cold Shutdown 18 Month	2011,2034	CSJ-11
1E51-F068	G	12	2	A	MO	O	C	M05-1079/1;C-5	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 2 Year	2011,2034	
1E51-F076	GL	1	1	A	MO	C	C	M05-1079/1;E-8	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1E51-F077	GL	1.5	2	A	MO	O	C	M05-1079/1;C-5	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1E51-F078	G	3	2	A	MO	O	C	M05-1079/1;C-6	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1E51-F079	VR	2	2	C		C	O	M05-1079/1;C-6	Exercise	3 Month		
1E51-F081	VR	2	2	C		C	O	M05-1079/1;C-6	Exercise	3 Month		
1E51-F090	R	0.75x1	2	A/C		C	O,C	M05-1079/2;E-5	Leak Rate Bench	18 Month 5 Year	2011,2034	
1E51-F095	G	1	2	B	MO	C	O,C	M05-1079/1;D-4	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1E51-F377A	EFC	0.75	2	A/C		O	C	M10-9079/2	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1E51-F377B	EFC	0.75	2	A/C		O	C	M10-9079/2	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1FC004A	CV	8	3	B	AO	O	O	M05-1037/3;E-5	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year		
1FC004B	CV	8	3	B	AO	O	O	M05-1037/3;A-5	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year		
1FC007	G	10	2	A	MO	O	C	M05-1037/1;B-2	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1FC008	G	10	2	A	MO	O	C	M05-1037/1;B-1	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	

*** Tested by ILRT during alternate refueling outages

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1FC011A	B	14	3	B	MO	O	O,C	M05-1037/3;E-7	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1FC011B	B	14	3	B	MO	O	O,C	M05-1037/3;A-7	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1FC013A	NC	14	3	C		O	O,C	M05-1037/3;E-7	Exercise Open Exercise Close	3 Month 3 Month		
1FC013B	NC	14	3	C		O	O,C	M05-1037/3;A-7	Exercise Open Exercise Close	3 Month 3 Month		
1FC015A	B	14	3	B	MO	O	O	M05-1037/3;E-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1FC015B	B	14	3	B	MO	O	O	M05-1037/3;A-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1FC016A	B	8	3	B	MO	O	C	M05-1037/3;D-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1FC016B	B	8	3	B	MO	O	C	M05-1037/3;C-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1FC017	B	8	3	B	AO	O	C	M05-1037/3;C-6	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year		
1FC023	B	8	3	B	AO	O	C	M05-1037/3;C-3	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	
1FC024A	B	8	3	B	MO	O	C	M05-1037/3;E-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1FC024B	B	8	3	B	MO	O	C	M05-1037/3;C-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1FC026A	B	14	3	B	MO	O	O,C	M05-1037/3;E-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1FC026B	B	14	3	B	MO	O	O,C	M05-1037/3;B-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1FC036	G	8	2	A	MO	O	C	M05-1037/1;E-1	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1FC037	G	8	2	A	MO	O	C	M05-1037/1;E-2	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1FC091	R	4x6	3	C		C	O	M05-1037/3;E-1	Bench	5 Year		
1FP050	G	6	2	A	MO	O	C	M05-1039/9;D-3	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1FP051	G	10	2	A-P	MO	O	C	M05-1039/9;C-7	Leak Rate Position Indication	2 Year 18 Month	2011,2034	
1FP052	G	10	2	A	MO	O	C	M05-1039/9;C-6	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1FP053	G	10	2	A	MO	O	C	M05-1039/9;C-4	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1FP054	G	10	2	A-P	MO	O	C	M05-1039/9;C-2	Leak Rate Position Indication	2 Year 18 Month	2011,2034	
1FP078	G	4	2	B-P	MO	C	C	M05-1039/9;D-5	Position Indication	2 Year		
1FP079	G	4	2	B-P	MO	C	C	M05-1039/9;D-6	Position Indication	2 Year		
1FP092	G	6	2	A	MO	O	C	M05-1039/9;D-3	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1G33-F001	G	6	1	A	MO	O	C	M05-1076/4;B-8	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2011,2034	CSJ-22
1G33-F004	G	6	1	A	MO	O	C	M05-1076/4;B-5	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2011,2034	CSJ-22
1G33-F028	G	4	2	A	MO	C	C	M05-1076/4;E-8	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1G33-F034	G	4	2	A	MO	C	C	M05-1076/4;E-7	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011	
1G33-F039	G	4	2	A	MO	O	C	M05-1076/4;D-7	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2011,2034	CSJ-22
1G33-F040	G	4	2	A	MO	O	C	M05-1076/4;D-8	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2011,2034	CSJ-22
1G33-F051	NC	4	2	C		O	C	M05-1076/4;D-6	Exercise	Alt Refueling	2033	
1G33-F052A	NC	4	2	C		O	C	M05-1076/4;D-5	Exercise	Alt Refueling	2033	
1G33-F052B	NC	4	2	C		O	C	M05-1076/4;D-5	Exercise	Alt Refueling	2033	
1G33-F053	G	4	2	A	MO	O	C	M05-1076/4;C-8	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2011,2034	CSJ-22
1G33-F054	G	4	2	A	MO	O	C	M05-1076/4;C-7	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2011,2034	CSJ-22

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						NORMAL	TEST					
1HG001	B	2	2	A	MO	C	O,C	M05-1063;D-3	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1HG004	B	2	2	A	MO	C	O,C	M05-1063;C-3	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1HG005	B	2	2	A	MO	C	O,C	M05-1063;E-3	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1HG008	B	2	2	A	MO	C	O,C	M05-1063;E-3	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1HG009A	G	6	2	B	MO	C	O,C	M05-1063;E-4	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1HG009B	G	6	2	B	MO	C	O,C	M05-1063;E-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1HG010A	VR	10	2	C		C	O,C	M05-1063;C-4	Exercise (Actuator) Position Indication Exercise (Set Point)	3 Month 2 Year Cold Shutdown		CSJ-23
1HG010B	VR	10	2	C		C	O,C	M05-1063;C-7	Exercise (Actuator) Position Indication Exercise (Set Point)	3 Month 2 Year Cold Shutdown		CSJ-23
1HG010C	VR	10	2	C		C	O,C	M05-1063;B-4	Exercise (Actuator) Position Indication Exercise (Set Point)	3 Month 2 Year Cold Shutdown		CSJ-23
1HG010D	VR	10	2	C		C	O,C	M05-1063;B-7	Exercise (Actuator) Position Indication Exercise (Set Point)	3 Month 2 Year Cold Shutdown		CSJ-23

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						NORMAL	TEST					
1HG011A	VR	10	2	C		C	O,C	M05-1063;C-4	Exercise (Actuator) Position Indication Exercise (Set Point)	3 Month 2 Year Cold Shutdown		CSJ-23
1HG011B	VR	10	2	C		C	O,C	M05-1063;C-6	Exercise (Actuator) Position Indication Exercise (Set Point)	3 Month 2 Year Cold Shutdown		CSJ-23
1HG011C	VR	10	2	C		C	O,C	M05-1063;B-4	Exercise (Actuator) Position Indication Exercise (Set Point)	3 Month 2 Year Cold Shutdown		CSJ-23
1HG011D	VR	10	2	C		C	O,C	M05-1063;B-6	Exercise (Actuator) Position Indication Exercise (Set Point)	3 Month 2 Year Cold Shutdown		CSJ-23
11A005	CV	3	2	A	AO	O	C	M05-1040/5;D-2	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2011,2034	CSJ-12
11A006	CV	3	2	A	AO	O	C	M05-1040/5;D-3	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2011,2034	CSJ-12
11A007	CV	3	2	B	AO	O	C	M05-1040/5;D-3	Stroke Time (Exercise, Loss of Power) Position Indication	Cold Shutdown 2 Year		CSJ-12
11A008	CV	3	2	B	AO	O	C	M05-1040/5;D-3	Stroke Time (Exercise, Loss of Power) Position Indication	Cold Shutdown 2 Year		CSJ-12
11A012A	GL	1	2	A	MO	O	O,C	M05-1040;7;D-2	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 2 Year	2011,2034	
11A012B	GL	1	2	A	MO	O	C	M05-1040/7;C-3	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
11A013A	GL	1	2	A	MO	O	O,C	M05-1040/7;D-7	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 2 Year	2011,2034	
11A013B	GL	1	2	A	MO	O	C	M05-1040/7;C-6	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
11A042A	C	1	2	A/C		O	C,O	M05-1040/7;D-6	Exercise Leak Rate	Cold Shutdown 2 Year	2011,2034	CSJ-5
11A042B	C	1	2	A/C		O	C,O	M05-1040/7;D-4	Exercise Leak Rate	Cold Shutdown 2 Year	2011,2034	CSJ-5
11A128A	R	1.5x3	D	C		C	O	M05-1040/7;E-7	Bench	5 Year		
11A128B	R	1.5x3	D	C		C	O	M05-1040/7;E-2	Bench	5 Year		
11A175	C	0.5	2	A/C		O	C	M05-1040/5;E-3	Leak Rate (Exercise)	2 Year	2011,22,34	
1PS004	G	0.75	2	A	SO	C	C	M05-1045/12;E-6	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS005	G	0.75	2	A	SO	C	C	M05-1045/12;E-6	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS009	G	0.75	2	A	SO	C	C	M05-1045/12;E-6	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS010	G	0.75	2	A	SO		C	M05-1045/12;E-5	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS016	G	0.5	2	A	SO	C	C	M05-1045/12;E-5	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1PS017	G	0.5	2	A	SO	C	C	M05-1045/12;E-5	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS022	G	0.5	2	A	SO	C	C	M05-1045/12;E-4	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS023	G	0.5	2	A	SO	C	C	M05-1045/12;E-4	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS031	G	0.75	2	A	SO	C	C	M05-1045/12;E-2	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS032	G	0.75	2	A	SO	C	C	M05-1045/12;E-2	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS034	G	0.75	2	A	SO	C	C	M05-1045/12;F-1	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS035	G	0.75	2	A	SO	C	C	M05-1045/12;E-1	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS037	G	0.75	2	A	SO	C	C	M05-1045/12;E-8	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS038	G	0.75	2	A	SO	C	C	M05-1045/12;E-8	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS043A	G	0.75	2	B	SO	C	C	M05-1045/12;F-2	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2013	

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						NORMAL	TEST					
1PS043B	G	0.75	2	B	SO	C	C	M05-1045/12;F-3	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2013	
1PS044A	G	0.75	2	B	SO	C	C	M05-1045/12;E-2	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2013	
1PS044B	G	0.75	2	B	SO	C	C	M05-1045/12;E-3	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2013	
1PS047	G	0.75	2	A	SO	C	C	M05-1045/12;F-7	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS048	G	0.75	2	A	SO	C	C	M05-1045/12;E-7	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS055	G	0.5	2	A	SO	C	C	M05-1045/12;C-3	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS056	G	0.5	2	A	SO	C	C	M05-1045/12;C-3	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS069	G	0.75	2	A	SO	C	C	M05-1045/12;B-3	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1PS070	G	0.75	2	A	SO	C	C	M05-1045/12;B-3	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	
1RA016A	R	1x1.5	3	C		C	O	M05-1065/8;C-7	Bench	5 Year		
1RA016B	R	1x1.5	3	C		C	O	M05-1065/8;C-3	Bench	5 Year		

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						NORMAL	TEST					
1RE019	CV	3	2	B	AO	O	C	M05-1046/4;A-7	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	
1RE020	CV	3	2	B	AO	O	C	M05-1046/3;A-4	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	
1RE021	CV	3	2	A	AO	O	C	M05-1046/3;B-5	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2032 2011,2034	
1RE022	CV	3	2	A	AO	O	C	M05-1046/3;B-6	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2032 2011,2034	
1RF019	CV	3	2	B	AO	O	C	M05-1047/3;B-2	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	
1RF020	CV	3	2	B	AO	O	C	M05-1047/3;B-3	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	
1RF021	CV	3	2	A	AO	O	C	M05-1047/3;B-6	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2032 2011,2034	
1RF022	CV	3	2	A	AO	O	C	M05-1047/3;B-7	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2032 2011,2034	
1SA029	CV	3	2	A	AO	O	C	M05-1048/6;D-2	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1SA030	CV	3	2	A	AO	O	C	M05-1048/6;D-3	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2032 2011,2034	
1SA031	CV	3	2	B	AO	O	C	M05-1048/6;D-4	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year	2032	

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						NORMAL	TEST					
1SA032	CV	3	2	B	AO	O	C	M05-1048/6;D-5	Stroke Time (Exercise, Loss of Power) Position Indication	3 Month 2 Year		
1SF001	G	10	2	A	MO	C	C	M05-1060;E-5	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1SF002	G	10	2	A	MO	C	C	M05-1060;E-5	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1SF004	G	12	2	A	MO	C	C	M05-1060;C-5	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 18 Month 18 Month	2011,2034	
1SM001A	B	24	2	B	MO	C	O	M05-1069;D-5	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SM001B	B	24	2	B	MO	C	O	M05-1069;D-4	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SM002A	B	24	2	B	MO	C	O	M05-1069;D-5	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SM002B	B	24	2	B	MO	C	O	M05-1069;D-4	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SM003A	R	0.75x1	2	C		C	O	M05-1069;D-5	Bench	5 Year		
1SM003B	R	0.75x1	2	C		C	O	M05-1069;D-4	Bench	5 Year		
1SM008	EFC	0.75	2	A/C		O	C	M05-1069;A-3	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1SM009	EFC	0.75	2	A/C		O	C	M05-1069;C-3	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17

*** Tested by ILRT during alternate refueling outages

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						NORMAL	TEST					
1SM010	EFC	0.75	2	A/C		O	C	M05-1069;C-3	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1SM011	EFC	0.75	2	A/C		O	C	M05-1069;B-4	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1SX001A	NC	30	3	C		C	O	M05-1052/1;D-7	Exercise	3 Month		
1SX001B	NC	30	3	C		C	O	M05-1052/2;D-7	Exercise	3 Month		
1SX001C	NC	10	3	C		C	O	M05-1052/3;D-7	Exercise	3 Month		
1SX003A	B	30	3	B	MO	O	O	M05-1052/1;D-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX003B	B	30	3	B	MO	O	O	M05-1052/2;D-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX003C	B	10	3	B	MO	O	O	M05-1052/3;D-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX004A	B	30	3	B	MO	O	O	M05-1052/1;D-5	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX004B	B	30	3	B	MO	O	O	M05-1052/2;D-5	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX004C	B	10	3	B	MO	O	O	M05-1052/3;D-5	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX006C	B	8	3	B	MO	C	O	M05-1052/3;D-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX008A	B	20	3	B	MO	C	O	M05-1052/1;E-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		

*** Tested by ILRT during alternate refueling outages

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						NORMAL	TEST					
1SX008B	B	20	3	B	MO	C	O	M05-1052/2;E-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX008C	B	8	3	B	MO	C	O	M05-1052/3;D-6	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX010A	CV	2	3	B	AO	C	O	M05-1052/1;E-3	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX010B	CV	2	3	B	AO	C	O	M05-1052/2;E-3	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX010C	CV	1.5	3	B	AO	C	O	M05-1052/3;E-4	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX011A	B	16	3	B	MO	C	C	M05-1052/1;D-3	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX011B	B	16	3	B	MO	C	C	M05-1052/2;E-3	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX012A	B	14	3	B	MO	C	O	M05-1052/1;C-3	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-13
1SX012B	B	14	3	B	MO	C	O	M05-1052/2;C-3	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-13
1SX014A	B	20	3	B	MO	O	C	M05-1052/1;F-3	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX014B	B	20	3	B	MO	O	C	M05-1052/2;F-3	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX014C	B	8	3	B	MO	O	C	M05-1052/3;E-4	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX016A	G	2.5	3	B	MO	C	O,C	M05-1052/1;C-3	Stroke Time (Exercise) Position Indication	Refueling 2 Year	2004	
1SX016B	G	2.5	3	B	MO	C	O,C	M05-1052/2;D-3	Stroke Time (Exercise) Position Indication	Refueling 2 Year	2004	

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TABLE II--VALVES

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1SX020A	B	12	3	B	MO	O	C	M05-1052/1;C-4	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX020B	B	12	3	B	MO	O	C	M05-1052/2;C-4	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX023A	CV	2	3	B	AO	C	O	M05-1052/1;C-2	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX023B	CV	2	3	B	AO	C	O	M05-1052/2;C-2	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX027A	CV	2.5	3	B	AO	C	O	M05-1052/4;D-6	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX027B	CV	2.5	3	B	AO	C	O	M05-1052/4;D-2	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX027C	CV	2.5	3	B	AO	C	O	M05-1052/4;C-2	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX029A	CV	1.5	3	B	AO	C	O	M05-1052/4;D-6	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX029B	CV	1.5	3	B	AO	C	O	M05-1052/4;D-2	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX029C	CV	1.5	3	B	AO	C	O	M05-1052/4;B-2	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX033	CV	2.5	3	B	AO	C	O	M05-1052/4;C-6	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX037	CV	1.5	3	B	AO	C	O	M05-1052/4;B-6	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX041A	CV	2.5	3	B	AO	C	O	M05-1052/3;C-2	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX041B	CV	2.5	3	B	AO	C	O	M05-1052/3;B-2	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX062A	B	14	3	B	MO	C	O	M05-1052/1;B-4	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-13
1SX062B	B	14	3	B	MO	C	O	M05-1052/2;B-4	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-13
1SX063A	B	8	3	B	MO	C	O	M05-1052/1;C-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1SX063B	B	8	3	B	MO	C	O	M05-1052/2;C-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX071A	G	3	3	B	MO	C	C	M05-1052/5;F-7	Stroke Time (Exercise) Position Indication	Refueling 2 Year	2009	
1SX071B	G	3	3	B	MO	C	C	M05-1052/5;F-3	Stroke Time (Exercise) Position Indication	Refueling 2 Year	2009	
1SX073A	G	3	3	B	MO	C	O,C	M05-1052/5;F-6	Stroke Time (Exercise) Position Indication	Refueling 2 Year	2009	
1SX073B	G	3	3	B	MO	C	O,C	M05-1052/5;F-2	Stroke Time (Exercise) Position Indication	Refueling 2 Year	2009	
1SX074A	G	3	3	B	MO	C	C	M05-1052/5;E-7	Stroke Time (Exercise) Position Indication	Refueling 2 Year	2009	
1SX074B	G	3	3	B	MO	C	C	M05-1052/5;E-3	Stroke Time (Exercise) Position Indication	Refueling 2 Year	2009	
1SX076A	G	3	3	B	MO	C	O,C	M05-1052/5;D-7	Stroke Time (Exercise) Position Indication	Refueling 2 Year	2009	
1SX076B	G	3	3	B	MO	C	O,C	M05-1052/5;D-3	Stroke Time (Exercise) Position Indication	Refueling 2 Year	2009	
1SX082A	G	3	3	B	MO	O	C	M05-1052/1;D-1	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX082B	G	3	3	B	MO	O	C	M05-1052/2;D-1	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX088A	G	3	2	A	MO	O	C	M05-1052/5;C-8	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 2 Year	2011,2034	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1SX088B	G	3	2	A	MO	O	C	M05-1052/5;C-4	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 2 Year	2011,2034	
1SX089A	G	3	2	A	MO	O	C	M05-1052/5;C-7	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 2 Year	2011,2034	
1SX089B	G	3	2	A	MO	O	C	M05-1052/5;C-3	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 2 Year	2011,2034	
1SX096A	G	3	2	A	MO	O	C	M05-1052/5;C-5	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 2 Year	2011,2034	
1SX096B	G	3	2	A	MO	O	C	M05-1052/5;C-2	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 2 Year	2011,2034	
1SX097A	G	3	2	A	MO	O	C	M05-1052/5;C-5	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 2 Year	2011,2034	
1SX097B	G	3	2	A	MO	O	C	M05-1052/5;C-1	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 2 Year	2011,2034	
1SX105A	G	3	3	B	MO	C	C	M05-1052/5;D-7	Stroke Time (Exercise) Position Indication	Refueling 2 Year	2009	
1SX105B	G	3	3	B	MO	C	C	M05-1052/5;D-3	Stroke Time (Exercise) Position Indication	Refueling 2 Year	2009	
1SX107A	G	3	3	B	MO	C	O,C	M05-1052/5;D-7	Stroke Time (Exercise) Position Indication	Refueling 2 Year	2009	

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1SX107B	G	3	3	B	MO	C	O,C	M05-1052/5;D-3	Stroke Time (Exercise) Position Indication	Refueling 2 Year	2009	
1SX153A	R	0.75x1	3	C		C	O	M05-1052/1;B-6	Bench	5 Year		
1SX153B	R	0.75x1	3	C		C	O	M05-1052/2;B-6	Bench	5 Year		
1SX157A	R	0.75x1	3	C		C	O	M05-1052/5;C-6	Bench	5 Year		
1SX157B	R	0.75x1	3	C		C	O	M05-1052/5;C-2	Bench	5 Year		
1SX169C	R	0.75x1	3	C		C	O	M05-1052/3;D-2	Bench	5 Year		
1SX173A	G	10	3	B	MO	C	O,C	M05-1052/1;D-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX173B	G	10	3	B	MO	C	O,C	M05-1052/2;D-2	Stroke Time (Exercise) Position Indication	3 Month 2 Year		
1SX181A	CV	2.5	3	B	AO	C	O	M05-1052/1;F-1	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX181B	CV	2.5	3	B	AO	C	O	M05-1052/2;F-1	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX185A	CV	2.5	3	B	AO	C	O	M05-1052/1;E-1	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX185B	CV	2.5	3	B	AO	C	O	M05-1052/2;E-1	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX189	CV	2.5	3	B	AO	C	O	M05-1052/2;B-4	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX193A	CV	1.5	3	B	AO	C	O	M05-1052/1;B-7	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX193B	CV	1.5	3	B	AO	C	O	M05-1052/2;B-4	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX197	CV	2	3	B	AO	C	O	M05-1052/1;B-4	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1SX208A	R	4x6	3	C		C	O	M05-1052/1;D-1	Bench	5 Year		

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1SX208B	R	4x6	3	C		C	O	M05-1052/2;D-1	Bench	5 Year		
1SX209	CV	1.5	3	B	AO	C	O	M05-1052/2;A-1	Stroke Time (Exercise, Loss of Power)	3 Month	2032	
1VG056B	EFC	0.75	2	A/C		O	C	M10-9105/4	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1VG057B	EFC	0.75	2	A/C		O	C	M10-9105/10	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17
1VP004A	G	10	2	A	MO	O	C	M05-1109/2;D-3	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1VP004B	G	10	2	A	MO	O	C	M10-9105/4	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1VP005A	G	10	2	A	MO	O	C	M10-9105/10	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1VP005B	G	10	2	A	MO	O	C	M05-1109/3;D-2	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1VP014A	G	10	2	A	MO	O	C	M05-1109/2;E-3	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1VP014B	G	10	2	A	MO	O	C	M05-1109/3;E-3	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1VP015A	G	10	2	A	MO	O	C	M05-1109/2;E-2	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	

*** Tested by ILRT during alternate refueling outages

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TABLE II--VALVES

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1VP015B	G	10	2	A	MO	O	C	M05-1109/3;E-2	Stroke Time (Exercise) Leak Rate Position Indication	3 Month 2 Year 18 Month	2011,2034	
1VP023A	R	0.75x1	2	A/C		C	O,C	M05-1109/2;D-3	Leak Rate Bench	2 Year 5 Year	2011,2034	
1VP023B	R	0.75x1	2	A/C		C	O,C	M05-1109/3;D-3	Leak Rate Bench	2 Year 5 Year	2011,2034	
1VP027A	R	0.75x1	2	A/C		C	O,C	M05-1109/2;F-3	Leak Rate Bench	2 Year 5 Year	2011,2034	
1VP027B	R	0.75x1	2	A/C		C	O,C	M05-1109/3;F-3	Leak Rate Bench	2 Year 5 Year	2011,2034	
1VQ001A	B	24	2	B-P	AO	C	C	M05-1110/2;C-8	Position Indication	2 Year		
1VQ001B	B	24	2	B-P	AO	C	C	M05-1110/2;C-7	Position Indication	2 Year		
1VQ002	B	24	2	B		C	C	M05-1110/2;C-6	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month		
1VQ003	B	36	2	B	AO	C	C	M05-1110/2;C-5	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month	2032	
1VQ004A	B	36	2	B	AO	C	C	M05-1110/2;D-4	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2032 2011,2034	CSJ-25
1VQ004B	B	36	2	B	AO	C	C	M05-1110/2;D-5	Position Indication Leak Rate Stroke Time (Exercise, Loss of Power)	18 Month 2 Year Cold Shutdown	2011,2034 2032	CSJ-25
1VQ005	B	10	2	B	AO	C	C	M05-1110/2;D-6	Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 3 Month	2032	

ILLINOIS POWER COMPANY
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PUMP AND VALVE TESTING PROGRAM PLAN

TABLE II--VALVES

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1VQ006A	GL	4	2	A-P*	MO	C	C	M05-1110/2;C-4	Position Indication Leak Rate	18 Month 2 Year	2011	
1VQ006B	GL	4	2	A P	MO	C	C	M05-1110/2;C-4	Leak Rate Position Indication	2 Year 18 Month	2011,2034	
1VR001A	B	36	2	A	AO	C	C	M05-1111/1;E-2	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2032 2011,2034	CSJ-25
1VR001B	B	36	2	A	AO	C	C	M05-1111/1;E-1	Position Indication Stroke Time (Exercise, Loss of Power) Leak Rate	18 Month Cold Shutdown 2 Year	2032 2011,2034	CSJ-25
1VR002A	GL	4	2	A-P*	MO	C	C	M05-1111/1;E-2	Leak Rate Position Indication	2 Year 18 Month	2011,2034	
1VR002B	GL	4	2	A-P*	MO	C	C	M05-1111/1;E-1	Leak Rate Position Indication	2 Year 18 Month	2011,2034	
1VR006A	B	12	2	A	AO	O	C	M05-1111/5;E-3	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 18 Month 3 Month	2011,2034 2032	
1VR006B	B	12	2	A	AO	O	C	M05-1111/5;E-2	Stroke Time (Exercise, Loss of Power) Position Indication Leak Rate	3 Month 18 Month 2 Year	2032 2011,2034	
1VR007A	B	12	2	A	AO	O	C	M05-1111/5;B-7	Position Indication Leak Rate Stroke Time (Exercise, Loss of Power)	18 Month 2 Year 3 Month	2011,2034 2032	
1VR007B	B	12	2	A	AO	O	C	M05-1111/5;B-7	Position Indication Stroke Time (Exercise, Loss of Power) Leak Rate	18 Month 3 Month 2 Year	2032 2011,2034	
1VR016A	EFC	0.75	2	A/C		O	C	M10-9111/5	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 3 Year ***	2011	CSJ-17

* Passive valve

*** Tested by ILRT during alternate refueling outages

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TABLE II--VALVES

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1VR016B	EFC	0.75	2	A/C		O	C	M10-9111/5	Leak Rate Position Indication Exercise	3 Year *** 2 Year Cold Shutdown	2011	CSJ-17
1VR018A	EFC	0.75	2	A/C		O	C	M10-9111/5	Leak Rate Exercise Position Indication	3 Year *** Cold Shutdown 2 Year	2011	CSJ-17
1VR018B	EFC	0.75	2	A/C		O	C	M10-9111/5	Leak Rate Exercise Position Indication	3 Year *** Cold Shutdown 2 Year	2011	CSJ-17
1VR035	2WAY	0.75	2	A	SO	O	C	M10-9111/19	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 18 Month 3 Month	2011,2034 2013	
1VR036	2WAY	0.75	2	A	SO	O	C	M10-9111/19	Position Indication Leak Rate Stroke Time (Exercise, Loss of Power)	18 Month 2 Year 3 Month	2011,2034 2013	
1VR040	2WAY	0.75	2	A	SO	O	C	M10-9111/19	Leak Rate Position Indication Stroke Time (Exercise, Loss of Power)	2 Year 18 Month 3 Month	2011,2034 2013	
1VR041	2WAY	0.75	2	A	SO	O	C	M10-9111/19	Stroke Time (Exercise, Loss of Power) Position Indication Leak Rate	3 Month 18 Month 2 Year	2013 2011,2034	
1W0001A	G	6	2	A	MO	O	C	M05-1117/19;E-5	Stroke Time (Exercise) Leak Rate Position Indication	Cold Shutdown 2 Year 18 Month	2011,2034	CSJ-14
1W0001B	G	6	2	A	MO	O	C	M05-1117/19;E-6	Stroke Time (Exercise) Position Indication Leak Rate	Cold Shutdown 18 Month 2 Year	2011,2034	CSJ-14
1W0002A	G	6	2	A	MO	O	C	M05-1117/19;F-5	Position Indication Leak Rate Stroke Time (Exercise)	18 Month 2 Year Cold Shutdown	2011,2034	CSJ-14

*** Tested by ILRT during alternate refueling outages

ILLINOIS POWER COMPANY
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TABLE II--VALVES

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EQUIPMENT NUMBER	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION		P&ID/SHEET; coordinates	REQUIRED TESTS (Additional Tests Satisfied)	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
						NORMAL	TEST					
1W002B	G	6	2	A	MO	O	C	M05-1117/19;F-6	Leak Rate Stroke Time (Exercise) Position Indication	2 Year Cold Shutdown 18 Month	2011,2034	CSJ-14
1W0551A	G	4	2	B	MO	O	C	M05-1117/26;E-7	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-15
*1W0551B	G	4	2	B	MO	O	C	M05-1117/26;E-7	Stroke Time (Exercise) Position Indication	Cold Shutdown 2 Year		CSJ-15
1W0552A	G	4	2	B	MO	O	C	M05-1117/26;D-7	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-15
1W0552B	G	4	2	B	MO	O	C	M05-1117/26;D-7	Position Indication Stroke Time (Exercise)	2 Year Cold Shutdown		CSJ-15
1W0570A	R	0.75x1	2	C		C	O	M05-1117/26;E-7	Bench	5 Year		
1W0570B	R	0.75x1	2	C		C	O	M05-1117/26;D-7	Bench	5 Year		
1WX019	P	2	2	A	AO	O	C	M05-1089/2;F-6	Position Indication Leak Rate Stroke Time (Exercise, Loss of Power)	18 Month 2 Year 3 Month	2011,2034 2013	
1WX020	P	2	2	A	AO	O	C	M05-1089/2;F-5	Stroke Time (Exercise, Loss of Power) Leak Rate Position Indication	3 Month 2 Year 18 Month	2013 2011,2034	

ILLINOIS POWER COMPANY
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PUMP AND VALVE TESTING PROGRAM PLAN
KEY TO TABLE II -- VALVES

VALVE TYPE:

B	-	Butterfly Valve
C	-	Check Valve
CV	-	Control Valve
EFC	-	Excess Flow Check Valve
EX	-	Explosive Valve
G	-	Gate Valve
GL	-	Globe Valve
NC	-	Non-Slam Check Valve
P	-	Plug Valve
R	-	Relief Valve
SR	-	Safety Relief Valve
VR	-	Vacuum Relief Valve
MFC	-	Manual Flow Control Valve
GSC	-	Discharge Stop Check Valve
DIA	-	Diaphragm Valve
2WAY	-	Two Way Valve

VALVE ACTUATOR

AO	-	Air Operated
HO	-	Hydraulic Operated
M	-	Manually Operated
MO	-	Motor Operated
SO	-	Solenoid Operated
SC	-	Self Contained

NORMAL POSITION/TEST POSITION:

O	-	Open
C	-	Closed
LO	-	Locked Open
LC	-	Locked Closed