

ILLINOIS POWER COMPANY



CLINTON POWER STATION, P.O. BOX 678, CLINTON, ILLINOIS 61727

May 27, 1988

Docket No. 50-461

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Subject: Clinton Power Station
Inservice Testing Program

Dear Sir:

In response to the letter from J. A. Stevens to F. A. Spangenberg dated May 5, 1988, Attachment 1 responds to the questions on the Inservice Testing (IST) Program. Attachment 2 summarizes the other changes made to the IST program. Relief Requests are in Attachment 3, and Attachment 4 is Revision 5 to the Pump and Valve Testing Program Plan. If there are any questions on this submittal, please contact me.

Sincerely yours,

A handwritten signature in cursive script that reads 'F. A. Spangenberg, III'.

F. A. Spangenberg, III
Manager - Licensing and Safety

DWW/bjq

Attachments

cc: NRC Clinton Licensing Project Manager
NRC Resident Office
Regional Administrator, Region III, USNRC
Illinois Department of Nuclear Safety

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ATTACHMENT 1

Question #1

The staff review indicates that the following valves should be included in the Clinton IST Program, but they are not. Provide a written justification for every valve, as to why it should not be included in the IST Program.

1E12-F051A,B
1FC-020A,B
1FC-96
OVC-002A,B
OVC-032A,B

Response:

1E12-F051A,B

These valves were designed to be used during the steam condensing mode of the Residual Heat Removal system. This mode is not intended to be used at CPS and the procedures have been revised to delete this mode. However, as these valves are still installed in the system, the Pump and Valve Testing Program Plan has been revised to add these valves as well as valves 1E12-F065A,B which were also omitted from our previous submittal. A future plant modification is expected to modify the system and delete the valves from the IST program. It should be noted that the valves are all considered to be "out of service" and per subarticle IWV-3416 of the ASME Code Section XI, no testing is required.

1FC020A,B

These valves are the inlet valves to the Reactor Vessel Pool from the Fuel Pool Cooling and Cleanup (FC) system. Filling and maintaining water level in this pool is not a safety function. In fact, these lines are isolated from the FC system during accident conditions which require a containment isolation by valves 1FC036 and 37 and 1E12-F037A and B. Under these conditions, the FC water is not available to the reactor vessel pool. The pools are protected from inadvertent syphoning by the syphon break installed in each inlet line. Therefore, these valves do not perform an active safety function and need not be added to the IST program.

1FC096

This valve is in a line located between two normally closed manual valves. This line can be utilized to add water to the spent fuel pool, but this flow path is an alternate to the safety related supply from the FC pumps. Therefore, this valve does not perform an active safety function and need not be added to the IST program.

0VC002A,B and 0VC032A,B

These valves protect the Control Room Heating Ventilating and Air Conditioning (VC) system cooling coils from freezing by draining the coils during low ambient temperature conditions. This is not an active safety function since weather conditions necessary to initiate freezing in the coils would preclude the need for cooling of the control room air supply. Therefore, these valves need not be added to the IST program.

Question #2

Provide a system functional description and a discussion for each of the valves below indicating why they are not required to be included in the IST Program.

1B21-F098A,B,C,D	1G33-F031
1C41-F007	1G33-F033
1CC-065	1G33-F042A,B,C
1CC-067	1G33-F044
1CC-068	1G33-F102
1CC-070	1G33-F104
1E12-F40	1G33-F106
1E12-F49	1G33-F107
0VC-003A,B	

Response:

1B21-F098A,B,C,D

These valves are part of the Main Steam (MS) system which provides steam from the reactor to the turbine. These valves are remote manually operated shutoff valves on the main steam lines outboard of the containment isolation valves. Illinois Power's (IP) letter U-600785 dated January 8, 1987, to the Nuclear Regulatory Commission (NRC) explained IP's position on these valves. In summary, they are not containment isolation valves and have been deleted from the FSAR and Technical Specifications containment isolation valve list. The valves were also deleted from the IST Program at that time. The valves are provided for operating and maintenance convenience and do not perform an active safety function.

1C41-F007

This valve is part of the Standby Liquid Control (SC) system which provides sodium pentaborate solution to the reactor during some postulated accidents. This is necessary to reduce reactivity in the reactor. This check valve is located between the discharge of the Standby Liquid Control pumps and the bottom of the vessel. The valve is isolated from the vessel by a manual locked-closed globe valve. This was the original design location for injection into the vessel. General Electric modified this design to inject through the High Pressure Core Spray (HP) system. This change which has been implemented at CPS improved the distribution of the sodium pentaborate. As the valve is isolated from the reactor by a locked-closed valve, the valve does not perform an active safety function and need not be added to the IST program.

1CC065,067,068,070

These valves are part of the Component Cooling Water (CC) system which provides cooling water for plant equipment. These valves are designed to open to assure the Reactor Recirculation (RR) pump seals and motor bearings are supplied with Shutdown Service Water (SX) as an alternate cooling medium in the event that Component Cooling Water (CC) is interrupted. This flow path was installed for commercial reasons. Without water to these components, there is a potential for the RR pump to be damaged which would be time consuming and expensive to repair. However, the RR pump is not an active safety related component and is not required for the safe shutdown of the reactor. If these valves were to fail open, integrity of the containment is provided by valves 1CC073 and 74, which are containment isolation valves and isolate the CC system from the SX system. Therefore, these valves do not perform an active safety function and need not be added to the IST program.

1E12-F040, F049

Further technical review by Illinois Power has determined that these valves perform an active safety-related function. These valves are part of the Residual Heat Removal (RH) system which provides shutdown cooling for the reactor. They have been added to our Pump and Valve Testing Program Plan.

OVC003A,B

These valves are part of the Control Room Ventilation (VC) system which conditions the control room environment. These valves are similar to OVC002A,B and OVC032A,B. They serve to protect the cooling coils from freezing by draining the coils. This is not an active safety function due to the fact that the maximum control room temperatures will not be exceeded during the low ambient temperature conditions which could initiate freezing of the coils. Therefore, these need not be included in the IST program.

1G33-F031, F033, F044, F102, F104, F106, F107 and F042A,B,C

The NRC question references valve 1G33-F042C. This appears to be a discrepancy, since 1G33-F042C is not a valid valve number at CPS.

The remaining valves form a part of the Reactor Water Cleanup System (RT). The RT system, as described in the Final Safety Analysis Report (FSAR) Section 5.4.8, is not an engineered safety feature but a primary power generation system. Its purpose is to maintain the quality of the reactor coolant within proper chemical limits. The only valves in the RT system which perform an active safety function are the reactor coolant pressure boundary valves, the containment isolation valves and the check valves which prevent reverse flow from the Residual Heat Removal tie to the RT system. None of the valves identified in this list perform any of these functions. They perform various RT system functions, such as filter control valves, etc., which are not required for safe shutdown of reactor or to mitigate the consequences of an accident. It is understood that the plant could not operate for an extended period of time without the RT system operable, but the system does not perform an active safety function. These valves, therefore, need not be added to the IST program.

Question #3

For the following valves provide a system description, the valve safety-related function, P&ID numbers and valve location on the P&ID. For each valve provide a brief rationale discussing why the valve should not be required to be included in the IST Program.

1B21-F005	1G33-100	1G36-F0010A,B
1B21-F068	1G33-101	1G36-F0011A,B
1B21-F069	1G36-F001A,B	1G36-F0012A,B
1FC-018A,B	1G36-F002A,B	1G36-F0013A,B
1FC-022A,B	1G36-F003A,B	1G36-F0014A,B
1FC-038	1G36-F004A,B	1G36-F0015A,B
1FC-039	1G36-F005A,B	1G36-F0016A,B
1FC-073	1G36-F006A,B	1G36-F069A,B
1FC-075A,B	1G36-F007A,B	1G36-F081A,B
1FC-077	1G36-F008A,B	1SX295
1FC-091	1G36-F009A,B	

Response:

1B21-F005 (Drawing M05-1002-1, Coordinates C-8)

This valve is part of the Main Steam (MS) system which provides steam from the reactor to the turbine. This is a remote manually operated valve located on the tie from the reactor head vent to the "A" main steam line. The valve function is to remove noncondensable gases from the head during power operation. During shutdown, when the head is removed, the valve is closed to isolate the piping system. These are not active safety functions and failure of this valve to change positions would not affect the ability to safely shut down the plant or to mitigate the consequences of an accident. Therefore, this valve does not need to be added to the IST program.

1B21-F068, F069 (Drawing M05-1002-2, Coordinates D-4)

These valves are part of the Main Steam (MS) system which provides steam from the reactor to the turbine. These valves are drain valves off the main steam lines which drain to the condenser. They are located outboard of the containment isolation valves. The drains are not required for safe shutdown or accident mitigation. Therefore, these valves do not perform an active safety function and need not be added to the IST program. The safety function of these valves is to maintain the pressure boundary of the piping system.

1FC018A,B (Drawing M05-1037-1; Coordinates D-7, C-7)

1FC022A,B (Drawing M05-1037-1; Coordinates D-5, B-3)

1FC073 (Drawing M05-1037-2; Coordinates C-6)

1FC077 (Drawing M05-1037-2; Coordinates E-8)

These valves are similar to 1FC020A,B listed in Question #1. Valves 1FC018A,B are the inlet to the Reactor Vessel Pool, valves 1FC022A,B are the inlet to the Steam Dryer Storage Pool, valve 1FC073 is the inlet to the Cask Storage Pool and valve 1FC077 is the inlet to the Fuel Transfer Pool. As stated in Question #1, these valves do not perform an active safety function.

1FC038, 039 (Drawing M05-1037-2, Coordinates D-1)

These valves are part of the Fuel Pool Cooling and Cleanup (FC) System which provides cooling to the various pools in the plant, such as the spent fuel, steam dryer and containment pools. These valves are provided to allow condensate makeup to the FC surge tank. The valves are not required to function during an accident. Failure of these valves would have no impact on plant safety or in mitigating the consequences of an accident. Therefore, these valves do not perform an active safety function and need not be added to the IST program.

1FC075A,B

The Fuel Pool Cooling and Cleanup (FC) System provides cooling to the various pools in the plant, such as the spent fuel, steam dryer and containment pools. These valves do not exist. The valve numbers have been voided.

1FC091 (Drawing M05-1037-3, Coordinates E-1)

This valve is part of the Fuel Pool Cooling and Cleanup (FC) System which provides cooling to the various pools in the plant, such as the spent fuel, steam dryer and containment pools. This valve is a relief valve in the interconnection between the FC and Residual Heat Removal (RH) systems. Isolation valves on either side of this valve are normally locked-closed. This valve is installed to allow the RH system to supply the FC loads during certain accident conditions. This relief valve provides thermal relief to protect the piping integrity necessary to mitigate the accident. Therefore, this valve has been included in the latest revision to the Pump and Valve Testing Program Plan.

<u>Valve No.</u>	<u>Drawing No.</u>	<u>Coordinates</u>
1G33-F100	M05-1076-1	D-8
1G33-F101	M05-1076-1	B-8
1G36-F014A,B	M05-1076-2	F-4, C-4
1G36-F015A,B	M05-1076-2	E-5, C-4
1G36-F016A,B	M05-1076-2	D-6, A-6
1G36-F069A,B	M05-1076-2	D-7, A-7
1G36-F081A,B	M05-1076-2	E-6, B-6
1G36-F001A,B	M05-1076-2	D-7, B-7
1G36-F002A,B	M05-1076-2	D-6, B-6
1G36-F003A,B	M05-1076-2	D-2, B-2
1G36-F004A,B	M05-1076-2	D-2, B-2
1G36-F005A,B	M05-1076-3	D-1, B-1
1G36-F006A,B	M05-1076-3	D-2, B-2

1G36-F007A,B	M05-1076-2	D-5, A-5
1G36-F008A,B	M05-1076-2	D-5, A-5
1G36-F009A,B	M05-1076-2	D-5, B-5
1G36-F010A,B	M05-1076-2	D-4, A-5
1G36-F011A,B	M05-1076-2	E-6, C-6
1G36-F012A,B	M05-1076-2	E-6, C-6
1G36-F013A,B	M05-1076-2	E-5, C-5

The above valves form a part of the Reactor Water Cleanup System (RT). The RT system, as described in FSAR Section 5.4.8, is not an engineered safety feature but a primary power generator system. Its function is to maintain the reactor coolant within proper chemical limits. The only valves in the RT system which perform an active safety function are the reactor coolant pressure boundary valves, the containment isolation valves and the check valves which prevent reverse flow from the Residual Heat Removal to the RT system.

The remaining valves in the system, including the above valves, are not required for these functions and are therefore not required for safe shutdown of the plant or to mitigate the consequences of an accident. It is understood that the plant cannot operate for extended periods of time without the RT system due to reactor water quality standards but this is not a safety function. Therefore, these valves need not be added to the IST program.

1SX295 (Drawing M05-1052-1 Coordinates C-7)

This valve is part of the Shutdown Service Water (SX) system which provides cooling water to essential plant equipment. The valve is a manual locked-open globe valve on the discharge side of the Standby Gas Treatment System radiation monitor cooler, OPR013A. As this valve is not required to change positions, it is therefore a passive valve. The Code does not require any testing for passive valves except Category "A" valves. As this valve is locked open and not required to be closed, leakage through this valve is not limited to a specific maximum amount in the closed position in fulfillment of its function. Therefore, this is not a Category "A" valve and is not required to be included in the IST program.

· ATTACHMENT 2

The following changes have also been made to the ISI Pump and Valve Testing Program Plan. The justifications are provided below:

- 1) The following valves were listed as being tested on a Code frequency rather than the frequency specified in the applicable relief request. The changes made clarified this by revising the frequency listed in the Pump and Valve Testing Program Plan to reflect the relief request.

ORA028, ORA029, 1C41-F006, 1C41-F336, 1E12-F041A,B,C,
1E21-F006, 1E22-F005

- 2) Further review by Illinois Power has determined that the following valves, although they do not perform an active safety function, are Category "A" passive valves. Therefore the valves were added to the Pump and Valve Testing Program Plan. Relief Request 2027 was revised to add these valves.

1B33-F013A,B, 1B33-F017A,B

- 3) Valves 1B33-F019 and 1B33-F020 were previously listed in the Program Plan as normally closed. The valves are normally open and the Pump and Valve Testing Program Plan was revised to reflect this.

- 4) Valve 1C41-F336 was required to be exercised on a Cold Shutdown frequency. Inspections performed during our latest outage, PO-2, determined that this valve could not be tested during Cold Shutdowns. Therefore, Relief Request 2028 is being submitted to change this frequency to refueling. The Pump and Valve Testing Program Plan was revised to reflect this relief request.

- 5) The following valves could not be leak tested per the Code requirements. Alternate testing is as specified in Relief Request 2029.

1B21-F039B,C,D,E,J,K,S, 1DG168 through 1DG173

- 6) The Pump and Valve Testing Program Plan was revised for valves 1DG168 through 1DG173 to add the valve size and valve categorization.

- 7) A three month partial exercise test was inadvertently specified for valves 1E22-F006 and 1E22-F007. These valves are tested per the Code requirements, i.e., full exercise. The partial exercise test was deleted.

- 8) An exercise test which verified the vacuum breaker's (1HG011D) setpoint on a cold shutdown frequency was added to the Pump and Valve Testing Program Plan. This test was described in item 4 of Attachment 4 of our last submittal but the Pump and Valve Testing Program Plan did not include this test.
- 9) Relief Request 2014, has been revised due to IP's review of the design of these valves. It was determined that the operator could be partially disassembled to facilitate a mechanical exerciser. Therefore, the operator will not be permanently disconnected.
- 10) The following changes were made to the text of the Pump and Valve Testing Program Plan:
 - a) A reference was added to clarify the relationship between the Program Plan and the Relief Requests.
 - b) A paragraph was added discussing how plant modifications impacting the ISI program will be implemented.
 - c) References to the "Technical Advisor-ISI" were changed to the "Supervisor-ISI" as part of an Illinois Power Departmental reorganization.
 - d) The text references with regard to valve stroke time were changed to utilize ASME Code terminology.
 - e) The paragraph discussing pump reference values affected by maintenance was revised to utilize the wording from the ASME Code.
- 11) Plant Modification M-002 added test connections to allow excess flow check valves, 1CM002B, 1E22-F332, 1E51-F377B, 1SM008 and 1SM011, to be tested during cold shutdowns in lieu of refueling outages. Therefore, Relief Request 2006 has been deleted. The affected lines are used for monitoring containment environment and various reactor parameters. Testing these valves requires the isolation of numerous safety related instruments which have a high potential for scrambling the reactor and/or activating the Emergency Core Cooling Systems (ECCS). Therefore, these valves will be tested on a cold shutdown frequency.
- 12) Relief Request 2020 has been revised to allow valve 1E51-F066 to be tested with flow in lieu of a mechanical exerciser. Testing this valve during normal operation with the air operator would result in the loss of one isolation barrier between the high pressure reactor coolant boundary and the low pressure Reactor Core Isolation Cooling (RCIC) System. This could cause an inter-system Loss of Coolant

Accident (LOCA) and damage low pressure system piping with the potential for release of reactor coolant outside the primary containment. Therefore, this valve will be exercised on a cold shutdown frequency.

- 13) Further review by Illinois Power has determined that relief valves, 1IA128A and 128B, perform an active safety function. These valves have been incorporated into the Pump and Valve Testing Program Plan.

ATTACHMENT 3

RELIEF REQUESTS

M1970/M208

ILLINOIS POWER COMPANY
CLINTON POWER STATION
SECTION XI RELIEF REQUEST

RELIEF REQUEST NO. 2014 (Revision 1)

COMPONENT INFORMATION

These testable check valves (1E12-F041A/B/C, 1E21-F006 and 1E22-F005) provide pressure isolation from the high pressure Reactor Coolant System and various low pressure ECCS systems (e.g. RHR, LPCS and HPCS). These valves are ASME Section III Code Class 1, Section XI Category A/C valves. They are 12 inch and 10 inch non-slam check valves and one of them (1E12-F041A) is circled on the attached representative drawing.

CODE REQUIREMENT

The ASME Code Section XI, Subsection IWV-3520 requires that these valves be exercised every three (3) months.

RELIEF REQUEST/JUSTIFICATION

Illinois Power Company requests relief from the Code requirements for the following reasons:

The air operators are not designed to full-stroke exercise these testable check valves. During refueling outages, the air operators will be disconnected so that the valves can be full-stroke exercised by utilizing a mechanical exerciser.

ALTERNATE TESTING PROPOSED

Illinois Power Company will partial-stroke exercise these valves using the air operators during cold shutdowns and full stroke exercise the valves during refueling outages.

ILLINOIS POWER COMPANY
CLINTON POWER STATION
SECTION XI RELIEF REQUEST

RELIEF REQUEST NO. 2020 (Revision 1)

COMPONENT INFORMATION

Testable check valve 1E51-F066 provides pressure isolation from the high pressure Reactor Coolant System and the low pressure Reactor Core Isolation Cooling (RCIC) system. It is an ASME Section III Code Class 1, Section XI Category A/C valve. It is a 4 inch non-slam check valve and is circled on the attached drawing.

CODE REQUIREMENT

The ASME Code Section XI, Subsection IWV-3520 requires that when check valves are exercised with flow, the flow measured shall be adequate to verify the function of the valve.

RELIEF REQUEST/JUSTIFICATION

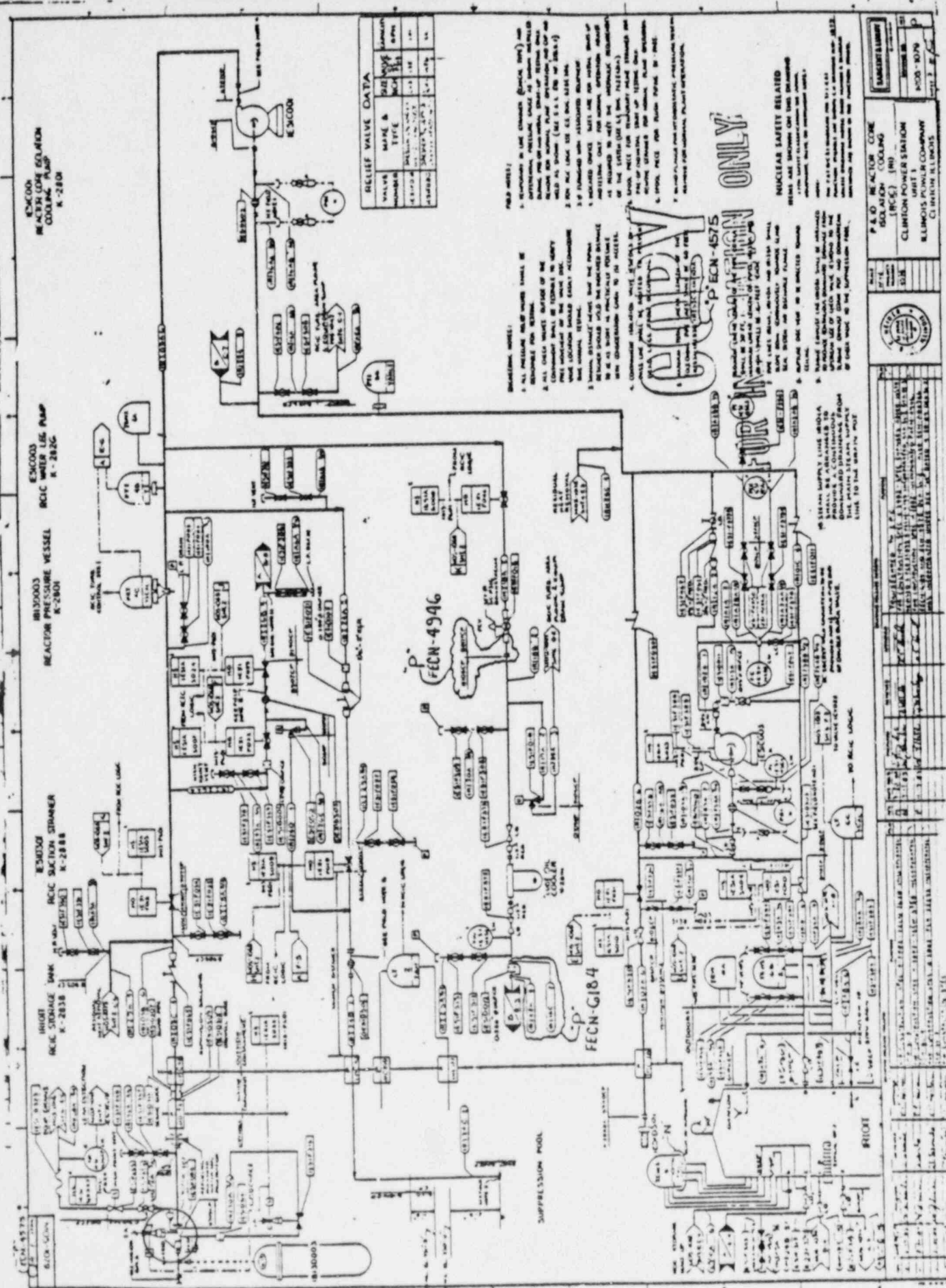
Illinois Power Company requests relief from the Code requirements for the following reasons:

The design flow for this injection valve is 600 GPM. During the reactor shutdown cooling mode, the flow through this line is normally 400 GPM and is restricted to a maximum of 500 GPM. This restriction is in place to assure the cool down rate for the vessel is not exceeded. This difference in flow rates is not considered significant in determining valve operability.

ALTERNATE TESTING PROPOSED

Illinois Power Company will test this valve as follows:

This valve will be exercised utilizing the flow supplied by the Residual Heat Removal system during the reactor shutdown cooling mode. This flow is normally 400 GPM and is restricted to a maximum of 500 GPM.



RELIEF VALVE DATA

VALVE NUMBER	WAVE & TYPE	SET POINT	ACTUATOR
GV-1001	RELIEF VALVE	100 PSIG	100
GV-1002	RELIEF VALVE	100 PSIG	100
GV-1003	RELIEF VALVE	100 PSIG	100
GV-1004	RELIEF VALVE	100 PSIG	100
GV-1005	RELIEF VALVE	100 PSIG	100
GV-1006	RELIEF VALVE	100 PSIG	100
GV-1007	RELIEF VALVE	100 PSIG	100
GV-1008	RELIEF VALVE	100 PSIG	100
GV-1009	RELIEF VALVE	100 PSIG	100
GV-1010	RELIEF VALVE	100 PSIG	100

REACTOR SYSTEM

NUCLEAR SAFETY RELATED

REACTOR COOLING SYSTEM

SUPPRESSION POOL

REACTOR STORAGE TANK

REACTOR PRESSURE VESSEL

REACTOR WATER USE PUMP

REACTOR COOLING PUMP

REACTOR STORAGE TANK

REACTOR PRESSURE VESSEL

REACTOR WATER USE PUMP

REACTOR COOLING PUMP

REACTOR STORAGE TANK

REACTOR PRESSURE VESSEL

REACTOR WATER USE PUMP

REACTOR COOLING PUMP

REACTOR STORAGE TANK

REACTOR PRESSURE VESSEL

REACTOR WATER USE PUMP

REACTOR COOLING PUMP

ONLY

FOR REACTOR COOLING SYSTEM

ONLY

CLINTON POWER STATION
 UNIT 1
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 CLINTON, ILLINOIS

REACTOR COOLING SYSTEM

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ILLINOIS POWER COMPANY
CLINTON POWER STATION
SECTION XI RELIEF REQUEST

RELIEF REQUEST NO. 2027 (Revision 1)

COMPONENT INFORMATION

Various drywell isolation valves. See attached list.

CODE REQUIREMENT

ASME Code Subarticle IWV-3420 requires Category A valves be individually leak tested in a manner that demonstrates adequate seat tightness.

RELIEF REQUEST/JUSTIFICATION

The purpose of the drywell isolation valves is to contain the drywell pressure to the extent that the containment cannot be overpressurized. Individual valve leak rates are not significant to assuring drywell integrity. The sum of the valve leakages is what must be limited. The current testing of the e valves is governed by Technical Specification 4.6.2.2 which requires the drywell to be pressurized and total leakage through all boundary valves be measured.

ALTERNATE TESTING PROPOSAL

Illinois Power Company will perform a drywell bypass leakage test per Technical Specification 4.6.2.2 on a refueling outage basis. This test monitors the total leakage through all valves at once. The data will be recorded but no trending will be performed.

Table 2027-1

1B33-F013A,B
1B33-F017A,B
1B33-F019
1B33-F020

1C41-F006
1C41-F336

1CY020
1CY021

1E31-F014
1E31-F015
1E31-F017
1E31-F018

1FP078
1FP079

1HG010A,B,C,D
1HG011A,B,C,D

1IA007
1IA008

ORA028
ORA029

1RE019
1RE020

1RF019
1RF020

1SA031
1SA032

1VQ001A,B
1VQ002
1VQ003
1VQ005

1W0551A,B
1W0552A,B

ILLINOIS POWER COMPANY
CLINTON POWER STATION
SECTION XI RELIEF REQUEST

RELIEF REQUEST NO.2028

COMPONENT INFORMATION

Valve 1C41-F336 is a check valve downstream of the Standby Liquid Control (SC) pump and is physically located inside the drywell. This is an ASME Section III Class 1, Section XI Category A/C, 4" check valve. The valve is circled on the attached drawing.

CODE REQUIREMENT

The ASME Code, Section XI, Subarticle IWV-3521 requires that this check valve be exercised every three (3) months.

RELIEF REQUEST/JUSTIFICATION

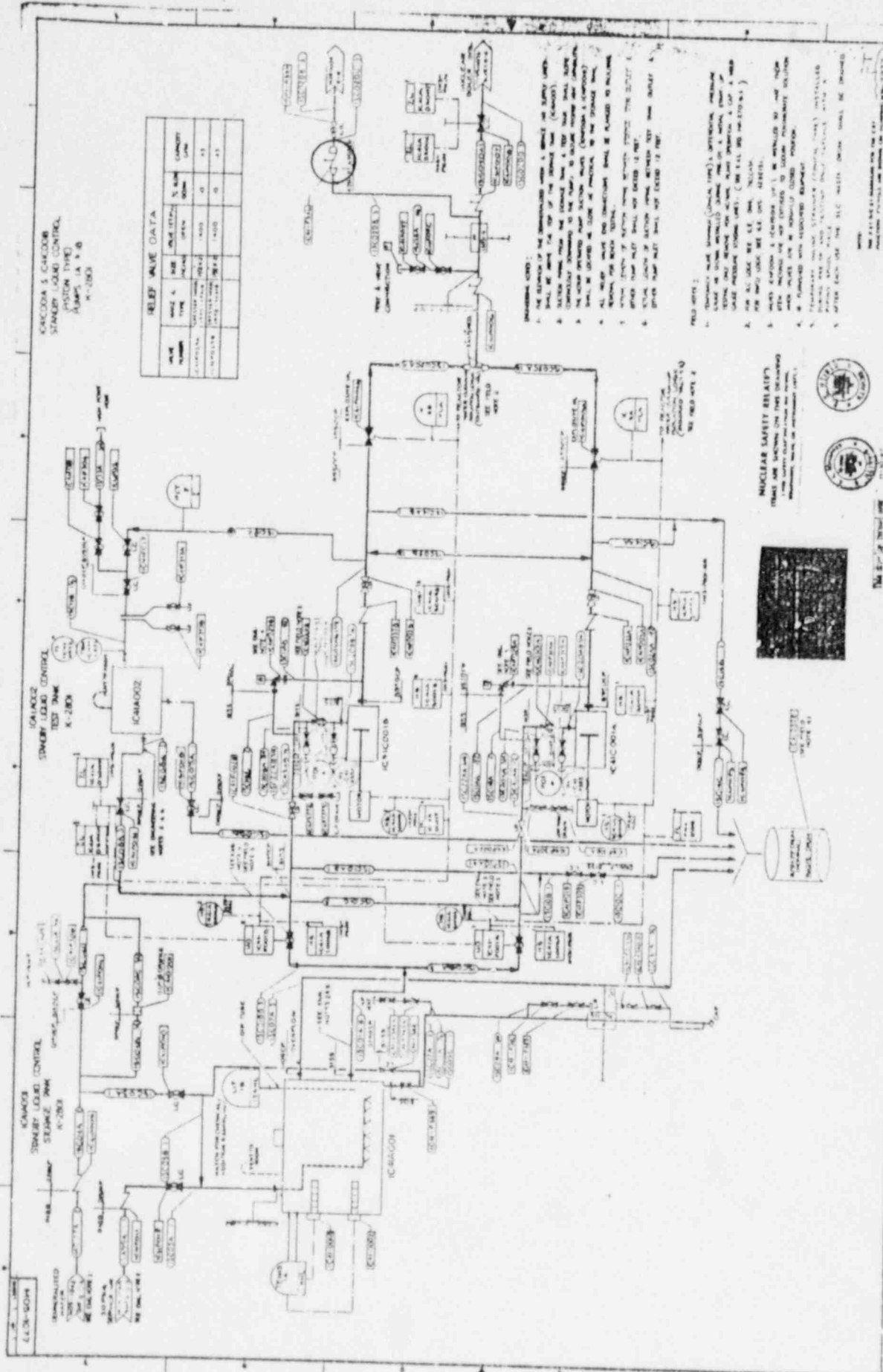
Illinois Power Company requests relief from the Code requirement for the following reasons:

This check valve is downstream of the explosive injection valves which are only required to be opened during refueling outages.

The check valve is totally enclosed without any provisions for exercising the valve externally.

ALTERNATE TESTING PROPOSED

Illinois Power Company will full stroke exercise this check valve every refueling outage with system flow.



RELAY VALUE DATA

RELAY NUMBER	RELAY TYPE	RELAY SETTING	N. NAME	CONTROL UNIT
104-402-1	NO	100%	104-402-1	104-402
104-402-2	NO	100%	104-402-2	104-402
104-402-3	NO	100%	104-402-3	104-402
104-402-4	NO	100%	104-402-4	104-402
104-402-5	NO	100%	104-402-5	104-402
104-402-6	NO	100%	104-402-6	104-402
104-402-7	NO	100%	104-402-7	104-402
104-402-8	NO	100%	104-402-8	104-402
104-402-9	NO	100%	104-402-9	104-402
104-402-10	NO	100%	104-402-10	104-402

REMARKS:

1. THE STATUS OF THE INSTRUMENTS WITH A RELAY OR RELAYS SHALL BE SHOWN TO THE TOP OF THE RELAY UNIT (RELAY).
2. THE RELAY UNIT SHALL BE SHOWN TO THE TOP OF THE RELAY UNIT (RELAY).
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FIELD DATA:

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8. THE RELAY UNIT SHALL BE SHOWN TO THE TOP OF THE RELAY UNIT (RELAY).
9. THE RELAY UNIT SHALL BE SHOWN TO THE TOP OF THE RELAY UNIT (RELAY).
10. THE RELAY UNIT SHALL BE SHOWN TO THE TOP OF THE RELAY UNIT (RELAY).

NUCLEAR SAFETY RELIABILITY

THESE RELAYS ARE DESIGNED TO BE SHOWN TO THE TOP OF THE RELAY UNIT (RELAY).

104-402 CONTROL STANBY LOAD CONTROL
 104-403 CONTROL STANBY LOAD CONTROL
 104-404 CONTROL STANBY LOAD CONTROL

PAID STATIONARY LIQUID CONTROL (S.L.C.)
 CLINTON POWER STATION
 ILLINOIS POWER COMPANY
 CLINTON, ILLINOIS

4403-1077

DOCUMENT DRAWING TO BE SHOWN TO THE TOP OF THE RELAY UNIT (RELAY)

ILLINOIS POWER COMPANY
CLINTON POWER STATION
SECTION XI RELIEF REQUEST

RELIEF REQUEST NO.2029

COMPONENT INFORMATION

Various Category A/C check valves whose function is to hold pressure for a specified time in an air accumulator/receiver. See attached list.

CODE REQUIREMENT

The ASME Code Section XI, Subarticle IWV-3424, specifies the methodology to be used for leakage testing.

RELIEF REQUEST/JUSTIFICATION

Illinois Power Company requests relief from the Code requirements for the following reasons:

The design of these piping systems does not facilitate the measuring of actual leak rate through these check valves.

ALTERNATE TESTING PROPOSED

Illinois Power Company will leak test these check valves as follows:

In lieu of monitoring actual leakage rates through each check valve, a pressure drop test over a specified time will be performed. This pressure drop test will not only verify the check valve has seated but will also verify the integrity of the piping system.

ILLINOIS POWER COMPANY
CLINTON POWER STATION
SECTION XI RELIEF REQUEST

RELIEF REQUEST NO. 2029
Attachment 1

1B21-F039B
1B21-F039C
1B21-F039D
1B21-F039E
1B21-F039H
1B21-F039K
1B21-F039S

1DG168
1DG169
1DG170
1DC171
1DG172
1DG173

ATTACHMENT 4

PUMP AND VALVE TESTING PROGRAM PLAN

ILLINOIS POWER COMPANY
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN
(REVISION 5)

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.

When revisions to this program are necessary as a result of plant modifications, these revisions may be implemented in advance of NRC approval, provided that a safety evaluation in accordance with 10CFR50.59 has been completed. Such revisions to this plan shall be submitted to the NRC within 60 days after the implementation of the associated plant modification.

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 of System." Illinois Power Review letter Y-86498 dated November 18, 1987.

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. Baseline Values

1. Pump testing baseline reference 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 5 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. Reference values and limits for the quantities to be measured shall be provided in the procedure.
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 or 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 as modified by Relief Request 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 Supervisor-ISI shall maintain a list of 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, instrument, 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	Active	No	No	No	Yes
Valves	Passive	No	No	No	No
C-Check	Active	No	No	Yes	No
Valves	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. Refer to Relief Request No. 2021 for post maintenance testing following packing adjustment.

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 one of 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 15 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:

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

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 measured to the nearest second.
- c. 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) FSAR 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

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 either of the following conditions are found during testing, the valve shall be repaired or replaced.

- a. Leakage rates exceeding the maximum permissible rate.
- b. For valves 6 inches nominal pipe size and larger:
 - i) A leakage rate that exceeds the rate determined by the previous test by an amount that reduces the margin between measured leakage rate and the maximum permissible rate by 50% or greater or
 - ii) If tests show a leakage rate increasing with time, and projection based on three or more tests indicates that the leakage rate of the next scheduled test will exceed the maximum permissible rate by greater than 10%.

2. Exercising and Stroke Timing

- a. If a valve fails to exhibit the required change of stem or disk position or exceeds its specified limiting valve of full stroke time, corrective action shall be initiated immediately. Containment isolation valves and valves within the main flow path of ECCS systems shall be considered inoperable immediately. For other valves, if the condition cannot be corrected within 24 hours, 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 25% or more from the last test.
 - ii) For valves with stroke times of 10 seconds or less, the valve exhibits an increase in stroke time of 50% or more from the last test.

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 Supervisor-ISI shall maintain a list of 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.

ILLINOIS POWER COMPANY
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN
(REVISION 5)
TABLE I--PUMPS
PAGE 1

EIN	EQUIPMENT NAME	TYPE OF TEST	FREQUENCY	RELIEF REQUEST
0VCOBPA	Control Room HVAC Chilled Water Pump A	Pump	3 Month	3001
0VCOBPB	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
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
1E22-C001	High Pressure Core Spray (HPCS) Pump	Pump	3 Month	3001
1E22-C003	HPCS Water Leg Pump	Pump	3 Month	3001

ILLINOIS POWER COMPANY
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN
(REVISION 5)
TABLE I--PUMPS
PAGE 2

EIN	EQUIPMENT NAME	TYPE OF TEST	FREQUENCY	RELIEF REQUEST
1E51-C001	Reactor Core Isolation Cooling (RCIC) Pump	Pump	3 Month	
1E51-C003	RCIC Water Leg Pump	Pump	3 Month	3001
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

ILLINOIS POWER COMPANY
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN
(REVISION 5)
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

COLD SHUTDOWN JUSTIFICATION:

Reference 1: Revision 2 submittal: Letter U-600968 dated June 30, 1987 entitled "Clinton Power Station Inservice Testing Program".
Reference 2: Revision 3 submittal: Letter U-601006 dated August 20, 1987 entitled "Clinton Power Station Inservice Testing Program".
Reference 3: Revision 4 submittal: Letter U-601141 dated March 8, 1988 entitled "Clinton Power Station Inservice Testing Program".
Reference 4: Current Revision 5 submittal, dated May 1988.

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 Close

ILLINOIS POWER COMPANY
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN
(REVISION 5)
TABLE 11--VALVES
PAGE 1

EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
OMC009	G	4	2	A	MO	D	C	M05-1042/4 :E-5	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 month 2 Year 18 Month	2011	
OMC010	G	4	2	A	MO	D	C	M05-1042/4 :D-5	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
ORA026	CV	1	2	A	AO	D	C	M05-1065/7 :D-8	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2013	2011
ORA027	CV	1	2	A	AO	D	C	M05-1065/7 :D-7	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2013	2011
ORA028	CV	1	2	A	AO	D	C	M05-1065/7 :D-6	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month Refueling 2 Year	2013	2027
ORA029	CV	1	2	A	AO	D	C	M05-1065/7 :D-5	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month Refueling 2 Year	2013	2027

ILLINOIS POWER COMPANY
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN
(REVISION 5)
TABLE II--VALVES
PAGE 2

EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
0VC010A	CV	2	3	B	AO	0	0	M05-1102/5 ;A-7	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
0VC010B	CV	2	3	B	AO	0	0	M05-1102/6 ;A-7	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
0VC017A	C	2	3	C		C	0	M05-1102/5 ;F-7	Exercise	3 Month		
0VC017B	C	2	3	C		C	0	M05-1102/6 ;F-7	Exercise	3 Month		
0VC020A	C	2	3	C		C	0	M05-1102/5 ;F-7	Exercise	3 Month		
0VC020B	C	2	3	C		C	0	M05-1102/6 ;F-7	Exercise	3 Month		
0VC022A	CV	1.5	3	B	SC	C	0,C	M05-1102/5 ;F-7	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
0VC022B	CV	1.5	3	B	SC	C	0,C	M05-1102/6 ;F-7	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
0VC025A	R	1.5x2	3	C		C	0	M05-1102/5 ;E-6	Bench	5 Year		

ILLINOIS POWER COMPANY
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN
(REVISION 5)
TABLE II--VALVES
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EIM	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
0VC025B	R	1.5x2	3	C		C	D	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		
1B21-F002	GL	2	1	A-P*	MO	C	C	M05-1071/2 :E-4	Leak Rate Position Indication	2 Year 2 Year		
1B21-F010A	NC	18	1	A/C		D	C	M05-1004 :C-7	Exercise Leak Rate	Cold Shutdown 2 Year	2001 2011	Ref 3
1B21-F010B	NC	18	1	A/C		D	C	M05-1004 :A-7	Exercise Leak Rate	Cold Shutdown 2 Year	2001 2011	Ref 3
1B21-F016	G	3	1	A	MO	D	C	M05-1002/1 :B-1	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month		2011
1B21-F019	G	3	1	A	MO	D	C	M05-1002/1 :B-1	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month		2011
1B21-F022A	GL	24	1	A	AO	D	C	M05-1002/1 :C-2	Stroke Time Exercise Partial Exercise Loss of Power Leak Rate Position Indication	Cold Shutdown Cold Shutdown 3 Month Cold Shutdown 18 Month 18 Month	2021 2011	Ref 1 Ref 1 Ref 1

* Passive valve

ILLINOIS POWER COMPANY
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN
(REVISION 5)
TABLE II--VALVES
PAGE 4

EIN	TYPE	SIZE	CLASS	CAI-E- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1B21-F022B	GL	24	1	A	AO	O	C	M05-1002/1 ;F-2	Stroke Time Exercise Partial Exercise Loss of Power Leak Rate Position Indication	Cold Shutdown 2021 Cold Shutdown 3 Month Cold Shutdown 18 Month 18 Month	2011	Ref 1 Ref 1 Ref 1
1B21-F022C	GL	24	1	A	AO	O	C	M05-1002/1 ;A-2	Stroke Time Exercise Partial Exercise Loss of Power Leak Rate Position Indication	Cold Shutdown 2021 Cold Shutdown 3 Month Cold Shutdown 18 Month 18 Month	2011	Ref 1 Ref 1 Ref 1
1B21-F022D	GL	24	1	A	AO	O	C	M05-1002/1 ;D-2	Stroke Time Exercise Partial Exercise Loss of Power Leak Rate Position Indication	Cold Shutdown 2021 Cold Shutdown 3 Month Cold Shutdown 18 Month 18 Month	2011	Ref 1 Ref 1 Ref 1
1B21-F024A	C	0.5	3	C		O	C	M10-1002/5 ;	Exercise	Cold Shutdown		Ref 1
1B21-F024B	C	0.5	3	C		O	C	M10-1002/5 ;	Exercise	Cold Shutdown		Ref 1
1B21-F024C	C	0.5	3	C		O	C	M10-1002/5 ;	Exercise	Cold Shutdown		Ref 1
1B21-F024D	C	0.5	3	C		O	C	M10-1002/5 ;	Exercise	Cold Shutdown		Ref 1

ILLINOIS POWER COMPANY
CLINTON POWER STATION

PUMP AND VALVE TESTING PROGRAM PLAN
(REVISION 5)
TABLE II--VALVES
PAGE 5

EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1B21-F028A	GL	24	1	A	AO	0	C	M05-1002/2 ;C-5	Stroke Time	Cold Shutdown	2021	Ref 1
									Exercise	Cold Shutdown		Ref 1
									Partial Exercise	3 Month		
									Loss of Power	Cold Shutdown		Ref 1
									Leak Rate	18 Month	2011	
									Position Indication	18 Month		
1B21-F028B	GL	24	1	A	AO	0	C	M05-1002/2 ;E-5	Stroke Time	Cold Shutdown	2021	Ref 1
									Exercise	Cold Shutdown		Ref 1
									Partial Exercise	3 Month		
									Loss of Power	Cold Shutdown		Ref 1
									Leak Rate	18 Month	2011	
									Position Indication	18 Month		
1B21-F028C	GL	24	1	A	AO	0	C	M05-1002/2 ;B-5	Stroke Time	Cold Shutdown	2021	Ref 1
									Exercise	Cold Shutdown		Ref 1
									Partial Exercise	3 Month		
									Loss of Power	Cold Shutdown		Ref 1
									Leak Rate	18 Month	2011	
									Position Indication	18 Month		
1B21-F028D	GL	24	1	A	AO	0	C	M05-1002/2 ;E-5	Stroke Time	Cold Shutdown	2021	Ref 1
									Exercise	Cold Shutdown		Ref 1
									Partial Exercise	3 Month		
									Loss of Power	Cold Shutdown		Ref 1
									Leak Rate	18 Month	2011	
									Position Indication	18 Month		
1B21-F029A	C	0.5	3	C		0	C	M10-1002/5 ;	Exercise	Cold Shutdown		Ref 1

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1B21-F029B	C	0.5	3	C		D	C	M10-1002/5 ;	Exercise	Cold Shutdown		Ref 1
1B21-F029C	C	0.5	3	C		D	C	M10-1002/5 ;	Exercise	Cold Shutdown		Ref 1
1B21-F029D	C	0.5	3	C		D	C	M10-1002/5 ;	Exercise	Cold Shutdown		Ref 1
1B21-F032A	NC	20	1	A/C	AD	D	C	M05-1004 ;C-6	Exercise Loss of Power Leak Rate Position Indication	Cold Shutdown Cold Shutdown 2 Year 18 Month	2011	Ref 3 Ref 3
1B21-F032B	NC	20	1	A/C	AD	D	C	M05-1004 ;A-6	Exercise Loss of Power Leak Rate Position Indication	Cold Shutdown Cold Shutdown 2 Year 18 Month	2011	Ref 3 Ref 3
1B21-F036A	C	0.5	3	C		C	D,C	M10-1002/2 ;	Exercise	Cold Shutdown		Ref 1
1B21-F036F	C	0.5	3	C		C	D,C	M10-1002/2 ;	Exercise	Cold Shutdown		Ref 1
1B21-F036G	C	0.5	3	C		C	D,C	M10-1002/2 ;	Exercise	Cold Shutdown		Ref 1
1B21-F036J	C	0.5	3	C		C	D,C	M10-1002/2 ;	Exercise	Cold Shutdown		Ref 1
1B21-F036L	C	0.5	3	C		C	D,C	M10-1002/2 ;	Exercise	Cold Shutdown		Ref 1

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1B21-F036M	C	0.5	3	C	C	O.C M10-1002/2 ;		Exercise	Cold Shutdown		Ref 1
1B21-F036N	C	0.5	3	C	C	O.C M10-1002/2 ;		Exercise	Cold Shutdown		Ref 1
1B21-F036P	C	0.5	3	C	C	O.C M10-1002/2 ;		Exercise	Cold Shutdown		Ref 1
1B21-F036R	C	0.5	3	C	C	O.C M10-1002/2 ;		Exercise	Cold Shutdown		Ref 1
1B21-F037A	VR	10	3	C	C	O M05-1002/1 ;C-6		Exercise	Cold Shutdown		Ref 1
1B21-F037B	VR	10	3	C	C	O M05-1002/1 ;E-6		Exercise	Cold Shutdown		Ref 1
1B21-F037C	VR	10	3	C	C	O M05-1002/1 ;A-7		Exercise	Cold Shutdown		Ref 1
1B21-F037D	VR	10	3	C	C	O M05-1002/1 ;D-7		Exercise	Cold Shutdown		Ref 1
1B21-F037E	VR	10	3	C	C	O M05-1002/1 ;E-4		Exercise	Cold Shutdown		Ref 1
1B21-F037F	VR	10	3	C	C	O M05-1002/1 ;A-5		Exercise	Cold Shutdown		Ref 1
1B21-F037G	VR	10	3	C	C	O M05-1002/1 ;A-4		Exercise	Cold Shutdown		Ref 1
1B21-F037H	VR	10	3	C	C	O M05-1002/1 ;C-5		Exercise	Cold Shutdown		Ref 1

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EIN	TYPE	SIZE	CLASS	CATE- GDRY	ACTU- ATOR	POSITION NORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1B21-F037J	VR	10	3	C	C	0	M05-1002/1 ;E-7	Exercise	Cold Shutdown		Ref 1
1B21-F037K	VR	10	3	C	C	0	M05-1002/1 ;A-5	Exercise	Cold Shutdown		Ref 1
1B21-F037L	VR	10	3	C	C	0	M05-1002/1 ;D-6	Exercise	Cold Shutdown		Ref 1
1B21-F037M	VR	10	3	C	C	0	M05-1002/1 ;E-3	Exercise	Cold Shutdown		Ref 1
1B21-F037N	VR	10	3	C	C	0	M05-1002/1 ;E-5	Exercise	Cold Shutdown		Ref 1
1B21-F037P	VR	10	3	C	C	0	M05-1002/1 ;A-6	Exercise	Cold Shutdown		Ref 1
1B21-F037R	VR	10	3	C	C	0	M05-1002/1 ;D-5	Exercise	Cold Shutdown		Ref 1
1B21-F037S	VR	10	3	C	C	0	M05-1002/1 ;A-3	Exercise	Cold Shutdown		Ref 1
1B21-F039B	C	0.5	3	A/C	C	0,C	M10-1002/1 ;	Exercise Leak Rate	Cold Shutdown 2 Year	2029	Ref 1
1B21-F039C	C	0.5	3	A/C	C	0,C	M10-1002/1 ;	Exercise Leak Rate	Cold Shutdown 2 Year	2029	Ref 1
1B21-F039D	C	0.5	3	A/C	C	0,C	M10-1002/1 ;	Exercise Leak Rate	Cold Shutdown 2 Year	2029	Ref 1

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EIN	TYPE	SIZE	CLASS	DATE- GORY	ACTU- ATOR	POSITION NORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1B21-F039E	C	0.5	3	A/C	C	O.C	M10-1002/1 ;	Exercise Leak Rate	Cold Shutdown 2 Year	2029	Ref 1
1B21-F039H	C	0.5	3	A/C	C	O.C	M10-1002/1 ;	Exercise Leak Rate	Cold Shutdown 2 Year	2029	Ref 1
1B21-F039K	C	0.5	3	A/C	C	O.C	M10-1002/1 ;	Exercise Leak Rate	Cold Shutdown 2 Year	2029	Ref 1
1B21-F039S	C	0.5	3	A/C	C	O.C	M10-1002/1 ;	Exercise Leak Rate	Cold Shutdown 2 Year	2029	Ref 1
1B21-F040	VR	2	3	C	C	0	M05-1071/2 ;D-3	Exercise	Cold Shutdown		Ref 1
1B21-F041A	SR	8x10	1	C	AO	C	C M05-1002/1 ;C-6	Position Indication Bench	2 Year 5 Year		
1B21-F041B	SR	8x10	1	B/C	AO	C	C M05-1002/1 ;F-7	Stroke Time Exercise Loss of Power Position Indication Bench	Refueling Refueling Refueling 2 Year 5 Year	2012,2021 2012	
1B21-F041C	SR	8x10	1	B/C	AO	C	C M05-1002/1 ;B-8	Stroke Time Exercise Loss of Power Position Indication Bench	Refueling Refueling Refueling 2 Year 5 Year	2012,2021 2012	

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1B21-F041D	SR	8x10	1	B/C	AD	C	C	M05-1002/1 ;D-8	Stroke Time Exercise Loss of Power Position Indication Bench	Refueling Refueling Refueling 2 Year 5 Year	2012,2021 2012	
1B21-F041F	SR	8x10	1	B/C	AD	C	C	M05-1002/1 ;F-5	Stroke Time Exercise Loss of Power Position Indication Bench	Refueling Refueling Refueling 2 Year 5 Year	2012,2021 2012	
1B21-F041G	SR	8x10	1	C	AD	C	C	M05-1002/1 ;B-6	Position Indication Bench	2 Year 5 Year		
1B21-F041L	SR	8x10	1	C	AD	C	C	M05-1002/1 ;B-4	Position Indication Bench	2 Year 5 Year		
1B21-F047A	SR	8x10	1	B/C	AD	C	C	M05-1002/1 ;C-6	Stroke Time Exercise Loss of Power Position Indication Bench	Refueling Refueling Refueling 2 Year 5 Year	2012,2021 2012	
1B21-F047B	SR	8x10	1	C	AD	C	C	M05-1002/1 ;F-8	Position Indication Bench	2 Year 5 Year		
1B21-F047C	SR	8x10	1	B/C	AD	C	C	M05-1002/1 ;B-5	Stroke Time Exercise Loss of Power Position Indication Bench	Refueling Refueling Refueling 2 Year 5 Year	2012,2021 2012	

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COGRD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1B21-F047D	SR	8x10	1	C	AO	C	C	M05-1002/1 ;D-7	Position Indication Bench	2 Year 5 Year		
1B21-F047F	SR	8x10	1	C	AO	C	C	M05-1002/1 ;F-4	Position Indication Bench	2 Year 5 Year		
1B21-F051B	SR	8x10	1	C	AO	C	C	M05-1002/1 ;F-6	Position Indication Bench	2 Year 5 Year		
1B21-F051C	SR	8x10	1	C	AO	C	C	M05-1002/1 ;B-7	Position Indication Bench	2 Year 5 Year		
1B21-F051D	SR	8x10	1	C	AO	C	C	M05-1002/1 ;D-6	Position Indication Bench	2 Year 5 Year		
1B21-F051G	SR	8x10	1	B/C	AO	C	C	M05-1002/1 ;B-4	Stroke Time Exercise Loss of Power Position Indication Bench	Refueling Refueling Refueling 2 Year 5 Year	2012,2021 2012	
1B21-F065A	G	20	2	A	MO	O	C	M05-1004 ;C-5	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 2 Year 2 Year	2021 2011	Ref 1 Ref 1
1B21-F065B	G	20	2	A	MO	O	C	M05-1004 ;A-5	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 2 Year 2 Year	2021 2011	Ref 1 Ref 1

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1B21-F067A	GL	1.5	1	A	MO	O.C	C	M05-1002/2 ;C-6	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 18 Month	2011	
1B21-F067B	GL	1.5	1	A	MO	O.C	C	M05-1002/2 ;E-6	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 18 Month	2011	
1B21-F067C	GL	1.5	1	A	MO	O.C	C	M05-1002/2 ;A-6	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 18 Month	2011	
1B21-F067D	GL	1.5	1	A	MO	O.C	C	M05-1002/2 ;D-6	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 18 Month	2011	
1B21-F078A	VR	10	3	C		C	O	M05-1002/1 ;C-6	Exercise	Cold Shutdown		Ref 1
1B21-F078B	VR	10	3	C		C	O	M05-1002/1 ;E-6	Exercise	Cold Shutdown		Ref 1
1B21-F078C	VR	10	3	C		C	O	M05-1002/1 ;A-7	Exercise	Cold Shutdown		Ref 1
1B21-F078D	VR	10	3	C		C	O	M05-1002/1 ;D-7	Exercise	Cold Shutdown		Ref 1

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1B21-F078E	VR	10	3	C	C	0	M05-1002/1 ;E-4	Exercise	Cold Shutdown		Ref 1
1B21-F078F	VR	10	3	C	C	0	M05-1002/1 ;A-5	Exercise	Cold Shutdown		Ref 1
1B21-F078G	VR	10	3	C	C	0	M05-1002/1 ;A-4	Exercise	Cold Shutdown		Ref 1
1B21-F078H	VR	10	3	C	C	0	M05-1002/1 ;C-5	Exercise	Cold Shutdown		Ref 1
1B21-F078J	VR	10	3	C	C	0	M05-1002/1 ;E-7	Exercise	Cold Shutdown		Ref 1
1B21-F078K	VR	10	3	C	C	0	M05-1002/1 ;A-5	Exercise	Cold Shutdown		Ref 1
1B21-F078L	VR	10	3	C	C	0	M05-1002/1 ;D-6	Exercise	Cold Shutdown		Ref 1
1B21-F078M	VR	10	3	C	C	0	M05-1002/1 ;E-3	Exercise	Cold Shutdown		Ref 1
1B21-F078N	VR	10	3	C	C	0	M05-1002/1 ;E-5	Exercise	Cold Shutdown		Ref 1
1B21-F078P	VR	10	3	C	C	0	M05-1002/1 ;A-6	Exercise	Cold Shutdown		Ref 1
1B21-F078R	VR	10	3	C	C	0	M05-1002/1 ;D-5	Exercise	Cold Shutdown		Ref 1
1B21-F078S	VR	10	3	C	C	0	M05-1002/1 ;A-3	Exercise	Cold Shutdown		Ref 1

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION	NORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1B21-F379A	VR	2	3	C	C	C	0	M05-1002/1 ;F-7	Exercise	Cold Shutdown		Ref 1
1B21-F379B	VR	2	3	C	C	C	0	M05-1002/1 ;F-6	Exercise	Cold Shutdown		Ref 1
1B21-F379C	VR	2	3	C	C	C	0	M05-1002/1 ;F-5	Exercise	Cold Shutdown		Ref 1
1B21-F379D	VR	2	3	C	C	C	0	M05-1002/1 ;F-4	Exercise	Cold Shutdown		Ref 1
1B21-F379E	VR	2	3	C	C	C	0	M05-1002/1 ;F-3	Exercise	Cold Shutdown		Ref 1
1B21-F379F	VR	2	3	C	C	C	0	M05-1002/1 ;E-7	Exercise	Cold Shutdown		Ref 1
1B21-F379G	VR	2	3	C	C	C	0	M05-1002/1 ;E-6	Exercise	Cold Shutdown		Ref 1
1B21-F379H	VR	2	3	C	C	C	0	M05-1002/1 ;E-5	Exercise	Cold Shutdown		Ref 1
1B21-F379J	VR	2	3	C	C	C	0	M05-1002/1 ;C-6	Exercise	Cold Shutdown		Ref 1
1B21-F379K	VR	2	3	C	C	C	0	M05-1002/1 ;C-5	Exercise	Cold Shutdown		Ref 1
1B21-F379L	VR	2	3	C	C	C	0	M05-1002/1 ;B-7	Exercise	Cold Shutdown		Ref 1
1B21-F379M	VR	2	3	C	C	C	0	M05-1002/1 ;B-6	Exercise	Cold Shutdown		Ref 1

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1B21-F379N	VR	2	3	C		C	D	M05-1002/1 ;B-5	Exercise	Cold Shutdown		Ref 1
1B21-F379P	VR	2	3	C		C	D	M05-1002/1 ;B-5	Exercise	Cold Shutdown		Ref 1
1B21-F379Q	VR	2	3	C		C	D	M05-1002/1 ;P-4	Exercise	Cold Shutdown		Ref 1
1B21-F379R	VR	2	3	C		C	D	M05-1002/1 ;B-3	Exercise	Cold Shutdown		Ref 1
1B21-F433A	C	0.5	3	C		D	C	M10-1004/8 ;	Exercise	Cold Shutdown		Ref 1
1B21-F433B	C	0.5	3	C		D	C	M10-1004/8 ;	Exercise	Cold Shutdown		Ref 1
1B33-F013A	C	0.75	2	A-P*		C	C	M05-1072/1 ;A-5	Leak Rate	Refueling	2027	
1B33-F013B	C	0.75	2	A-P*		C	C	M05-1072/2 ;A-4	Leak Rate	Refueling	2027	
1B33-F017A	C	0.75	2	A-P*		C	C	M05-1072/1 ;A-6	Leak Rate	Refueling	2027	
1B33-F017B	C	0.75	2	A-P*		C	C	M05-1072/2 ;A-3	Leak Rate	Refueling	2027	
1B33-F019	CV	0.75	2	A	AD	D	C	M05-1072/1 ;E-5	Stroke Time Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling		2027

* Passive valve

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1B33-F020	CV	0.75	2	A	AD	O	C	M05-1072/1 ;E-8	Stroke Time Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling		2027
1C11-114 **	C	0.75	0	C		O/C	O	CLN-001 ;	Exercise	10%/120 days		2024
1C11-115 **	C	0.5	0	A/C		O/C	C	CLN-001 ;	Exercise Leak Rate	Refueling Refueling		2023 2023
1C11-126 **	DIA	1	0	B	AD	O/C	O	CLN-001 ;	Stroke Time Exercise Loss of Power	10%/120 days 10%/120 days 10%/120 days		2024
1C11-127 **	DIA	0.75	0	B	AD	O/C	O	CLN-001 ;	Stroke Time Exercise Loss of Power	10%/120 days 10%/120 days 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	O/C	O	CLN-001 ;	Stroke Time Exercise Loss of Power	10%/120 days 10%/120 days 10%/120 days		2024
1C11-F010	GL	1	2	B	AD	O	C	CLN-001 ;	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year		

** Typical (145 of each)

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EIN	TYPE	SIZE	CLASS	CATE- GDRY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1C11-F011	GL	2	2	B	AO	O	C	CLN-001 ;	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year		
1C11-F083	GL	2	2	A	MO	O	C	M05-1078/1 ;C-7	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown 2021 Cold Shutdown 2 Year 2 Year	2011	Ref 1 Ref 1
1C11-F122	C	2	2	A/C		O	C	M05-1078/1 ;C-7	Exercise Leak Rate	Refueling 2 Year	2002 2011	
1C11-F180	GL	1	2	B	AO	O	C	CLN-001 ;	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 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 3 Month 3 Month 2 Year		
1C41-F001A	GL	3	2	B	MO	C	O	M05-1077 ;C-6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1C41-F001B	GL	3	2	B	MO	C	O	M05-1077 ;E-6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		

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EIN	TYPE	SIZE	CLASS	DATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1C41-F004A	EX	1.5	1	D	M	C	N/A	M05-1077 ;C-3	Explosive ***	Alt Refueling		
1C41-F004B	EX	1.5	1	D	M	C	N/A	M05-1077 ;D-3	Explosive ***	Alt Refueling		
1C41-F006	NC	3	1	A/C		C	0	M05-1077 ;D-2	Exercise Leak Rate	Cold Shutdown Refueling	2027	Ref 3
1C41-F029A	R	1.5x2	2	C		C	0	M05-1077 ;C-4	Bench	5 Year		
1C41-F029B	R	1.5x2	2	C		C	0	M05-1077 ;E-4	Bench	5 Year		
1C41-F033A	NC	1.5	2	C		C	0	M05-1077 ;C-4 C	Exercise Exercise	3 Month Cold Shutdown		Ref 3
1C41-F033B	NC	1.5	2	C		C	0	M05-1077 ;E-4 C	Exercise Exercise	3 Month Cold Shutdown		Ref 3
1C41-F336	C	4	1	A/C		C	0	M05-1077 ;E-1	Exercise Leak Rate	Refueling Refueling	2028 2027	
1CC049	G	10	2	A	MD	0	C	M05-1032/3 ;C-8	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 2 Year 18 Month	2021 2011	Ref 1 Ref 1
1CC050	G	6	2	A	MD	0	C	M05-1032/3 ;C-7	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 2 Year 18 Month	2021 2011	Ref 1 Ref 1

*** Test one valve during each refueling.

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1CC053	G	6	2	A	MO	O	C	M05-1032/3 ;C-3	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 2 Year 18 Month	2021 2011	Ref 1 Ref 1
1CC054	G	10	2	A	MO	O	C	M05-1032/3 ;C-1	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 2 Year 18 Month	2021 2011	Ref 1 Ref 1
1CC057	G	8	2	B	MO	O	C	M05-1032/3 ;D-8	Stroke Time Exercise Position Indication	Cold Shutdown Cold Shutdown 2 Year	2021	Ref 1 Ref 1
1CC060	G	8	2	A	MO	O	C	M05-1032/3 ;C-2	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 2 Year 18 Month	2021 2011	Ref 1 Ref 1
1CC071	G	4	2	A	MO	C	O.C	M05-1032/3 ;E-2	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 2 Year 18 Month	2021 2011	Ref 1 Ref 1
1CC072	G	4	2	A	MO	C	O.C	M05-1032/3 ;E-1	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 2 Year 18 Month	2021 2011	Ref 1 Ref 1

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1CC073	G	4	2	A	MO	C	O.C	M05-1032/3 ;F-1	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 2 Year 18 Month	2021 2011	Ref 1 Ref 1
1CC074	G	4	2	A	MO	C	O.C	M05-1032/3 ;F-2	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 2 Year 18 Month	2021 2011	Ref . Ref 1
1CC075A	B	14	3	B	MO	O.C	C	M05-1032/2 ;E-3	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1CC075B	B	14	3	B	MO	O.C	C	M05-1032/2 ;C-3	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1CC076A	B	14	3	B	MO	O.C	C	M05-1032/2 ;D-2	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1CC076B	B	14	3	B	MO	O.C	C	M05-1032/2 ;C-2	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1CC127	G	8	2	A	MO	O	C	M05-1032/3 ;D-B	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 2 Year 18 Month	2021 2011	Ref 1 Ref 1

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION	NORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1CC12B	G	8	2	B	MO	0	C	M05-1032/3 :C-2	Stroke Time Exercise Position Indication	Cold Shutdown Cold Shutdown 2 Year	2021	Ref 1 Ref 1
1CM002A	EFC	0.75	2	A/C		0	C	M05-1034/1 :B-7	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 4 2011
1CM002B	EFC	0.75	2	A/C		0	C	M05-1034/1 :A-7	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 4 2011
1CM003A	EFC	0.75	2	A/C		0	C	M05-1034/1 :B-4	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 2 2011
1CM003B	EFC	0.75	2	A/C		0	C	M05-1034/1 :B-7	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 2 2011
1CM011	G	0.75	2	A	SD	0	D.C	M05-1034/2 :C-7	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2013	2011
1CM012	G	0.75	2	A	SD	0	D.C	M05-1034/2 :C-6	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2013	2013 2011

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1CM014	G	0.5	2	B	SO	C	0	M05-1034/2 ;B-6	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year	2013	
1CM015	G	0.5	2	B	SO	C	0	M05-1034/2 ;F-5	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year	2013	
1CM016	G	0.5	2	B	SO	C	0	M05-1034/2 ;E-5	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year	2013	
1CM017	G	0.5	2	B	SO	C	0	M05-1034/2 ;D-5	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year	2013	
1CM018	G	0.5	2	B	SO	C	0	M05-1034/2 ;B-5	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year	2013	
1CM022	G	0.75	2	A	SO	C	0,C	M05-1034/2 ;D-3	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2013 2011	

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EIN	TYPE	SIZE	CLASS	CATE- 6DRY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1CM023	G	0.75	2	A	SO	C	O,C	M05-1034/2 ;D-3	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2013	
1CM025	G	0.75	2	A	SO	C	O,C	M05-1034/2 ;C-3	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2013	
1CM026	G	0.75	2	A	SO	C	O,C	M05-1034/2 ;C-3	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2013	
1CM028	G	0.5	2	B	SO	C	O	M05-1034/2 ;B-3	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year	2013	
1CM031	E	0.5	2	B	SO	C	O	M05-1034/2 ;B-4	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year	2013	
1CM032	G	0.5	2	B	SO	C	O	M05-1034/2 ;D-4	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year	2013	

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1CM033	G	0.5	2	B	SO	C	O	M05-1034/2 :E-4	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year	2013	
1CM034	G	0.5	2	B	SO	C	O	M05-1034/2 :F-4	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year	2013	
1CM047	G	0.75	2	A	SO	O	O.C	M05-1034/2 :D-6	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2013	2011
1CM048	G	0.75	2	A	SO	O	O.C	M05-1034/2 :D-7	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2013	2011
1CM051	EFC	0.75	2	A/C		O	C	M05-1034/2 :C-6	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 2 2011
1CM053	EFC	0.75	2	A/C		O	C	M05-1034/3 :C-5	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 2 2011

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
ICM066	EFC	0.75	2	A/C		0	C	M05-1071/1 :F-3	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 2 2011
ICM067	EFC	0.75	2	A/C		0	C	M05-1071/1 :E-6	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 2 2011
ICY016	G	6	2	A	MO	0	C	M05-1012/6 :C-6	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month		2011
ICY017	G	6	2	A	MO	0	C	M05-1012/6 :C-6	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month		2011
ICY020	G	3	2	A	MO	0	C	M05-1012/6 :D-3	Stroke Time Exercise Position Indication Leak Rate	3 Month 3 Month 2 Year Refueling		2027
ICY021	G	3	2	A	MO	0	C	M05-1012/6 :D-2	Stroke Time Exercise Position Indication Leak Rate	3 Month 3 Month 2 Year Refueling		2027
IDG006A	R	0.5	3	C		C	D	M05-1035/1 :E-6	Bench	5 Year		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1D6006B	R	0.5	3	C		C	0	M05-1035/1 :D-6	Bench	5 Year		
1D6006C	R	0.5	3	C		C	0	M05-1035/2 :E-6	Bench	5 Year		
1D6006D	R	0.5	3	C		C	0	M05-1035/2 :D-6	Bench	5 Year		
1D6006E	R	0.5	3	C		C	0	M05-1035/3 :E-6	Bench	5 Year		
1D6006F	R	0.5	3	C		C	0	M05-1035/3 :D-6	Bench	5 Year		
1D6008A	DIA	1.5	0	B	SO	C	0	M05-1035/1 :E-3	Stroke Time Exercise	3 Month 3 Month		2026
1D6008B	DIA	1.5	0	B	SO	C	0	M05-1035/1 :C-3	Stroke Time Exercise	3 Month 3 Month		2026
1D6008C	DIA	1.5	0	B	SO	C	0	M05-1035/1 :F-3	Stroke Time Exercise	3 Month 3 Month		2026
1D6008D	DIA	1.5	0	B	SO	C	0	M05-1035/1 :B-3	Stroke Time Exercise	3 Month 3 Month		2026
1D6008E	DIA	1.5	0	B	SO	C	0	M05-1035/2 :E-3	Stroke Time Exercise	3 Month 3 Month		2026

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1D6008F	DIA	1.5	0	B	SO	C	0	M05-1035/2 :C-3	Stroke Time Exercise	3 Month 3 Month	2026	
1D6008G	DIA	1.5	0	B	SO	C	0	M05-1035/2 :F-3	Stroke Time Exercise	3 Month 3 Month	2026	
1D6008H	DIA	1.5	0	B	SO	C	0	M05-1035/2 :B-3	Stroke Time Exercise	3 Month 3 Month	2026	
1D6008J	DIA	1.5	0	B	SO	C	0	M05-1035/3 :E-3	Stroke Time Exercise	3 Month 3 Month	2026	
1D6008K	DIA	1.5	0	B	SO	C	0	M05-1035/3 :D-3	Stroke Time Exercise	3 Month 3 Month	2026	
1D6168	C	1	0	A/C		O/C	C	M05-1035/1 :E-7	Exercise Leak Rate	3 Month 2 Year	2029	
1D6169	C	1	0	A/C		O/C	C	M05-1035/1 :C-7	Exercise Leak Rate	3 Month 2 Year	2029	
1D6170	C	1	0	A/C		O/C	C	M05-1035/2 :E-7	Exercise Leak Rate	3 Month 2 Year	2029	
1D6171	C	1	0	A/C		O/C	C	M05-1035/2 :C-7	Exercise Leak Rate	3 Month 2 Year	2029	

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EIN	TYPE	SIZE	CLASS	GORY	A/C	ACTU	POSITION	P&ID	COORD	REQUIRED TESTS	FREQUENCY		RELIEF COLD SHUTDOWN REQUEST JUSTIFICATION
											3 Month	2 Year	
1D6172	C	1	0	A/C			O/C C	M05-1035/3	E-7	Exercise Leak Rate	3 Month 2 Year	2029	
1D6173	C	1	0	A/C			O/C C	M05-1035/3	C-7	Exercise Leak Rate	3 Month 2 Year	2029	
1D0001A	C	1.5	3	C			C C	0	M05-1036/1	B-1	3 Month		
1D0001B	C	1.5	3	C			C C	0	M05-1036/1	B-5	3 Month		
1D0001C	C	1.5	3	C			C C	0	M05-1036/2	B-3	3 Month		
1D0005A	R	0.75x1	3	C			C C	0	M05-1036/1	C-1	5 Year		
1D0005B	R	0.75x1	3	C			C C	0	M05-1036/1	C-5	5 Year		
1D0005C	R	0.75x1	3	C			C C	0	M05-1036/2	C-3	5 Year		
1E12-F003A	6L	14	2	B		M0	0	0	0	C M05-1075/4	3 Month 3 Month Position Indication 2 Year		
1E12-F003B	6L	14	2	B		M0	0	0	0	U.C M05-1075/4	3 Month 3 Month Position Indication 2 Year		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E12-F004A	G	20	2	A	MO	O	O.C	M05-1075/1 ;A-4	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 2 Year	2011	
1E12-F004B	G	20	2	A	MO	O	O.C	M05-1075/2 ;A-6	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 2 Year	2011	
1E12-F005	R	1.5x2	2	A/C		C	O	M05-1075/1 ;B-5	Leak Rate Bench	18 Month 5 Year	2011	
1E12-F006A	G	16	2	B	MO	C	O	M05-1075/1 ;A-5	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E12-F006B	G	16	2	B	MO	C	O	M05-1075/2 ;A-6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E12-F008	G	18	1	A	MO	C	O.C	M05-1075/1 ;B-4	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 18 Month 18 Month	2021	Ref 1 Ref 1
1E12-F009	G	18	1	A	MO	C	O.C	M05-1075/1 ;B-2	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 18 Month 18 Month	2021	Ref 1 Ref 1

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E12-F011A	GL	4	2	A	MO	C	O.C	M05-1075/4 ;D-4	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 18 Month	2011	
1E12-F011B	GL	4	2	A	MO	C	O.C	M05-1075/2 ;C-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 18 Month	2011	
1E12-F014A	G	18	3	B	MO	C	O	M05-1052/1 ;D-2	Stroke Time Exercise Position Indication	3 Month 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 3 Month 2 Year		
1E12-F017A	R	1.5x2	2	A/C		C	O	M05-1075/1 ;B-6	Leak Rate Bench	18 Month 5 Year	2011	
1E12-F017B	R	1.5x2	2	A/C		C	O	M05-1075/2 ;B-6	Leak Rate Bench	18 Month 5 Year	2011	
1E12-F019	C	4	1	C		C	O	M05-1075/2 ;C-5	Exercise	Cold Shutdown		Ref 1
1E12-F021	GL	14	2	A	MO	C	O.C	M05-1075/3 ;D-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 18 Month	2011	

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E12-F023	GL	4	1	A	MO	C	O.C M05-1075/2 ;C-5		Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown 2021 Cold Shutdown 18 Month 18 Month		Ref 1 Ref 1
1E12-F024A	G	14	2	A	MO	C	O.C M05-1075/1 ;C-7		Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 18 Month	2011	
1E12-F024B	G	14	2	A	MO	C	O.C M05-1075/2 ;C-2		Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 18 Month	2011	
1E12-F025A	R	1x1.5	2	A/C		C	O M05-1075/1 ;D-4		Leak Rate Bench	2 Year 5 Year	2011	
1E12-F025B	R	1x1.5	2	A/C		C	O M05-1075/2 ;E-5		Leak Rate Bench	2 Year 5 Year	2011	
1E12-F025C	R	1x1.5	2	A/C		C	O M05-1075/3 ;F-3		Leak Rate Bench	18 Month 5 Year	2011	
1E12-F026A	G	4	2	B	MO	C	O.C M05-1075/4 ;E-3		Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E12-F026B	G	4	2	B	MO	C	O.C	M05-1075/4 ;E-6	Stroke Time Exercise Position Indication	3 Month 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 3 Month 2 Year 2 Year	2011	
1E12-F027B	G	12	2	A	MO	O	O.C	M05-1075/2 ;D-5	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 2 Year	2011	
1E12-F028A	G	10	2	A	MO	C	O.C	M05-1075/1 ;F-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 2 Year	2011	
1E12-F028B	G	10	2	A	MO	C	O.C	M05-1075/2 ;F-0	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 2 Year	2011	
1E12-F030	R	1x1.5	2	A/C		C	O	M05-1075/2 ;B-3	Leak Rate bench	18 Month 5 Year	2011	
1E12-F031A	NC	14	2	C		C	G	M05-1075/1 ;B-8	Exercise	3 Month		

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FIN	TYPE	SIZE	CLASS	DATE- GDRY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E12-F031B	NC	14	2	C	C	C	0	M05-1075/2 ;B-1	Exercise	3 Month		
1E12-F031C	NC	14	2	C	C	C	0	M05-1075/3 ;D-1	Exercise	3 Month		
1E12-F036	R	4x6	2	A/C	C	C	0	M05-1075/4 ;E-5	Leak Rate Bench	18 Month 5 Year	2011	
1E12-F037A	GL	10	2	A	MO	C	0,C	M05-1075/1 ;F-2	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month		2011
1E12-F037B	GL	10	2	A	MO	C	0,C	M05-1075/1 ;F-7	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month		2011
1E12-F040	GL	3	2	B	MO	C	C	M05-1075/2 ;E-1	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E12-F041A	NC	12	1	A/C	AO	C	0	M05-1075/1 ;D-2	Exercise Partial Exercise Leak Rate Position Indication	Refueling Cold Shutdown 18 Month 2 Year	2014	Ref 1
1E12-F041B	NC	12	1	A/C	AO	C	0	M05-1075/2 ;D-7	Exercise Partial Exercise Leak Rate Position Indication	Refueling Cold Shutdown 18 Month 2 Year	2014	Ref 1

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E12-F041C	NC	12	1	H/C	AO	C	O	M05-1075/3 ;E-7	Exercise Partial Exercise Leak Rate Position Indication	Refueling Cold Shutdown 18 Month 2 Year	2014	Ref 1
1E12-F042A	G	12	1	A	MO	C	O.C	M05-1075/1 ;D-3	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 18 Month 2 Year	2021	Ref 1 Ref 1
1E12-F042B	G	12	1	A	MO	C	O.C	M05-1075/2 ;D-6	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 18 Month 2 Year	2021	Ref 1 Ref 1
1E12-F042C	G	12	1	A	MO	C	O.C	M05-1075/3 ;E-5	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 18 Month 2 Year	2021	Ref 1 Ref 1
1E12-F046A	C	4	2	C			O.C	O	M05-1075/1 ;B-7	Exercise	3 Month	
1E12-F046B	C	4	2	C			O.C	O	M05-1075/2 ;B-2	Exercise	3 Month	
1E12-F046C	C	4	2	C			O.C	O	M05-1075/3 ;B-2	Exercise	3 Month	
1E12-F047A	G	14	2	B	MO	O	O.C	M05-1075/4 ;C-2	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		

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1E12-F047B	G	14	2	B	MO	O	O.C	M05-1075/4 ;C-8	Stroke Time Exercise Position Indication	3 Month 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 3 Month 2 Year		
1E12-F048B	GL	14	2	B	MO	O	O.C	M05-1075/2 ;C-1	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E12-F049	G	3	2	A	MO	C	C	M05-1075/2 ;E-1	Stroke Time Exercise Position Indication Leak Rate	3 Month 3 Month 2 Year 18 Month		
1E12-F050A	NC	10	2	A/C		C	O	M05-1075/1 ;D-5	Exercise Leak Rate	Cold Shutdown 18 Month		Ref 3
1E12-F050B	NC	10	2	A/C		C	O	M05-1075/2 ;E-5	Exercise Leak Rate	Cold Shutdown 18 Month		Ref 3
1E12-F051A	G	6	2	A	AO	C	C	M05-1075/4 ;F-2	Stroke Time Exercise Leak Rate	3 Month 3 Month 18 Month		
1E12-F051B	G	6	2	A	AO	C	C	M05-1075/4 ;F-6	Stroke Time Exercise Leak Rate	3 Month 3 Month 18 Month		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E12-F052A	GL	8	2	B	MO	D.C	D.C	M05-1075/4 ;E/F-3/4	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E12-F052B	GL	8	2	B	MO	D.C	D.C	M05-1075/4 ;E/F-5/6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E12-F053A	GL	10	2	A	MO	C	D.C	M05-1075/1 ;D-6	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown 2021 Cold Shutdown 18 Month 18 Month		Ref 1 Ref 1
1E12-F053B	GL	10	2	A	MO	C	D.C	M05-1075/2 ;E-4	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown 2021 Cold Shutdown 18 Month 18 Month		Ref 1 Ref 1
1E12-F054A	C	4	2	C		D.C	D	M05-1075/4 ;D-3	Exercise	3 Month		
1E12-F054B	C	4	2	C		D.C	D	M05-1075/4 ;D-6	Exercise	3 Month		
1E12-F055A	R	8x12	2	A/C		C	D	M05-1075/4 ;C-2	Leak Rate Bench	18 Month 5 Year	2011	
1E12-F055B	R	8x12	2	A/C		C	D	M05-1075/4 ;C-7	Leak Rate Bench	18 Month 5 Year	2011	

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E12-F060A	2WAY	0.75	2	B	SO	C	O	M05-1075/4 ;B-4	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year	2013	
1E12-F060B	2WAY	0.75	2	B	SO	C	O	M05-1075/4 ;B-5	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 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 3 Month 18 Month 2 Year	2011	
1E12-F064B	G	4	2	A	MO	O	O.C	M05-1075/2 ;B-1	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 2 Year	2011	
1E12-F064C	G	4	2	A	MO	O	O.C	M05-1075/3 ;B-1	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 2 Year	2011	
1E12-F065A	G	4	2	B	AO	C	C	M05-1075/4 ;D-3	Stroke Time Exercise	3 Month 3 Month		
1E12-F065B	G	4	2	B	AO	C	C	M05-1075/4 ;D-6	Stroke Time Exercise	3 Month 3 Month		

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION	NORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E12-F068A	G	18	3	B	MO	C	0	M05-1052/1 ;C-1	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E12-F068B	G	18	3	B	MO	C	0	M05-1052/2 ;C-1	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E12-F073A	GL	1.5	2	B	MO	C	0	M05-1075/1 ;C-3	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E12-F073B	GL	1.5	2	B	MO	C	0	M05-1075/2 ;B-7	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E12-F074A	GL	1.5	2	A	MO	C	0	M05-1075/1 ;C-4	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 2 Year		2011
1E12-F074B	GL	1.5	2	A	MO	C	0	M05-1075/2 ;B-5	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 2 Year		2011
1E12-F075A	2WAY	0.75	2	B	SO	C	0	M05-1075/4 ;B-4	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year		2013

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITI- ON	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E12-F075B	2WAY	0.75	2	B	SO	C	0	M05-1075/4 ;B-5	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year	2013	
1E12-F084A	C	2.5	2	C		0	0	M05-1075/1 ;B-7	Exercise	3 Month		
1E12-F084B	C	2.5	2	C		0	0	M05-1075/2 ;B-2	Exercise	3 Month		
1E12-F084C	C	2.5	2	C		0	0	M05-1075/3 ;E-2	Exercise	3 Month		
1E12-F085A	GSC	2	2	C		LD	0.C	M05-1075/1 ;B-8	Exercise	3 Month		
1E12-F085B	GSC	2	2	C		LD	0.C	M05-1075/2 ;B-1	Exercise	3 Month		
1E12-F085C	GSC	2	2	C		LD	0.C	M05-1075/3 ;E-1	Exercise	3 Month		
1E12-F094	G	4	3	B	MO	C	0	M05-1075/4 ;E-7	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E12-F095	2WAY	0.75	3	B	SO	0	C	M05-1075/4 ;E-7	Exercise Loss of Power	3 Month 3 Month	2007	
1E12-F096	G	4	2	B	MO	C	0	M05-1075/4 ;E-7	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		

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EIN	TYPE	SIZE	CLASS	DATE	ACTUATOR	POSITION	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E12-F09B	C				C	C	D M05-1075/4 ;D-7	Exercise	3 Month		
1E12-F101	R				A/C	C	D M05-1075/3 ;C-5	Leak Rate Bench	18 Month 5 Year		2011
1E12-F103A					C	C	D M05-1075/4 ;B-1	Exercise	3 Month		
1E12-F103B					C	C	D M05-1075/4 ;B-B	Exercise	3 Month		
1E12-F104A	VR	2	2		C	C	G M05-1075/4 ;B-1	Exercise	3 Month		
1E12-F104B	VR	2	2		C	C	D M05-1075/4 ;B-B	Exercise	3 Month		
1E12-F105	G	20	2		A	MO	D, C M05-1075/3 ;B-5	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 2 Year		2011
1E12-F475	C	1	2		A/C	C	D, C M05-1075/1 ;B-2	Exercise Leak Rate	Refueling 2 Year		2018 2011
1E21-F001	G	20	2		A	MO	D, C M05-1073 ;B-4	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 2 Year		2011

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EIN	TYPE	SIZE	CLASS	WORY	E- ACTU- ATOR	POSITION NORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E21-F003	NC	12	2	C		C	0 M05-1073 ;E-6	Exercise	3 Month		
1E21-F005	G	10	1	A	MO	C	0.C M05-1073 ;E-4	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown 2021 Cold Shutdown 18 Month 2 Year		Ref 1 Ref 1
1E21-F006	NC	10	1	A/C	AD	C	0 M05-1073 ;E-2	Exercise Partial Exercise Leak Rate Position Indication	Refueling 2014 Cold Shutdown 18 Month 2 Year		Ref 1
1E21-F011	G	4	2	A	MO	0	0.C M05-1073 ;D-6	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 2 Year		2011
1E21-F012	GL	10	2	A	MO	C	0.C M05-1073 ;D-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 18 Month		2011
1E21-F01B	R	1.5x2	2	A/C		C	0 M05-1073 ;E-5	Leak Rate Bench	18 Month 5 Year		2011
1E21-F031	R	1.5x1	2	A/C		C	0 M05-1073 ;C-8	Leak Rate Bench	18 Month 5 Year		2011

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E21-F033	C	2.5	2	C		0	0	M05-1073 ;D-6	Exercise	3 Month		
1E21-F034	GSC	2	2	C		0	0,C	M05-1073 ;D-6	Exercise	3 Month		
1E21-F303	NC	10	2	C		C	0	M05-1073 ;C-5	Exercise	3 Month		
1E22-F001	G	16	2	B	AD	0	0,C	M05-1074 ;A-6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E22-F002	C	16	2	C		0	0	M05-1074 ;A-5	Exercise	3 Month		
1E22-F004	G	10	1	A	MO	C	0,C	M05-1074 ;E-7	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown 2021 Cold Shutdown 18 Month 2 Year	Ref 1 Ref 1	
1E22-F005	NC	10	1	A/C	AO	C	0	M05-1074 ;E-B	Exercise Partial Exercise Leak Rate Position Indication	Refueling 2014 Cold Shutdown 18 Month 2 Year		Ref 1
1E22-F006	GSC	2	2	C	M	0	0,C	M05-1074 ;D-4	Exercise	3 Month		
1E22-F007	C	2.5	2	C		0	0	M05-1074 ;D-4	Exercise	3 Month		

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION	NORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E22-F010	GL	10	2	B	MO	C	C	M05-1074 :D-6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E22-F011	GL	10	2	B	MO	C	C	M05-1074 :D-5	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E22-F012	G	4	2	A	MO	C	D.C	M05-1074 :D-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 2 Year	2011	
1E22-F014	R	1x0.75	2	A/C		C	0	M05-1074 :C-5	Leak Rate Bench	18 Month 5 Year	2011	
1E22-F015	G	20	2	A	MO	C	D.C	M05-1074 :B-7	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 2 Year	2011	
1E22-F016	C	20	2	C		C	0	M05-1074 :B-6	Exercise	3 Month		
1E22-F023	GL	10	2	A	MO	C	D.C	M05-1074 :D-6	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 18 Month	2011	

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E22-F024	NC	14	2	C		C	D	M05-1074 :E-3	Exercise	3 Month		
1E22-F035	R	1x0.75	2	A/C		C	D	M05-1074 :E-3	Leak Rate Bench	18 Month 5 Year	2011	
1E22-F039	R	1x0.75	2	A/C		C	D	M05-1074 :C-6	Leak Rate Bench	18 Month 5 Year	2011	
1E22-F330	EFC	0.75	2	A/C		D	C	M10-1074/3 :	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 2 2011
1E22-F332	EFC	0.75	2	A/C		D	C	M10-1074/3 :	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 4 2011
1E31-F014	G	1	2	A	SD	D	C	M05-1041/4 :E-8	Stroke Time Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling	2013	2027
1E31-F015	G	1	2	A	SD	D	C	M05-1041/4 :E-7	Stroke Time Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling	2013	2027

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E31-F017	G	1	2	A	SO	0	C	M05-1041/4 ;C-7	Stroke Time Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling	2013	
1E31-F018	G	1	2	A	SO	0	C	M05-1041/4 ;C-8	Stroke Time Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling	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 Cold Shutdown 18 Month 2 Year	2021	Ref 1 Ref 1
1E32-F001E	GL	1.5	1	A	MO	C	O,C	M05-1070 ;E-7	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 18 Month 2 Year	2021	Ref 1 Ref 1
1E32-F001J	GL	1.5	1	A	MO	C	O,C	M05-1070 ;B-7	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 18 Month 2 Year	2021	Ref 1 Ref 1
1E32-F001N	GL	1.5	1	A	MO	C	O,C	M05-1070 ;D-7	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 18 Month 2 Year	2021	Ref 1 Ref 1

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION	P&ID	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E32-F002A	GL	1.5	2	B	MO	C	O,C M05-1070 ;C-7	Stroke Time Exercise Position Indication	Cold Shutdown Cold Shutdown 2 Year	2021	Ref 1 Ref 1
1E32-F002E	GL	1.5	2	B	MO	C	O,C M05-1070 ;E-7	Stroke Time Exercise Position Indication	Cold Shutdown Cold Shutdown 2 Year	2021	Ref 1 Ref 1
1E32-F002J	GL	1.5	2	B	MO	C	O,C M05-1070 ;B-7	Stroke Time Exercise Position Indication	Cold Shutdown Cold Shutdown 2 Year	2021	Ref 1 Ref 1
1E32-F002N	GL	1.5	2	B	MO	C	O,C M05-1070 ;D-7	Stroke Time Exercise Position Indication	Cold Shutdown Cold Shutdown 2 Year	2021	Ref 1 Ref 1
1E32-F003A	GL	1.5	2	B	MO	C	O,C M05-1070 ;C-7	Stroke Time Exercise Position Indication	Cold Shutdown Cold Shutdown 2 Year	2021	Ref 1 Ref 1
1E32-F003E	GL	1.5	2	B	MO	C	O,C M05-1070 ;E-7	Stroke Time Exercise Position Indication	Cold Shutdown Cold Shutdown 2 Year	2021	Ref 1 Ref 1
1E32-F003J	GL	1.5	2	B	MO	C	O,C M05-1070 ;B-7	Stroke Time Exercise Position Indication	Cold Shutdown Cold Shutdown 2 Year	2021	Ref 1 Ref 1

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E32-F003N	GL	1.5	2	B	MO	C	O,C	M05-1070 ;D-7	Stroke Time Exercise Position Indication	Cold Shutdown Cold Shutdown 2 Year	2021	Ref 1 Ref 1
1E32-F006	G	2.5	2	B	MO	C	O,C	M05-1070 ;C-4	Stroke Time Exercise Position Indication	Cold Shutdown Cold Shutdown 2 Year	2021	Ref 1 Ref 1
1E32-F007	G	2.5	2	B	MO	C	O,C	M05-1070 ;C-3	Stroke Time Exercise Position Indication	Cold Shutdown Cold Shutdown 2 Year	2021	Ref 1 Ref 1
1E32-F008	G	2.5	2	B	MO	C	O,C	M05-1070 ;A-4	Stroke Time Exercise Position Indication	Cold Shutdown Cold Shutdown 2 Year	2021	Ref 1 Ref 1
1E32-F009	G	2.5	2	B	MO	C	O,C	M05-1070 ;A-3	Stroke Time Exercise Position Indication	Cold Shutdown Cold Shutdown 2 Year	2021	Ref 1 Ref 1
1E32-F010	C	0.75	2	C		C	O C	M05-1070 ;E-4	Exercise Exercise	Cold Shutdown 3 Month		Ref 1
1E32-F011	C	0.75	2	C		C	O C	M05-1070 ;B-2	Exercise Exercise	Cold Shutdown 3 Month		Ref 1
1E32-F315A	C	0.75	2	C		C	O C	M05-1070 ;A-4	Exercise Exercise	Cold Shutdown 3 Month		Ref 1

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E32-F315B	C	0.75	2	C	C	D	C	M05-1070 ;A-4	Exercise Exercise	Cold Shutdown 3 Month		Ref 1
1E32-F315C	C	0.75	2	C	C	D	C	M05-1070 ;A-4	Exercise Exercise	Cold Shutdown 3 Month		Ref 1
1E32-F315D	C	0.75	2	C	C	D	C	M05-1070 ;A-4	Exercise Exercise	Cold Shutdown 3 Month		Ref 1
1E51-C002E	G	4	2	B	MO	D	D.C	M05-1079/2 ;D-3	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E51-F004	CV	1	2	B	AO	D	D.C	M05-1079/1 ;B-1	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year		
1E51-F005	CV	1	2	B	AO	C	D.C	M05-1079/1 ;B-2	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year		
1E51-F010	G	6	2	B	MO	D	D.C	M05-1079/2 ;A-6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E51-F011	C	6	2	C	C	D	D	M05-1079/2 ;A-4	Exercise	3 Month		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E51-F013	G	6	1	A	MO	C	O.C	M05-1079/2 ;F-6	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown 2021 Cold Shutdown 18 Month 2 Year		Ref 1 Ref 1
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 3 Month 18 Month 2 Year	2011	
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	O.C	M05-1079/2 ;E-5	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E51-F025	CV	1	2	B	AO	O	O.C	M05-1079/1 ;D-5	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year		
1E51-F026	CV	1	2	B	AO	O	O.L	M05-1079/1 ;D-5	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year		

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E51-F030	C	6	2	C		C	D	M05-1079/2 ;B-4	Exercise	3 Month		
1E51-F031	G	6	2	A	MO	C	D,C	M05-1079/2 ;B/C-6	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 18 Month	2011	
1E51-F040	C	12	2	A/C		C	D	M05-1079/1 ;C-4	Exercise Leak Rate	3 Month 18 Month	2011	
1E51-F045	GL	4	2	B	MO	C	D	M05-1079/1 ;D-4	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E51-F046	GL	2	2	B	MO	C	D	M05-1079/2 ;C-3	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E51-F059	G	4	2	B	MO	C	C	M05-1079/2 ;E-5	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E51-F061	C	2.5	2	C		D	D	M05-1079/2 ;B-4	Exercise	3 Month		
1E51-F062	C	2	2	C		D	D	M05-1079/2 ;B-4	Exercise	3 Month		
1E51-F063	G	3	1	A	MO	D	D,C	M05-1079/1 ;E-B	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E51-F064	G	8	1	A	MO	O	O,C	M05-1079/1 ;E-5	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1E51-F065	NC	4	1	C		C	O	M05-1079/2 ;E-6	Exercise	Cold Shutdown		Ref 1
1E51-F066	NC	4	1	A/C	AO	C	O	M05-1079/2 ;F-8	Exercise Leak Rate	Cold Shutdown 2020 18 Month		Ref 4
1E51-F068	G	12	2	A	MO	O	O,C	M05-1079/2 ;C-5	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 2 Year	2011	
1E51-F076	GL	1	1	A	MO	C	O,C	M05-1079/1 ;E-8	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1E51-F077	GL	1.5	2	A	MO	O	O,C	M05-1079/1 ;C-5	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1E51-F078	G	3	2	A	MO	O	O,C	M05-1079/1 ;C-6	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1E51-F079	VR	2	2	C	C	0	0	M05-1079/1 :C-6	Exercise	3 Month		
1E51-F081	VR	2	2	C	C	0	0	M05-1079/1 :C-6	Exercise	3 Month		
1E51-F090	R	0.75x1	2	A/C	C	0	0	M05-1079/2 :E-5	Leak Rate Bench	18 Month 5 Year	2011	
1E51-F095	G	1	2	B	MO	C	0.C	M05-1079/1 :D-4	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1E51-F377A	EFC	0.75	2	A/C	0	C	0	M10-1079/2 :	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 2 2011
1E51-F377B	EFC	0.75	2	A/C	0	C	0	M10-1079/2 :	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 4 2011
1FC004A	CV	8	3	B	AO	0.C	0	M05-1037/3 :E-5	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year		
1FC004B	CV	8	3	B	AO	0.C	0	M05-1037/3 :A-5	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1FC007	G	10	2	A	MO	D	C	M05-1037/1 ;B-2	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1FC008	G	10	2	A	MO	D	C	M05-1037/1 ;B-1	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1FC011A	B	14	3	B	MO	O,C	C	M05-1037/3 ;E-7	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1FC011B	B	14	3	B	MO	O,C	C	M05-1037/3 ;A-7	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1FC013A	NC	14	3	C		O,C	C	M05-1037/3 ;E-7	Exercise	3 Month		
1FC013B	NC	14	3	C		O,C	C	M05-1037/3 ;A-7	Exercise	3 Month		
1FC015A	B	14	3	B	MO	O,C	C	M05-1037/3 ;E-2	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1FC015B	B	14	3	B	MO	O,C	C	M05-1037/3 ;A-2	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1FC016A	B	8	3	B	MO	O.C	C	M05-1037/3 ;D-6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1FC016B	B	8	3	B	MO	O.C	C	M05-1037/3 ;D-6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1FC017	B	8	3	B	AD	O	C	M05-1037/3 ;C-6	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year		
1FC023	B	8	3	B	AD	O	C	M05-1037/3 ;C-3	Stroke Time Exercise Loss of Power Position Indication	3 Month 3 Month 3 Month 2 Year		
1FC024A	B	8	3	B	MO	O.C	C	M05-1037/3 ;D-2	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1FC024B	B	8	3	B	MO	O.C	C	M05-1037/3 ;C-2	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1FC026A	B	14	3	B	MO	O.C	C	M05-1037/3 ;E-2	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION	NORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1FC026B	B	14	3	B	MO	O.C	C	M05-1037/3 ;B-2	Stroke Time Exercise Position Indication	3 Month 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 3 Month 2 Year 18 Month	2011	
1FC037	G	8	2	A	MO	O	C	M05-1037/2 ;E-2	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1FC085A	R	4x6	3	C		C	O	M05-1037/1 ;F-B	Bench	5 Year		
1FC085B	R	4x6	3	C		C	O	M05-1037/1 ;A-B	Bench	5 Year		
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 3 Month 2 Year 18 Month	2011	
1FP051	G	10	2	A	MO	O	C	M05-1039/9 ;C-7	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1FP052	G	10	2	A	MO	O	C	M05-1039/9 ;C-6	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1FP053	G	10	2	A	MO	O	C	M05-1039/9 ;C-4	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1FP054	G	10	2	A	MO	O	C	M05-1039/9 ;C-2	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1FP078	G	4	2	A	MO	O	C	M05-1039/9 ;D-5	Stroke Time Exercise Position Indication Leak Rate	3 Month 3 Month 2 Year Refueling	2027	
1FP079	G	4	2	A	MO	O	C	M05-1039/9 ;D-6	Stroke Time Exercise Position Indication Leak Rate	3 Month 3 Month 2 Year Refueling	2027	
1FP092	G	6	2	A	MO	O	C	M05-1039/9 ;D-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1633-F001	G	6	1	A	MO	D	C	M05-1076/4 ;B-8	Stroke Time Exercise Leak Rate Position Indication	Refueling Refueling 2 Year 18 Month	2017,2021 2017 2011	
1633-F004	G	6	1	A	MO	D	C	M05-1076/4 ;B-5	Stroke Time Exercise Leak Rate Position Indication	Refueling Refueling 2 Year 18 Month	2017,2021 2017 2011	
1633-F028	G	4	2	A	MO	C	C	M05-1076/4 ;E-8	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1633-F034	G	4	2	A	MO	C	C	M05-1076/4 ;E-7	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1633-F039	G	4	2	A	MO	D	C	M05-1076/4 ;D-7	Stroke Time Exercise Leak Rate Position Indication	Refueling Refueling 2 Year 18 Month	2017,2021 2017 2011	
1633-F040	G	4	2	A	MO	D	C	M05-1076/4 ;D-8	Stroke Time Exercise Leak Rate Position Indication	Refueling Refueling 2 Year 18 Month	2017,2021 2017 2011	

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1633-F051	NC	4	2	C		0	C	M05-1076/4 ;D-6	Exercise	Alt Refueling	2008	
1633-F052A	NC	4	2	C		0	C	M05-1076/4 ;D-5	Exercise	Alt Refueling	2008	
1633-F052B	NC	4	2	C		0	C	M05-1076/4 ;D-5	Exercise	Alt Refueling	2008	
1633-F053	G	4	2	A	MO	0	C	M05-1076/4 ;C-8	Stroke Time Exercise Leak Rate Position Indication	Refueling Refueling 2 Year 18 Month	2017,2021 2017 2011	
1633-F054	G	4	2	A	MO	0	C	M05-1076/4 ;C-7	Stroke Time Exercise Leak Rate Position Indication	Refueling Refueling 2 Year 18 Month	2017,2021 2017 2011	
1H6001	B	2	2	A	MO	C	D,C	M05-1063 ;D-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1H6004	B	2	2	A	MO	C	D,C	M05-1063 ;C-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1H6005	B	2	2	A	MO	C	D,C	M05-1063 ;E-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION	NORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1HG008	B	2	2	A	MO	C	O.C	M05-1063 :E-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1HG009A	G	6	2	B	MO	C	O	M05-1063 :E-4	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1HG009B	G	6	2	B	MO	C	O	M05-1063 :E-6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1HG010A	VR	10	2	A/C		C	O	M05-1063 :E-4	Exercise Position Indication Exercise(Set Point) Leak Rate	3 Month 2 Year Cold Shutdown Refueling		Ref 3 2027
1HG010B	VR	10	2	A/C		C	O	M05-1063 :E-7	Exercise Position Indication Exercise(Set Point) Leak Rate	3 Month 2 Year Cold Shutdown Refueling		Ref 3 2027
1HG010C	VR	10	2	A/C		C	O	M05-1063 :B-4	Exercise Position Indication Exercise(Set Point) Leak Rate	3 Month 2 Year Cold Shutdown Refueling		Ref 3 2027
1HG010D	VR	10	2	A/C		C	O	M05-1063 :B-7	Exercise Position Indication Exercise(Set Point) Leak Rate	3 Month 2 Year Cold Shutdown Refueling		Ref 3 2027

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1HG011A	VR	10	2	A/C	C	0	0	M05-1063 ;C-4	Exercise Position Indication Exercise(Set Point) Leak Rate	3 Month 2 Year Cold Shutdown Refueling	2027	Ref 3
1HG011B	VR	10	2	A/C	C	0	0	M05-1063 ;C-6	Exercise Position Indication Exercise(Set Point) Leak Rate	3 Month 2 Year Cold Shutdown Refueling	2027	Ref 3
1HG011C	VR	10	2	A/C	C	0	0	M05-1063 ;B-4	Exercise Position Indication Exercise(Set Point) Leak Rate	3 Month 2 Year Cold Shutdown Refueling	2027	Ref 3
1HG011D	VR	10	2	A/C	C	0	0	M05-1063 ;B-6	Exercise Position Indication Exercise(Set Point) Leak Rate	3 Month 2 Year Cold Shutdown Refueling	2027	Ref 3
1IA005	CV	3	2	A	A0	0	C	M05-1040/5 ;D-2	Stroke Time Exercise Loss of Power Leak Rate Position Indication	Cold Shutdown Cold Shutdown Cold Shutdown 2 Year 18 Month	2021 2011	Ref 1 Ref 1 Ref 1
1IA006	CV	3	2	A	A0	0	C	M05-1040/5 ;D-5	Stroke Time Exercise Loss of Power Leak Rate Position Indication	Cold Shutdown Cold Shutdown Cold Shutdown 2 Year 18 Month	2021 2011	Ref 1 Ref 1 Ref 1

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
11A007	CV	3	2	A	AD	O	C	M05-1040/5 ;D-5	Stroke Time Exercise Loss of Power Position Indication Leak Rate	Cold Shutdown Cold Shutdown Cold Shutdown 2 Year Refueling	2021	Ref 1 Ref 1 Ref 1 2027
11A008	CV	3	2	A	AD	O	C	M05-1040/5 ;D-6	Stroke Time Exercise Loss of Power Position Indication Leak Rate	Cold Shutdown Cold Shutdown Cold Shutdown 2 Year Refueling	2021	Ref 1 Ref 1 Ref 1 2027
11A012A	GL	1	2	A	MO	O,C	O,C	M05-1040/7 ;D-2	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 2 Year		2011
11A012B	GL	1	2	A	MO	O	O,C	M05-1040/7 ;C-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month		2011
11A013A	GL	1	2	A	MO	O,C	O,C	M05-1040/7 ;D-7	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 2 Year		2011
11A013B	GL	1	2	A	MO	O,C	O,C	M05-1040/7 ;C-6	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month		2011

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION	NORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
11A042A	C	1	2	A/C	O	C	C	M05-1040/7 :D-6	Exercise Leak Rate	Cold Shutdown 2 Year	2011	Ref 1
11A042B	C	1	2	A/C	O	C	C	M05-1040/7 :D-4	Exercise Leak Rate	Cold Shutdown 2 Year	2011	Ref 1
11A128A	R	1.5 x 3 D	C	C	O	O	C	M05-1014/7 :E-7	Bench	5 Year		
11A128B	R	1.5 x 3 D	C	C	O	O	C	M05-1014/7 :E-2	Bench	5 Year		
11A175	C	0.5	2	A/C	O	C	C	M05-1040/5 :E-3	Exercise Leak Rate	2 Year 2 Year	2022 2011	
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 3 Month 3 Month 2 Year 18 Month	2013 2011	
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 3 Month 3 Month 2 Year 18 Month	2013 2011	
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 3 Month 3 Month 2 Year 18 Month	2013 2011	

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1PS010	G	0.75	2	A	SO	C	C	M05-1045/12:E-5	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2013	2011
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 3 Month 3 Month 2 Year 18 Month	2013	2011
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 3 Month 3 Month 2 Year 18 Month	2013	2011
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 3 Month 3 Month 2 Year 18 Month	2013	2011
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 3 Month 3 Month 2 Year 18 Month	2013	2011

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EIN	TYPE	SIZE	CLASS	DATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
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 3 Month 3 Month 2 Year 18 Month	2013	2011
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 3 Month 3 Month 2 Year 18 Month	2013	2011
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 3 Month 3 Month 2 Year 18 Month	2013	2011
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 3 Month 3 Month 2 Year 18 Month	2013	2011
1PS037	G	0.75	2	A	SO	C	C	M05-1045/12;E-B	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2013	2011

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION	NORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD JUSTIFICATION	SHUTDOWN
1PS038	G	0.75	2	A	SO	C	C	M05-1045/12;E-8	Stroke Time	3 Month	2013		
									Exercise	3 Month			
									Loss of Power	3 Month			
									Leak Rate	2 Year			
									Position Indication	18 Month			
1PS043A	G	0.75	2	B	SO	C	C	M05-1045/12;F-2	Stroke Time	3 Month	2013		
									Exercise	3 Month			
									Loss of Power	3 Month			
									Position Indication	2 Year			
1PS043B	G	0.75	2	B	SO	C	C	M05-1045/12;F-3	Stroke Time	3 Month	2013		
									Exercise	3 Month			
									Loss of Power	3 Month			
									Position Indication	2 Year			
1PS044A	G	0.75	2	B	SO	C	C	M05-1045/12;E-2	Stroke Time	3 Month	2013		
									Exercise	3 Month			
									Loss of Power	3 Month			
									Position Indication	2 Year			
1PS044B	G	0.75	2	B	SO	C	C	M05-1045/12;E-3	Stroke Time	3 Month	2013		
									Exercise	3 Month			
									Loss of Power	3 Month			
									Position Indication	2 Year			
1PS047	G	0.75	2	A	SO	C	C	M05-1045/12;F-7	Stroke Time	3 Month	2013		
									Exercise	3 Month			
									Loss of Power	3 Month			
									Leak Rate	2 Year			
									Position Indication	18 Month			
		2011											

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
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 3 Month 3 Month 2 Year 18 Month	2013	
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 3 Month 3 Month 2 Year 18 Month	2013	
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 3 Month 3 Month 2 Year 18 Month	2013	
1PS069	G	0.5	2	A	SO	C	C	M05-1045/12;B-3	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2013	
1PS070	G	0.5	2	A	SO	C	C	M05-1045/12;B-3	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2013	

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EIN	TYPE	SIZE	CLASS	CATE- GDRY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1RA016A	R	1x1.5	3	C		C	0	M05-1065/8 ;C-7	Bench	5 Year		
1RA016B	R	1x1.5	3	C		C	0	M05-1065/8 ;C-3	Bench	5 Year		
1RE019	CV	3	2	A	AD	O,C	C	M05-1046/4 ;A-7	Stroke Time Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling		2027
1RE020	CV	3	2	A	AD	O,C	C	M05-1046/3 ;A-4	Stroke Time Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling		2027
1RE021	CV	3	2	A	AD	O,C	C	M05-1046/3 ;A-5	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month		2011
1RE022	CV	3	2	A	AD	O,C	C	M05-1046/3 ;A-7	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month		2011
1RF019	CV	3	2	A	AD	O,C	C	M05-1047/3 ;C-2	Stroke Time Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling		2027

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EIN	TYPE	SIZE	CLASS	CATE- GDRY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1RF020	CV	3	2	A	AD	D,C	C	M05-1047/3 ;C-2	Stroke Time Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling		2027
1RF021	CV	3	2	A	AD	D,C	C	M05-1047/3 ;C-5	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month		2011
1RF022	CV	3	2	A	AD	D,C	C	M05-1047/3 ;C-5	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month		2011
1SA029	CV	3	2	A	AD	D	C	M05-1048/6 ;D-2	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month		2011
1SA030	CV	3	2	A	AD	D	C	M05-1048/6 ;D-3	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month		2011

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1SA031	CV	3	2	A	AO	D	C	M05-1048/6 ;D-4	Stroke Time Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling		2027
1SA032	CV	3	2	A	AO	D	C	M05-1048/6 ;D-5	Stroke Time Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling		2027
1SF001	G	10	2	A	MO	C	D,C	M05-1060 ;E-5	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month		2011
1SF002	G	10	2	A	MO	C	D,C	M05-1060 ;E-5	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month		2011
1SF004	G	12	2	A	MO	C	D,C	M05-1060 ;C-5	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 18 Month 18 Month		2011
1SM001A	B	24	2	B	MO	C	D	M05-1069 ;D-5	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1SM001B	B	24	2	B	MO	C 0	M05-1069 ;D-4	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1SM002A	B	24	2	B	MO	C 0	M05-1069 ;D-5	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1SM002B	B	24	2	B	MO	C 0	M05-1069 ;D-4	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1SM003A	R	0.75x1	2	C		C 0	M05-1069 ;D-5	Bench	5 Year		
1SM003B	R	0.75x1	2	C		C 0	M05-1069 ;D-4	Bench	5 Year		
1SM00B	EFC	0.75	2	A/C		0 C	M05-1069 ;A-3	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 4 2011
1SM009	EFC	0.75	2	A/C		0 C	M05-1069 ;C-3	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 2 2011
1SM010	EFC	0.75	2	A/C		0 C	M05-1069 ;C-3	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 2 2011

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EIN	TYPE	SIZE	CLASS	CATE- GDRY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1SM011	EFC	0.75	2	A/C		0	C	M05-1069 ;B-4	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 4 2011
1SX001A	NC	30	3	C		C	0	M05-1052/1 ;D-7	Exercise	3 Month		
1SX001B	NC	30	3	C		C	0	M05-1052/2 ;D-7	Exercise	3 Month		
1SX001C	NC	10	3	C		C	0	M05-1052/3 ;D-7	Exercise	3 Month		
1SX003A	B	30	3	B	MD	0	0,C	M05-1052/1 ;D-6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1SX003B	B	30	3	B	MD	0	0,C	M05-1052/2 ;D-6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1SX003C	B	10	3	B	MD	0	0,C	M05-1052/3 ;D-6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1SX004A	B	30	3	B	MD	0	0,C	M05-1052/1 ;D-5	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1SX004B	B	30	3	B	MD	0	0,C	M05-1052/2 ;D-5	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		

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EIN	TYPE	SIZE	CLASS	CATE- GOPY	ACTU- ATOR	POSITION NORM	TEST	P&ID CORR	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
15X004C	B	10	3	B	MO	O	O.C	M05-1052/3 ;D-5	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
15X006C	B	8	3	B	MO	C	O	M05-1052/3 ;D-3	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
15X008A	B	20	3	B	MO	C	O	M05-1052/1 ;E-6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
15X008B	B	20	3	B	MO	C	O	M05-1052/2 ;E-6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
15X008C	B	8	3	B	MO	C	O	M05-1052/3 ;D-6	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
15X010A	CV	2	3	B	AO	C	O	M05-1052/1 ;E-3	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
15X010B	CV	2	3	B	AO	C	O	M05-1052/2 ;E-3	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1SX010C	CV	1.5	3	B	AO	C	0	M05-1052/3 ;E-4	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
1SX011A	B	16	3	B	MO	C	0	M05-1052/1 ;D-3	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1SX011B	B	16	3	B	MO	C	0	M05-1052/2 ;E-3	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1SX012A	B	14	3	B	MO	C	0	M05-1052/1 ;C-3	Stroke Time Exercise Position Indication	Cold Shutdown 2021 Cold Shutdown 2 Year	Ref 1 Ref 1	
1SX012B	B	14	3	B	MO	C	0	M05-1052/2 ;C-3	Stroke Time Exercise Position Indication	Cold Shutdown 2021 Cold Shutdown 2 Year	Ref 1 Ref 1	
1SX014A	B	20	3	B	MO	0	C	M05-1052/1 ;F-3	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1SX014B	B	20	3	B	MO	0	C	M05-1052/2 ;F-3	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1SX014C	B	8	3	B	MO	0	C	M05-1052/3 ;E-4	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1SX016A	G	2.5	3	B	MO	C	0	M05-1052/1 ;C-3	Stroke Time Exercise Position Indication	Refueling Refueling 2 Year	2004,2021 2004	
1SX016B	G	2.5	3	B	MO	C	0	M05-1052/2 ;D-3	Stroke Time Exercise Position Indication	Refueling Refueling 2 Year	2004,2021 2004	
1SX017A	B	8	3	B	MO	0	0,C	M05-1052/1 ;B-7	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1SX017B	B	8	3	B	MO	0	0,C	M05-1052/2 ;B-7	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1SX020A	B	12	3	B	MO	0	0,C	M05-1052/1 ;C-4	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1SX020B	B	12	3	B	MO	0	0,C	M05-1052/2 ;C-4	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	CGLD SHUTDOWN JUSTIFICATION
15X023A	CV	2	3	B	AO	C	0	M05-1052/1 ;C-2	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
15X023B	CV	2	3	B	AO	C	0	M05-1052/2 ;C-2	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
15X027A	CV	2	3	B	AO	C	0	M05-1052/4 ;D-6	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
15X027B	CV	2.5	3	B	AO	C	0	M05-1052/4 ;D-2	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
15X027C	CV	2.5	3	B	AO	C	0	M05-1052/4 ;C-2	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
15X029A	CV	1.5	3	B	AO	C	0	M05-1052/4 ;D-6	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
15X029B	CV	1.5	3	B	AO	C	0	M05-1952/4 ;D-2	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1SX029C	CV	1.5	3	B	AO	C	0	M05-1052/4 ;B-2	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
1SX033	CV	2	3	B	AO	C	0	M05-1052/4 ;C-6	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
1SX037	CV	1.5	3	B	AO	C	0	M05-1052/4 ;B-6	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
1SX041A	CV	2	3	B	AO	C	0	M05-1052/3 ;C-2	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
1SX041B	CV	2	3	B	AO	C	0	M05-1052/3 ;B-2	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
1SX062A	B	14	3	B	MO	C	0	M05-1052/1 ;B-4	Stroke Time Exercise Position Indication	Cold Shutdown 2021 Cold Shutdown 2 Year		Ref 1 Ref 1
1SX062B	B	14	3	B	MO	C	0	M05-1052/2 ;B-4	Stroke Time Exercise Position Indication	Cold Shutdown 2021 Cold Shutdown 2 Year		Ref 1 Ref 1

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
15X063A	B	8	3	B	MO	C	0	M05-1052/1 ;C-2	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
15X063B	B	8	3	B	MO	C	0	M05-1052/2 ;C-2	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
15X071A	G	3	3	B	MO	C	0	M05-1052/5 ;F-7	Stroke Time Exercise Position Indication	Refueling Refueling 2 Year	2009,2021 2009	
15X071B	G	3	3	B	MO	C	0	M05-1052/5 ;F-3	Stroke Time Exercise Position Indication	Refueling Refueling 2 Year	2009,2021 2009	
15X072A	NC	3	3	C		C	0	M05-1052/5 ;E-7	Exercise	Refueling	2009	
15X072B	NC	3	3	C		C	0	M05-1052/5 ;E-3	Exercise	Refueling	2009	
15X073A	G	3	3	B	MO	C	0	M05-1052/5 ;F-6	Stroke Time Exercise Position Indication	Refueling Refueling 2 Year	2009,2021 2009	
15X073B	G	3	3	B	MO	C	0	M05-1052/5 ;F-2	Stroke Time Exercise Position Indication	Refueling Refueling 2 Year	2009,2021 2009	

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION	NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1SX074A	G	3	3	B	MO	C	0	0	M05-1052/5 ;E-7	Stroke Time Exercise Position Indication	Refueling Refueling 2 Year	2009,2021 2009	
1SX074B	E	3	3	B	MO	C	0	0	M05-1052/5 ;E-3	Stroke Time Exercise Position Indication	Refueling Refueling 2 Year	2009,2021 2009	
1SX075A	NC	3	3	C		C	0	0	M05-1052/5 ;D-7	Exercise	Refueling	2009	
1SX075B	NC	3	3	C		C	0	0	M05-1052/5 ;D-3	Exercise	Refueling	2009	
1SX076A	G	3	3	B	MO	C	0	0	M05-1052/5 ;D-7	Stroke Time Exercise Position Indication	Refueling Refueling 2 Year	2009,2021 2009	
1SX076B	G	3	3	B	MO	C	0	0	M05-1052/5 ;D-3	Stroke Time Exercise Position Indication	Refueling Refueling 2 Year	2009,2021 2009	
1SX082A	G	3	3	B	MO	0	0,C	0	M05-1052/1 ;D-1	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
1SX082B	G	3	3	B	MO	0	0,C	0	M05-1052/2 ;D-1	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1SX088A	G	3	2	A	MO	0	C	M05-1052/5 ;C-B	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 2 Year	2011	
1SX088B	G	3	2	A	MO	0	C	M05-1052/5 ;C-4	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 2 Year	2011	
1SX089A	G	3	2	A	MO	0	C	M05-1052/5 ;C-7	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 2 Year	2011	
1SX089B	G	3	2	A	MO	0	C	M05-1052/5 ;C-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 2 Year	2011	
1SX096A	G	3	2	A	MO	0	C	M05-1052/5 ;C-5	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 2 Year	2011	
1SX096B	G	3	2	A	MO	0	C	M05-1052/5 ;C-2	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 2 Year	2011	

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
15X097A	G	3	2	A	MO	D	C	M05-1052/5 ;C-5	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 2 Year		2011
15X097B	G	3	2	A	MO	D	C	M05-1052/5 ;C-1	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 2 Year		2011
15X105A	G	3	3	B	MO	C	D	M05-1052/5 ;D-7	Stroke Time Exercise Position Indication	Refueling Refueling 2 Year		2009,2021 2009
15X105B	G	3	3	B	MO	C	D	M05-1052/5 ;D-3	Stroke Time Exercise Position Indication	Refueling Refueling 2 Year		2009,2021 2009
15X106A	C	3	3	C		C	D	M05-1052/5 ;D-7	Exercise	Refueling		2009
15X106B	C	3	3	C		C	D	M05-1052/5 ;D-3	Exercise	Refueling		2009
15X107A	G	3	3	B	MO	C	D	M05-1052/5 ;D-7	Stroke Time Exercise Position Indication	Refueling Refueling 2 Year		2009,2021 2009
15X107B	G	3	3	B	MO	C	D	M05-1052/5 ;D-3	Stroke Time Exercise Position Indication	Refueling Refueling 2 Year		2009,2021 2009

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EIN	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	POSITION	NORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1SX149	R	0.75x1	3	C	C	C	0	M05-1052/4 ;C-5	Bench	5 Year		
1SX150	R	0.75x1	3	C	C	C	0	M05-1052/4 ;B-6	Bench	5 Year		
1SX151A	R	0.75x1	3	C	C	C	0	M05-1052/4 ;E-5	Bench	5 Year		
1SX151B	R	0.75x1	3	C	C	C	0	M05-1052/4 ;E-2	Bench	5 Year		
1SX151C	R	0.75x1	3	C	C	C	0	M05-1052/4 ;C-2	Bench	5 Year		
1SX152A	R	0.75x1	3	C	C	C	0	M05-1052/1 ;C-3	Bench	5 Year		
1SX152B	R	0.75x1	3	C	C	C	0	M05-1052/2 ;C-2	Bench	5 Year		
1SX153A	R	0.75x1	3	C	C	C	0	M05-1052/1 ;B-6	Bench	5 Year		
1SX153B	R	0.75x1	3	C	C	C	0	M05-1052/2 ;B-6	Bench	5 Year		
1SX154A	R	0.75x1	3	C	C	C	0	M05-1052/4 ;E-5	Bench	5 Year		
1SX154B	R	0.75x1	3	C	C	C	0	M05-1052/4 ;E-2	Bench	5 Year		
1SX154C	R	0.75x1	3	C	C	C	0	M05-1052/3 ;C-2	Bench	5 Year		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1SX155A	R	0.75x1	3	C		C	0	M05-1052/1 ;E-4	Bench	5 Year		
1SX155B	R	0.75x1	3	C		C	0	M05-1052/2 ;F-3	Bench	5 Year		
1SX155C	R	0.75x1	3	C		C	0	M05-1052/3 ;D-4	Bench	5 Year		
1SX156A	R	0.75x1	3	C		C	0	M05-1052/3 ;C-2	Bench	5 Year		
1SX156B	R	0.75x1	3	C		C	0	M05-1052/3 ;B-2	Bench	5 Year		
1SX157A	R	0.75x1	3	C		C	0	M05-1052/5 ;C-6	Bench	5 Year		
1SX157B	R	0.75x1	3	C		C	0	M05-1052/5 ;C-2	Bench	5 Year		
1SX169A	R	0.75x1	3	C		C	0	M05-1052/1 ;C-3	Bench	5 Year		
1SX169B	R	0.75x1	3	C		C	0	M05-1052/2 ;C-3	Bench	5 Year		
1SX169C	R	0.75x1	3	C		C	0	M05-1052/3 ;D-2	Bench	5 Year		
1SX170A	R	0.75x1	3	C		C	0	M05-1052/1 ;B-3	Bench	5 Year		
1SX170B	R	0.75x1	3	C		C	0	M05-1052/2 ;B-3	Bench	5 Year		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
15X173A	G	10	3	B	MO	C	O	M05-1052/1 ;D-2	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
15X173B	G	10	3	B	MO	C	O	M05-1052/2 ;D-2	Stroke Time Exercise Position Indication	3 Month 3 Month 2 Year		
15X181A	CV	2.5	3	B	AO	C	O	M05-1052/1 ;F-1	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
15X181B	CV	2.5	3	B	AO	C	O	M05-1052/2 ;F-1	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
15X185A	CV	2.5	3	B	AO	C	O	M05-1052/1 ;E-1	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
15X185B	CV	2.5	3	B	AO	C	O	M05-1052/2 ;E-1	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
15X189	CV	2.5	3	B	AO	C	O	M05-1052/2 ;B-4	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
15X193A	CV	1.5	3	B	AO	C	0	M05-1052/1 ;B-7	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
15X193B	CV	1.5	3	B	AO	C	0	M05-1052/2 ;B-4	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
15X197	CV	2	3	B	AO	C	0	M05-1052/1 ;B-4	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
15X200A	R	0.75x1	3	C		C	0	M05-1052/1 ;F-1	Bench	5 Year		
15X200B	R	0.75x1	3	C		C	0	M05-1052/1 ;F-1	Bench	5 Year		
15X201A	R	0.75x1	3	C		C	0	M05-1052/1 ;E-1	Bench	5 Year		
15X201B	R	0.75x1	3	C		C	0	M05-1052/2 ;E-1	Bench	5 Year		
15X202A	R	0.75x1	3	C		C	0	M05-1052/2 ;A-7	Bench	5 Year		
15X202B	R	0.75x1	3	C		C	0	M05-1052/2 ;C-4	Bench	5 Year		
15X203	R	0.75x1	3	C		C	0	M05-1052/2 ;B-4	Bench	5 Year		

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
15X204	R	0.75x1	3	C		C	D	M05-1052/1 ;B-5	Bench	5 Year		
15X207	R	0.75x1	3	C		C	D	M05-1052/2 ;B-2	Bench	5 Year		
15X208A	R	4x6	3	C		C	D	M05-1052/1 ;D-1	Bench	5 Year		
15X208B	R	4x6	3	C		C	D	M05-1052/2 ;D-1	Bench	5 Year		
15X209	CV	1.5	3	B	AD	C	D	M05-1052/2 ;A-1	Stroke Time Exercise Loss of Power	3 Month 3 Month 3 Month		
15X294	R	0.75x1	3	C		C	D	M05-1052/1 ;D-7	Bench	5 Year		
1V6056B	EFC	0.75	2	A/C		D	C	M10-1105/4 ;	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 2 2011
1V6057B	EFC	0.75	2	A/C		D	C	M10-1105/10;	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 2 2011
1VP004A	G	10	2	A	MO	D	C	M05-1109/2 ;D-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month		2011

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1VP004B	G	10	2	A	MO	0	C	M05-1109/3 ;D-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1VP005A	G	10	2	A	MO	0	C	M05-1109/2 ;D-2	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1VP005B	G	10	2	A	MO	0	C	M05-1109/3 ;D-2	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1VP014A	G	10	2	A	MO	0	C	M05-1109/2 ;E-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1VP014B	G	10	2	A	MO	0	C	M05-1109/3 ;E-3	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1VP015A	G	10	2	A	MO	0	C	M05-1109/2 ;E-2	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1VP015B	G	10	2	A	MO	0	C	M05-1109/3 ;E-2	Stroke Time Exercise Leak Rate Position Indication	3 Month 3 Month 2 Year 18 Month	2011	
1VP023A	R	0.75x1	2	A/C		C	0	M05-1109/2 ;D-3	Leak Rate Bench	2 Year 5 Year	2011	
1VP023B	R	0.75x1	2	A/C		C	0	M05-1109/3 ;D-3	Leak Rate Bench	2 Year 5 Year	2011	
1VP027A	R	0.75x1	2	A/C		C	0	M05-1109/2 ;F-3	Leak Rate Bench	2 Year 5 Year	2011	
1VP027B	R	0.75x1	2	A/C		C	0	M05-1109/3 ;F-3	Leak Rate Bench	2 Year 5 Year	2011	
1VQ001A	B	24	2	A	AD	C	0,C	M05-1110/2 ;C-8	Stroke Time**** Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling	2027	
1VQ001B	B	24	2	A	AD	C	0,C	M05-1110/2 ;C-7	Stroke Time**** Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling	2027	

**** Full stroke is 50 degrees--permanent stop installed per design.

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EIN	TYPE	SIZE	CLASS	ACTU- GORY	POSITION NORM TEST	PAID COORD	REQUIRED TESTS	FREQUENCY	RELIEF COLD SHUTDOWN REQUEST JUSTIFICATION
1V0002	B	24	2	A	C	O,C M05-1110/2 ;C-6	Stroke Time**** Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling	2027
1V0003	B	36	2	A	C	O,C M05-1110/2 ;C-5	Stroke Time**** Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year Refueling	2027
1V0004A	B	36	2	A	C	O,C M05-1110/2 ;D-4	Stroke Time**** Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2011
1V0004B	B	36	2	A	C	O,C M05-1110/2 ;D-5	Stroke Time**** Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2011
1V0005	B	10	2	A	C	O,C M05-1110/2 ;D-6	Stroke Time Exercise Loss of Power Position Indication Leak Rate	3 Month 3 Month 3 Month 2 Year 18 Month	2027

**** Full stroke is 50 degrees--permanent stop installed per design.

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EIN	TYPE	SIZE	CLASS	ACTU- 60RY	POSITION ATORM TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1VQ006A	GL	4	2	A-P	C	O,C M05-1110/2 ;C-4	Leak Rate Position Indication	2 Year 18 Month	2011	
1VQ006B	GL	4	2	A-P	C	O,C M05-1110/2 ;C-4	Leak Rate Position Indication	2 Year 18 Month	2011	
1VR001A	B	36	2	A	A0 C	O,C M05-1111/1 ;E-2	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2011	
1VR001B	B	36	2	A	A0 C	O,C M05-1111/1 ;E-1	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2011	
1VR002A	GL	4	2	A-P	C	O,C M05-1111/1 ;E-2	Leak Rate Position Indication	2 Year 18 Month	2011	
1VR002B	GL	4	2	A-P	C	J,C M05-1111/1 ;E-1	Leak Rate Position Indication	2 Year 18 Month	2011	
1VR006A	B	12	2	A	A0 0	C M05-1111/5 ;E-3	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2011	

* Passive valve

*** Full stroke is 50 degrees--permanently installed per design.

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	F&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1VR006B	B	12	2	A	AD	0	C	M05-1111/5 ;E-2	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2011	
1VR007A	B	12	2	A	AD	0	C	M05-1111/5 ;B-7	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2011	
1VR007B	B	12	2	A	AD	0	C	M05-1111/5 ;B-7	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2011	
1VR016A	EFC	0.75	2	A/C		0	C	M10-1111/5 ;	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 2
1VR016B	EFC	0.75	2	A/C		0	C	M10-1111/5 ;	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year	2011	Ref 2
1VR018A	EFC	0.75	2	A/C		0	C	M10-1111/5 ;	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year	2011	Ref 2

■ Passive valve

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EIN	TYPE	SIZE	CLASS	DATE- GDRY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1VR018B	EFC	0.75	2	A/C		0	C	M10-1111/5 ;	Exercise Position Indication Leak Rate	Cold Shutdown 2 Year 2 Year		Ref 2 2011
1VR035	2WAY	0.75	2	A	SO	0	C	M10-1111/19;	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month		2013 2011
1VR036	2WAY	0.75	2	A	SO	0	C	M10-1111/19;	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month		2013 2011
1VR040	2WAY	0.75	2	A	SO	0	C	M10-1111/19;	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month		2013 2011
1VR041	2WAY	0.75	2	A	SO	0	C	M10-1111/19;	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month		2013 2011
1WD001A	G	6	2	A	MO	0	C	M05-1117/19;E-5	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown Cold Shutdown 2 Year 18 Month	2021	Ref 1 Ref 1 2011

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EIN	TYPE	SIZE	CLASS	CATE- GDRY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	RELIEF FREQUENCY	COLD SHUTDOWN REQUEST JUSTIFICATION
1W0001B	G	6	2	A	MO	0	C	M05-1117/19;E-6	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown 2021 Cold Shutdown 2 Year 2011 18 Month	Ref 1 Ref 1
1W0002A	G	6	2	A	MO	0	C	M05-1117/19;F-5	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown 2021 Cold Shutdown 2 Year 2011 18 Month	Ref 1 Ref 1
1W0002B	G	6	2	A	MO	0	C	M05-1117/19;F-6	Stroke Time Exercise Leak Rate Position Indication	Cold Shutdown 2021 Cold Shutdown 2 Year 2011 18 Month	Ref 1 Ref 1
1W0551A	G	4	2	A	MO	0	C	M05-1117/26;E-7	Stroke Time Exercise Position Indication Leak Rate	Cold Shutdown 2021 Cold Shutdown 2 Year Refueling 2027	Ref 1 Ref 1
1W0551B	G	4	2	A	MO	0	C	M05-1117/26;E-7	Stroke Time Exercise Position Indication Leak Rate	Cold Shutdown 2021 Cold Shutdown 2 Year Refueling 2027	Ref 1 Ref 1
1W0552A	G	4	2	A	MO	0	C	M05-1117/26;D-7	Stroke Time Exercise Position Indication Leak Rate	Cold Shutdown 2021 Cold Shutdown 2 Year Refueling 2027	Ref 1 Ref 1

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EIN	TYPE	SIZE	CLASS	CATE- GORY	ACTU- ATOR	POSITION NORM	TEST	P&ID COORD	REQUIRED TESTS	FREQUENCY	RELIEF REQUEST	COLD SHUTDOWN JUSTIFICATION
1W0552B	G	4	2	A	MO	O	C	M05-1117/26;D-7	Stroke Time Exercise Position Indication Leak Rate	Cold Shutdown 2021 Cold Shutdown 2 Year Refueling	2027	Ref 1 Ref 1
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	C	M05-1089/2 ;F-6	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2011	
1WX020	P	2	2	A	AO	O,C	C	M05-1089/2 ;F-5	Stroke Time Exercise Loss of Power Leak Rate Position Indication	3 Month 3 Month 3 Month 2 Year 18 Month	2011	

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