

Clinton Power Station
Preservice Inspection
Program

February, 1985

- 0 -

8503070225 850304
PDR ADOCK 05000461
Q PDR

Table Of Contents

- 1.0 Introduction
- 2.0 Non-Destructive Examinations and Visual Inspections
- 3.0 Preservice Testing of Valves
- 4.0 Preservice Testing of Pumps
- 5.0 Augmented Requirements

FOR INFORMATION ONLY #5

1.0 Introduction

Preservice Inspection (PSI) at Clinton Power Station (CPS) will be performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code (hereafter referred to as the Code). The specific editions and addenda utilized for the various examinations and tests included in this program are listed in Table 1-1.

In addition to the requirements of Section XI, augmented examinations and tests are imposed by the enforcement and regulatory agencies having jurisdiction at CPS. These requirements are identified in Section 4.0. The PSI program is composed of the following examinations and tests:

- a) Non-destructive examination (NDE) and visual inspection of:
 - 1) Pressure vessels
 - 2) Piping
 - 3) Pumps
 - 4) Valves
 - 5) Bolting
 - 6) Component supports
- b) Valve and pump testing
- c) Augmented PSI requirements

Table 1-1

Code Editions And Addenda

Edition &
Addenda

1974 Ed
S1975 Ad

Extent of Use

- 1) Exemption criteria for Class 1 and 2 components and their supports
- 2) NDE methods and acceptance criteria for Class 1 and 2 pressure vessels, pumps and valves.
- 3) NDE acceptance criteria for Class 1 bolting
- 4) Valve testing

1977 Ed
S1978 Ad

- 1) NDE methods and acceptance criteria for Class 1 and 2 piping.
- 2) NDE methods for Class 1 bolting
- 3) Visual inspection of Class 1, 2 and 3 component supports
- 4) Visual inspection of Class 1 and 2 bolting
- 5) Pump testing

2.0 Non-Destructive Examinations and Visual Inspections

In accordance with the Code, the following items shall receive NDE and visual inspection.

- 1) Class 1 and 2 piping
- 2) Class 1 and 2 pumps
- 3) Class 1 valves
- 4) Class 1, 2 and 3 component supports
- 5) Class 1 and 2 pressure vessels
- 6) Class 1 and 2 bolting

2.1 NDE of Piping

Southwest Research Institute (SwRI) has been contracted to perform baseline examinations of piping welds in accordance with the requirements of Section XI, Article IWA, IWB and IWC. The examination plan for Class 1 and 2 piping is defined in Section 2.7, SwRI Exam Plan.

2.2 NDE and Visual Inspection of Valves

There are no Class 1 or 2 valves at CPS that have welded bodies that require volumetric examination. All Class 1 and 2 valves at CPS are either forged or cast.

There are sixty (60) Class 1 valves that require visual inspection (VT-1) of the valve internals to meet the requirements of ASME Section XI, IWB-2500, Examination Category B-M-2. A listing of these valves is included in Table 2-2. The manufacturer's final visual inspection of the valve internals shall be used to meet these requirements.

2.3 NDE and Visual Inspection of Pumps

The Reactor Recirculation pumps are the only Class 1 pumps at CPS that require volumetric or surface examination of integrally welded attachments to meet the requirements of ASME Section XI, IWV-2500, Examination Category B-K-1. The manufacturer's volumetric and surface examinations shall be used to meet this requirement.

The Reactor Recirculation pump also requires a visual inspection (VT-1) of the pump casing internals to meet the requirements of ASME Section IX, IWB-2500 Examination Category B--2. The manufacturer's final visual inspection shall be used to meet this requirement.

Clinton Power Station Preservice Inspection Program

Table 2-2

SECTION XI EXEMPTION APPLICATION

APPLICATION	CODE AND ADDENDA	PARAGRAPH-DESCRIPTION	Exemption Criteria Applied	
			YES	NO
Class 1 Code Exemption	1974 Code through Summer 1985 Addenda	IWB-1220(a) Components may be exempted from volumetric and surface examination if they are located beyond any of the following:		
		1. The outermost containment isolation valve in system piping that penetrates primary reactor containment		X
		2. The second of two valves normally closed during normal reactor operation in system piping that does not penetrate primary reactor containment.		X
		3. The reactor coolant safety and relief valves.		X
		4. The outermost containment isolation valve in the main steam and feedwater piping.		X
		IWB-1220(b): Components may be exempted from examination if any of the following conditions are met:		
		1. Under the postulated conditions of loss of coolant from the component during normal reactor operation, the reactor can be shutdown and cooled down in an orderly manner assuming makeup is provided by the reactor coolant makeup system only. However, in no instance may be the size exemption by more than three (3) inch nominal pipe size.	X	
		2. The component is or can be isolated from the reactor coolant system by two valves (both closed, both open, or one closed and the other open). Each open valve must be capable of automatic actuation and assuming the other valve is open, its closure time must be such that, under the postulated condition of loss of coolant from the component during normal reactor operation, each valve remains operable and reactor can be shut down and cooled down in an orderly manner, assuming makeup is provided by the reactor coolant makeup system only.		X

Clinton Power Station Preservice Inspection Program
Table 2-2
SECTION XI EXEMPTION APPLICATION

APPLICATION	CODE AND ADDENDA	PARAGRAPH-DESCRIPTION	Exemption Criteria Applied	
			YES	NO
Class 1 Code Exemption	1974 Code through Summer 1975 Addenda	3. Component connections, piping, and associated valves (and their supports) are one (1) inch nominal pipe size and smaller.	X	
Class 2 Code Exemption	1974 Code through Summer 1975 Addenda	IWC-1220 The following components may be exempted from the examination requirements of IWC-2520:		
		a) Components in systems where both the design pressure and temperature are equal to or less than 275 psig and 200F, respectively.	X	
		b) Components in systems or portions of systems, other than emergency core cooling systems, which do not function during normal reactor operation.	X	
		c) Components which perform an emergency core cooling function, provided the control of the chemistry of the contained fluid is verified by periodic sampling and test.		X
		d) Component connections, piping, and associated valves, and vessels (and their supports), that are four (4) inch nominal pipe size and smaller.	X	

2.3 (Cont'd)

No Class 1 pumps have welded casings.

There are six (6) Class 2 pumps that require surface examination to meet the requirements of ASME Section IX, IWC-2500, Examination Category C-G. A listing of these pumps is included in Table 2-3. The manufacturer's surface examination shall be used to meet this requirement.

2.4 Visual Inspection of Component Supports

SwRI shall perform the visual inspections of the following safety-related component supports in accordance with ASME Section XI:

- 1) Class 1 component supports attached to components greater than 1 inch nominal pipe size.
- 2) Class 2 component supports attached to components greater than 4 inches nominal pipe size.
- 3) Class 3 component supports attached to components greater than 4 inches nominal pipe size.

These examinations are described in Section 2.7 SwRI Exam Plan.

2.5 NDE and Visual Inspection of Bolting

Bolting exceeding 2 inches in diameter, associated with Class 1 components shall be inspected in accordance with Article IWB-2500, Examination Category B-G-1. NDE examinations shall be performed in accordance with the 1974 Edition, Summer 1975 Addenda of the Code. The NDE methods to be used shall be determined by the 1977 Edition, Summer 1978 Addenda of the Code. Class 1 components with bolting exceeding 2 inches in diameter are listed in Table 2-4. SwRI shall perform the necessary examinations. SwRI shall also perform the visual inspections of Class 1 and 2 bolting which is 2 inches or less in diameter. These examinations are described in Section 2.7, SwRI Exam Plan.

2.6 NDE and Visual Inspection of Bolting

The only Class 1 vessel requiring PSI is the Reactor Pressure Vessel (RPV). The required NDE shall be performed by SwRI using a mechanized examination system they developed and manual examinations. These examinations are described in Section 2.7, SwRI Exam Plan.

Clinton Power Station Preservice Inspection Program

TABLE 2-2

VALVES REQUIRING VISUAL INSPECTION OF INTERNALS

1B21-F010A,B	1E51-F013
1B21-F011A,B	1E51-F063
1B21-F022A-D	1E51-F064
1B21-F028A-D	
1B21-F032A,B	
1B21-F041A-D,F,G,L	1G33-F001
1B21-F047A-D,F	1G33-F004
1B21-F051B-D,G	1G33-F102

1B33-F023A,B
1B33-F060A,B
1B33-F067A,B

1E12-F008
1E12-F009
1E12-F010
1E12-F039A-C
1E12-F041A-C
1E12-F042A-C

1E21-F005
1E21-F006
1E21-F007

1E22-F004
1E22-F005
1E22-F036

Clinton Power Station Preservice Inspection Program

TABLE 2-3

PUMPS REQUIRING NDE OF CASING WELDS

RHR 1A, 1B, 1C

HPCS

LPCS

RCIC

Clinton Power Station Preservice Inspection Program

TABLE 2-4

COMPONENTS WITH BOLTING REQUIRING NDE

CLASS 1

RPV

RR pump

2.6 (Cont'd)

The only Class 2 vessels requiring PSI are the Residual Heat Removal heat exchangers. SwRI shall perform the volumetric examinations required by ASME Section XI, IWC-2600, Examination Categories C-A and C-B.

2.7 SwRI Exam Plan (See Attachment 1)

SwRI has developed an Exam Plan in accordance with the appropriate requirements of Section XI for the PSI of CPS Unit 1. Included in the Exam Plan are the following topics:

2.7.1 Table of components which list:

- 2.7.1.1 Section XI Item Number
- 2.7.1.2 Section XI Category Number
- 2.7.1.3 Component, Area, Or Weld To Be Examined
- 2.7.1.4 Method of Examination
- 2.7.1.5 SwRI Procedure To Be Followed
- 2.7.1.6 SwRI Summary Sheet Number
- 2.7.1.7 Remarks

2.7.2 Weld Identification Figures

2.7.3 SwRI Operating Procedures

2.7.4 NDE Procedures

2.7.5 Sketches of Ultrasonic Calibration Blocks

The examinations of some components have not yet been determined due to a lack of sufficient information.

3.0 PRESERVICE TESTING OF VALVES

3.1 In accordance with ASME Section XI, Article IWV, ASME Code Class 1, 2, and 3 valves were categorized as being Category A, B, C, D, E, or exempt according to their function. A table listing the Category A, B, C, D, and E valves and their methods of testing is found in Table 3.3-1.

3.2 Since it is not always possible to meet the requirements of Article IWV, relief has been requested for some valves. These relief request are in Table 3.3-1.

4.0 PRESERVICE TESTING OF PUMPS

All code class 1, 2 & 3 pumps, provided with an emergency power source whose function is to safely shutdown the reactor or to mitigate the consequences of an accident, will be tested for operational readiness throughout their service life in accordance with Subsection IWP of Section XI of the Code.

Table 4-1 indicates the pumps subject to periodic testing, their respective P&ID location, the parameters to be tested and the legend and notes associated with 4-1.

Also listed in this section are requests for relief from some of the requirements of Article IWP.

TABLE 3.3-1

VALVES REQUIRING PSI TESTING

METHOD OF TESTING

1. Valve shall be exercised to the position required to fulfill its function.
2. The stroke time of the valve shall be measured.
3. Valve seat leakage tests.
4. Twenty percent of explosive charges shall be removed, fired and replaced every 2 years.
5. Bench testing with suitable hydraulic or pneumatic equipment.
6. Verify and record valve position before performing an operation and after completing an operation.
7. Loss of power test.

N/A - Not applicable.

NOTE 1 -- Testing may be done by outside contractor.

NOTE 2 -- Due to design change, sufficient information is not available.

TABLE 3.3-1 (Cont'd)
TABLE REQUIRING PSI TESTING
LEGEND

ACTUATOR

MO - Motor Operated
AO - Air Operated
M - Manual Operated
MG - Manual Gear Operated
HO - Hydraulic Operated
SO - Solenoid Operated

NORMAL POSITION/TEST POSITION

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

TYPE

G - Gate Valve
GL - Globe Valve
C - Check Valve
CV - Control Valve
R - Relief Valve
NC - Non-slam Check Valve
B - Butterfly
VR - Vacuum Relief Valve
SR - Safety Relief Valve
P - Plug Valve
EX - Explosive Valve
GSC - Globe Stop Check Valve
EFC - Excess Flow Check Valve
FCV - Flow Control Valve

SYSTEM Main Steam (B21)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F010A	NC	18	1	A/C	N/A	0	C	M05-1004 C-7	1,3	See Relief Request 001
F010B	NC	18	1	A/C	N/A	0	C	M05-1004 A-7	1,3	See Relief Request 001
F016	G	3	1	A	MO	0	C	M05-1002/1 B-2	1,2,3	
F019	G	3	1	A	MO	0	C	M05-1002/1 B-6	1,2,3	
F022A	GL	24	1	A	AO	0	C	M05-1002/1 C-1	1,2,3	
F022B	GL	24	1	A	AO	0	C	M05-1002/1 F-2	1,2,3	
F022C	GL	24	1	A	AO	0	C	M05-1002/1 A-2	1,2,3	
F022D	GL	24	1	A	AO	0	C	M05-1002/1 D-2	1,2,3	
F024A	C	1/2	3	C	N/A	0	C	M10-1002/5	1	See Relief Request 015
F024B	C	1/2	3	C	N/A	0	C	M10-1002/5	1	See Relief Request 015
F024C	C	1/2	3	C	N/A	0	C	M10-1002/5	1	See Relief Request 015
F024D	C	1/2	3	C	N/A	0	C	M10-1002/5	1	See Relief Request 015
F028A	GL	24	1	A	AO	0	C	M05-1002/2 C-5	1,2,3	
F028B	GL	24	1	A	AO	0	C	M05-1002/2 E-5	1,2,3	
F028C	GL	24	1	A	AO	0	C	M05-1002/2 B-5	1,2,3	
F028D	GL	24	1	A	AO	0	C	M05-1002/2 E-5	1,2,3	
F029A	C	1/2	3	C	N/A	0	C	M10-1002/5	1	See Relief Request 015
F029B	C	1/2	3	C	N/A	0	C	M10-1002/5	1	See Relief Request 015
F029C	C	1/2	3	C	N/A	0	C	M10-1002/5	1	See Relief Request 015
F029D	C	1/2	3	C	N/A	0	C	M10-1002/5	1	See Relief Request 015

SYSTEM Main Steam (B21)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F032A	NC	20	1	A/C	AO	0	C	M05-1004 C-6	1,3	See Relief Request 001
F032B	NC	20	1	A/C	AO	0	C	M05-1004 A-6	1,3	See Relief Request 001
F036A	C	1/2	3	C	N/A	0	C	M10-1002/2	1	See Relief Request 016
F036F	C	1/2	3	C	N/A	0	C	M10-1002/2	1	See Relief Request 016
F036G	C	1/2	3	C	N/A	0	C	M10-1002/2	1	See Relief Request 016
F036J	C	1/2	3	C	N/A	0	C	M10-1002/2	1	See Relief Request 016
F036L	C	1/2	3	C	N/A	0	C	M10-1002/2	1	See Relief Request 016
F036M	C	1/2	3	C	N/A	0	C	M10-1002/2	1	See Relief Request 016
F036N	C	1/2	3	C	N/A	0	C	M10-1002/2	1	See Relief Request 016
F036P	C	1/2	3	C	N/A	0	C	M10-1002/2	1	See Relief Request 016
F036R	C	1/2	3	C	N/A	0	C	M10-1002/2	1	See Relief Request 016
F037A	VR	10	3	C	N/A	C	0	M05-1002/1 C-6	1	See Relief Request 003
F037B	VR	10	3	C	N/A	C	0	M05-1002/1 E-6	1	See Relief Request 003
F037C	VR	10	3	C	N/A	C	0	M05-1002/1 A-7	1	See Relief Request 003
F037D	VR	10	3	C	N/A	C	0	M05-1002/1 D-7	1	See Relief Request 003
F037E	VR	10	3	C	N/A	C	0	M05-1002/1 E-4	1	See Relief Request 003
F037F	VR	10	3	C	N/A	C	0	M05-1002/1 A-5	1	See Relief Request 003
F037G	VR	10	3	C	N/A	C	0	M05-1002/1 A-4	1	See Relief Request 003
F037H	VR	10	3	C	N/A	C	0	M05-1002/1 C-5	1	See Relief Request 003

SYSTEM Main Steam (B21)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F037J	VR	10	3	C	N/A	C	0	M05-1002/1 E-7	1	See Relief Request 003
F037K	VR	10	3	C	N/A	C	0	M05-1002/1 A-5	1	See Relief Request 003
F037L	VR	10	3	C	N/A	C	0	M05-1002/1 D-6	1	See Relief Request 003
F037M	VR	10	3	C	N/A	C	0	M05-1002/1 E-3	1	See Relief Request 003
F037N	VR	10	3	C	N/A	C	0	M05-1002/1 E-5	1	See Relief Request 003
F037P	VR	10	3	C	N/A	C	0	M05-1002/1 D-5	1	See Relief Request 003
F037R	VR	10	3	C	N/A	C	0	M05-1002/1 D-5	1	See Relief Request 003
F037S	VR	10	3	C	N/A	C	0	M05-1002/1 A-3	1	See Relief Request 003
F039B	C	1/2	3	C	N/A	C	C	M10-1002/1	1	See Relief Request 016
F039C	C	1/2	3	C	N/A	C	C	M10-1002/1	1	See Relief Request 016
F039D	C	1/2	3	C	N/A	C	C	M10-1002/1	1	See Relief Request 016
F039E	C	1/2	3	C	N/A	C	C	M10-1002/1	1	See Relief Request 016
F039H	C	1/2	3	C	N/A	C	C	M10-1002/1	1	See Relief Request 016
F039K	C	1/2	3	C	N/A	C	C	M10-1002/1	1	See Relief Request 016
F039S	C	1/2	3	C	N/A	C	C	M10-1002/1	1	See Relief Request 016
F040	VR	2	3	C	N/A	C	0	M05-1071/1 D-3	1	See Relief Request 003
F041A	SR	8 X 10	1	C	AO	C	0	M05-1002/1 C-7	5	See NOTE 1
F041B	SR	8 X 10	1	C	AO	C	0	M05-1002/1 F-7	5	See NOTE 1
F041C	SR	8 X 10	1	C	AO	C	0	M05-1002/1 B-8	5	See NOTE 1

SYSTEM Main Steam (B21)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F041D	SR	8 X 10	1	C	AO	C	0	M05-1002/1 D-8	5	See NOTE 1
F041F	SR	8 X 10	1	C	AO	C	0	M05-1002/1 F-5	5	See NOTE 1
F041G	SR	8 X 10	1	C	AO	C	0	M05-1002/1 B-6	5	See NOTE 1
F041L	SR	8 X 10	1	C	AO	C	0	M05-1002/1 B-4	5	See NOTE 1
F047A	SR	8 X 10	1	C	AO	C	0	M05-1002/1 C-6	5	See NOTE 1
F047B	SR	8 X 10	1	C	AO	C	0	M05-1002/1 F-8	5	See NOTE 1
F047C	SR	8 X 10	1	C	AO	C	0	M05-1002/1 B-5	5	See NOTE 1
F047D	SR	8 X 10	1	C	AO	C	0	M05-1002/1 D-7	5	See NOTE 1
F047F	SR	8 X 10	1	C	AO	C	0	M05-1002/1 F-4	5	See NOTE 1
F051B	SR	8 X 10	1	C	AO	C	0	M05-1002/1 F-6	5	See NOTE 1
F051C	SR	8 X 10	1	C	AO	C	0	M05-1002/1 B-7	5	See NOTE 1
F051D	SR	8 X 10	1	C	AO	C	0	M05-1002/1 D-6	5	See NOTE 1
F051G	SR	8 X 10	1	C	AO	C	0	M05-1002/1 B-4	5	See NOTE 1
F065A	G	20	2	B	MO	C	0	M05-1004 C-5	1,2	See Relief Request 004
F065B	G	20	2	B	MO	C	0	M05-1004 A-5	1,2	See Relief Request 004
F067A	GL	1½	1	A	MO	O/C	C	M05-1002/1 C-6	1,2,3	
F067B	GL	1½	1	A	MO	O/C	C	M05-1002/1 E-6	1,2,3	
F067C	GL	1½	1	A	MO	O/C	C	M05-1002/1 A-6	1,2,3	
F067D	GL	1½	1	A	MO	O/C	C	M05-1002/1 D-6	1,2,3	

SYSTEM Main Steam (B21)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F068	GL	2	2	B	MO	C	C	M05-1002/2 D-4	1,2	
F069	CV	1	2	B	AO	C	O/C	M05-1002/2 D-4	1,2,7	
F078A	VR	10	3	C	N/A	C	O	M05-1002/1 C-6	1	See Relief Request 003
F078B	VR	10	3	C	N/A	C	O	M05-1002/1 E-6	1	See Relief Request 003
F078C	VR	10	3	C	N/A	C	O	M05-1002/1 A-7	1	See Relief Request 003
F078D	VR	10	3	C	N/A	C	O	M05-1002/1 D-7	1	See Relief Request 003
F078E	VR	10	3	C	N/A	C	O	M05-1002/1 E-4	1	See Relief Request 003
F078F	VR	10	3	C	N/A	C	O	M05-1002/1 A-5	1	See Relief Request 003
F078G	VR	10	3	C	N/A	C	O	M05-1002/1 A-4	1	See Relief Request 003
F078H	VR	10	3	C	N/A	C	O	M05-1002/1 C-5	1	See Relief Request 003
F078J	VR	10	3	C	N/A	C	O	M05-1002/1 E-7	1	See Relief Request 003
F078K	VR	10	3	C	N/A	C	O	M05-1002/1 A-5	1	See Relief Request 003
F078L	VR	10	3	C	N/A	C	O	M05-1002/1 D-6	1	See Relief Request 003
F078M	VR	10	3	C	N/A	C	O	M05-1002/1 E-3	1	See Relief Request 003
F078N	VR	10	3	C	N/A	C	O	M05-1002/1 E-5	1	See Relief Request 003
F078P	VR	10	3	C	N/A	C	O	M05-1002/1 A-6	1	See Relief Request 003
F078R	VR	10	3	C	N/A	C	O	M05-1002/1 D-5	1	See Relief Request 003
F078S	VR	10	3	C	N/A	C	O	M05-1002/1 A-3	1	See Relief Request 003
F098A	G	24	2	B	MO	O	C	M05-1002/2 C-3	1,2	See Relief Request 005
F098B	G	24	2	B	MO	O	C	M05-1002/2 F-3	1,2	See Relief Request 005

SYSTEM Main Steam (B21)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F098C	G	24	2	B	MO	O	C	M05-1002/2 B-3	1,2	See Relief Request 005
F098D	G	24	2	B	MO	O	C	M05-1002/2 E-3	1,2	See Relief Request 005
F379A	VR	2	3	C	N/A	C	O	M05-1002/1 F-7	1	See Relief Request 003
F379B	VR	2	3	C	N/A	C	O	M05-1002/1 F-6	1	See Relief Request 003
F379C	VR	2	3	C	N/A	C	O	M05-1002/1 F-5	1	See Relief Request 003
F379D	VR	2	3	C	N/A	C	O	M05-1002/1 F-4	1	See Relief Request 003
F379E	VR	2	3	C	N/A	C	O	M05-1002/1 F-3	1	See Relief Request 003
F379F	VR	2	3	C	N/A	C	O	M05-1002/1 E-7	1	See Relief Request 003
F379G	VR	2	3	C	N/A	C	O	M05-1002/1 E-6	1	See Relief Request 003
F379H	VR	2	3	C	N/A	C	O	M05-1002/1 E-5	1	See Relief Request 003
F379J	VR	2	3	C	N/A	C	O	M05-1002/1 D-6	1	See Relief Request 003
F379K	VR	2	3	C	N/A	C	O	M05-1002/1 D-5	1	See Relief Request 003
F379L	VR	2	3	C	N/A	C	O	M05-1002/1 B-7	1	See Relief Request 003
F379M	VR	2	3	C	N/A	C	O	M05-1002/1 B-6	1	See Relief Request 003
F379N	VR	2	3	C	N/A	C	O	M05-1002/1 B-5	1	See Relief Request 003
F379P	VR	2	3	C	N/A	C	O	M05-1002/1 B-5	1	See Relief Request 003
F379Q	VR	2	3	C	N/A	C	O	M05-1002/1 B-4	1	See Relief Request 003
F379R	VR	2	3	C	N/A	C	O	M05-1002/1 B-3	1	See Relief Request 003
F433A	C	1/2	3	C	N/A	O	C	M10-1005/8	1	See Relief Request 015
F433B	C	1/2	3	C	N/A	O	C	M10-1005/8	1	See Relief Request 015

SYSTEM Reactor Recirculation (1B33)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F013A	C	3/4	2	C	N/A	O	C	M05-1072/1 A-5	1	See Relief Request 018
F013B	C	3/4	2	C	N/A	O	C	M05-1072/2 A-4	1	See Relief Request 018
F017A	C	3/4	2	C	N/A	O	C	M05-1072/1 A-6	1	See Relief Request 018
F017B	C	3/4	2	C	N/A	O	C	M05-1072/2 A-3	1	See Relief Request 018
F019	CV	3/4	2	B	AO	C	C	M05-1072/1 E-5	1,2,7	
F020	CV	3/4	2	B	AO	C	C	M05-1072/1 E-8	1,2,7	
F023A	G	20	1	B	MO	O	O/C	M05-1072/1 C-7	1	See Relief Request 006
F023B	G	20	1	B	MO	O	O/C	M05-1072/2 D-2	1	See Relief Request 006
F060A	FCV	20	1	B	HO	O	O/C	M05-1072/1 C-3	1	See Relief Request 200
F060B	FCV	20	1	B	HO	O	O/C	M05-1072/2 C-5	1	See Relief Request 200
F067A	G	20	1	B	MO	O	O/C	M05-1072/1 C-2	1	See Relief Request 006
F067B	G	20	1	B	MO	O	O/C	M05-1072/2 C-7	1	See Relief Request 006
F075A	CV	3/4	3	B	AO	O	O/C	M05-1072/1 C-3	1,2,7	See Relief Request 007
F075B	CV	3/4	3	B	AO	O	O/C	M05-1072/2 C-3	1,2,7	See Relief Request 007

SYSTEM Component Cooling

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
1CC049	G	10	2	B	MO	0	C	M05-1032/3 C-8	1,2	See Relief Request 019
1CC050	G	6	2	B	MO	0	C	M05-1032/3 C-7	1,2	See Relief Request 019
1CC053	G	6	2	B	MO	0	C	M05-1032/3 C-3	1,2	See Relief Request 019
1CC054	G	10	2	B	MO	0	C	M05-1032/3 C-2	1,2	See Relief Request 019
1CC057	G	8	2	B	MO	0	C	M05-1032/3 D-8	1,2	See Relief Request 019
1CC060	G	8	2	B	MO	0	C	M05-1032/3 C-2	1,2	See Relief Request 019
1CC071	G	4	2	B	MO	0	O/C	M05-1032/3 E-3	1,2	
1CC072	G	4	2	B	MO	0	O/C	M05-1032/3 E-1	1,2	
1CC073	G	4	2	B	MO	0	O/C	M05-1032/3 F-1	1,2	
1CC074	G	4	2	B	MO	0	O/C	M05-1032/3 F-3	1,2	
1CC127	G	8	2	B	MO	0	C	M05-1032/3 D-8	1,2	See Relief Request 019
1CC128	G	8	2	B	MO	0	C	M05-1032/3 C-2	1,2	See Relief Request 019
1CC188A	C	2½	3	C	N/A	0	C	M05-1032/3 E-6	1	See NOTE 2
1CC188B	C	2½	3	C	N/A	0	C	M05-1032/3 C-6	1	See NOTE 2

SYSTEM Containment Monitoring

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
1CM002A	EFC	3/4	2	C	N/A	O	C	M05-1034/1 B-7	1	See NOTE 2
1CM002B	EFC	3/4	2	C	N/A	O	C	M05-1034/1 B-7	1	See NOTE 2
1CM003A	EFC	3/4	2	C	N/A	O	C	M05-1034/1 B-4	1	See NOTE 2
1CM003B	EFC	3/4	2	C	N/A	O	C	M05-1034/1 B-4	1	See NOTE 2
1CM011	G	3/4	2	B	SO	O	O/C	M05-1034/2 C-7	1,7	See Relief Request 032
1CM012	G	3/4	2	B	SO	O	O/C	M05-1034/2 C-6	1,7	See Relief Request 032
1CM014	G	1/2	2	B	SO	C	O	M05-1034/2 B-6	1,7	See Relief Request 032
1CM015	G	1/2	2	B	SO	C	O	M05-1034/2 E-5	1,7	See Relief Request 032
1CM016	G	1/2	2	B	SO	C	O	M05-1034/2 D-5	1,7	See Relief Request 032
1CM017	G	1/2	2	B	SO	C	O	M05-1034/2 E-5	1,7	See Relief Request 032
1CM018	G	1/2	2	B	SO	C	O	M05-1034/2 B-5	1,7	See Relief Request 032
1CM022	G	3/4	2	B	SO	O	O/C	M05-1034/2 D-2	1,7	See Relief Request 032
1CM023	G	3/4	2	B	SO	O	O/C	M05-1034/2 D-3	1,7	See Relief Request 032
1CM025	G	3/4	2	B	SO	O	O/C	M05-1034/2 C-3	1,7	See Relief Request 032
1CM026	G	3/4	2	B	SO	O	O/C	M05-1034/2 C-3	1,7	See Relief Request 032
1CM028	G	1/2	2	B	SO	C	O	M05-1034/2 B-3	1,7	See Relief Request 032
1CM031	G	1/2	2	B	SO	C	O	M05-1034/2 B-4	1,7	See Relief Request 032
1CM032	G	1/2	2	B	SO	C	O	M05-1034/2 B-4	1,7	See Relief Request 032
1CM033	G	1/2	2	B	SO	C	O	M05-1034/2 E-4	1,7	See Relief Request 032
1CM034	G	1/2	2	B	SO	C	O	M05-1034/2 F-4	1,7	See Relief Request 032

SYSTEM Containment Monitoring

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
ICM047	G	3/4	2	B	SO	0	0/C	M05-1034/2 D-6	1,7	See Relief Request 032
ICM048	G	3/4	2	B	SO	0	0/C	M05-1034/2 D-7	1,7	See Relief Request 032

SYSTEM Cycled Condensate

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
ICY016	G	6	2	B	MO	0	C	M05-1012/6 C-6	1,2	
ICY017	G	6	2	B	MO	0	C	M05-1012/6 C-6	1,2	

SYSTEM Control Rod Drive (IC11)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F010	GL	1	2	B	AO	0	O/C	CLN-001	1,7	
F011	GL	1½	2	B	AO	0	O/C	CLN-001	1,7	
F083	GL	2	2	B	MO	0	C	M05-1078/1 C-7	1,2	See Relief Request 008
F122	C	2	2	C	N/A	0	C	M05-1078/1 C-7	1	See Relief Request 010

SYSTEM Standby Liquid Control (1C41)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F001A	GL	3	2	B	MO	C	0	M05-1077 C-6	1, 2	
F001B	GL	3	2	B	MO	C	0	M05-1077 E-6	1, 2	
F004A	EX	1½	1	D	M	C	N/A	M05-1077 C-3	4	
F004B	EX	1½	1	D	M	C	N/A	M05-1077 D-3	4	
F006	NC	1½	1	C	N/A	C	0	M05-1077 D-2	1	See Relief Request OII
F007	NC	1½	1	C	N/A	C	0	M05-1077 D-2	1	See Relief Request OII
F029A	R	1½ X 2	2	C	N/A	C	0	M05-1077 C-4	5	
F029B	R	1½ X 2	2	C	N/A	C	0	M05-1077 E-4	5	
F033A	NC	1½	2	C	N/A	C	O/C	M05-1077 C-4	1	
F033B	NC	1½	2	C	N/A	C	O/C	M05-1077 E-4	1	
F336	C	3	1	C	N/A	C	0	M05-1077 E-1	1	

SYSTEM Residual Heat Removal (1E12)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F003A	GL	14	2	B	MO	O	O/C	M05-1075/4 C-2	1,2	
F003B	GL	14	2	B	MO	O	O/C	M05-1075/4 C-7	1,2	
F004A	G	20	2	B	MO	O	O/C	M05-1075/1 A-4	1,2	
F004B	G	20	2	B	MO	O	O/C	M05-1075/2 A-6	1,2	
F005	R	1 X 1½	2	C	N/A	C	O	M05-1075/1 B-5	5	
F006A	G	16	2	B	MO	C	O	M05-1075/1 A-5	1,2	
F006B	G	16	2	B	MO	C	O	M05-1075/2 A-6	1,2	
F008	G	18	1	A	MO	C	O/C	M05-1075/1 B-4	1,2,3	See Relief Request 012
F009	G	18	1	A	MO	C	O/C	M05-1075/1 B-2	1,2,3	See Relief Request 012
F011A	GL	4	2	B	MO	C	O/C	M05-1075/4 D-4	1,2	
F011B	GL	4	2	B	MO	C	O/C	M05-1075/4 C-3	1,2	
F014A	G	18	3	B	MO	C	O	M05-1052/1 D-2	1,2	
F014B	G	18	3	B	MO	C	O	M05-1052/2 D-2	1,2	
F017A	R	1 X 1½	2	C	N/A	C	O	M05-1075/1 B-6	5	
F017B	R	1 X 1½	2	C	N/A	C	O	M05-1075/2 B-6	5	
F019	C	4	2	C	N/A	C	O	M05-1075/2 C-3	1	
F021	GL	14	2	B	MO	C	O/C	M05-1075/3 D-3	1,2	
F023	GL	4	1	B	MO	C	O/C	M05-1075/2 C-5	1,2	See Relief Request 013
F024A	G	14	2	B	MO	C	O/C	M05-1075/1 C-7	1,2	
F024B	G	14	2	B	MO	C	O/C	M05-1075/2 C-2	1,2	

SYSTEM Residual Heat Removal (1E12)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F025A	R	1 X 1½	2	C	N/A	C	0	M05-1075/1 D-4	5	
F025B	R	1 X 1½	2	C	N/A	C	0	M05-1075/2 E-5	5	
F025C	R	1 X 1½	2	C	N/A	C	0	M05-1075/3 F-4	5	
F026A	G	4	2	B	MO	C	O/C	M05-1075/4 E-3	1,2	
F026B	G	4	2	B	MO	C	O/C	M05-1075/4 E-6	1,2	
F027A	G	12	2	B	MO	0	O/C	M05-1075/1 D-4	1,2	
F027A	G	12	2	B	MO	0	O/C	M05-1075/2 D-5	1,2	
F028A	G	10	2	B	MO	C	O/C	M05-1075/1 F-3	1,2	
F028A	G	10	2	B	MO	C	O/C	M05-1075/2 F-6	1,2	
F030	R	1 X 1½	2	C	N/A	C	0	M05-1075/2 B-3	5	
F031A	NC	14	2	C	N/A	0	0	M05-1075/1 B-8	1	
F031B	NC	14	2	C	N/A	0	0	M05-1075/2 B-1	1	
F031C	NC	14	2	C	N/A	0	0	M05-1075/3 D-1	1	
F036	R	4 X 6	2	C	N/A	C	0	M05-1075/4 E-5	5	
F037A	GL	10	2	B	MO	C	O/C	M05-1075/1 F-7	1,2	See Relief Request 014
F037B	GL	10	2	B	MO	C	O/C	M05-1075/2 F-2	1,2	See Relief Request 014
F040	GL	3	2	B	MO	C	0	M05-1075/2 E-1	1,2	
F041A	NC	12	1	A/C	A0	C	0	M05-1075/1 D-2	1,3	
F041B	NC	12	1	A/C	A0	C	0	M05-1075/2 D-7	1,3	
F041C	NC	12	1	A/C	A0	C	0	M05-1075/3 E-7	1,3	

SYSTEM Residual Heat Removal (1E12)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	COORDINATES	P&ID	METHOD OF TESTING	COMMENTS
F042A	G	12	1	A	MO	C	0	M05-1075/1	D-3	1,2,3	
F042B	G	12	1	A	MO	C	0	M05-1075/2	D-6	1,2,3	
F042C	G	12	1	A	MO	C	0	M05-1075/3	E-5	1,2,3	
F046A	C	4	2	C	N/A	O/C	0	M05-1075/1	B-7	1	
F046B	C	4	2	C	N/A	O/C	0	M05-1075/2	B-2	1	
F046C	C	4	2	C	N/A	O/C	0	M05-1075/3	B-2	1	
F047A	G	14	2	B	MO	0	0	M05-1075/4	C-2	1,2	
F047B	G	14	2	B	MO	0	0	M05-1075/4	C-8	1,2	
F048A	GL	14	2	B	MO	0	O/C	M05-1075/1	C-8	1,2	
F048B	GL	14	2	B	MO	0	O/C	M05-1075/2	C-8	1,2	
F049	G	3	2	B	MO	C	C	M05-1075/1	E-1	1,2	
F050A	C	10	2	A/C	N/A	C	0	M05-1075/2	D-5	1,3	
F050B	C	10	2	A/C	N/A	C	0	M05-1075/2	E-5	1,3	
F052A	GL	8	2	B	MO	O/C	O/C	M05-1075/1	E/F-3/4	1,2	
F052B	GL	8	2	B	MO	O/C	O/C	M05-1075/2	E/F-5/6	1,2	
F053A	GL	10	2	A	MO	C	O/C	M05-1075/1	D-6	1,2,3	See Relief Request 014
F053B	GL	10	2	A	MO	C	O/C	M05-1075/2	E-4	1,2,3	See Relief Request 014
F054A	C	4	2	C	N/A	O/C	0	M05-1075/4	D-3	1	
F054B	C	4	2	C	N/A	O/C	0	M05-1075/4	C-6	1	

SYSTEM Residual Heat Removal (1E12)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	COORDINATES	P&ID	METHOD OF TESTING	COMMENTS
F055A	R	8 X 12	2	C	N/A	C	0	M05-1075/4	C-2	5	See NOTE 1
F055B	R	8 X 12	2	C	N/A	C	0	M05-1075/4	C-7	5	See NOTE 1
F064A	C	4	2	B	MO	0	0	M05-1075/1	B-8	1,2	
F064B	C	4	2	B	MO	0	0	M05-1075/2	B-1	1,2	
F064C	C	4	2	B	MO	0	0	M05-1075/3	B-1	1,2	
F068A	G	18	3	B	MO	C	0	M05-1075/1	C-1	1,2	
F068B	G	18	3	B	MO	C	0	M05-1075/2	C-1	1,2	
F073A	GL	1½	2	B	MO	C	0	M05-1075/2	C-3	1,2	
F073B	GL	1½	2	B	MO	C	0	M05-1075/2	B-1	1,2	
F074A	GL	1½	2	B	MO	C	0	M05-1075/2	C-4	1,2	
F074B	GL	1½	2	B	MO	C	0	M05-1075/2	B-5	1,2	
F084A	C	2½	2	C	N/A	0	C	M05-1075/1	B-7	1	
F084B	C	2½	2	C	N/A	0	C	M05-1075/2	B-2	1	
F084C	C	2½	2	C	N/A	0	C	M05-1075/3	E-2	1	
F087A	GL	6	2	B	MO	C	0/C	M05-1075/4	E-3	1,2	
F087A	GL	6	2	B	MO	C	0/C	M05-1075/4	E-6	1,2	
F094	G	4	2	B	MO	C	0	M05-1075/4	E-7/8	1,2	
F096	G	4	2	B	MO	C	0	M05-1075/4	E-7/8	1,2	
F098	C	4	2	C	N/A	C	0	M05-1075/4	D-7	1	

SYSTEM Residual Heat Removal (1E12)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	COORDINATES	P&ID	METHOD OF TESTING	COMMENTS
F100A	R	3/4 X 1 1/2	3	C	N/A	C	0	M05-1052/1	C-1	5	
F100B	R	3/4 X 1 1/2	3	C	N/A	C	0	M05-1052/2	D-1	5	
F101	R	1 X 1 1/2	2	C	N/A	C	0	M05-1075/3	C-5	5	
F103A	VR	2	2	C	N/A	C	0	M05-1075/4	B-1	1	
F103B	VR	2	2	C	N/A	C	0	M05-1075/4	B-8	1	
F104A	VR	2	2	C	N/A	C	0	M05-1075/4	B-1	1	
F104B	VR	2	2	C	N/A	C	0	M05-1075/3	B-8	1	
e105	G	20	2	B	MO	0	0	M05-1075/1	B-5	1,2	
F110A	VR	2	2	C	N/A	C	0	M05-1075/2	B-3	1	
F110B	VR	2	2	C	N/A	C	0	M05-1075/1	B-7	1	
F111A	VR	2	2	C	N/A	C	0	M05-1075/1	B-3	1	
F111B	VR	2	2	C	N/A	C	0	M05-1075/2	B-7	1	

SYSTEM Low Pressure Core Spray (1E21)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	PJID COORDINATES	METHOD OF TESTING	COMMENTS
F001	G	20	2	B	MO	0	0	M05-1073 B-4	1,2	
F003	NC	12	2	C	N/A	C	0	M05-1073 E-6	1	
F005	G	10	1	A	MO	C	0	M05-1073 E-4	1,2,3	
F006	NC	10	1	A/C	A0	C	0/C	M05-1073 E-2	1,3	
F011	G	4	2	B	MO	0	0/C	M05-1073 D-6	1,2	
F012	GL	10	2	B	MO	C	0/C	M05-1073 D-5	1,2	
F018	R	1½ X 2	2	C	N/A	C	0	M05-1073 E-5	5	
F031	R	1½ X 1	2	C	N/A	C	0	M05-1073 C-8	5	
F033	C	2½	2	C	N/A	0	C	M05-1073 D-6	1	
F303	NC	10	2	C	N/A	C	0	M05-1073 C-5	1	
F306	C	3	2	C	N/A	C	0	M05-1073 F-4	1	

SYSTEM High Pressure Core Spray (1E22)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F001	G	16	2	B	MO	0	O/C	M05-1074 A-16	1,2	
F002	C	16	2	C	N/A	0	C	M05-1074 A-5	1	
F004	G	10	1	A	MO	C	O/C	M05-1074 E-7	1,2,3	
F005	NC	10	1	A/C	AO	C	O/C	M05-1074 E-8	1,3	
F007	C	2½	2	C	N/A	0	C	M05-1074 D-4	1	
F010	GL	10	2	B	MO	C	C	M05-1074 D-6	1,2	
F011	GL	10	2	B	MO	C	C	M05-1074 D-5	1,2	
F012	G	4	2	B	MO	C	O/C	M05-1074 D-3	1,2	
F014	R	3/4 X 1	2	C	N/A	C	0	M05-1074 C-5	5	
F015	G	20	2	B	MO	C	0	M05-1074 B-8	1,2	
F016	C	20	2	C	N/A	C	0	M05-1074 B-6	1	
F023	GL	10	2	B	MO	C	O/C	M05-1074 D-6	1,2	
F024	NC	14	2	C	N/A	C	0	F 5-1074 E-3	1	
F035	R	3/4 X 1	2	C	N/A	C	0	M05-1074 E-3	5	
F039	R	3/4 X 1	2	C	N/A	C	0	M05-1074 C-6	5	
F330	EFC	3/4	2	C	N/A	0	C	M05-1074/3	1	
F332	EFC	3/4	2	C	N/A	0	C	M05-1074/3	1	

SYSTEM Leakage Detection (E31)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	COORDINATES	P&ID	METHOD OF TESTING	COMMENTS
F014	G	1	2	B	SO	0	C	M05-1041/4 E-8	E-8	1,7	See Relief Request 033
F015	G	1	2	B	SO	0	C	M05-1041/4 E-7	E-7	1,7	See Relief Request 033
F017	G	1	2	B	SO	0	C	M05-1041/4 C-7	C-7	1,7	See Relief Request 033
F018	G	1	2	B	SO	0	C	M05-1041/4 C-8	C-8	1,7	See Relief Request 033

SYSTEM MSIV Leakage (1E32)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	COORDINATES	P&ID	METHOD OF TESTING	COMMENTS
F001A	GL	1½	1	B	MO	C	O/C	M05-1070	C-7	1,2	
F001E	GL	1½	1	B	MO	C	O/C	M05-1070	E-7	1,2	
F001J	GL	1½	1	B	MO	C	O/C	M05-1070	B-7	1,2	
F001N	GL	1½	1	B	MO	C	O/C	M05-1070	D-7	1,2	
F002A	GL	1½	1	B	MO	C	O/C	M05-1070	C-7	1,2	
F002E	GL	1½	1	B	MO	C	O/C	M05-1070	E-7	1,2	
F002J	GL	1½	1	B	MO	C	O/C	M05-1070	B-7	1,2	
F002N	GL	1½	1	B	MO	C	O/C	M05-1070	D-7	1,2	
F003A	GL	1½	1	B	MO	C	O/C	M05-1070	C-7	1,2	
F003E	GL	1½	1	B	MO	C	O/C	M05-1070	E-7	1,2	
F003J	GL	1½	1	B	MO	C	O/C	M05-1070	B-7	1,2	
F003N	GL	1½	1	B	MO	C	O/C	M05-1070	D-7	1,2	
F006	G	2½	2	B	MO	C	O/C	M05-1070	C-4	1,2	
F007	G	2½	2	B	MO	C	O/C	M05-1070	C-3	1,2	
FC08	G	2½	2	B	MO	C	O/C	M05-1070	A-4	1,2	
F009	G	2½	2	B	MO	C	O/C	M05-1070	A-3	1,2	
F010	C	3/4	2	C	N/A	C	C	M05-1070	E-4	1	
F011	C	3/4	2	C	N/A	C	C	M05-1070	B-2	1	

SYSTEM MSIV Leakage (1E32)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F315A	C	3/4	2	C	N/A	C	C	M05-1070 A-4	I	
F315B	C	3/4	2	C	N/A	C	C	M05-1070 A-4	I	
F315C	C	3/4	2	C	N/A	C	C	M05-1070 A-4	I	
F315D	C	3/4	2	C	N/A	C	C	M05-1070 A-4	I	

SYSTEM Reactor Core Isolation Cooling (IE51)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F004	CV	1	2	B	A0	0	O/C	M05-1079/1 B-1	1,2,7	
F005	CV	1	2	B	A0	C	O/C	M05-1079/1 B-2	1,2,7	
F010	G	6	2	B	M0	0	O/C	M05-1079/1 A-6	1,2	
F011	C	6	2	C	N/A	C	0	M05-1079/2 A-4	1	
F013	G	6	1	B	M0	C	O/C	M05-1079/2 F-6	1,2	
F018	R	2 X 3	2	C	N/A	C	0	M05-1079/2 C-5	5	
F019	GL	2	2	B	M0	C	O/C	M05-1079/2 D-6	1,2	
F021	C	2½	2	C	N/A	C	0	M05-1079/1 D-5	1	
F022	GL	4	2	B	M0	C	O/C	M05-1079/1 E-5	1,2	
F025	CV	1	2	B	A0	0	O/C	M05-1079/1 D-5	1,2,7	
F026	CV	1	2	B	A0	0	O/C	M05-1079/1 D-5	1,2,7	
F030	C	6	2	C	N/A	C	0	M05-1079/2 C-4	1	
F031	G	6	2	B	M0	C	O/C	M05-1079/2 B/C-6	1,2	
F040	C	12	2	C	N/A	C	0	M05-1079/1 C-4	1	
F045	GL	4	2	B	M0	C	0	M05-1079/1 D-4	1,2	
F046	GL	2	2	B	M0	C	0	M05-1079/2 C-3/4	1,2	
F047	C	2½	2	C	N/A	0	C	M05-1079/1 B-1	1	
F059	G	4	2	B	M0	C	C	M05-1079/2 E-5	1,2	
F061	C	2½	2	C	N/A	0	C	M05-1079/2 B-4	1	

SYSTEM Reactor Core Isolation Cooling (1E51)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F063	G	8	1	B	MO	0	O/C	E-8 M05-1079/1	1,2	
F064	G	8	1	B	MO	0	O/C	E-5 M05-1079/2	1,2	
F065	NC	4	1	A/C	N/A	C	0	E/F-6/7 M05-1079/2	1,3	
F066	NC	4	1	A/C	AO	C	0	F-8 M05-1079/1	1,3	
F068	G	12	2	B	MO	0	0	C-5 M05-1079/1	1,2	
F076	GL	1	1	B	MO	C	C	E-8 M05-1079/1	1,2	
F077	GL	1½	2	B	MO	0	C	C-5 M05-1079/1	1,2	
F078	G	3	2	B	MO	0	C	C-6/7 M05-1079/1	1,2	
F079	VR	2	2	C	N/A	C	0	C-6 M05-1079/1	1	
F081	VR	2	2	C	N/A	C	0	C-6 M05-1079/2	1	
F090	R	2	2	C	N/A	C	0	E-5 M10-1079/2	5	
F377A	EFC	3/4	2	C	N/A	0	C	M10-1079/2	1	See NOTE 2
F377B	EFC	3/4	2	C	N/A	0	C	M10-1079/1	1	See NOTE 2
F412	GL	1	2	B	MO	C	0	D-4 M05-1079/1	1,2	

SYSTEM Fuel Pool Cooling & Cleanup

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
1FC004A	CV	8	3	B	AO	O/C	0	E-5 M05-1037/3	1,2,7	
1FC004B	CV	8	3	B	AO	O/C	0	A/B-5 M05-1037/1	1,2,7	
1FC007	G	10	2	B	MO	0	C	B-2 M05-1037/1	1,2	
1FC008	G	10	2	B	MO	0	C	B-1/2 M05-1037/3	1,2	
1FC016A	B	8	3	B	MC	O/C	C	D-6/7 M05-1037/3	1,2	
1FC016B	B	8	3	B	MO	O/C	C	C-6/7 M05-1037/3	1,2	
1FC017	B	8	3	B	AO	0	C	C-6 M05-1037/3	1,2,7	
1FC023	B	8	3	B	AO	0	C	C/D-6 M05-1037/3	1,2,7	
1FC024A	B	8	3	B	MO	O/C	C	D/E-2/3 M05-1037/3	1,2	
1FC024B	B	8	3	B	MO	O/C	C	C-2/3 M05-1037/1	1,2	
1FC036	G	8	2	B	MO	0	C	E-1 M05-1037/1	1,2	
1FC037	G	8	2	B	MO	0	C	E-2 M05-1037/1	1,2	
1FC085A	R	4 X 6	3	C	N/A	C	0	F-8 M05-1037/1	5	
1FC085B	R	4 X 6	3	C	N/A	C	0	A-8 M05-1037/1	5	

SYSTEM Fire Protection

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
IFP050	G	6	2	B	MO	C	C	M05-1039/9 D-3	1,2	
IFP051	G	10	2	B	MO	C	C	M05-1039/9 C-7/8	1,2	
IFP052	G	10	2	B	MO	C	C	M05-1039/9 C-6/7	1,2	
IFP053	G	10	2	B	MO	C	C	M05-1039/9 C-4	1,2	
IFP054	G	10	2	B	MO	C	C	M05-1039/9 C-2	1,2	
IFP078	G	4	2	B	MO	0	C	M05-1039/9 D-5	1,2	
IFP079	G	4	2	B	MO	0	C	M05-1039/9 D-6	1,2	
IFP092	G	6	2	B	MO	C	C	M05-1039/9 D-3	1,2	

SYSTEM Reactor Water Cleanup (1G33)

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
F001	G	6	1	A	MO	O	C	M05-1076/4 B-8	1,2,3	
F004	G	6	1	A	MO	O	C	M05-1076/4 B-5	1,2,3	
F028	G	4	2	B	MO	C	C	M05-1076/4 E-8	1,2	
F034	G	4	2	B	MO	C	C	M05-1076/4 E-7	1,2	
F039	G	4	2	B	MO	O	C	M05-1076/4 D-7	1,2	
F040	G	4	2	B	MO	O	C	M05-1076/4 D-8	1,2	
F053	G	4	2	B	MO	O	C	M05-1076/4 C-8	1,2	
F054	G	4	2	B	MO	O	C	M05-1076/4 C-7	1,2	

SYSTEM Combustible Gas Control

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
IHG001	B	2	2	B	MO	C	O/C	M05-1063 D-3	1, 2	
IHG004	B	2	2	B	MO	C	O/C	M05-1063 C-3	1, 2	
IHG005	B	2	2	B	MO	C	O/C	M05-1063 E-3	1, 2	
IHG008	B	2	2	B	MO	C	O/C	M05-1063 E-3	1, 2	
IHG009A	G	6	2	B	MO	C	0	M05-1063 E-4/5	1, 2	
IHG009B	G	6	2	B	MO	C	0	M05-1063 E-6/7	1, 2	
IHG010A	VR	10	2	C	N/A	C	0	M05-1063 C/D-4	I	
IHG010B	VR	10	2	C	N/A	C	0	M05-1063 C/D-7	I	
IHG010C	VR	10	2	C	N/A	C	0	M05-1063 B/C-4	I	
IHG010D	VR	10	2	C	N/A	C	0	M05-1063 B/C-7	I	
IHG011A	VR	10	2	C	N/A	C	0	M05-1063 C/D-4/5	I	
IHG011B	VR	10	2	C	N/A	C	0	M05-1063 C/D-6/7	I	
IHG011C	VR	10	2	C	N/A	C	0	M05-1063 B/C-4/5	I	
IHG011D	VR	10	2	C	N/A	C	0	M05-1063 B/C-6/7	I	

SYSTEM Instrument Air

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
11A005	CV	3	2	B	AO	0	C	M05-1040/5 D/E-2	1,2,7	See Relief Request 024
11A006	CV	3	2	B	AO	0	C	M05-1040/5 D/E-3	1,2,7	See Relief Request 024
11A007	CV	3	2	B	AO	0	C	M05-1040/5 D/E-5	1,2,7	See Relief Request 024
11A008	CV	3	2	B	AO	0	C	M05-1040/5 D/E-6/7	1,2,7	See Relief Request 024
11A012A	GL	1	2	B	MO	0/C	0	M05-1040/7 D/E-2/3	1,2	See Relief Request 028
11A012B	GL	1	2	B	MO	0/C	0	M05-1040/7 C/D-3	1,2	See Relief Request 028
11A013A	GL	1	2	B	MO	0/C	0	M05-1040/7 D/E-7	1,2	See Relief Request 028
11A013B	GL	1	2	B	MO	0/C	0	M05-1040/7 C/D-6/7	1,2	See Relief Request 028
11A042A	C	1	2	C	N/A	0	C	M05-1040/7 D/E-6	1	See Relief Request 029
11A042B	C	1	2	C	N/A	0	C	M05-1040/7 D/E-4	1	See Relief Request 029
11A076A	C	1	3	C	N/A	C	C	M05-1040/7 B-7	1	See Relief Request 029
11A076B	C	1	3	C	N/A	C	C	M05-1040/7 B-2/3	1	See Relief Request 029

SYSTEM Makeup Condensate

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
OMC009	G	4	2	B	MO	0	C	M05-1042/4 E-4	1,2	
OMC010	G	4	2	B	MO	0	C	M05-1042/4 D-5	1,2	

SYSTEM Process Sampling

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
IPS004	G	3/4	2	B	SO	C	C	M05-1045/12 E-6	1,7	See Relief Request 034
IPS005	G	3/4	2	B	SO	C	C	M05-1045/12 E-6	1,7	See Relief Request 034
IPS009	G	3/4	2	B	SO	C	C	M05-1045/12 E-6	1,7	See Relief Request 034
IPS010	G	3/4	2	B	SO	C	C	M05-1045/12 E-5	1,7	See Relief Request 034
IPS016	G	1/2	2	B	SO	C	C	M05-1045/12 E-5	1,7	See Relief Request 034
IPS017	G	1/2	2	B	SO	C	C	M05-1045/12 E-5	1,7	See Relief Request 034
IPS022	G	1/2	2	B	SO	C	C	M05-1045/12 E-4	1,7	See Relief Request 034
IPS023	G	1/2	2	B	SO	C	C	M05-1045/12 E-4	1,7	See Relief Request 034
IPS031	G	3/4	2	B	SO	C	C	M05-1045/12 E-2	1,7	See Relief Request 034
IPS032	G	3/4	2	B	SO	C	C	M05-1045/12 E-2	1,7	See Relief Request 034
IPS034	G	3/4	2	B	SO	C	C	M05-1045/12 F-1	1,7	See Relief Request 034
IPS034	G	3/4	2	B	SO	C	C	M05-1045/12 E-1	1,7	See Relief Request 034
IPS037	G	3/4	2	B	SO	C	C	M05-1045/12 E-8	1,7	See Relief Request 034
IPS038	G	3/4	2	B	SO	C	C	M05-1045/12 E-8	1,7	See Relief Request 034
IPS043A	G	3/4	2	B	SO	C	C	M05-1045/12 F-2	1,7	See Relief Request 034
IPS043B	G	3/4	2	B	SO	C	C	M05-1045/12 F-3	1,7	See Relief Request 034
IPS044A	G	3/4	2	B	SO	C	C	M05-1045/12 E-2	1,7	See Relief Request 034
IPS044B	G	3/4	2	B	SO	C	C	M05-1045/12 E-3	1,7	See Relief Request 034

SYSTEM Process Sampling

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
1PS047	G	3/4	2	B	SO	C	C	M05-1045/12 F-7	1,7	See Relief Request 034
1PS048	G	3/4	2	B	SO	C	C	M05-1045/12 E-7	1,7	See Relief Request 034
1PS055	G	3/4	2	B	SO	C	C	M05-1045/12 C-3	1,7	See Relief Request 034
1PS056	G	3/4	2	B	SO	C	C	M05-1045/12 C-3	1,7	See Relief Request 034
1PS069	G	3/4	2	B	SO	C	C	M05-1045/12 B-3	1,7	See Relief Request 034
1PS070	G	3/4	2	B	SO	C	C	M05-1045/12 B-3	1,7	See Relief Request 034

SYSTEM Breathing Air

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	TEST COORDINATES	P&ID	METHOD OF TESTING	COMMENTS
ORA026	CV	1	2	B	A0	0	C	M05-1065/7	D-8	1,7	See Relief Request 027
ORA027	CV	1	2	B	A0	0	C	M05-1065/7	D-7	1,7	See Relief Request 027
ORA028	CV	1	2	B	A0	0	C	M05-1065/7	D-6	1,7	See Relief Request 027
ORA029	CV	1	2	B	A0	0	C	M05-1065/7	D-5	1,7	See Relief Request 027

SYSTEM Equipment Drain

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
IRE019	CV	3	2	B	A0	O/C	C	M05-1046/4 A-7	1,2,7	
IRE020	CV	3	2	B	A0	O/C	C	M05-1046/3 A-4	1,2,7	
IRE021	CV	3	2	B	A0	O/C	C	M05-1046/4 A-5	1,2,7	
IRE022	CV	3	2	B	A0	O/C	C	M05-1046/3 A-7	1,2,7	

SYSTEM Floor Drain

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
IRF019	CV	3	2	B	A0	O/C	C	M05-1047/3 C-2	1,2,7	
IRF020	CV	3	2	B	A0	O/C	C	M05-1047/3 C-2	1,2,7	
IRF021	CV	3	2	B	A0	O/C	C	M05-1047/3 C-5	1,2,7	
IRF022	CV	3	2	B	A0	O/C	C	M05-1047/3 C-5	1,2,7	

SYSTEM Service Air

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
ISA029	CV	3	2	B	A0	0	C	M05-1048/6 D/E-2	1,2,7	
ISA030	CV	3	2	B	A0	0	C	M05-1048/6 D/E-3	1,2,7	
ISA031	CV	3	2	B	A0	0	C	M05-1048/6 D/E-4	1,2,7	
ISA032	CV	3	2	B	A0	0	C	M05-1048/6 D/E-5	1,2,7	

SYSTEM Suppression Pool Cleanup

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
1SF001	C	10	2	B	MO	C	C	M05-1060 E-5	1,2	
1SF002	G	10	2	B	MO	C	C	M05-1060 E-5/6	1,2	
1SF004	G	12	2	B	MO	C	C	M05-1060 C-5	1,2	

SYSTEM Suppression Pool Makeup

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
ISM001A	B	24	2	B	MO	C	0	M05-1069 D-5	1,2	
ISM001B	B	24	2	B	MO	C	0	M05-1069 D-4	1,2	
ISM002A	B	24	2	B	MO	C	0	M05-1069 D-5	1,2	
ISM002B	B	24	2	B	MO	C	0	M05-1069 D-4	1,2	
ISM008	EFC	3/4	2	C	N/A	0	C	M05-1069 A/B-3/4	1	See NOTE 2
ISM009	EFC	3/4	2	C	N/A	0	C	M05-1069 C-3/4	1	See NOTE 2
ISM010	EFC	3/4	2	C	N/A	0	C	M05-1069 C/D-3/4	1	See NOTE 2
ISM011	EFC	3/4	2	C	N/A	0	C	M05-1069 B-3/4	1	See NOTE 2

SYSTEM Shutdown Service Water

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
ISX001A	NC	30	3	C	N/A	C	0	M05-1052/1 D-7	1	
ISX001B	NC	30	3	C	N/A	C	0	M05-1052/2 D-7	1	
ISX001C	NC	10	3	C	N/A	C	0	M05-1052/3 D-7	1	
ISX003A	B	30	3	B	MO	0	O/C	M05-1052/1 D-6	1,2	
ISX003B	B	30	3	B	MO	0	O/C	M05-1052/2 D-6	1,2	
ISX003C	B	10	3	B	MO	0	O/C	M05-1052/3 D-6	1,2	
ISX004A	B	30	3	B	MO	0	O/C	M05-1052/1 D-5	1,2	
ISX004B	B	30	3	B	MO	0	O/C	M05-1052/2 D-5	1,2	
ISX004C	B	10	3	B	MO	0	O/C	M05-1052/3 D-5	1,2	
ISX006C	B	8	3	B	MO	0	0	M05-1052/1 D-3	1,2	
ISX008A	B	20	3	B	MO	C	0	M05-1052/1 E-6	1,2	
ISX008B	B	20	3	B	MO	C	0	M05-1052/1 E-6	1,2	
ISX008C	B	8	3	B	MO	C	0	M05-1052/1 D-6	1,2	
ISX010A	CV	2	3	B	A0	C	0	M05-1052/1 E-3	1,7	See Relief Request 020
ISX010B	CV	2	3	B	A0	C	0	M05-1052/1 E-3	1,7	See Relief Request 020
ISX010C	CV	1 1/2	3	B	A0	C	0	M05-1052/1 E-4	1,7	See Relief Request 020
ISX011A	B	16	3	B	MO	C	0	M05-1052/1 D-3	1,2	
ISX011B	B	16	3	B	MO	C	0	M05-1052/1 E-3	1,2	

SYSTEM Shutdown Service Water

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
ISX012A	B	14	3	B	MO	C	0	M05-1052/1 C-3	1,2	See Relief Request 030
ISX012B	B	14	3	B	MO	C	0	M05-1052/2 C-3/4	1,2	See Relief Request 030
ISX012D	P	3	3	B	MO	C	C/O	M05-1052/1 C-5	1,2	
ISX012E	P	3	3	B	MO	C	C/O	M05-1052/1 D-5	1,2	
ISX012F	P	3	3	B	MO	C	C/O	M05-1052/3 C-5	1,2	
ISX014A	B	20	3	B	MO	0	C	M05-1052/1 F-3	1,2	
ISX014B	B	20	3	B	MO	0	C	M05-1052/2 F-3	1,2	
ISX014C	B	8	3	B	MO	0	C	M05-1052/3 E-4	1,2	
ISX016A	G	2½	3	B	MO	C	0	M05-1052/1 C/D-3/4	1,2	See Relief Request 017
ISX016B	G	2½	3	B	MO	C	0	M05-1052/1 D-3/4	1,2	See Relief Request 017
ISX017A	B	8	3	B	MO	0	O/C	M05-1052/1 B-7	1,2	
ISX017B	B	8	3	B	MO	0	O/C	M05-1052/2 B-7	1,2	
ISX019A	CV	8	3	B	MO	0	O/C	M05-1052/1 B-6	1,2	
ISX019B	CV	8	3	B	MO	0	O/C	M05-1052/2 B-6	1,2	
ISX020A	B	12	3	B	MO	O/C	C	M05-1052/1 C-4	1,2	
ISX020E	B	12	3	B	MO	O/C	C	M05-1052/2 C-4	1,2	
ISX023A	CV	2	3	B	AO	C	0	M05-1052/1 C-2	1,7	See Relief Request 020
ISX023B	CV	2	3	B	AO	C	0	M05-1052/2 C-2	1,7	See Relief Request 020

SYSTEM Shutdown Service Water

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
1SX025A	CV	3	3	B	MO	O	O	M05-1052/4 E-6	1,7	See Relief Request 020
1SX025B	CV	4	3	B	MO	O	O	M05-1052/4 E-2	1,7	See Relief Request 020
1SX025C	CV	3	3	B	MO	O	O	M05-1052/4 C-2	1,7	See Relief Request 020
1SX027A	CV	2	3	B	AO	C	O	M05-1052/4 D-6	1,7	See Relief Request 020
1SX027B	CV	2½	3	B	AO	C	O	M05-1052/4 D-2	1,7	See Relief Request 020
1SX027C	CV	2½	3	B	AO	C	O	M05-1052/4 C-2	1,7	See Relief Request 020
1SX029A	CV	1½	3	B	AO	C	O	M05-1052/4 D-6	1,7	See Relief Request 020
1SX029B	CV	1½	3	B	AO	C	O	M05-1052/4 D-2	1,7	See Relief Request 020
1SX029C	CV	1½	3	B	AO	C	O	M05-1052/3 B-2	1,7	See Relief Request 020
1SX033	CV	2	3	B	AO	C	O	M05-1052/4 C-6	1,7	See Relief Request 020
1SX037	CV	1½	3	B	AO	C	O	M05-1052/4 B-6	1,7	See Relief Request 020
1SX041A	CV	2	3	B	AO	C	O	M05-1052/3 C-2	1,7	See Relief Request 020
1SX041A	CV	2	3	B	AO	C	O	M05-1052/3 B-2	1,7	See Relief Request 020
1SX062A	B	14	3	B	MO	C	O	M05-1052/1 B-4	1,2	See Relief Request 030
1SX062B	B	14	3	B	MO	C	O	M05-1052/2 B-4	1,2	See Relief Request 030
1SX063A	B	8	3	B	MO	C	O	M05-1052/1 C-2	1,2	
1SX063B	B	8	3	B	MO	C	O	M05-1052/2 C-2/3	1,2	

SYSTEM Shutdown Service Water

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TFSF POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
ISX071A	G	3	3	B	MO	C	O/C	M05-1052/5 F-7	1,2	
ISX071B	G	3	3	B	MO	C	O/C	M05-1052/5 F-3	1,2	
ISX074A	G	3	3	B	MO	C	O/C	M05-1052/5 E-7	1,2	
ISX074B	G	3	3	B	MO	C	O/C	M05-1052/5 E-3	1,2	
ISX075A	NC	3	3	C	N/A	C	0	M05-1052/5 D-7	1	
ISX075B	NC	3	3	C	N/A	C	0	M05-1052/5 D-3	1	
ISX076A	G	3	3	B	MO	C	O/C	M05-1052/5 D-7	1,2	
ISX076B	G	3	3	B	MO	C	O/C	M05-1052/5 D-3	1,2	
ISX082A	G	3	3	B	MO	0	O/C	M05-1052/1 D-1	1,2	
ISX082B	G	3	3	B	MO	0	O/C	M05-1052/2 D-1	1,2	
ISX083A	NC	3	3	C	N/A	0	C	M05-1052/1 D-1	1	
ISX083B	NC	3	3	C	N/A	0	C	M05-1052/2 D-1	1	
ISX088A	G	3	2	B	MO	0	0	M05-1052/5 C-8	1,2	
ISX088B	G	3	2	B	MO	0	0	M05-1052/5 C-4	1,2	
ISX089A	G	3	2	B	MO	0	0	M05-1052/5 C-7	1,2	
ISX089B	G	3	2	B	MO	0	0	M05-1052/5 C-3	1,2	
ISX095A	G	2½	3	B	MO	C	0	M05-1052/5 C-6	1,2	
ISX095B	G	2½	3	B	MO	C	0	M05-1052/5 C-2	1,2	

SYSTEM Shutdown Service Water

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
1SX096A	G	2	3	B	MO	O	O	M05-1052/5 C-5/6	1,2	
1SX096B	G	2	3	B	MO	O	O	M05-1052/5 C-2	1,2	
1SX097A	G	2	3	B	MO	C	O	M05-1052/5 C-5	1,2	
1SX097B	G	2	3	B	MO	C	O	M05-1052/5 C-1	1,2	
1SX105A	G	3	3	B	MO	C	O/C	M05-1052/5 D-7	1,2	
1SX105B	G	3	3	B	MO	C	O/C	M05-1052/5 D-3	1,2	
1SX107A	G	3	3	B	MO	C	O/C	M05-1052/5 D-7	1,2	
1SX107B	G	3	3	B	MO	C	O/C	M05-1052/5 D-3	1,2	
1SX173A	G	10	3	B	MO	C	O	M05-1052/1 D-2	1,2	
1SX173B	G	10	3	B	MO	C	O	M05-1052/2 D-2	1,2	
1SX181A	CV	2½	3	B	AO	C	O	M05-1052/1 F-1	1,7	See Relief Request 020
1SX181B	CV	2½	3	B	AO	C	O	M05-1052/2 F-1	1,7	See Relief Request 020
1SX185A	CV	2½	3	B	AO	C	O	M05-1052/1 E-1	1,7	See Relief Request 020
1SX185B	CV	2½	3	B	AO	C	O	M05-1052/2 E-1	1,7	See Relief Request 020
1SX189	CV	2½	3	B	AO	C	O	M05-1052/2 B-4	1,7	See Relief Request 020
1SX193A	CV	1½	3	B	AO	C	O	M05-1052/1 B-7	1,7	See Relief Request 020
1SX193A	CV	1½	3	B	AO	C	O	M05-1052/2 B-4	1,7	See Relief Request 020
1SX197	CV	2	3	B	AO	C	O	M05-1052/1 B-4/5	1,7	See Relief Request 020

SYSTEM Shutdown Service Water

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
ISX208A	R	4 X 6	3	C	N/A	C	0	D-1 M05-1052/1	5	
ISX208B	R	4 X 6	3	C	N/A	C	0	D-1 M05-1052/2	5	
ISX209	CV	1½	3	B	A0	C	0	A-1 M05-1052/2	1,7	See Relief Request 020

SYSTEM Control Room HVAC

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
OVC017A	C	2	3	C	N/A	C	0	M05-1102/5 F-6	I	
OVC017B	C	2	3	C	N/A	C	0	M05-1102/5 F-6/7	I	
OVC020A	C	2	3	C	N/A	C	0	M05-1102/5 F-6/7	I	
OVC020B	C	2	3	C	N/A	C	0	M05-1102/5 F-6/7	I	
OVC032A	C	2	3	C	N/A	C	0	M05-1102/5 C/D-5/6	I	
OVC032B	C	2	3	C	N/A	C	0	M05-1102/5 C/D-6	I	

SYSTEM Drywell Cooling

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
1VP004A	G	10	2	B	MO	0	C	M05-1109/2 D-3	1,2	
1VP004B	G	10	2	B	MO	0	C	M05-1109/3 D-3	1,2	
1VP005A	G	10	2	B	MO	0	C	M05-1109/2 D-2	1,2	
1VP005I	G	10	2	B	MO	0	C	M05-1109/3 D-2	1,2	
1VP014A	G	10	2	B	MO	0	C	M05-1109/2 E-3	1,2	
1VP014B	G	10	2	B	MO	0	C	M05-1109/3 E-3	1,2	
1VP015A	G	10	2	B	MO	0	C	M05-1109/2 E-2	1,2	
1VP015B	G	10	2	B	MO	0	C	M05-1109/3 E-2	1,2	
1VP023A	R	3/4 X 1	2	C	N/A	C	0	M05-1109/2 D-3	5	
1VP023B	R	3/4 X 1	2	C	N/A	C	0	M05-1109/3 D-3	5	
1VP027A	R	3/4 X 1	2	C	N/A	C	0	M05-1109/2 F-3	5	
1VP027B	R	3/4 X 1	2	C	N/A	C	0	M05-1109/3 F-3	5	

SYSTEM Drywell Purge

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
IVQ001A	B	24	2	B	A0	C	O/C	M05-1110/2 C-8	1,2,7	
IVQ001B	B	24	2	B	A0	C	O/C	M05-1110/2 C-7	1,2,7	
IVQ002	B	24	2	B	A0	C	O/C	M05-1110/2 C-6	1,2,7	
IVQ003	B	36	2	B	A0	C	O/C	M05-1110/2 D-5/6	1,2,7	
IVQ004A	B	36	2	B	A0	0	O/C	M05-1110/2 C/D-4	1,2,7	
IVQ004B	B	36	2	B	A0	0	O/C	M05-1110/2 C/D-5	1,2,7	
IVQ005	B	10	2	B	A0	C	O/C	M05-1110/2 C/D-6	1,2,7	
IVQ006A	GL	4	2	B	M0	C	O/C	M05-1110/2 C-4	1,2	
IVQ006B	GL	4	2	B	M0	C	O/C	M05-1110/2 C-4/5	1,2	

SYSTEM Containment Ventilation

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	F&ID COORDINATES	METHOD OF TESTING	COMMENTS
1VR001A	B	36	2	B	AO	0	C	M05-11111/1 E-2	1,2,7	
1VR001B	B	36	2	B	AO	0	C	M05-11111/1 E-1	1,2,7	
1VR002A	GL	4	2	B	MO	C	C	M05-11111/1 E-2	1,2,7	
1VR002B	GL	4	2	B	MO	C	C	M05-11111/1 E-1	1,2,7	
1VR006A	B	12	2	B	AJ	0	C	M05-11111/1 E-3	1,2,7	
1VR006B	B	12	2	B	AO	0	C	M05-11111/1 E-2	1,2,7	
1VR007A	B	12	2	B	AO	0	C	M05-11111/1 B-6	1,2,7	
1VR007B	B	12	2	B	AO	0	C	M05-11111/1 B-7	1,2,7	
1VR016A	EFC	3/4	2	C	N/A	0	C	M10-11111/5	I	
1VR016B	EFC	3/4	2	C	N/A	0	C	M10-11111/5	I	
1VR018A	EFC	3/4	2	C	N/A	0	C	M10-11111/5	I	
1VR018B	EFC	3/4	2	C	N/A	0	C	M10-11111/5	I	
1VR035	Way ²	3/4	2	B	SO	0	C	M10-11111/19	I	See Relief Request 035
1VR036	Way ²	3/4	2	B	SO	0	C	M10-11111/19	I	See Relief Request 035
1VR040	Way ²	3/4	2	B	SO	0	C	M10-11111/19	I	See Relief Request 035
1VR041	Way ²	3/4	2	B	SO	0	C	M10-11111/19	I	See Relief Request 035

SYSTEM Chilled Water

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
1W0001A	G	6	2	B	MO	0	C	M05-1117/9 E-5	1,2	See Relief Request 021
1W0001B	G	6	2	B	MO	0	C	M05-1117/9 E-6	1,2	See Relief Request 021
1W0002A	G	6	2	B	MO	0	C	M05-1117/9 F-5	1,2	See Relief Request 021
1W0002B	G	6	2	B	MO	0	C	M05-1117/9 F-6	1,2	See Relief Request 021

SYSTEM Solid Radwaste

VALVE NUMBER	TYPE	SIZE	CLASS	CATEGORY	ACTUATOR	NORMAL POSITION	TEST POSITION	P&ID COORDINATES	METHOD OF TESTING	COMMENTS
1WX019	P	2	2	B	AO	O/C	C	M05-1089/2 E/F-6	1,2,7	
1WX020	P	2	2	B	AO	O/C	C	M05-1089/2 E/F-5	1,2,7	

Table 3/3-1

VALVES LOCKED IN POSITION

<u>Valve No.</u>	<u>Normal Position</u>	<u>P&ID Coordinates</u>
1B21-F011A	LO	M05-1004 C-7
1B21-F011B	LO	M05-1004 A-7
1B21-F380A	LO	M05-1002/1 C-2
1B21-F380B	LO	M05-1002/1 F-2
1B21-F380C	LO	M05-1002/1 A-2
1B21-F380D	LO	M05-1002/1 D-2
1B21-F384	LO	M05-1002/1 B-2
1B33-F029	LC	M05-1076/1 B-8
1B33-F030	LC	M05-1076/1 B-8
1B33-F051A	LC	M05-1072/1 R-7
1B33-F051B	LC	M05-1072/2 B-2
1B33-F052A	LC	M05-1072/1 B-7
1B33-F052B	LC	M05-1072/2 B-2
1B33-F310A	LO	M05-1072/1 C-7
1B33-F310B	LO	M05-1072/2 D/E-2
1B33-F311A	LO	M05-1072/1 C-3
1B33-F311B	LO	M05-1072/2 C-5
1B33-F312A	LO	M05-1072/1 C-2
1B33-F312B	LO	M05-1072/2 C-7
1CM019	LO	M05-1034/2 D-3
1CM029	LO	M05-1034/2 D-6

Table 3.3-1

<u>Valve No.</u>	<u>Normal Position</u>	<u>P&ID Coordinates</u>
1C11-F090A	LO	M10-1078/7
1C11-F090B	LO	M10-1078/7
1C11-F090C	LO	M10-1078/8
1C11-F090D	LO	M10-1078/8
1C11-F091A	LC	M10-1078/7
1C11-F091B	LC	M10-1078/7
1C11-F091C	LC	M10-1078/8
1C11-F091D	LC	M10-1078/8
1C11-F092A	LO	M10-1078/7
1C11-F092B	LO	M10-1078/7
1C11-F092C	LO	M10-1078/8
1C11-F092D	LO	M10-1078/8
1C11-F093A	LO	M10-1078/7
1C11-F093B	LO	M10-1078/8
1C11-F103A	LC	M10-1078/7
1C11-F103B	LC	M10-1078/8
1C11-F104A	LO	M10-1078/7
1C11-F104B	LO	M10-1078/8
1C11-F155A	(Later)	CLN-001
1C11-F155B	(Later)	CLN-001
1C11-F155C	(Later)	CLN-001
1C11-F155D	(Later)	CLN-001
1C11-F158A	(Later)	CLN-001
1C11-F158B	(Later)	CLN-001

Table 3.3-1

<u>Valve No.</u>	<u>Normal Position</u>	<u>P&ID Coordinates</u>
1C11-F158C	(Later)	CLN-001
1C11-F158D	(Later)	CLN-001
1C11-F344A	LC	M05-1078 C-5
1C11-F344B	LC	M05-1078 C-5
1C11-F344C	LC	M05-1078 C-5
1C11-F344D	LC	M05-1078 C-5
1C11-F344E	LC	M05-1078 C-5
1C11-F344F	LC	M05-1078 C-5
1C11-F344G	LC	M05-1078 C-5
1C11-F344H	LC	M05-1078 C-5
1C11-F345A	LC	M05-1078 C-5
1C11-F345B	LC	M05-1078 C-5
1C11-F345C	LC	M05-1078 C-5
1C11-F345D	LC	M05-1078 C-5
1C11-F345E	LC	M05-1078 C-5
1C11-F345F	LC	M05-1078 C-5
1C11-F345G	LC	M05-1078 C-5
1C11-G345H	LC	M05-1078 C-5
1C41-F002A	LO	M05-1077 C-5
1C41-F002B	LO	M05-1077 E-5
1C41-F003A	LO	M05-1077 C-4
1C41-F003B	LO	M05-1077 D-4
1C41-F008	LO	M05-1077 D-1

Table 3.3-1

<u>Valve No.</u>	<u>Normal Position</u>	<u>P&ID Coordinates</u>
1C41-F014	LC	M05-1077 F-6
1C41-F015	LC	M05-1077 C-6
1C41-F016	LC	M05-1077 F-4
1C41-F024	LC	M05-1077 B-4/5
1C41-F025	LC	M05-1077 B-5
1C41-F031	LC	M05-1077 F-5
1C41-F302	LC	M05-1077 B-6
1DO011A	LC	M05-1036/1 C-4
1DO011B	LC	M05-1036/1 C-8
1DO011C	LC	M05-1036/2 C-7
1DO013A	LO	M05-1036/1 C-3
1DO013B	LO	M05-1036/1 C-7
1DO013C	LO	M05-1036/2 B-6
1E12-F010	LO	M05-1075/1 C-2
1E12-F018A	LO	M05-1075/1 C-6
1E12-F018B	LO	M05-1075/2 B-3
1E12-F018C	LO	M05-1075/3 B-2
1E12-F020D	LC	M05 1075/1 B 5
1E12-F029A	LO	M05. 1075/1 C-8
1E12-F029B	LO	M05-1075/2 C-1
1E12-F029C	LO	M05-1075/3 C-1
1E12-F039A	LO	M05-1075/1 D-1

Table 3.3-1

<u>Valve No.</u>	<u>Normal Position</u>	<u>P&ID Coordinates</u>
1E12-F039B	LO	M05-1075/2 D-7
1E12-F039C	LO	M05-1075/3 E-7
1E12-F044A	LC	M05-1075/1 F-2
1E12-F044B	LC	M05-1075/2 F-6
1E12-F063A	LC	M05-1075/1 E-6
1E12-F063B	LC	M05-1075/2 F-4
1E12-F063C	LC	M05-1075/3 F-4
1E12-F066	LC	M05-1075/1 B-5
1E12-F067	LC	M05-1075/2 A-6
1E12-F071A	LC	M05-1075/1 A-6
1E12-F071B	LC	M05-1075/2 A-5
1E12-F072A	LC	M05-1075/1 A-8
1E12-F072B	LC	M05-1075/2 B-1
1E12-F080A	LC	M05-1075/4 A-3
1E12-F080B	LC	M05-1075/4 A-5
1E12-F081A	LC	M05-1075/4 A-3
1E12-F081B	LC	M05-1075/4 A-5
1E12-F082	LO	M05-1075/3 C-4
1E12-F083	LO	M05-1075/3 A-4
1E12-F085A	LO	M05-1075/1 B-8
1E12-F085B	LO	M05-1075/2 B-1
1E12-F085C	LO	M05-1075/3 E-1
1E12-F086	LC	M05-1075/2 C-4
1E12-F099	LC	M05-1075/1 D-6

Table 3.3-1

<u>Valve No.</u>	<u>Normal Position</u>	<u>P&ID Coordinates</u>
1E12-F102	LO	M05-1075/4 B-8
1E12-F302	LC	M05-1075/4 D-7
1E12-F304A	LO	M05-1075/1 A-4
1E12-F304B	LO	M05-1075/2 A-6
1E12-F304C	LO	M05-1075/3 B-6
1E12-F318	LO	M05-1075/3 E-2
1E12-F333A	LC	M05-1075/1 D-5
1E12-F333B	LC	M05-1075/2 F-5
1E12-F395	LC	M05-1075/3 B-2/3
1E21-F004	LC	M05-1073 D-6
1E21-F007	LO	M05-1073 E-2
1E21-F008	LO	M05-1073 A-4
1E21-F025	LC	M05-1073 E-4
1E21-F032	LO	M05-1073 B-7
1E21-F034	LO	M05-1073 D-6
1E21-F301	LO	M05-1073 B-4
1E21-F302	LO	M05-1073 D-6
1E21-F309	LO	M05-1073 E-6
1E21-F310	LC	M05-1073 A-6
1E21-F311	LC	M05-1073 A-6
1E21-F312	LC	M05-1073 A-7
1E21-F341	LO	M05-1073 E-2
1E21-F343	LO	M05-1073 B-5

Table 3.3-1

<u>Valve No.</u>	<u>Normal Position</u>	<u>P&ID Coordinates</u>
1E21-F348	LC	M05-1073 B-5
1E22-F003	LC	M05-1074 F-6
1E22-F006	LO	M05-1074 D-4
1E22-F019	LO	M05-1074 C-6
1E22-F026	LC	M05-1074 D-3
1E22-F031	LC	M05-1074 F-6
1E22-F033	LO	M05-1074 C-4
1E22-F034	LO	M05-1074 C-5
1E22-F036	LO	M05-1074 E-8
1E22-F301	LO	M05-1074 E-4
1E22-F314	LO	M05-1074 B-7
1E22-F318	LO	M05-1074 A-8
1E22-F351	LC	M05-1074 C-4
1E32-F012	LO	M05-1070 F-5
1E32-F013	LO	M05-1070 C-2
1E51-F060	LO	M05-1079/2 B-6
1E51-F062	LO	M05-1079/2 B-4
1E51-F067	LO	M05-1079/2 B-5
1E51-F301	LO	M05-1079/2 A-7
1E51-F320	LO	M05-1079/2 B-6
1E51-F332	LO	M05-1079/1 F-7
1E51-F334	LO	M05-1079/2 F-8

Table 3.3-1

<u>Valve No.</u>	<u>Normal Position</u>	<u>P&ID Coordinates</u>
1E51-F372	LO	M05-1079/2 C-6
1E51-F373	LO	M05-1079/2 C-6
1FC002	LC	M05-1037/2 B-3
1FC003A	LC	M05-1037/1 D/E-5
1FC003B	LC	M05-1037/1 B-6
1FC086A	LC	M05-1037/1 E-2/3
1FC086B	LC	M05-1037/1 B-2
1FC090	LC	M05-1037/3 D-1
1FC139	LC	M05-1037/1 B-2
1G33-F005A	LC	M05-1076/4 B-3/4
1G33-F005B	LC	M05-1076/4 C-3/4
1G33-G005C	LC	M05-1076/4 D/E-3/4
1G33-F013A	LC	M05-1076/4 B-1
1G33-F013B	LO	M05-1076/4 C-1
1G33-F013C	LO	M05-1076/4 D/E-1
1G33-F032	LO	M05-1076/4 E-4
1G33-F043A	LC	M05-1076/4 B-4
1G33-F043B	LO	M05-1076/4 C-4
1G33-F043C	LO	M05-1076/4 D/E-4
1G33-F103	LO	M05-1076/1 B-8
1G33-F105A	LO	M05-1076/1 D-3
1G33-F105B	LC	M05-1076/1 B-3

Table 3.3-1

<u>Valve No.</u>	<u>Normal Position</u>	<u>P&ID Coordinates</u>
1G33-F303A	LO	M05-1076/1 D-6
1G33-F303B	LC	M05-1076/1 C-6
1G33-F304A	LO	M05-1076/1 D-4/5
1G33-F304B	LC	M05-1076/1 C-4/5
1G33-F311A	LO	M05-1076/1 D-7
1G33-F311B	LO	M05-1076/1 D-7
1G33-F313	LO	M05-1076/1 B-7
1G33-F315	LO	M05-1075/1 C-7
1G33-F324	LO	M05-1076/1 B-7
1G33-F342A	LO	M05-1076/4 D-5
1G33-F342B	LO	M05-1076/4 D-5
1HG002	LO	M05-1063 C-2
1HG003	LO	M05-1063 C-2
1HG006	LO	M05-1063 C-7
1HG007	LO	M05-1063 C-7
1HG012	LO	M05-1063 D-3
1HG013	LO	M05-1063 C/D-3
1HG014	LO	M05-1063 E-3
1HG015	LO	M05-1063 E-3
2HG002	LC	M05-1063 C-2
2HG003	LC	M05-1063 C-2
2HG006	LC	M05-2063 C-7
2HG007	LC	M05-1063 C-

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 001

I. Component Identification:

- A. Name: Feedwater Supply Check Valves

- B. Number: 1B21-F010A, 1B21-F010B, 1B21-F032A, 1B21-F032B

- C. Function: Prevent back flow of feedwater from Reactor

- D. ASME Section III Code Class: 1

- E. ASME Section XI Valve Category: A/C

II. Relief from:

- A. ASME Code Requirement: IWV-3410, 3520; Exercise valves every three (3) months.

- B. Reason for Relief: Exercising these valves would interrupt flow to the Reactor, failure of the valve to open would severely affect plant operation.

- C. Alternate In-Service Test: Exercise valve for operability during cold shutdown or refueling outages.

TABLE 3.3-1
Pre-Service Testing of Valves
Relief Request 002

DELETED

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 003

I. Component Identification:

- A. Name: Vacuum Relief Valves
- B. Number: 1B21-F037A-H,J-N,P,R,S, 1B21F078A-H,J-N,P,R,S
1B21F379A-H,J-N,P,Q,R, and 1B21-F040
- C. Function: Prevent drawing vacuum in safety relief valve
discharge and vent lines following relief valve operation.
- D. ASME Section III Code Class: 3
- E. ASME Section XI Valve Category: C

II. Relief from:

- A. ASME Code Requirement: IWC-3520 Exercise Valves
every three (3) months.
- B. Reason for Relief: Valves are located inside the drywell
and are inaccessible during normal plant operations.
- C. Alternate In-Service Test: Exercise valve for operability
during cold shutdown or refueling outages.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 004

I. Component Identification:

- A. Name: Feedwater RPV Inlet Isolation

- B. Number: 1B21-F065A,B

- C. Function: Isolation RPV from the feedwater system

- D. ASME Section III Code Class: 2

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3410, Exercise valve every
three (3) months

- B. Reason for Relief: Exercising these valves during operation
would severely affect plant operation by interrupting flow of
feedwater to RPV.

- C. Alternate In-Service Test: Exercise valve for operability
during cold shutdowns or refueling outages.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 005

I. Component Identification:

- A. Name: Main Steam Line Isolation Valves

- B. Number: 1B21-F098A,B,C,D

- C. Function: Isolate Main Steam Lines from the Turbine
Building

- D. ASME Section III Code Class: 2

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3410 exercise valve every three
(3) months

- B. Reason for Relief: Valve cannot be exercised during normal
plant operation without curtailing flow to the main turbine
and effecting plant operation

- C. Alternate In-Service Test: Exercise valve for operability
during cold shutdowns or refueling outages.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 006

I. Component Identification:

- A. Name: Reactor Recirc Pump Isolation Valves

- B. Number: 1B33-F022A,B; and 1B33-F067A,B

- C. Function: Reactor Recirc Pump Suction, and discharge
isolation valves.

- D. ASME Section III Code Class: 1

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3410 Valve Exercising Test

- B. Reason for Relief: These valves are not required to change
position during normal plant operation. To cycle them would
severly affect plant operation.

- C. Alternate In-Service Test: Exercise valves for operability
during cold shutdowns or refueling outages.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 007

I. Component Identification:

- A. Name: Reactor Recirc Pump Seal Flow Control Valve

- B. Number: 1B33-F075 A & B

- C. Function: Control cooling flow to Reactor Recirc Pump
Mechanical Seals

- D. ASME Section III Code Class: _____ 3 _____
- E. ASME Section XI Valve Category: _____ B _____

II. Relief from:

- A. ASME Code Requirement: IWV-3410 Valve Exercising Test

- B. Reason for Relief: This valve is normally open during
plant operation. To cycle this valve would interrupt
cooling flow to the recirc pump seal and increase the
possibility of thermal damage to the seal.

- C. Alternate In-Service Test: Cycle valves during recirc
loop ΔT determination during each pump start.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 008

I. Component Identification:

- A. Name: CRD Pump Discharge Isolation Valve

- B. Number: 1C11-F083

- C. Function: Containment isolation.

- D. ASME Section III Code Class: 2

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3410 Exercise valve every 3
months
- B. Reason for Relief: Testing this valve requires that the
CRD System be shutdown, which renders rod motion inoperative
and stops seal flow to the recirculation pumps.
- C. Alternate In-Service Test: Cycle valve during extended cold
shutdown or refueling outage.

TABLE 3.3-1
Pre-Service Testing of Valves
Relief Request 009

DELETED

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 010

I. Component Identification:

- A. Name: CRD Drive Water Header Check Valve

- B. Number: 1C11-F122

- C. Function: Containment Isolation and prevent back flow of reactor water when CRD pumps are secured.

- D. ASME Section III Code Class: 2

- E. ASME Section XI Valve Category: C

II. Relief from:

- A. ASME Code Requirement: IWV-3520 Exercise valve every 3 months

- B. Reason for Relief: Testing this valve requires that the CRD system be shutdown, thus rendering rod motion inoperative and stopping seal flow to the recirculation pumps.

- C. Alternate In-Service Test: Operability of valve shall be confirmed during local leak rate testing

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 011

I. Component Identification:

- A. Name: Drywell Isolation Check Valves

- B. Number: 1C41-F006 and 1C41-F007

- C. Function: Prevent back flow of reactor water into the
standby liquid control system and provide drywell isolation.

- D. ASME Section III Code Class: 1

- E. ASME Section XI Valve Category: C

II. Relief from:

- A. ASME Code Requirement: IWV-3520 Exercise valve every 3
months.

- B. Reason for Relief: Valve is held close by reactor pressure
and can not be reopened during plant operation.

- C. Alternate In-Service Test: Test valve during extended cold
shutdown or refueling outage.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 012

I. Component Identification:

- A. Name: Recirc Loops A & B Suction to RHR

- B. Number: 1E12F008 and 1E12-F009

- C. Function: Shutdown cooling mode outboard and inboard
isolation valves to the RHR System

- D. ASME Section III Code Class: 1

- E. ASME Section XI Valve Category: A

II. Relief from:

- A. ASME Code Requirement: IWV-3410 Exercise Valve Every Three
(3) Months

- B. Reason for Relief: Valves are interlocked closed above 135
psig Reactor Pressure and can not be tested while the plant
is at power.

- C. Alternate In-Service Test: Exercise valve for operability
during cold shutdowns or refueling outages

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 013

I. Component Identification:

- A. Name: RHR B Supply To Reactor Head Spray

- B. Number: 1E12-F023

- C. Function: Shutdown cooling mode of RHR supply to head
spray

- D. ASME Section III Code Class: 1

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3410 Exercise valve every three
(3) months.

- B. Reason for Relief: Valve is interlocked closed above 135
psig Reactor Pressure and can not be tested while the plant
is at power.

- C. Alternate In-Service Test: Exercise valve for operability
during cold shutdowns or refueling outages.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 014

I. Component Identification:

- A. Name: RHR Loops A & B Shutdown Cooling Return

- B. Number: 1E12-F037A, 1E12-F037B, 1E12-F053A, and 1E12-F053B

- C. Function: Shutdown cooling return to containment pool and
to feedwater respectively.

- D. ASME Section III Code Class: 2

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-2410 Exercise valve every three
(3) months.

- B. Reason for Relief: Valves are interlocked closed above 135
psig Reactor Pressure and can not be tested while the plant
is at power.

- C. Alternate In-Service Test: Exercise valves for operability
during cold shutdowns or refueling outages.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 015

I. Component Identification:

- A. Name: Air supply check valves

- B. Number: 1B21-F024A-D, 1B21-F029A-D, and 1B21-F433A/B

- C. Function: Prevent back flow of instrument air from valve actuators

- D. ASME Section III Code Class: 3

- E. ASME Section XI Valve Category: C

II. Relief from:

- A. ASME Code Requirement: IWV-3520 Exercise valves every (3) months.

- B. Reason for Relief: Exercising these valves requires isolating major Main Steam and Feedwater valves from their source of air to their actuators. Valves are also located in a high radiation area.

- C. Alternate In-Service Test: Cycle valves during extended cold shutdown or refueling outage.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 016

I. Component Identification:

- A. Name: Air supply check valves
- B. Number: 1B21-F036A,F,G,J,L,M,N,P,R and 1B21-F039B,C,D,E,H,
J,K
- C. Function: Prevent back flow of instrument air from valve
actuators.
- D. ASME Section III Code Class: 3
- E. ASME Section XI Valve Category: C

II. Relief from:

- A. ASME Code Requirement: IWV-3520 Exercise valves every 3
months.
- B. Reason for Relief: Exercising these valves requires
isolating the Safety Relief Valves (SRV's) from their source
of air to their actuators. Valves are also located in a
high radiation area.
- C. Alternate In-Service Test: Cycle valves during extended
cold shutdown or refueling outage.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 017

I. Component Identification:

- A. Name: Fuel Pool Emergency Makeup

- B. Number: 1SX016A,B

- C. Function: Provide Emergency Makeup Water to the Fuel Pools
from the lake

- D. ASME Section III Code Class: 3

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3520 Exercise Valve every three
(3) months

- B. Reason for Relief: Testing these valves will allow lake
water into the fuel pools

- C. Alternate In-Service Test: Exercise valves every 18 months

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 018

I. Component Identification:

- A. Name: Reactor recirc pump seal supply check valves

- B. Number: 1B33-F013A, 1B33-F013B, 1B33-F017A and 1B33-F017B

- C. Function: Prevent back flow of CRD Seal Purge from Recirc
Pump Seals

- D. ASME Section III Code Class: 2

- E. ASME Section XI Valve Category: C

II. Relief from:

- A. ASME Code Requirement: IWV-3520 Check valve tests.

- B. Reason for Relief: Exercising these valves would
eliminate purge flow to the Reactor Recirc Pump seals which
could damage the seals.

- C. Alternate In-Service Test: Exercise valves during cold
shutdowns or refueling outages.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 019

I. Component Identification:

- A. Name: Component cooling containment/drywell isolation valves.
- B. Number: 1CC-049, 1CC-050, 1CC-053, 1CC-054, 1CC-057, 1CC-060, 1CC-127, 1CC-128
- C. Function: Isolate component cooling system supply and return to containment.
- D. ASME Section III Code Class: 2
- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3410 Valve exercising test.
- B. Reason for Relief: These valves are normally open during plant operation. Exercising these valves would eliminate cooling water to the NRHX's and the Reactor Recirc Pump.
- C. Alternate In-Service Test: Exercise these valves during cold shutdown or refueling outages.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 020

I. Component Identification:

- A. Name: Area Cooler Outlet Valves

- B. Number: See Table 20-1

- C. Function: Isolate shutdown service water flow through area coolers

- D. ASME Section III Code Class: 3

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3410(c), Stroke Time Power Operated Valves

- B. Reason for Relief: These valves are not required to open within a specified time range. They are interlocked with the room fans to open when ambient temperature becomes too high.

- C. Alternate In-Service Test: Exercise valves for operability every 3 months.

TABLE 20-1

<u>Valve</u>	<u>Size</u>
1SX010A	2
1SX010B	2
1SX010C	1½
1SX023A	2
1SX023B	2
1SX025A	3
1SX025B	4
1SX025C	3
1SX027A	2
1SX027B	2½
1SX027C	2½
1SX029A	1½
1SX029B	1½
1SX029C	1½
1SX033	2
1SX037	1½
1SX041A	2
1SX041B	2
1SX181A	2½
1SX181B	2½
1SX185A	2½
1SX185B	2½
1SX189	2½
1SX193A	1½
1SX193B	1½
1SX197	2
1SX209	1½

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 021

I. Component Identification:

- A. Name: Chilled water supply/return containment isolation valves
- B. Number: 1WO-001B, 1WO-002B, 1WO001A, 1WO-002A
- C. Function: Isolate the chilled water system from the steam tunnel area coolers, RWCU regen and non-regen hx air handling units, and the containment bldg. air handling units
- D. ASME Section III Code Class: 2
- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3410 Category A&B valves shall be exercised at least once every 3 months.
- B. Reason for Relief: Prevent losing chilled water to certain air handling units that are important while the plant is operating. To lose chill water could cause a high temperature initiated containment isolation.
- C. Alternate In-Service Test: Perform exercising during refueling outage or an extended cold shutdown.
- _____
- _____
- _____

TABLE 3.3-1
Preserivce Testing Of Valves
Relief Request 022

DELETED

TABLE 3.3-1
Preserivce Testing Of Valves
Relief Request 023

DELETED

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 024

I. Component Identification:

- A. Name: Instrument Air Containment Isolation Valves

- B. Number: 1IA-005, 1IA-006, 1IA-007, 1IA-008

- C. Function: Isolate instrument air from the containment

- D. ASME Section III Code Class: 2

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3410 Valve exercising test.

- B. Reason for Relief: Stroke and time these valves would
isolate control air to the containment

- C. Alternate In-Service Test: Stroke and time these valves
during cold shutdown or refuel outages

TABLE 3.3-1
Preserivce Testing Of Valves
Relief Request 025

DELETED

TABLE 3.3-1
Preserivce Testing Of Valves
Relief Request 026

DELETED

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 027

I. Component Identification:

- A. Name: Breathing Air Isolation Valves

- B. Number: ORA-026, ORA-027, ORA-028, ORA-029

- C. Function: Containment and Drywell Breathing Air Isolation Valves

- D. ASME Section III Code Class: 2

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3410 Valve Exercising Test

- B. Reason for Relief: These valves are normally open and supply breathing air ring headers inside containment. These valves are 1" solenoid operated valves and timing them is not practical due to their rapid movement.

- C. Alternate In-Service Test: Fully Stroke These Valves every 3 months.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 028

I. Component Identification:

- A. Name: Compressed Air Supply Containment Isolation Valves

- B. Number: 1IA-012A, B and 1IA013A, B

- C. Function: Isolation valves for ADS Division 1 and 2
operating air

- D. ASME Section III Code Class: 2

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3410 Stroke time and exercise
valve every 3 months.

- B. Reason for Relief: Failure of valve to return to original
position would cause a loss of operating air to SRV's

- C. Alternate In-Service Test: Exercise and stroke time valves
during extended cold shutdowns and refueling outages.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 029

I. Component Identification:

- A. Name: SRV Instrument Air Supply Check Valves

- B. Number: 1IA-042A,B; 1IA-043A,B; 1IA-076A,B

- C. Function: Prevent back flow of operating air to ADS
valves and non-ADS valves

- D. ASME Section III Code Class: 042A,B-2; 043 & 076-3

- E. ASME Section XI Valve Category: C

II. Relief from:

- A. ASME Code Requirement: IWV-3520 Exercise Valve every 3
months.

- B. Reason for Relief: Failure of valves to close could cause
a loss of operating air to SRV's

- C. Alternate In-Service Test: Exercise valves for Operability
during extended cold shutdowns or refueling outages.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 030

I. Component Identification:

- A. Name: FPCC HX Backup cooling water isolation valves

- B. Number: 1SX012A, B and 1SX062A, B

- C. Function: Isolates the FPCC heat exchangers from its
backup cooling water supplied from the lake.

- D. ASME Section III Code Class: 3

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3410 requires exercising every
3 months.

- B. Reason for Relief: After valves are stroked, the heat
exchangers must be flushed and sampled to ensure the normal
cooling water does not become contaminated by the lake
water.

- C. Alternate In-Service Test: Exercise and time the valves
every 18 months

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 031

I. Component Identification:

- A. Name: Charcoal bed deluge check valves

- B. Number: 1SX072A, B; 1SX075A, B; 1SX106A,B

- C. Function: Prevent back flow from the charcoal bed deluge systems.

- D. ASME Section III Code Class: 3

- E. ASME Section XI Valve Category: C

II. Relief from:

- A. ASME Code Requirement: IWV-3520(a) requires exercising valves every 3 months.

- B. Reason for Relief: Failure of these valves will not have an adverse effect on our ability to maintain the plant in cold shutdown or mitigate the consequences of an accident.

- C. Alternate In-Service Test: No alternate tests

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 032

I. Component Identification:

- A. Name: Containment Monitoring Containment Isolation Valves

- B. Number: See Table 32-1

- C. Function: Isolate the containment monitoring system from
the containment

- D. ASME Section III Code Class: 2

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3410 Valve Exercising Test

- B. Reason for Relief: These valves perform only a containment
isolation function and do not service as a reactor coolant
boundary. The speed at which these air operated valves
close does not influence the mitigation of an accident.

- C. Alternate In-Service Test: Fully stroke these valves every
3 months.

TABLE 3.3-1

Preservice Testing Of Valves

TABLE 32-1

<u>Valve</u>	<u>Size</u>
1CM011	3/4
1CM012	3/4
1CM014	1/2
1CM015	1/2
1CM016	1/2
1CM017	1/2
1CM018	1/2
1CM022	3/4
1CM023	3/4
1CM025	3/4
1CM026	3/4
1CM028	1/2
1CM031	1/2
1CM032	1/2
1CM033	1/2
1CM034	1/2
1CM047	3/4
1CM048	3/4

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 033

I. Component Identification:

- A. Name: Leakage Detection Containment Isolation Valves

- B. Number: 1E31-F014, F015, F017, F018

- C. Function: Isolate the leakage detection system from the
containment

- D. ASME Section III Code Class: 2

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3410 Valve Exercising Test

- B. Reason for Relief: These valves perform only a containment
isolation function and do not service as a reactor coolant
boundary. Timing these solenoid operated valves is not
practical due to their rapid movement.

- C. Alternate In-Service Test: Fully stroke these valves
every 3 months.

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 034

I. Component Identification:

- A. Name: Process Sampling Containment Isolation Valves

- B. Number: See Table 34-1

- C. Function: Isolate the process sampling system from the
containment.

- D. ASME Section III Code Class: 2

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: WIV-3410 Valve Exercising Test

- B. Reason for Relief: These valves perform only a containment
isolation function and do not serve as a reactor coolant
boundary. The speed at which these air operated valves
close does not influence the mitigation of an accident.

- C. Alternate In-Service Test: Verify valve position before
and after each operation.

TABLE 3.3-1

Pre-Service Testing of Valves

TABLE 34-1

<u>Valve</u>	<u>Size</u>
1PS004	3/4
1PS005	3/4
1PS009	3/4
1PS010	3/4
1PS016	1/2
1PS017	1/2
1PS022	1/2
1PS023	1/2
1PS031	3/4
1SP032	3/4
1PS034	3/4
1PS035	3/4
1PS037	3/4
1PS038	3/4
1PS043A	3/4
1PS043B	3/4
1PS044A	3/4
1PS044B	3/4
1PS047	3/4
1PS048	3/4
1PS055	1/2
1PS056	1/2
1PS069	1/2
1PS070	1/2

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 035

I. Component Identification:

- A. Name: Containment Ventilation Containment Isolation Valves

- B. Number: 1VR035, 1VR036, 1VR040, 1VR041

- C. Function: Isolate the containment ventilation system from
the containment.

- D. ASME Section III Code Class: 2

- E. ASME Section XI Valve Category: B

II. Relief from:

- A. ASME Code Requirement: IWV-3410 Valve Exercising Test

- B. Reason for Relief: These valves perform only a containment
isolation function and do not service as a reactor coolant
boundary. Timing these solenoid operated valves is not
Practical due to their rapid movement.

- C. Alternate In-Service Test: Fully stroke these valves every
3 months.

TABLE 3.3-1
Pre-Service Testing of Valves
Relief Request 100
DELETED

TABLE 3.3-1
PRE-SERVICE TESTING OF VALVES
RELIEF REQUEST 200

I. Component Identification:

- A. Name: Valves in Regular Use

- B. Number: See Table 200-1

- C. Function: See Table 200-1

- D. ASME Section III Code Class: See Table 200-1

- E. ASME Section XI Valve Category: See Table 200-1

II. Relief from:

- A. ASME Code Requirement: IWV-3000

- B. Reason for Relief: These valves will not receive ISI during operation. Their proper operation can be verified by proper system operation.

- C. Alternate In-Service Test: No alternate tests.

TABLE 200-1

<u>VALVE</u>	<u>CLASS</u>	<u>CATEGORY</u>	<u>FUNCTION</u>
1G36-F001A	3	B	Inlet isolation to filter demineralizer
1G36-F001B	3	B	Inlet isolation to filter demineralizer
1G36-F002A	3	B	Inlet isolation to filter demineralizer
1G36-F002B	3	B	Inlet isolation to filter demineralizer
1G36-F003A	3	B	Outlet isolation from filter demineralizer
1G36-F003B	3	B	Outlet isolation from filter demineralizer
1G36-F004A	3	B	Outlet isolation from filter demineralizer
1G36-F004B	3	B	Outlet isolation from filter demineralizer
1G36-F005A	3	B	Isolation between precoat pump and demin inlet
1G36-F005B	3	B	Isolation between precoat pump and demin inlet
1G36-F006A	3	B	Isolation between precoat pump and demin inlet
1G36-F006B	3	B	Isolation between precoat pump and demin inlet
1G36-F007A	3	B	Isolation between demin outlet and precoat tank
1G36-F007B	3	B	Isolation between demin outlet and precoat tank
1G36-F008A	3	B	Isolation between demin outlet and precoat tank
1G36-F008B	3	B	Isolation between demin outlet and precoat tank

TABLE 200-1

<u>VALVE</u>	<u>CLASS</u>	<u>CATEGORY</u>	<u>FUNCTION</u>
1G36-F009A	3	B	Isolation between demin and backwash receiving tank
1G36-F009A	3	B	Isolation between demin and backwash receiving tank
1G36-F010A	3	B	Isolation between demin and backwash receiving tank
1G36-F010A	3	B	Isolation between demin and backwash receiving tank
1G36-F011A	3	B	Isolation between demin and backwash receiving tank
1G36-F011A	3	B	Isolation between demin and backwash receiving tank
1G36-F012A	3	B	Isolation between demin and backwash receiving tank
1G36-F012A	3	B	Isolation between demin and backwash receiving tank
1G36-F013A	3	B	Isolation between demin and SA/ backwash receiving tank
1G36-F013B	3	B	Isolation between demin and SA/ backwash receiving tank
1G36-F014A	3	B	Isolation between SA and filter demin
1G36-F014B	3	B	Isolation between SA and filter demin
1G36-F015A	3	B	Isolation between SA/demin and backwash receiving tank
1G36-F015B	3	B	Isolation between SA/demin and backwash receiving tank
1G36-F016A	3	B	Isolation between holding pump and demin
1G36-F016B	3	B	Isolation between holding pump and demin

TABLE 200-1

<u>VALVE</u>	<u>CLASS</u>	<u>CATEGORY</u>	<u>FUNCTION</u>
1G36-F069A	3	C	Prevent backflow to holding pump
1G36-F069A	3	C	Prevent backflow to holding pump
1D0001A	3	C	Prevent backflow to diesel oil transfer pump "A"
1D0001B	3	C	Prevent backflow to diesel oil transfer pump "A"
1D0001B	3	C	Prevent backflow to diesel oil transfer pump "A"
1FC011A	3	B	Suction isolation for FPC&C pump "A"
1FC011B	3	B	Suction isolation for FPC&C pump "B"
1FC013A	3	C	Prevent backflow to FPC&C pump "A"
1FC013B	3	C	Prevent backflow to FPC&C pump "B"
1FC015A	3	B	Inlet isolation for FPC&C HX "A"
1FC015B	3	B	Inlet isolation for FPC&C HX "B"
1FC018A	3	C	Prevent backflow thru RPV pool diffuser
1FC018B	3	C	Prevent backflow thru RPV pool diffuser
1FC020A	3	C	Prevent backflow thru RPV pool diffuser
1FC020B	3	C	Prevent backflow thru RPV pool diffuser
1FC022A	3	C	Prevent backflow thru transfer pool diffuser
1FC022B	3	C	Prevent backflow thru transfer pool diffuser

TABLE 200-1

<u>VALVE</u>	<u>CLASS</u>	<u>CATEGORY</u>	<u>FUNCTION</u>
1FC026A	3	B	Outlet isolation for RPC&C HX "A"
1FC026B	3	B	Outlet isolation for RPC&C HX "B"
1FC073	3	C	Prevent backflow thru fuel transfer pool diffuser
1FC075A	3	C	Prevent backflow thru spent fuel pool diffuser
1FC075B	3	C	Prevent backflow thru spent fuel pool diffuser
1FC077	3	C	Prevent backflow thru cask storage pool diffuser
1FC096	3	C	Prevent backflow thru spent fuel pool diffuser
1B33-F060A	1	B	Control flow of reactor recirc water
1B33-F060B	1	B	Control flow of reactor recirc water

TABLE 4-1
PRE-SERVICE TESTING OF PUMPS

SYSTEM: RESIDUAL HEAT REMOVAL. - 1E22 CLASS 2

PUMP NO.	SERVICE	P&ID NO.	COORDINATES	SPEED	INLET PRESS.	DIFF. PRESS.	FLOW RATE	VIBRATION	LUB LEVEL OR PRESS	BEARING TEMP.	TEST-ABLE		TEST-ABLE		REMARKS
											STATUS	TEST-ABLE	STATUS	TEST-ABLE	
C002A	RHR	M05-1075 SH1	A-7	E,1	X	YES	X	YES	X	YES,2	E,3	NA	E,4	NA	NONE
C002B	RHR	M05-1075 SH2	A-3	E,1	X	YES	X	YES	X	YES,2	E,3	NA	E,4	NA	NONE
C002C	KHR	M05-1075 SH3	B-3	E,1	X	YES	X	YES	X	YES,2	E,3	NA	E,4	NA	NONE
C002B	RHR WATER Leg	M05-1075 SH3	C-3	E,1	X	YES	X	YES	X	YES,2	I LEVEL	YES	E,4	NA	NONE

TABLE 4-1
PRE-SERVICE TESTING OF PUMPS

SYSTEM: HIGH PRESSURE CORE SPRAY - 1E22 CLASS 2

PUMP NO.	SERVICE	P&ID	COORDI- NATES	SPEED	INLET PRESS.	DIFF. PRESS.	FLOW RATE	VIBRATION	LUB LEVEL OR PRESS	BEARING TEMP.	TEST-ABLE		TEST-ABLE		TEST-ABLE		REMARKS	
											STATUS	TEST-ABLE	STATUS	TEST-ABLE	STATUS	TEST-ABLE		STATUS
C001	HPCS	M05-1074	B-3	E,1	NA	X	YES	X	YES	X	YES	X	YES	E,3	NA	E,4	NA	NONE
C003	HPCS Water leg	M05-1074	C-5	E,1	NA	X	YES	X	YES	X	YES	X	YES,2	LEVEL	YES	E,4	NA	NONE

TABLE 4-1
PRE-SERVICE TESTING OF PUMPS

SYSTEM: LOW PRESSURE CORE SPRAY - 1E21 CLASS 2

PUMP NO.	SERVICE	PART	COORDI- NATES	SPEED	INLET PRESS.	DIFF. PRESS.	FLOW RATE	VIBRATION	LUB LEVEL OR PRESS	BEARING TEMP.	TEST-ABLE		TEST-ABLE		TEST-ABLE		REMARKS	
											STATUS	TEST-ABLE	STATUS	TEST-ABLE	STATUS	TEST-ABLE		STATUS
C001	LPCS	M05-1073	E-7	E,1	NA	X	YES	X	YES	X	YES	X	YES,2	E,3	NA	E,4	NA	NONE
C003	LPCS Meter leg	M05-1073	B-7	E,1	NA	X	YES	X	YES	X	YES	X	YES,2	LEVEL	YES	E,4	NA	NONE

TABLE 4-1
PRE-SERVICE TESTING OF PUMPS

SYSTEM: REACTOR CORE ISOLATION COOLING - 1F51 CLASS 2

PUMP NA.	SERVICE	P&ID	COORDI- NATES	SPEED	INLET PRESS.	DIFF. PRESS.	FLOW RATE	VIBRATION	LUB LEVEL OR PRESS	BEARING TEMP.	TEST-ABLE		TEST-ABLE		TEST-ABLE		REMARKS	
											STATUS	TEST-ABLE	STATUS	TEST-ABLE	STATUS	TEST-ABLE		STATUS
C001	RCIC	M05-1079	E-1	E,1	NA	X	YES	X	YES	X	YES	X	YES	E,3	NA	E,4	NA	NONE
		SH-2																
C003	RCIC Water leg	M05-1079	B-5	E,1	NA	X	YES	X	YES	X	YES	X	YES	LEVEL	YES	E,4	NA	NONE
		SH-2																

TABLE 4-1
PRE-SERVICE TESTING OF PUMPS

SYSTEM: STANDBY LIQUID CONTROL - IC41 CLASS 2

PUMP NA.	SERVICE	P&ID	COORDI- NATES	SPEED	INLET PRESS.	DIFF. PRESS.	FLOW RATE	VIBRATION	LUB LEVEL OR PRESS	TEST-ABLE		TEST-ABLE		REMARKS
										STATUS	TEST-ABLE	STATUS	TEST-ABLE	
C001A	SIC	M05-1077 SH-2	C-5	E,1	NA	X	YES	X	YES,2	E,3	NA	E,4	NA	NONE
C001B	SIC	M05-1077 SH-2	D-5	E,1	NA	X	YES	X	YES,2	E,3	NA	E,4	NA	NONE

TABLE 4-1
PRE-SERVICE TESTING OF PUMPS

SYSTEM: DIESEL GENERATOR FUEL OIL - 1D0 CLASS 3

PUMP NA.	SERVICE	P&ID	COORDI- NATES	SPFED	INLET PRESS.	DIFF. PRESS.	FLOW RATE	VIBRATION	LUB LEVEL OR PRESS	BEARING TEMP.	REMARKS			
				STATUS TEST- ABLE	STATUS TEST- ABLE	STATUS TEST- ABLE	STATUS TEST- ABLE	STATUS TEST- ABLE	STATUS TEST- ABLE	STATUS TEST- ABLE	STATUS TEST- ABLE			
01PA	DO	M05-1036 SH-1	B-1	E,1 NA	X	YES	X	YES	X	YES,2	E,3 NA	E,4 NA	NA	NONE
01PB	DO	M05-1036 SH-1	B-6	E,1 NA	X	YES	X	YES	X	YES,2	E,3 NA	E,4 NA	NA	NONE
01PC	DO	M05-1036 SH-2	B-4	E,1 NA	X	YES	X	YES	X	YES,2	E,3 NA	E,4 NA	NA	NONE

TABLE 4-1

Pre-Service Testing of Pumps

LEGEND

E - Exempt

NA - Not Applicable

X - Testing Required

NOTE

- 1 - Constant speed motors exempt from speed test (IWP-4400)
- 2 - No instrumentation installed. Use portable contact type instrument.
- 3 - Bearings are lubricated by pump discharge no measurement necessary.
- 4 - See relief request no. 001
- 5 - See relief request no. 002
- 6 - See relief request no. 003
- 7 - See relief request no. 004

TABLE 4
PRE-SERVICE TESTING OF PUMPS
RELIEF REQUEST 001

I. Component Identification:

- A. Name: All pumps listed in Table 1

- B. Number: See Table 1

- C. Function: Safely shutdown the reactor or mitigate the consequences of an accident.

- D. ASME Section III Code Class: See Table 1

- E. ASME Section XI Valve Category: Not Applicable

II. Relief from:

- A. ASME Code Requirement: IWP-4310 Bearing Temperature

- B. Reason for Relief: The measurement of annual pump bearing temperature does not increase any confidence in the reliability of the pumps because bearing temperature rises just minutes prior to failure of the pump. Therefore measurement of annual pump bearing temperature as required by the code will not be recorded.

- C. Alternate In-Service Test: None

TABLE 4
PRE-SERVICE TESTING OF PUMPS
RELIEF REQUEST 002

I. Component Identification:

- A. Name: Shutdown Service Water Pumps 1A, 1B, and 1C

- B. Number: 1SX01PA, 1SX01PB, & 1SX01PC

- C. Function: Shutdown Service Water Pumps provide a reliable source of cooling water for station auxiliaries which are essential to shutdown the reactor safely following the unlikely event of a LOCA or a complete loss of offsite AC Power.

- D. ASME Section III Code Class: 3

- E. ASME Section XI Valve Category: Not Applicable

II. Relief from:

- A. ASME Code Requirement: IWP-4200 Inlet Pressure

- B. Reason for Relief: The suction is taken directly from the lake. Suction pressure is depend upon the lake level and varies approximately 0.43 psi per foot of the lake level and lake level would be approximately constant throughout the year.

- C. Alternate In-Service Test: - None -

TABLE 4-1
PRE-SERVICE TESTING OF PUMPS
RELIEF REQUEST 003

I. Component Identification:

- A. Name: Standby Liquid Control pump 1A & 1B
- B. Number: 1C41-C001A & 1C41-C001B
- C. Function: Standby control pump supply a neutron absorbing solution into the reactor in sufficient concentration and quantity to overcome the maximum positive reactivity.
- D. ASME Section III Code Class: 2
- E. ASME Section XI Valve Category: Not applicable

II. Relief from:

- A. ASME Code Requirement: IWP-4500 Vibration Amplitude
- B. Reason for Relief: Vibration amplitude will not be measured on the standby liquid control pumps. Measurement of mechanical vibration of reciprocating positive displacement pump provides no meaningful data because of the oscillatory action of a reciprocating pump.
- C. Alternate In-Service Test: - None -

TABLE 4-1
PRE-SERVICE TESTING OF PUMPS
RELIEF REQUEST 004

I. Component Identification:

- A. Name: Diesel Fuel Oil Transfer pump 1A, 1B and 1C

- B. Number: 1D0-01PA, 1D0-01PB, and 1D001PC

- C. Function: The Diesel Fuel Oil Transfer pump transfer diesel fuel from diesel storage tank to diesel fuel day tank.

- D. ASME Section III Code Class: 2

- E. ASME Section XI Valve Category: Not Applicable

II. Relief from:

- A. ASME Code Requirement: IWP-4600 Flow rate

- B. Reason for Relief: Flow rate measuring instrument not installed.

- C. Alternate In-Service Test: The flow rate of diesel fuel oil transfer pumps is calculated dividing the change of level of diesel fuel day tank by the time of diesel fuel oil transfer pump in operation.

5.0 Augmented Requirement

5.1 Detection of Intergranular Stress Corrosion Cracking (IGSCC) in Reactor Coolant Pressure Boundary Piping.

In order to obtain baseline examination data that will be comparable to data gathered during subsequent inservice inspection (ISI) examinations, piping which is susceptible to IGSCC shall be examined using the same ultrasonic techniques which are expected to be used during ISI. The contractor who performs these examinations shall have personnel qualified in the use of the procedures required to detect IGSCC.

5.2 Cracking of Feedwater and Control Rod Drive (CRD) Return Line Nozzles

In addition to the requirements of Section XI, NUREG-0619, "Technical Report on BWR Feedwater and Control Rod Drive (CRD) Return Line Nozzle Cracking," requires additional NDE of these nozzles during ISI. Baseline data will be obtained for these examinations during PSI.

5.3 Supplimentary UT Examination of Class 2 RHP Welds

In response to a request by the NRC, 10% of the Class 2 RHR welds which do not require UT by the 1977 Edition, Summer 1978 Addenda of Section XI, will receive UT examinations. These examinations shall be performed as part of PSI.