

SOUTHERN COMPANY SERVICES  
MECHANICAL DESIGN  
INSERVICE INSPECTION GROUP  
FOR  
GEORGIA POWER COMPANY

ISI-P-012

PRESERVICE TEST PROGRAM  
VOGTLE ELECTRIC GENERATING PLANT  
UNIT 2

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PRESERVICE TEST PROGRAM  
VOGTLE ELECTRIC GENERATING PLANT  
UNIT 2

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## 1.0 INTRODUCTION

This document details the scope of preservice testing for the Vogtle Electric Generating Plant (VEGP) - Unit 2 and includes the following points of interest:

- Schedule of testing.
- Identification of all pumps and valves to be tested.
- A brief description of each pump and valve function.

### 1.1 General

The American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Division 1, 1980 Edition through Winter 1980 Addenda is used voluntarily for preservice testing (PST). The actual edition applicable to PST is the 1971 Edition through Winter 1972 Addenda. It is intended that the same code edition and addenda be applicable to both preservice and the first interval of inservice testing. Since the inservice testing program shall comply with the latest approved edition and addenda of Section XI of the code, which is in effect 12 months prior to operating license issue date, the contents of this document are subject to change (with approval) during the course of preservice testing.

### 1.2 Responsibility

Georgia Power Company (GPC) bears the overall responsibility for the performance of the preservice tests.

### 1.3 Records

Records and documentation of all information and testing results, which provide the basis for evaluation and which facilitate comparison with results from subsequent tests will be available for the active life of the plant. The baseline data may require reevaluation and changes during the service life of components.



## 2.0 PUMPS

### 2.1 Preservice Testing of Pumps

The following Pump Test List describes the preservice testing of pumps subject to the requirements of Subsection IWP of the ASME Code, Section XI, 1980 Edition through Winter 1980 Addenda. The Pump Test List provides identification of the pumps to be tested, inservice inspection (ISI) class, reference drawings, and the required tests. The legends before the Pump Test List describe the alpha coding used in the list.

Relief from the testing requirements of Section XI is requested where full compliance with the requirements of the code is not practical. In such cases the Pump Test List refers to a specific relief request number for the appropriate pump. The relief request provides specific information which identifies the applicable code requirements, the justification for the relief request, and the testing to be used as an alternate.

### 2.2 Schedule

As much as practical, the baseline data shall be obtained prior to the hot functional test (i.e., during preoperational testing). The results of the first inservice tests shall be used in cases where the baseline data was not obtained prior to that time.

### 2.3 Pump System Description

#### 2.3.1 Nuclear Service Cooling Water - System No. 1202

The nuclear service cooling water (NSCW) system is a train-oriented system supplying coolant to safety-related components. The system contains six nuclear service pumps and two transfer pumps that supply two independent trains. Each train has three nuclear service pumps located in one tower basin and one transfer pump located in the other tower basin. During normal plant operation, one safety-related train is in service with two nuclear service pumps in operation and one as standby.

#### 2.3.2 Component Cooling Water - System No. 1203

The component cooling water (CCW) system, a closed cooling water system, transfers heat to the service water system from components which process radioactive fluid. The system is designed to function during all modes of plant operation, including heat removal following a loss-of-coolant accident (LOCA). Portions of the CCW system which are required for post-accident heat removal are redundant separate headers, and

redundant pumps and heat exchangers are provided so that a single failure will not preclude the supply of sufficient cooling water to the engineered safeguards.

#### 2.3.3 Safety Injection - System No. 1204

The safety injection system pumps deliver water from the refueling water storage tank (RWST) after the reactor coolant system (RCS) pressure is reduced below their shutoff head.

A minimum flow bypass line is provided on each pump discharge to recirculate flow to the RWST in the event the pumps are started with the normal flow path blocked. This line also permits pump testing during normal operation.

#### 2.3.4 Residual Heat Removal - System No. 1205

The residual heat removal (RHR) system transfers heat from the RCS to the CCW system to reduce the temperature of the reactor coolant to the cold shutdown temperature at a controlled rate during the second part of normal plant cooldown and to maintain this temperature until the plant is started up again.

As a secondary function, the RHR system also serves as part of the emergency core cooling system during the injection and recirculation phases of a LOCA. The RHR system also may be used to transfer refueling water between the RWST and the refueling cavity before and after refueling operations.

#### 2.3.5 Containment Spray - System No. 1206

The containment spray (CS) system consists of two pumps, spray ring headers and nozzles, valves, and connected piping. Initially, water from the RWST is used for the containment spray followed by water recirculation from the containment sumps.

The primary functions of the CS system are to reduce the containment internal pressure and the quantity of airborne fission products in the containment atmosphere subsequent to a LOCA.

Each train contains one containment spray pump; each is maintained in a standby condition during normal plant operation.

#### 2.3.6 Chemical and Volume Control - System No. 1208

The chemical and volume control system (CVCS) is designed to provide the following functions:

- A. Fill the RCS.
- B. Provide a source of high-pressure water for pressurizing the RCS when cold.
- C. Maintain the water level in the pressurizer when the RCS is hot.
- D. Reduce the concentration of corrosion and fission products in the reactor coolant.
- E. Adjust the boric acid concentration of the reactor coolant for chemical shim control.

#### 2.3.7 Auxiliary Feedwater - System No. 1302

The auxiliary feedwater (AFW) system provides feedwater for the removal of sensible and decay heat and cools the primary system to 350°F in case the main steam generator feedwater is not available.

The AFW system is provided with two motor-driven pumps and one turbine-driven pump. The pumps are normally hydraulically aligned to the condensate storage tank, but they are capable of being supplied from the service water system following loss of the primary source. During normal power operations, the AFW system is not required to operate and is maintained in a standby condition. All manual- and power-operated valves in the normal flowpath remain open during standby conditions. Check valves located in the injection lines isolate the system from the steam generators.

#### 2.3.8 Safety-Related (ESF) Chillers - System No. 1592

The safety-related (ESF) chilled water system is a train-oriented system which forms a closed cooling loop between the room coolers of the essential air cooling units for the auxiliary, fuel handling, and control buildings and the heat sink of the NSCW system.

#### LEGEND FOR PUMP PARAMETERS

Pi - Inlet pressure (psig)  
Po - Outlet pressure (psig)  
 $\Delta P$  - Differential pressure  $\Delta P = P_o - P_i$  (psi)  
Q - Flowrate (gal/min)  
V - Vibration amplitude (mil)  
 $T_b$  - Bearing temperature ( $^{\circ}F$ )  
LL - Lubricant level or pressure  
N - Speed (rpm)

#### LEGEND FOR FREQUENCY OF TEST

X - Parameter to be measured during preservice testing  
N/A - Not applicable

VEGP Unit No. 2

Pump Test List

System:

Nuclear Service Cooling Water - System No. 1202

Sheet 1 of 1

Pump I.D. Number	ISA Class	Project Class	Reference Drawings			Pump Descriptions	Measured Parameters								Relief Requests	Notes
			PM, ID Sheet Number	Co- ordinates	Test Loop ISA ID		Ph	Pr	ΔP	Q	V	T <sub>b</sub>	LL	N		
2-1202-PN-001	3	313	200008133-1	C-8	251	NSCM Pumps	X	X	X	X	X	N/A	N/A	N/A		
2-1202-PN-002	3	313	200008133-2	C-8	252	NSCM Pumps	X	X	X	X	X	N/A	N/A	N/A		
2-1202-PN-003	3	313	200008133-1	C-5	253	NSCM Pumps	X	X	X	X	X	N/A	N/A	N/A		
2-1202-PN-004	3	313	200008133-2	C-5	254	NSCM Pumps	X	X	X	X	X	N/A	N/A	N/A		
2-1202-PN-005	3	313	200008133-1	C-7	255	NSCM Pumps	X	X	X	X	X	N/A	N/A	N/A		
2-1202-PN-006	3	313	200008133-2	C-7	256	NSCM Pumps	X	X	X	X	X	N/A	N/A	N/A		
2-1202-PN-007	3	313	200008133-1	C-6	257	NSCM Transfer Pump	X	X	X	X	X	N/A	N/A	N/A		
2-1202-PN-008	3	313	200008133-2	C-6	258	NSCM Transfer Pump	X	X	X	X	X	N/A	N/A	N/A		

VEGP Unit No. 2

Pump Test List

System:

Component: Cooling Water - System No. 1203

Sheet 1 of 1

Pump I.D. Number	PUMP Class	Project Class	Reference Drawings			Pump Descriptions	Measured Parameters								Relief Requests	Notes
			P&ID Sheet Number	Co- ordinates	Test Loop ISL ID		P	Po	ΔP	Q	V	T <sub>B</sub>	LL	N		
2-12033-P4-0001	3	313	200008136	B-5	2559	CCW Pumps	X	X	X	X	X	X	X	N/A		
2-12033-P4-0002	3	313	200008136	D-4	2600	CCW Pumps	X	X	X	X	X	X	X	N/A		
2-12033-P4-0003	3	313	200008136	G-4	2611	CCW Pumps	X	X	X	X	X	X	X	N/A		
2-12033-P4-0004	3	313	200008136	C-4	2622	CCW Pumps	X	X	X	X	X	X	X	N/A		
2-12033-P4-0005	3	313	200008136	F-4	2613	CCW Pumps	X	X	X	X	X	X	X	N/A		
2-12033-P4-0006	3	313	200008136	B-4	2614	CCW Pumps	X	X	X	X	X	X	X	N/A		

VEGP Unit No. 2

Pump Test List

System: Safety Injection Pump - System No. 1204

Sheet 1 of 1

Pump I.D. Number	ISL Cans	Project Cans	Reference Drawings			Pump Descriptions	Measured Parameters								Rele Requests	Notes
			PA/ED Sheet Number	Co ordinations	Test Loop ISL ID		Pi psig	Ps psig	ΔP psi	Q gpm	V mil	T <sub>B</sub> °F	L.L. NA	N rpm		
2-1204-P5-003	2	212	29408121	E-2	265	Safety Injection Pumps	X	X	X	X	X	X	X	N/A		
2-1204-P5-004	2	212	29408121	C-2	266	Safety Injection Pumps	X	X	X	X	X	X	X	N/A		

VEGP Unit No. 2

Pump Test List

System: Residual Heat Removal - System No. 1205

Sheet 1 of 1

Pump I.D. Number	P&ID (Loop)	P&ID (Loop)	Reference Drawings			Pump Description	Measured Parameters								Request Requests	Notes
			P&ID Sheet Number	Co- ordination	Test Loop (S&D)		P	Pe	ΔP	Q	V	T <sub>b</sub>	L.L.	N		
							psig	psig	psi	10 <sup>3</sup> gpm	mol	°F	N/A	rpm		
2-1205-P6-0001	2	212	260008122	F-4	267	Refr. Pumps	X	X	X	X	X	X	X	N/A		
2-1205-P6-0002	2	212	260008122	G-4	268	Refr. Pumps	X	X	X	X	X	X	X	N/A		



VEGP Unit No. 2

Pump Test List

System:

Constellation Spray - System No. 1206

Sheet 1 of 1

Pump I.D. Number	Pump I.D. Number	Project Circ	Reference Drawings		Pump Description	Measured Parameters								Relief Requests	Notes
			P&ID Sheet Number	Co- ordination		P	Po	ΔP	Q	V	T <sub>B</sub>	L.L.	N		
						psig	psig	psi	gpm	mol	°C	NA	rpm		
2-1206-P5-0019	2	212	270008111	G-4	CS Pumps	X	X	X	X	X	X	X	N/A		
2-1206-P5-0022	2	212	270008111	C-4	CS Pumps	X	X	X	X	X	X	X	N/A		

VEGP Unit No. 2

Pump Test List

System:

Chemical and Volume Control - System No. 1208

Sheet 1 of 1

Pump I.D. Number	PSI Class	Request Class	Reference Drawings			Pump Descriptions	Measured Parameters								Relief Requests	Notes
			P&ID Sheet Number	Co- ordination	Test Loop PSI ID		Pi psig	Po psig	ΔP psi	Q gpm	V min	T <sub>B</sub> °F	L.L. N/A	N rpm		
2-1208-PG-002	2	212	28008116-2	G-4	271	Centrifugal Charging Pumps	X	X	X	X	X	X	X	N/A		
2-1208-PG-003	2	212	28008116-2	G-4	272	Centrifugal Charging Pumps	X	X	X	X	X	X	X	N/A		

VEGP Unit No. 2

Pump Test List

System:

Auxiliary Feedwater - System No. 1302

Sheet 1 of 1

Pump I.D. Number	ISI Class	Project Class	Reference Drawings			Pump Descriptions	Measured Parameters								Relief Requests	Notes
			P&ID/Sheet Number	Co- ordinates	Test Loop ISI-D-		Pi	Po	ΔP	Q	V	T <sub>b</sub>	LL	N		
							psig	psig	psi	gal/ min	mil	°F	NA	rpm		
2-1302-P4-001	3	313	2X4DB161-2	F-6	273	AFW Pumps	X	X	X	X	X	X	X	X		
2-1302-P4-002	3	313	2X4DB161-2	D-6	274	AFW Pumps	X	X	X	X	X	X	X	N/A		
2-1302-P4-003	3	313	2X4DB161-2	B-6	275	AFW Pumps	X	X	X	X	X	X	X	N/A		

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VEGP Unit No. 2

Pump Test List

System: Safety-Related (ESF) Chillers - System No. 1592

Sheet 1 of 1

Pump I.D. Number	ISI Class	Project Class	Reference Drawings			Pump Descriptions	Measured Parameters								Relief Reques'ts	Notes
			P&ID/Sheet Number	Co- ordinates	Test Loop ISI-D-		P <sub>i</sub>	P <sub>o</sub>	ΔP	Q	V	T <sub>b</sub>	LL	N		
							psig	psig	psi	gal/ min	mil	°F	NA	rpm		
2-1592-P7-001	3	313	2X4DB221	F-5	276	ESF Chilled Water Pump	X	X	X	X	X	X	X	N/A		
2-1592-P7-002	3	313	2X4DB221	C-5	277	ESF Chilled Water Pump	X	X	X	X	X	X	X	N/A		

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### 3.0 VALVES

#### 3.1 Preservice Testing of Valves

The following Valve Test List describes the preservice testing of valves subject to the requirements of Subsection IWV of the ASME Code, Section XI, 1980 Edition with Addenda through Winter 1980. The Valve Test List provides the identification of the valves to be tested, ISI class, valve categories, type, size, and actuator. The normal position, fail position, safety position, active or passive function, and test requirements are also given. The legends before the Valve Test List describe the alpha coding used in the list.

Relief from the testing requirements of Section XI is requested where full compliance with the requirements of the code is not practical. In such cases the Valve Test List refers to a specific relief request number for the appropriate valves. The relief request provides specific information which identifies the applicable code requirements, justification for the relief request, and testing to be used as an alternate.

Each valve, after installation and prior to service, should be tested as required by this section. These tests shall be conducted under conditions similar to those to be experienced during subsequent inservice tests. Safety and relief valves which will be removed and bench tested during subsequent inservice tests need not be installed prior to the preservice test. Preservice tests are not required for safety and relief valves.

Each valve will be tested during the scheduled time of the preoperational testing of each system. All baseline data should be taken and recorded no later than 4 months prior to the scheduled fuel load.

#### 3.2 Valve Description

A brief description of each valve function is given in the Valve Test List.

### LEGEND OF VALVE SYMBOLS

B - Butterfly Valve  
CK - Check Valve  
D - Diaphragm Valve  
GA - Gate Valve  
GL - Globe Valve  
SR - Safety or Pressure Relief Valve

### LEGEND OF VALVE ACTUATOR TYPE

AO - Air Operated  
ES - Solenoid  
H - Hydraulic Operated  
M - Manual  
MO - Motor Operated  
S - Self Actuating

### LEGEND OF VALVE POSITIONS: NORMAL, FAIL, OR SAFETY

AI - As Is  
C - Close  
O - Open  
N/A - Not Applicable  
O/C - Open or Close  
LC - Locked Closed

### LEGEND FOR FREQUENCY OF TEST

X - Parameter should be measured during preservice testing  
N/A - Not Applicable

### LEGEND FOR VALVE CATEGORIES

<u>Category</u>	<u>Description</u>
A	- Valves for which seat leakage is limited to a specific maximum amount in the closed position of fulfillment of their function.
B	- Valves for which seat leakage in the closed position is inconsequential for fulfillment of their function.
C	- Valves which are self-actuating in response to some system characteristic.
D	- Valves which are actuated by an energy source capable of only one operation, such as rupture discs on explosive-actuated valves. Note: VEGP's design does not include such valves.
AC	- Valves which are both Category A and C.

### LEGEND FOR VALVE TESTS

PIV	- Position indication verification test
ET	- Exercise test of Category A and B valves
ST	- Stroke time test of Category A and B valves
FSV	- Fail-safe verification test of Category A and B valves
LT	- Leak rate test of Category A valves
SRV	- Safety relief valve test
CVET	- Check valve exercise test



## VEGP Unit No. 2

## Valve Test List

System:

Reactor Coolant - System No. 1201

Sheet 1 of 3

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 8000A	1	111	67	D-7	112		E-7	B	3.00	GA	MO	O	AI	O/C	A	X	X	X					Pressurizer Power Relief Block Valve		
HV 8000B	1	111	67	D-7	112		F-7	B	3.00	GA	MO	O	AI	O/C	A	X	X	X					Pressurizer Power Relief Block Valve		
HV 8028	N/A	212	100	D-6	112		G-2	A	3.00	D	AO	O	C	C	A	X	X	X	X	X			Pressurizer Relief Tank Water Isolation - Penetration No. 63	1	
HV 8033	N/A	212	100	D-6	112		H-2	A	1.00	D	AO	C	C	C	P					X			Pressurizer Relief Tank Vent Isolation - Penetration No. 62	1	
HV 8047	N/A	212	100	D-6	112		H-3	A	1.00	D	AO	C	C	C	P					X			Pressurizer Relief Tank Vent Isolation - Penetration No. 62	1	
HV 8095A	1	111	68	E-6	114		E-5	B	1.00	GL	ES	C	C	O/C	A	X	X	X	X				Reactor Hydrogen Vent		
HV 8095B	1	111	68	E-6	114		E-5	B	1.00	GL	ES	C	C	O/C	A	X	X	X	X				Reactor Hydrogen Vent		
HV 8096A	1	111	68	E-5	114		E-5	B	1.00	GL	ES	C	C	O/C	A	X	X	X	X				Reactor Hydrogen Vent		
HV 8096B	1	111	68	E-5	114		E-5	B	1.00	GL	ES	C	C	O/C	A	X	X	X	X				Reactor Hydrogen Vent		

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## VEGP Unit No. 2

## Valve Test List

System:

Reactor Coolant - System No. 1201

Sheet 2 of 3

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (Inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 8701A	1	111	B7	F-3	122		G-3	A	12.00	GA	MO	C	AI	O/C	A	X	X	X		X			Residual Heat Removal (RHR) Recirculation Line From Reactor Coolant System (RCS) Loop 1		2
HV 8701B	1	111	B7	F-2	122		G-2	A	12.00	GA	MO	C	AI	O/C	A	X	X	X		X			RHR Recirculation Line From RCS Loop 1		2
HV 8702A	1	111	B7	C-3	122		D-2	A	12.00	GA	MO	C	AI	O/C	A	X	X	X		X			RHR Recirculation Line From RCS Loop 4		2
HV 8702B	1	111	B7	C-3	122		D-1	A	12.00	GA	MC	C	AI	O/C	A	X	X	X		X			RHR Recirculation Line From RCS Loop 4		2
LV 0459	1	111	68	H-7	114		G-7	B	3.00	GL	AO	O	C	C	A	X	X	X	X				RCS Letdown Isolation		
LV 0460	1	111	68	H-7	114		G-7	B	3.00	GL	AO	O	C	C	A	X	X	X	X				RCS Letdown Isolation		
PSV 8010A	1	111	67	E-7	112		G-7	C	6.00	SR	S	C	N/A	O/C	A						N/A		Pressurizer Relief		3
PSV 8010B	1	111	67	E-6	112		G-6	C	6.00	SR	S	C	N/A	O/C	A						N/A		Pressurizer Relief		3
PSV 8010C	1	111	67	E-5	112		G-6	C	6.00	SR	S	C	N/A	O/C	A						N/A		Pressurizer Relief		3
PV 0455A	1	111	57	C-7	112		E-8	B	3.00	GL	ES	C	C	O/C	A	X	X	X	X				Pressurizer Power Relief		
PV 0456A	1	111	57	D-7	112		F-8	B	3.00	GL	ES	C	C	O/C	A	X	X	X	X				Pressurizer Power Relief		

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VEGP Unit No. 2

Valve Test List

System:

Reactor Coolant - System No. 1201

Sheet 3 of 3

Valve Number	ISI Class	Project Class	ISI-D-Number	Coordinates	P & ID 2X4DB-	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
U4 020	N/A	212	100	D-6	112		F-2	A	1.00	GL	M	C	N/A	C	P					X			Containment Isolation - Penetration No. 63		1
U6 112	N/A	212	100	D-6	112		F-2	AC	3.00	CK	S	O	N/A	C	A					X		X	Containment Isolation - Penetration No. 63		1

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VEGP Unit No. 2

Valve Test List

System:

Nuclear Service Cooling Water - System No. 1202

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
CV 9446	3	313	74	B-5	133	1	B-5	B	2.00	GL	ES	O	C	C	A	X	X	X	X				Nuclear Service Cooling Water (NSCW) Blowdown Isolation		
CV 9447	3	313	75	B-6	133	2	B-5	B	2.00	GL	ES	O	C	C	A	X	X	X	X				NSCW Blowdown Isolation		
U4 025	3	313	74	D-7	133	1	C-8	C	18.00	CK	S	O	N/A	O/C	A							X	NSCW Pump Check		
U4 027	3	313	75	D-8	133	2	C-8	C	18.00	CK	S	O	N/A	O/C	A							X	NSCW Pump Check		
U4 031	3	313	74	E-6	133	1	E-6	C	18.00	CK	S	O	N/A	O/C	A							X	NSCW Pump Check		
U4 033	3	313	75	E-6	133	2	E-6	C	18.00	CK	S	O	N/A	O/C	A							X	NSCW Pump Check		
U4 035	3	313	74	D-5	133	1	C-4	C	18.00	CK	S	O	N/A	O/C	A							X	NSCW Pump Check		
U4 037	3	313	75	D-5	133	2	C-5	C	18.00	CK	S	O	N/A	O/C	A							X	NSCW Pump Check		

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VEGP Unit No. 2

Valve Test List

System: Component Cooling Water - System No. 1203

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes	
																PIV	ET	ST	FSV	LT	SRV	CVET				
U4 030	3	313	82	G-4	136		H-4	C	14.00	CK	S	0	N/A	O/C	A								X	Component Cooling Water (CCW) Pump Out Check		
U4 032	3	313	82	F-4	136		G-4	C	14.00	CK	S	0	N/A	O/C	A								X	CCW Pump Out Check		
U4 034	3	313	82	E-4	136		F-4	C	14.00	CK	S	0	N/A	O/C	A								X	CCW Pump Out Check		
U4 055	3	313	82	D-4	136		D-4	C	14.00	CK	S	0	N/A	O/C	A								X	CCW Pump Out Check		
U4 057	3	313	82	C-4	136		C-4	C	14.00	CK	S	0	N/A	O/C	A								X	CCW Pump Out Check		
U4 059	3	313	82	B-4	136		B-4	C	14.00	CK	S	0	N/A	O/C	A								X	CCW Pump Out Check		

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VEGP Unit No. 2

Valve Test List

System: Safety Injection - System No. 1204

Sheet 1 of 8

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 8801A	2	212	84	E-6	119		F-5	B	4.00	GA	MO	C	AI	O	A	X	X	X					Boron In-jection Tank (BIT) Dis-charge Isolation		
HV 8801B	2	212	84	D-6	119		E-5	B	4.00	GA	MO	C	AI	O	A	X	X	X					BIT Dis-charge Iso-lation		
HV 8802A	2	212	86	E-5	121		E-5	B	4.00	GA	MO	C	AI	O	A	X	X	X					RCS Hot Leg Loop 1/4 Header Isolation		
HV 8802B	2	212	86	D-5	121		D-5	B	4.00	GA	MO	C	AI	O	A	X	X	X					RCS Hot Leg Loop 2/3 Header Iso-lation		
HV 8803A	2	212	84	C-4	119		D-3	B	4.00	GA	MO	C	AI	O	A	X	X	X					BIT Inlet Isolation		
HV 8803B	2	212	84	B-4	119		B-3	B	4.00	GA	MO	C	AI	O	A	X	X	X					BIT Inlet Isolation		
HV 8807A	2	212	86	E-3	121		D-2	B	6.00	GA	MO	C	AI	O/C	A	X	X	X					Chemical and Volume Control System (CVCS)-Connection to Safety Injection System (SIS)		
HV 8807B	2	212	86	E-3	121		D-2	B	6.00	GA	MO	C	AI	O/C	A	X	X	X					CVCS - Connec-tion to SIS		
HV 8809A	2	212	86	C-5	121		B-5	B	8.00	GA	MO	O	AI	O/C	A	X	X	X					RHR Train A to SIS Cold Leg Isolation		

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## VEGP Unit No. 2

## Valve Test List

System: Safety Injection - System No. 1204

Sheet 2 of 8

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 8809B	2	212	86	B-5	121		A-5	B	8.00	GA	MO	O	AI	O/C	A	X	X	X					RHR Train B to SIS Cold Leg Isolation		
HV 8821A	2	212	86	E-5	121		E-4	B	4.00	GA	MO	O	AI	O/C	A	X	X	X					SIS Cold Leg Isolation		
HV 8821B	2	212	86	D-5	121		D-4	B	4.00	GA	MO	O	AI	O/C	A	X	X	X					SIS Cold Leg Isolation		
HV 8835	2	212	86	C-5	121		C-5	B	4.00	GA	MO	O	AI	O/C	A	X	X	X					SIS Cold Leg Isolation		
HV 8840	2	212	86	C-4	121		C-4	B	12.00	GA	MO	C	AI	O/C	A	X	X	X					RHR System Hot Leg Injection Crossover Isolation		
HV 8870A	2	212	84	F-5	119		F-4	B	1.00	GL	AO	O	C	C	A	X	X	X	X				Boron Injection Recirculation		
HV 8870B	2	212	84	F-4	119		F-3	B	1.00	GL	AO	O	C	C	A	X	X	X	X				Boron Injection Recirculation		
HV 8871	N/A	212	100	E-6	121		H-6	A	0.75	GL	AO	C	C	C	P					X			Test Isolation - Penetration No. 41	1	
HV 8883	2	212	84	D-4	119		E-3	B	1.00	GL	AO	O	C	C	A	X	X	X	X				Boron Injection Recirculation Pump Discharge		
HV 8888	2	212	100	E-5	121		F-5	A	0.75	GL	AO	C	C	C	P					X			Test Isolation - Penetration No. 41	1	

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## VEGP Unit No. 2

## Valve Test List

System:

Safety Injection - System No. 1204

Sheet 3 of 8

Valve Number	ISI Class	Project Class	ISI-D-Number	Coordinates	P & ID 2X4DB-	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 8923A	2	212	86	E-3	121		E-2 B		6.00	GA	MO	O	AI	O/C	A	X	X	X					Safety In- jection Pump P6-003 Inlet Train A		
HV 8923B	2	212	86	D-3	121		D-2 B		6.00	GA	MO	O	AI	O/C	A	X	X	X					Safety In- jection Pump P6-004 Inlet Train B		
HV 8924	2	212	71	A-7	116	2	A-7 B		6.00	GA	MO	O	AI	O/C	A	X	X	X					RWST Isolation to CVCS		
HV 8964	N/A	212	100	E-5	121		H-5 A		0.75	GL	AO	C	C	C	P					X			Test Isola- tion - Pene- tration No. 41		1
HV 9017A	2	212	88	F-3	131		F-3 B		10.00	GA	MO	O	AI	O/C	A	X	X	X					Containment Spray (CS) Pump P6-001 Suction From Refueling Water Storage Tank (RWST)		
HV 9017B	2	212	88	E-3	131		E-3 B		10.00	GA	MO	O	AI	O/C	A	X	X	X					CS Pump P6-002 Suc- tion From RWST		
HV 10950	2	212	100	E-5	120		G-3 A		0.75	GL	ES	C	C	C	P					X			Accumulator Tank V6-002 Local Sample Isolation - Penetration No. 72A		1
HV 10951	2	212	100	D-5	120		E-3 A		0.75	GL	ES	C	C	C	P					X			Accumulator Tank V6-003 Local Sample Isolation - Penetration No. 73A		1

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## VEGP Unit No. 2

## Valve Test List

System: Safety Injection - System No. 1204

Sheet 4 of 8

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 10952	2	212	100	D-5	120		C-3	A	0.75	GL	ES	C	C	C	P					X			Accumulator Tank V6-004 Local Sample Isolation - Penetration No. 72B		1
HV 10953	2	212	100	C-5	120		A-3	A	0.75	GL	ES	C	C	C	P					X			Accumulator Tank V6-005 Local Sample Isolation - Penetration No. 73B		1
U4 016	N/A	212	100	E-6	121		H-5	A	0.75	GL	M	C	N/A	C	P					X			Drain - Penetration No. 41		1
U4 026	1	111	66	C-5	111		D-5	C	1.50	CK	S	C	N/A	O/C	A						X		Boron Injection Cold Leg		
U4 027	1	111	66	F-5	111		G-5	C	1.50	CK	S	C	N/A	O/C	A						X		Boron Injection Cold Leg		
U4 028	1	111	66	F-5	111		G-4	C	1.50	CK	S	C	N/A	O/C	A						X		Boron Injection Cold Leg		
U4 029	1	111	66	C-5	111		D-5	C	1.50	CK	S	C	N/A	O/C	A						X		Boron Injection Cold Leg		
U4 120	1	111	86	F-6	121		F-6	AC	2.00	CK	S	C	N/A	O/C	A					X	X		SIS Hot Leg Loop 1		2
U4 121	1	111	86	F-6	121		F-6	AC	2.00	CK	S	C	N/A	O/C	A					X	X		SIS Hot Leg Loop 4		2
U4 122	1	111	86	F-8	121		F-7	AC	2.00	CK	S	C	N/A	O/C	A					X	X		SIS Hot Leg Loop 3		2
U4 123	1	111	86	F-8	121		F-7	AC	2.00	CK	S	C	N/A	O/C	A					X	X		SIS Hot Leg Loop 2		2

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## VEGP Unit No. 2

## Valve Test List

System:

Safety Injection - System No. 1204

Sheet 5 of 8

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
U4 143	1	111	86	C-6	121		B-6	AC	2.00	CK	S	C	N/A	O/C	A					X		X	SIS Cold Leg Check Loop 1		2
U4 144	1	111	86	C-6	121		B-7	AC	2.00	CK	S	C	N/A	O/C	A					X		X	SIS Cold Leg Check Loop 2		2
U4 145	1	111	86	C-7	121		B-7	AC	2.00	CK	S	C	N/A	O/C	A					X		X	SIS Cold Leg Check Loop 3		2
U4 146	1	111	86	C-7	121		B-8	AC	2.00	CK	S	C	N/A	O/C	A					X		X	SIS Cold Leg Check Loop 4		2
U4 155	N/A	212	100	E-4	120		G-2	A	0.75	GL	M	LC	LC	LC	P					X			SIS Sample Line Containment Isolation Valve - Penetration No. 72A		1
U4 160	N/A	212	100	D-4	120		E-2	A	0.75	GL	M	LC	LC	LC	P					X			SIS Sample Line Containment Isolation Valve - Penetration No. 73A		1
U4 161	N/A	212	100	D-4	120		C-2	A	0.75	GL	M	LC	LC	LC	P					X			SIS Sample Line Containment Isolation Valve - Penetration No. 72B		1
U4 162	N/A	212	100	C-4	120		A-2	A	0.75	GL	M	LC	LC	LC	P					X			SIS Sample Line Containment Isolation Valve - Penetration No. 73B		1

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VEGP Unit No. 2

Valve Test List

System: Safety Injection - System No. 1204

Sheet 6 of 8

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
U4 178	N/A	212	100	D-5	120		F-2	A	0.75	GL	M	LC	LC	LC	P					X			Drain - Penetration No. 72 A		1
U4 181	N/A	212	100	C-5	120		E-2	A	0.75	GL	M	LC	LC	LC	P					X			Drain - Penetration No. 73 A		1
U4 183	N/A	212	100	D-5	120		C-2	A	0.75	GL	M	LC	LC	LC	P					X			Drain - Penetration No. 72 B		1
U4 185	N/A	212	100	C-5	120		A-2	A	0.75	GL	M	LC	LC	LC	P					X			Drain - Penetration No. 73 B		1
U6 013	1	111	84	E-6	119		E-6	C	3.00	CK	S	C	N/A	O/C	A							X	Boron Injection Out Check		
U6 079	1	111	85	G-7	120		G-8	AC	10.00	CK	S	C	N/A	O/C	A					X		X	SIS Accumulator V6-002 Out Check		2
U6 080	1	111	85	E-7	120		E-8	AC	10.00	CK	S	C	N/A	O/C	A					X		X	SIS Accumulator V6-003 Out Check		2
U6 081	1	111	85	C-7	120		C-8	AC	10.00	CK	S	C	N/A	O/C	A					X		X	SIS Accumulator V6-004 Out Check		2
U6 082	1	111	85	B-7	120		A-8	AC	10.00	CK	S	C	N/A	O/C	A					X		X	SIS Accumulator V6-005 Out Check		2
U6 083	1	111	66	C-5	111		B-5	AC	10.00	CK	S	C	N/A	O/C	A					X		X	SIS/Accumulator/RHR to Cold Leg Loop 1		2

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VEGP Unit No. 2

Valve Test List

System: Safety Injection - System No. 1204

Sheet 7 of 8

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
U6 084	1	111	66	F-6	111		H-6	AC	10.00	CK	S	C	N/A	O/C	A					X		X	SIS/Accumulator/RHR to Cold Leg Loop 2		2
U6 085	1	111	66	F-4	111		H-4	AC	10.00	CK	S	C	N/A	O/C	A					X		X	SIS/Accumulator/RHR to Cold Leg Loop 3		2
U6 086	1	111	66	C-4	111		B-4	AC	10.00	CK	S	C	N/A	O/C	A					X		X	SIS/Accumulator/RHR to Cold Leg Loop 4		2
U6 090	2	212	86	D-2	121		E-1	C	8.00	CK	S	C	N/A	O	A							X	SIS Pump Suction from RWST		
U6 098	2	212	86	E-4	121		E-3	C	4.00	CK	S	C	N/A	O	A							X	SIS Pump P6-003 Discharge		
U6 099	2	212	86	D-4	121		D-4	C	4.00	CK	S	C	N/A	O	A							X	SIS Pump P6-004 Discharge		
U6 124	1	111	66	E-6	111		F-5	AC	6.00	CK	S	C	N/A	O/C	A					X		X	SIS Injection to Hot Leg Loop 2		2
U6 125	1	111	66	D-4	111		D-3	AC	6.00	CK	S	C	N/A	O/C	A					X		X	SIS Injection to Hot Leg Loop 4		2
U6 126	1	111	66	D-6	111		D-6	AC	6.00	CK	S	C	N/A	O/C	A					X		X	SIS Injection to Hot Leg Loop 1		2
U6 127	1	111	66	E-4	111		F-4	AC	6.00	CK	S	C	N/A	O/C	A					X		X	SIS Injection to Hot Leg Loop 3		2

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VEGP Unit No. 2

Valve Test List

System: Safety Injection - System No. 1204

Sheet 8 of 8

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
U6 128	1	111	86	F-6	121		F-6	AC	8.00	CK	S	C	N/A	O/C	A					X		X	RHR to Hot Leg Loop 1		2
U6 129	1	111	86	F-6	121		F-6	AC	8.00	CK	S	C	N/A	O/C	A					X		X	RHR to Hot Leg Loop 4		2
U6 147	1	111	86	B-6	121		B-6	AC	6.00	CK	S	C	N/A	O/C	A					X		X	RHR to Cold Leg Loop 1		2
U6 148	1	111	86	B-6	121		B-6	AC	6.00	CK	S	C	N/A	O/C	A					X		X	RHR to Cold Leg Loop 2		2
U6 149	1	111	86	B-7	121		A-7	AC	6.00	CK	S	C	N/A	O/C	A					X		X	RHR to Cold Leg Loop 3		2
U6 150	1	111	86	A-7	121		A-7	AC	6.00	CK	S	C	N/A	O/C	A					X		X	RHR to Cold Leg Loop 4		2
U6 163	2	212	87	B-7	122		B-8	C	8.00	CK	S	C	N/A	O/C	A							X	RHR to SIS Pump Suction		
X 165	N/A	212	100	E-6	121		H-5	A	1.00	GL	M	C	N/A	C	P					X			Containment Isolation - Penetration No. 41		1

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## VEGP Unit No. 2

## Valve Test List

System: Residual Heat Removal - System No. 1205

Sheet 1 of 3

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB-	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 8716A	2	212	87	E-7	122		F-7 B		8.00	GA	MO	O	AI	O	A	X	X	X					RHR Train A Hot Leg Isolation		
HV 8716B	2	212	87	D-7	122		D-7 B		8.00	GA	MO	O	AI	O	A	X	X	X					RHR Train B Hot Leg Isolation		
HV 8804A	2	212	87	F-8	122		F-8 B		8.00	GA	MO	C	AI	O/C	A	X	X	X					RHR Heat Exchanger (HX) Train A to CVCS Charge Pump Suction		
HV 8804B	2	212	87	C-7	122		B-8 B		8.00	GA	MO	C	AI	O/C	A	X	X	X					RHR HX Train B to Safety Injection Pump Suction		
HV 8811A	2	212	87	B-3	122		C-3 A		14.00	GA	MO	C	AI	O/C	A	X	X	X		X			Containment Sump Isolation - Penetration No. 37	1	
HV 8811B	2	212	87	B-3	122		B-3 A		14.00	GA	MO	C	AI	O/C	A	X	X	X		X			Containment Sump Isolation - Penetration No. 36	1	
HV 8812A	2	212	87	E-3	122		F-4 B		12.00	GA	MO	O	AI	O/C	A	X	X	X					RHR Pump P6-001 Inlet From RWST		
HV 8812B	2	212	87	D-3	122		C-4 B		12.00	GA	MO	O	AI	O/C	A	X	X	X					RHR Pump P6-002 Inlet From RWST		
PSV 8708A	2	212	87	G-3	122		H-3 C		3.00	SR	S	C	N/A	O/C	A						N/A		RHR Pump P6-001 Inlet	3	
PSV 8708B	2	212	87	D-3	122		E-3 C		3.00	SR	S	C	N/A	O/C	A						N/A		RHR Pump P6-002 Inlet	3	

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VEGP Unit No. 2

Valve Test List

System:

Residual Heat Removal - System No. 1205

Sheet 2 of 3

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
PSV 8842	2	212	86	C-4	121		C-3	C	0.75	SR	S	C	N/A	O/C	A						N/A		RHR Hot Leg Injection Crossover		3
PSV 8856A	2	212	86	C-5	121		B-4	C	0.75	SR	S	C	N/A	O/C	A						N/A		RHR to Train A Cold Leg Isolation		3
PSV 8856B	2	212	86	B-4	121		A-4	C	0.75	SR	S	C	N/A	O/C	A						N/A		RHR to Train B Cold Leg Isolation		3
U4 033	N/A	212	87	C-3	122		C-3	A	0.75	GL	M	LC	LC	LC	P					X			Containment Isolation - Penetration No. 37		1
U4 035	N/A	212	87	B-3	122		A-3	A	0.75	GL	M	LC	LC	LC	P					X			Containment Isolation - Penetration No. 36		1
U4 122	2	212	87	C-4	122		C-3	C	14.00	CK	S	C	N/A	O/C	A							X	RHR Sump Suction		
U4 123	2	212	87	B-4	122		B-3	C	14.00	CK	S	C	N/A	O/C	A							X	RHR Sump Suction		
U4 124	N/A	212	87	B-3	122		B-3	A	0.75	GL	M	LC	LC	LC	P					X			Containment Isolation - Penetration No. 37		1
U4 125	N/A	212	87	B-3	122		A-3	A	0.75	GL	M	LC	LC	LC	P					X			Containment Isolation - Penetration No. 36		1

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VEGP Unit No. 2

Valve Test List

System:

Residual Heat Removal - System No. 1205

Sheet 3 of 3

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes	
																PIV	ET	ST	FSV	LT	SRV	CVET				
U6 001	2	212	87	E-3	122		F-4	C	12.00	CK	S	C	N/A	O/C	A								X	RWST to RHR Pump Suction		
U6 002	2	212	87	D-3	122		C-4	C	12.00	CK	S	C	N/A	O/C	A								X	RWST to RHR Pump Suction		
U6 009	2	212	87	F-4	122		G-5	C	8.00	CK	S	C	N/A	O/C	A								X	RHR Pump P6-001 Discharge Check		
U6 010	2	212	87	C-4	122		D-5	C	8.00	CK	S	C	N/A	O/C	A								X	RHR Pump P6-002 Discharge Check		

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## VEGP Unit No. 2

## Valve Test List

System: Containment Spray - System No. 1206

Sheet 1 of 3

Valve Number	ISI Class	Project Class	ISI-D-Number	Coordinates	P & ID 2X4DB	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 8994A	3	313	88	E-4	131		E-4	B	3.00	GA	MO	C	AI	O	A	X	X	X					Spray Additive Tank Outlet Isolation		
HV 8994B	3	313	88	E-3	131		E-3	B	3.00	GA	MO	C	AI	O	A	X	X	X					Spray Additive Tank Outlet Isolation		
HV 9001A	2	212	88	G-6	131		G-6	A	8.00	GA	MO	C	AI	O	A	X	X	X		X			CS Pump P6-001 to Spray Header - Penetration No. 35	1	
HV 9001B	2	212	88	C-6	131		C-6	A	8.00	GA	MO	C	AI	O	A	X	X	X		X			CS Pump P6-002 to Spray Header - Penetration No. 34	1	
HV 9002A	2	212	88	B-6	131		B-6	A	10.00	GA	MO	C	AI	O	A	X	X	X		X			CS Pump P6-001 Suction - Penetration No. 39	1	
HV 9002B	2	212	88	C-6	131		C-6	A	10.00	GA	MO	C	AI	O	A	X	X	X		X			CS Pump P6-002 Suction - Penetration No. 38	1	
HV 9003A	2	212	88	B-5	131		B-5	B	10.00	GA	MO	C	AI	O	A	X	X	X					CS Suction Isolation		
HV 9003B	2	212	88	C-5	131		C-5	B	10.00	GA	MO	C	AI	O	A	X	X	X					CS Suction Isolation		

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## VEGP Unit No. 2

## Valve Test List

System: Containment Spray - System No. 1206

Sheet 2 of 3

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2 X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
U4 013	2	212	88	H-6	131		G-6	A	2.00	GL	M	LC	LC	LC	P					X			Containment Isolation - Penetration No. 35		1
U4 014	2	212	88	D-6	131		D-7	A	2.00	GL	M	LC	LC	LC	P					X			Containment Isolation - Penetration No. 34		1
U4 046	2	212	88	C-7	131		C-7	A	0.75	GL	M	C	N/A	C	P					X			Containment Isolation - Penetration No. 34		1
U4 047	2	212	88	G-7	131		G-7	A	0.75	GL	M	C	N/A	C	P					X			Containment Isolation - Penetration No. 35		1
U4 121	N/A	212	88	B-6	131		B-6	A	0.75	GL	M	LC	LC	LC	P					X			Containment Isolation - Penetration No. 38		1
U4 122	N/A	212	88	A-6	131		A-6	A	0.75	GL	M	LC	LC	LC	P					X			Containment Isolation - Penetration No. 39		1
U4 125	N/A	212	88	B-6	131		B-6	A	0.75	GL	M	LC	LC	LC	P					X			Containment Isolation - Penetration No. 38		1
U4 126	N/A	212	88	A-6	131		A-6	A	0.75	GL	M	LC	LC	LC	P					X			Containment Isolation - Penetration No. 39		1
U6 001	2	212	88		131		F-3	C	10.00	CK	S	C	N/A	O/C	A							X	RWST to CS Pump Check		
U6 008	2	212	88	D-2	131		D-3	C	10.00	CK	S	C	N/A	O/C	A							X	RWST to CS Pump Check		

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VEGP Unit No. 2

Valve Test List

System: Containment Spray - System No. 1206

Sheet 3 of 3

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2x4DB	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
U6 015	2	212	88	G-7	131		G-7	AC	8.00	CK	S	C	N/A	O/C	A					X		X	CS Inboard Containment Isolation Valve		1
U6 016	2	212	88	C-7	131		C-7	AC	8.00	CK	S	C	N/A	O/C	A					X		X	CS Inboard Containment Isolation Valve		1
U6 037	2	212	88	F-5	131		F-5	C	3.00	CK	S	C	N/A	O/C	A							X	Spray Additive Tank to Train A NaOH Educator Check		
U6 038	2	212	88	E-5	131		E-5	C	3.00	CK	S	C	N/A	O/C	A							X	Spray Additive Tank to Train B NaOH Educator Check		

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## VEGP Unit No. 2

## Valve Test List

System: Chemical and Volume Control - System No. 1208

Sheet 1 of 4

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2 X 4 DB	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 0190A	2	212	71	H-7	116	2	H-7	B	1.00	GL	ES	C	C	O	A	X	X	X	X				Centrifugal Charging Pump (CCP) to Regenerative HX		
HV 8100	2	212	58	E-3	114		D-2	A	2.00	GL	MO	O	AI	C	A	X	X	X		X			Reactor Coolant Pump (RCP) Seal Water Isolation - Penetration No. 49	1	
HV 8103A	2	212	58	B-5	114		A-6	A	1.50	GL	MO	O	AI	C	A	X	X	X		X			RCP 1 Seal Water Inlet - Penetration No. 54	1	
HV 8103B	2	212	58	B-5	114		A-6	A	1.50	GL	MO	O	AI	C	A	X	X	X		X			RCP 2 Seal Water Inlet - Penetration No. 53	1	
HV 8103C	2	212	58	B-5	114		A-6	A	1.50	GL	MO	O	AI	C	A	X	X	X		X			RCP 3 Seal Water Inlet - Penetration No. 52	1	
HV 8103D	2	212	58	B-5	114		A-6	A	1.50	GL	MO	O	AI	C	A	X	X	X		X			RCP 4 Seal Water Inlet - Penetration No. 51	1	
HV 8105	2	212	70	D-8	116	1	C-8	A	3.00	GA	MO	O	AI	C	A	X	X	X		X			Charge Pump to RCS Isolation - Penetration No. 50	1	

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## VEGP Unit No. 2

## Valve Test List

System:

Chemical and Volume Control - System No. 1208

Sheet 2 of 4

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	F & ID 2x4DB	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 8106	2	212	70	D-7	116	1	C-7	B	3.00	GA	MO	O	AI	C	A	X	X	X					Charge Pump to RCS		
HV 8110	2	212	71	E-7	116	2	E-7	B	2.00	GL	MO	O	AI	C	A	X	X	X					Centrifugal Pumps to RCP Seal Water		
HV 8111A	2	212	71	F-6	116	2	F-6	B	2.00	GL	MO	O	AI	C	A	X	X	X					Charge Pump Miniflow Isolation		
HV 8111B	2	212	71	D-6	116	2	D-6	B	2.00	GL	MO	O	AI	C	A	X	X	X					Charge Pump Miniflow Isolation		
HV 8112	2	212	68	E-4	114		D-3	A	2.00	GL	MO	O	AI	C	A	X	X	X		X			RCP Seal Water Isolation - Penetration No. 47	1	
HV 8116	2	212	71	H-7	116	2	H-8	B	1.00	GL	ES	C	C	O	A	X	X	X	X				CCP to Regenerative HX		
HV 8149A	2	212	68	H-5	114		G-6	B	3.00	GL	AO	C	C	O/C	A	X	X	X	X				Letdown Orifice Isolation		
HV 8149B	2	212	68	H-5	114		H-5	B	3.00	GL	AO	O	C	O/C	A	X	X	X	X				Letdown Orifice Isolation		
HV 8149C	2	212	68	H-4	114		G-5	O	3.00	GL	AO	C	C	O/C	A	X	X	X	X				Letdown Orifice Isolation		
HV 8152	2	212	68	H-3	114		H-2	A	3.00	GL	AO	O	C	C	A	X	X	X	X	X			Letdown Isolation Outside - Penetration No. 48	1	
HV 8153	1	111	68	F-3	114		F-2	B	1.00	GL	AO	C	C	O/C	A	X	X	X	X				Excess Letdown Isolation		

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## VEGP Unit No. 2

## Valve Test List

System:

Chemical and Volume Control - System No. 1208

Sheet 3 of 4

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2x4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 8154	1	111	68	F-3	114		F-3	B	1.00	GL	A0	C	C	O/C	A	X	X	X	X				Excess Let-down Isolation		
HV 8160	2	212	68	H-4	114		H-3	A	3.00	GL	A0	O	C	C	A	X	X	X	X	X			CVCS Letdown Isolation - Penetration No. 48		1
HV 8485A	2	212	71	G-7	116	2	G-7	B	4.00	GA	M0	O	AI	O/C	A	X	X	X					BIT Isolation		
HV 8485B	2	212	71	C-7	116	2	D-7	B	4.00	GA	M0	O	AI	O/C	A	X	X	X					BIT Isolation		
HV 15214	2	212	68	H-3	114		H-4	B	3.00	GL	A0	O	C	C	A	X	X	X	X				RCS Letdown Isolation		
LV 01120	2	212	71	F-2	116	2	E-2	B	8.00	GA	M0	C	AI	O	A	X	X	X					RWST Isolation		
LV 0112E	2	212	71	E-2	116	2	D-2	B	8.00	GA	M0	C	AI	O	A	X	X	X					RWST Isolation		
U4 004	2	212	68	B-6	114		A-7	AC	1.50	CK	S	C	N/A	O/C	A					X		X	CVCS to Reactor Coolant Pump 1 Seal - Penetration No. 54		1
U4 021	2	212	68	E-4	114		D-3	AC	0.75	CK	S	C	N/A	C	P					X			CVCS Seal Backflush Check - Penetration No. 49		1
U4 353	2	212	68	B-6	114		A-7	AC	1.50	CK	S	O	N/A	O/C	A					X		X	CVCS to RCP 2 Seal - Penetration No. 53		1
U4 354	2	212	68	B-6	114		A-7	AC	1.50	CK	S	O	N/A	O/C	A					X		X	CVCS RCP 3 Seal - Penetration No. 52		1

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## VEGP Unit No. 2

## Valve Test List

System:

Chemical and Volume Control - System No. 1208

Sheet 4 of 4

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB-	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
U4 355	2	212	68	B-6	114		A-7	AC	1.50	CK	S	O	N/A	O/C	A					X		X	CVCS to RCP / Seal - Penetration No. 51		1
U4 449	2	212	68	B-6	114		B-6	A	0.75	GL	M	LC	LC	LC	P					X			Test Connection - Penetration No. 54		1
U4 450	2	212	68	B-6	114		B-6	A	0.75	GL	M	LC	LC	LC	P					X			Test Connection - Penetration No. 53		1
U4 451	2	212	68	B-6	114		B-6	A	0.75	GL	M	LC	LC	LC	P					X			Test Connection - Penetration No. 52		1
U4 452	2	212	68	B-6	114		B-6	A	0.75	GL	M	LC	LC	LC	P					X			Test Connection - Penetration No. 51		1
U4 465	2	212	68	G-3	114		G-3	A	0.75	GL	M	LC	LC	LC	P					X			Test Connection - Penetration No. 50		1
U6 032	2	212	68	G-4	114		G-3	AC	3.00	CK	S	C	N/A	O/C	A					X		X	CVCS to Regenerative HX - Penetration No. 50		1
U6 142	2	212	71	G-6	116	2	G-6	C	4.00	CK	S	C	N/A	O/C	A							X	CVCS Pump Out Check		
U6 149	2	212	71	C-6	116	2	C-6	C	4.00	CK	S	C	N/A	O/C	A							X	CVCS Pump Out Check		
U6 189	2	212	71	F-3	116	2	E-2	C	8.00	CK	S	C	N/A	O/C	A							X	RWST to CVCS Check		
U6 436	2	212	87	E-8	122		F-8	C	8.00	CK	S	C	N/A	O/C	A							X	CVCS Charge Pump Suction From RHR		

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VEGP Unit No. 2

Valve Test List

System: Nuclear Sampling-Liquid - System No. 1212

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 3502	N/A	212	100	B-7	140		E-7 A		0.50	GL	AO	O	C	C	A	X	X	X	X	X			Hot Leg Sample Line - Penetration No. 24		1
HV 3507	N/A	212	100	C-7	140		G-8 A		0.50	GL	AO	O	C	C	A	X	X	X	X	X			Pressurizer Steam Space - Penetration No. 67B		1
HV 3508	N/A	212	100	C-6	140		G-7 A		0.50	GL	AO	O	C	C	A	X	X	X	X	X			Pressurizer Steam Space - Penetration No. 67B		1
HV 3513	N/A	212	100	C-7	140		F-7 A		0.50	GL	AO	O	C	C	A	X	X	X	X	X			Hot Leg Sample Line - Penetration No. 67A		1
HV 3514	N/A	212	100	C-6	140		F-7 A		0.50	GL	AO	O	C	C	A	X	X	X	X	X			Hot Leg Sample Line - Penetration No. 67A		1
HV 3548	1	212	100	B-8	140		D-8 A		0.50	GL	AO	O	C	C	A	X	X	X	X	X			Reactor Hot Leg Sample Line - Penetration No. 24		1
HV 8220	N/A	212	100	B-7	140		D-7 A		0.50	GL	ES	C	C	C	P					X			Post-Accident Sampling - Penetration No. 24		1

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VEGP Unit No. 2

Valve Test List

System:

Spent Fuel Cooling and Purification - System No. 1213

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
U6 050	N/A	212	100	D-7	130		G-8	A	3.00	D	M	LC	LC	LC	P					X			Containment Isolation Valve - Penetration No. 15		1
U6 051	N/A	212	100	D-8	130		H-8	A	3.00	D	M	LC	LC	LC	P					X			Containment Isolation Valve - Penetration No. 15		1

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VEGP Unit No. 2

Valve Test List

System: Containment and Auxiliary Building Drains - System No. 1214

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 0780	N/A	212	100	G-3	143		G-5	A	3.00	GA	AO	O	C	C	A	X	X	X	X	X			Normal Containment Sump Pump Discharge - Penetration No. 78		1
HV 0781	N/A	212	100	G-2	143		G-6	A	3.00	GA	AO	O	C	C	A	X	X	X	X	X			Normal Containment Sump Pump Discharge - Penetration No. 78		1

VEGP Unit No. 2

Valve Test List

System: Auxiliary Component Cooling Water - System No. 1217

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 1974	N/A	212	100	F-6	138	2	G-7	A	10.00	B	MO	O	AI	C	A	X	X	X		X			Auxiliary Component Cooling Water (ACCW) Return Penetration No. 29		1
HV 1975	N/A	212	100	F-5	138	1	B-2	A	10.00	B	MO	O	AI	C	A	X	X	X		X			ACCW Return - Penetration No. 29		1
HV 1978	N/A	212	100	G-6	138	2	H-7	A	10.00	B	MO	O	AI	C	A	X	X	X		X			ACCW Supply - Penetration No. 28		1
HV 1979	N/A	212	100	G-5	138	1	D-3	A	10.00	B	MO	O	AI	C	A	X	X	X		X			ACCW Supply - Penetration No. 28		1
U4 113	N/A	212	100	F-6	138	2	G-7	AC	0.75	CK	S	C	N/A	C	P					X			ACCW Return - Penetration No. 29		1

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## VEGP Unit No. 2

## Valve Test List

System: Main Steam - System No. 1301

Sheet 1 of 4

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 3006A	2	212	94	G-7	159	2	G-6	B	28.00	GA	AO	O	C	C	A	X	X	X	X				Main Steam Isolation Valve (MSIV)		
HV 3006B	2	212	94	G-7	159	2	G-7	B	28.00	GA	AO	O	C	C	A	X	X	X	X				MSIV		
HV 3009	2	212	94	G-5	159	2	G-3	B	4.00	GA	MO	O	AI	C	A	X	X	X				Steam Generator Outlet to Auxiliary Turbine			
HV 3016A	2	212	94	F-7	159	2	F-6	B	28.00	GO	AO	O	C	C	A	X	X	X	X				MSIV		
HV 3016B	2	212	94	F-7	159	2	F-7	B	28.00	GA	AO	O	C	C	A	X	X	X	X				MSIV		
HV 3019	2	212	94	E-6	159	2	E-2	B	4.00	GA	MO	O	AI	C	A	X	X	X				Steam Generator Outlet to Auxiliary Turbine			
HV 3026A	2	212	94	D-7	159	2	D-6	B	28.00	GA	AO	O	C	C	A	X	X	X	X				MSIV		
HV 3026B	2	212	94	D-7	159	2	D-7	B	28.00	GA	AO	O	C	C	A	X	X	X	X				MSIV		
HV 3036A	2	212	94	C-7	159	2	B-6	B	28.00	GA	AO	O	C	C	A	X	X	X	X				MSIV		
HV 3036B	2	212	94	C-7	159	2	B-7	B	28.00	GA	AO	O	C	C	A	X	X	X	X				MSIV		
HV 7603A	2	212	95	F-2	159	3	F-2	B	3.00	GL	AO	O	C	C	A	X	X	X	X				Steam Generator B6-001 Blowdown Isolation		
HV 7603B	2	212	95	C-2	159	3	B-2	B	3.00	GL	AO	O	C	C	A	X	X	X	X				Steam Generator B6-002 Blowdown Isolation		
HV 7603C	2	212	93	F-2	159	1	F-2	B	3.00	GL	AO	O	C	C	A	X	X	X	X				Steam Generator B6-003 Blowdown Isolation		

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VEGP Unit No. 2

Valve Test List

System: Main Steam - System No. 1301

Sheet 2 of 4

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2x4DB	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 7603D	2	212	93	B-2	159	1	B-2	B	3.00	GL	AO	O	C	C	A	X	X	X	X				Steam Generator B6-004 Blowdown Isolation		
HV 9451	2	212	95	E-2	159	3	E-3	B	0.50	GL	ES	O	C	C	A	X	X	X	X				Steam Generator B6-001 Blowdown Sample		
HV 9452	2	212	95	B-2	159	3	A-3	B	0.50	GL	ES	O	C	C	A	X	X	X	X				Steam Generator B6-002 Blowdown Sample		
HV 9453	2	212	93	E-2	159	1	E-3	B	0.50	GL	ES	O	C	C	A	X	X	X	X				Steam Generator B6-003 Blowdown Sample		
HV 9454	2	212	93	B-2	159	1	B-2	B	0.50	GL	ES	O	C	C	A	X	X	X	X				Steam Generator B6-004 Blowdown Sample		
PSV 3001	2	212	94	H-3	159	2	H-3	C	6.00	SR	S	C	N/A	O/C	A						N/A		Main Steam Relief	3	
PSV 3002	2	212	94	H-4	159	2	H-4	C	6.00	SR	S	C	N/A	O/C	A						N/A		Main Steam Relief	3	
PSV 3003	2	212	94	H-5	159	2	H-4	C	6.00	SR	S	C	N/A	O/C	A						N/A		Main Steam Relief	3	
PSV 3004	2	212	94	H-5	159	2	H-5	C	6.00	SR	S	C	N/A	O/C	A						N/A		Main Steam Relief	3	
PSV 3005	2	212	94	H-6	159	2	H-5	C	6.00	SR	S	C	N/A	O/C	A						N/A		Main Steam Relief	3	
PSV 3011	2	212	94	F-3	159	2	F-3	C	6.00	SR	S	C	N/A	O/C	A						N/A		Main Steam Relief	3	

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## VEGP Unit No. 2

## Valve Test List

System:

Main Steam - System No. 1301

Sheet 3 of 4

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
PSV 3012	2	212	94	F-4	159	2	F-4	C	6.00	SR	S	C	N/A	O/C	A							N/A	Main Steam Relief		3
PSV 3013	2	212	94	F-5	159	2	F-4	C	6.00	SR	S	C	N/A	O/C	A							N/A	Main Steam Relief		3
PSV 3014	2	212	94	F-5	159	2	F-5	C	6.00	SR	S	C	N/A	O/C	A							N/A	Main Steam Relief		3
PSV 3015	2	212	94	F-6	159	2	F-5	C	6.00	SR	S	C	N/A	O/C	A							N/A	Main Steam Relief		3
PSV 3021	2	212	94	E-3	159	2	D-3	C	6.00	SR	S	C	N/A	O/C	A							N/A	Main Steam Relief		3
PSV 3022	2	212	94	E-4	159	2	D-4	C	6.00	SR	S	C	N/A	O/C	A							N/A	Main Steam Relief		3
PSV 3023	2	212	94	E-5	159	2	D-4	C	6.00	SR	S	C	N/A	O/C	A							N/A	Main Steam Relief		3
PSV 3024	2	212	94	E-5	159	2	D-5	C	6.00	SR	S	C	N/A	O/C	A							N/A	Main Steam Relief		3
PSV 3025	2	212	94	E-6	159	2	D-5	C	6.00	SR	S	C	N/A	O/C	A							N/A	Main Steam Relief		3
PSV 3031	2	212	94	C-3	159	2	B-3	C	6.00	SR	S	C	N/A	O/C	A							N/A	Main Steam Relief		3
PSV 3032	2	212	94	C-4	159	2	B-4	C	6.00	SR	S	C	N/A	O/C	A							N/A	Main Steam Relief		3
PSV 3033	2	212	94	C-5	159	2	B-4	C	6.00	SR	S	C	N/A	O/C	A							N/A	Main Steam Relief		3
PSV 3034	2	212	94	C-5	159	2	B-5	C	6.00	SR	S	C	N/A	O/C	A							N/A	Main Steam Relief		3
PSV 3035	2	212	94	C-6	159	2	B-5	C	6.00	SR	S	C	N/A	O/C	A							N/A	Main Steam Relief		3

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VEGP Unit No. 2

Valve Test List

System: Main Steam - System No. 1301

Sheet 4 of 4

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes	
																PIV	ET	ST	FSV	LT	SRV	CVET				
U4 006	3	313	94	G-5	159	2	G-4	C	4.00	CK	S	C	N/A	O/C	A								X	Auxiliary Feedwater (AFW) Pump Check		
U4 008	3	313	94	E-5	159	2	E-5	C	4.00	CK	S	C	N/A	O/C	A								X	AFW Pump Check		

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VEGP Unit No. 2

Valve Test List

System:

Auxiliary Feedwater - System No. 1302

Sheet 1 of 5

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 5106	3	313	98	G-5	161	3	G-5	B	4.00	GA	MO	C	AI	O	A	X	X	X					AFW Pump Turbine Valve		
HV 5113	3	313	97	F-7	161	2	E-8	B	10.00	B	MO	C	AI	O	A	X	X	X					Condensate Storage Tank (CST) V4-002 to Pump P4-001		
HV 5118	3	313	97	D-7	161	2	C-8	B	8.00	B	MO	C	AI	O	A	X	X	X					CST V4-002 to Pump P4-002		
HV 5119	3	313	97	B-7	161	2	A-8	B	8.00	B	MO	C	AI	O	A	X	X	X					CST V4-002 to Pump P4-003		
HV 5120	2	212	97	H-4	161	2	H-3	B	4.00	GL	MO	O	AI	O/C	A	X	X	X					AFW P4-001 Isolation to Steam Generator B6-004		
HV 5122	2	212	97	G-4	161	2	G-3	B	4.00	GL	MO	O	AI	O/C	A	X	X	X					AFW P4-001 Isolation to Steam Generator B6-001		
HV 5125	2	212	97	F-4	161	2	F-3	B	4.00	GL	MO	O	AI	O/C	A	X	X	X					AFW P4-001 Isolation to Steam Generator B6-002		
HV 5127	2	212	97	E-4	161	2	E-3	B	4.00	GL	MO	O	AI	O/C	A	X	X	X					AFW P4-001 Isolation to Steam Generator B6-003		
HV 5132	2	212	97	E-4	161	2	D-3	B	4.00	GL	MO	O	AI	O/C	A	X	X	X					AFW P4-002 Isolation to Steam Generator B6-002		

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## VEGP Unit No. 2

## Valve Test List

System:

Auxiliary Feedwater - System No. 1302

Sheet 2 of 5

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 5134	2	212	97	D-4	161	2	C-3	B	4.00	GL	MO	O	AI	O/C	A	X	X	X					AFW P4-002 Isolation to Steam Generator B6-003		
HV 5137	2	212	97	C-4	161	2	B-3	B	4.00	GL	MO	O	AI	O/C	A	X	X	X					AFW P4-003 Isolation to Steam Generator B6-004		
HV 5139	2	212	97	B-4	161	2	A-3	B	4.00	GL	MO	O	AI	O/C	A	X	X	X					AFW P4-003 Isolation to Steam Generator B6-001		
HV 15196	2	212	99	C-2	168	3	E-2	B	6.00	GA	AO	O	C	C	A	X	X	X	X				Feedwater Bypass Isolation to Steam Generator B6-001		
HV 15197	2	212	99	C-4	168	3	E-4	B	6.00	GA	AO	O	C	C	A	X	X	X	X				Feedwater Bypass Isolation to Steam Generator B6-002		
HV 15198	2	212	99	C-7	168	3	E-8	B	6.00	GA	AO	O	C	C	A	X	X	X	X				Feedwater Bypass Isolation to Steam Generator B6-003		
HV 15199	2	212	99	C-6	168	3	E-6	B	6.00	GA	AO	O	C	C	A	X	X	X	X				Feedwater Bypass Isolation to Steam Generator B6-004		
U4 001	3	313	97	C-5	161	2	B-5	C	4.00	CK	S	C	N/A	O	A							X	AFW Pump Out		

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VEGP Unit No. 2

Valve Test List

System: Auxiliary Feedwater - System No. 1302

Sheet 3 of 5

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
U4 002	3	313	97	D-5	161	2	D-5	C	4.00	CK	S	C	N/A	O	A								X	AFW Pump Out	
U4 014	3	313	97	F-5	161	2	F-5	C	6.00	CK	S	C	N/A	O	A								X	AFW Pump Out	
U4 017	2	212	97	H-4	161	2	H-3	C	4.00	CK	S	C	N/A	O	A								X	AFW Pump Isolation	4
U4 020	2	212	97	G-4	161	2	G-3	C	4.00	CK	S	C	N/A	O	A								X	AFW Pump Isolation	4
U4 023	2	212	97	F-4	161	2	F-3	C	4.00	CK	S	C	N/A	O	A								X	AFW Pump Isolation	4
U4 026	2	212	97	E-4	161	2	E-3	C	4.00	CK	S	C	N/A	O	A								X	AFW Pump Isolation	4
U4 037	2	212	97	E-4	161	2	D-3	C	4.00	CK	S	C	N/A	O	A								X	AFW Pump Isolation	4
U4 040	2	212	97	D-4	161	2	C-3	C	4.00	CK	S	C	N/A	O	A								X	AFW Pump Isolation	4
U4 043	2	212	97	C-4	161	2	B-3	C	4.00	CK	S	C	N/A	O	A								X	AFW Pump Isolation	4
U4 046	2	212	97	B-4	161	2	A-3	C	4.00	CK	S	C	N/A	O	A								X	AFW Pump Isolation	4
U4 113	2	212	99	E-3	168	3	F-2	C	4.00	CK	S	C	N/A	O	A								X	AFW to Steam Generator B6-001	4
U4 114	2	212	99	E-4	168	3	F-4	C	4.00	CK	S	C	N/A	O	A								X	AFW to Steam Generator B6-002	4
U4 115	2	212	99	E-8	168	3	F-8	C	4.00	CK	S	C	N/A	O	A								X	AFW to Steam Generator B6-003	4

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## VEGP Unit No. 2

## Valve Test List

System:

Auxiliary Feedwater - System No. 1302

Sheet 4 of 5

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2 X 4 DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes	
																PIV	ET	ST	FSV	LT	SRV	CVET				
U4 116	2	212	99	E-6	168	3	F-6	C	4.00	CK	S	C	N/A	O	A								X	AFW to Steam Generator B6-004		4
U4 117	2	212	99	D-3	168	3	F-2	C	6.00	CK	S	O	N/A	O/C	A								X	Feedwater Bypass to Steam Generator B6-001		
U4 118	2	212	99	D-5	168	3	F-4	C	6.00	CK	S	O	N/A	O/C	A								X	Feedwater Bypass to Steam Generator B6-002		
U4 119	2	212	99	D-6	168	3	F-6	C	6.00	CK	S	O	N/A	O/C	A								X	Feedwater Bypass to Steam Generator B6-004		
U4 120	2	212	99	D-8	168	3	F-8	C	6.00	CK	S	O	N/A	O/C	A								X	Feedwater Bypass to Steam Generator B6-003		
U4 121	2	212	99	F-3	168	3	G-2	C	6.00	CK	S	O	N/A	O/C	A								X	Feedwater Bypass to Steam Generator B6-001		
U4 122	2	212	99	F-5	168	3	G-4	C	6.00	CK	S	O	N/A	O/C	A								X	Feedwater Bypass to Steam Generator B6-002		
U4 123	2	212	99	F-6	168	3	G-6	C	6.00	CK	S	O	N/A	O/C	A								X	Feedwater Bypass to Steam Generator B6-004		
U4 124	2	212	99	F-8	168	3	G-8	C	6.00	CK	S	O	N/A	O/C	A								X	Feedwater Bypass to Steam Generator B6-003		

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VEGP Unit No. 2

Valve Test List

System:

Auxiliary Feedwater - System No. 1302

Sheet 5 of 5

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2 X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes	
																PIV	ET	ST	FSV	LT	SRV	CVET				
U4 125	2	212	99	F-3	168	3	G-2	C	6.00	CK	S	0	N/A	O/C	A								X	Feedwater Bypass to Steam Generator B6-001		
U4 126	2	212	99	F-5	168	3	G-4	C	6.00	CK	S	0	N/A	O/C	A								X	Feedwater Bypass to Steam Generator B6-002		
U4 127	2	212	99	F-6	168	3	G-6	C	6.00	CK	S	0	N/A	O/C	A								X	Feedwater Bypass to Steam Generator B6-004		
U4 128	2	212	99	F-8	168	3	G-8	C	6.00	CK	S	0	N/A	O/C	A								X	Feedwater Bypass to Steam Generator B6-003		

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## VEGP Unit No. 2

## Valve Test List

System:

Condensate Feedwater - System No. 1305

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2 X 4 DB	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 5227	2	212	99	D-2	168	3	F-1	B	16.00	GA	H	O	C	C	A	X	X	X	X				Steam Generator B6-001 Feedwater Isolation		
HV 5228	2	212	99	D-3	168	3	F-3	B	16.00	GA	H	O	C	C	A	X	X	X	X				Steam Generator B6-002 Feedwater Isolation		
HV 5229	2	212	99	D-7	168	3	F-7	B	16.00	GA	H	O	C	C	A	X	X	X	X				Steam Generator B6-003 Feedwater Isolation		
HV 5230	2	212	99	D-5	168	3	F-5	B	16.00	GA	H	O	C	C	A	X	X	X	X				Steam Generator B6-004 Feedwater Isolation		
UA 071	2	212	99	E-5	168	3	G-5	C	16.00	CK	S	O	N/A	O/C	A							X	Feedwater Check		
UA 073	2	212	99	E-2	168	3	G-1	C	16.00	CK	S	O	N/A	O/C	A							X	Feedwater Check		
UA 075	2	212	99	E-7	168	3	G-7	C	16.00	CK	S	O	N/A	O/C	A							X	Feedwater Check		
UA 077	2	212	99	E-3	168	3	G-3	C	16.00	CK	S	O	N/A	O/C	A							X	Feedwater Check		

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## VEGP Unit No. 2

## Valve Test List

System:

Condensate Chemical Injection - System No. 1411

Sheet 1 of 2

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2 X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 5278	N/A	212	100	B-5	159	3	G-1	A	0.50	GL	AO	C	C	C	P					X			Wet Layup Chemical Additive Blowdown Steam Generator B6-001 Containment Isolation - Penetration No. 69A		1
HV 5279	N/A	212	100	B-5	159	3	C-2	A	0.50	GL	AO	C	C	C	P					X			Wet Layup Chemical Additive Blowdown Steam Generator B6-002 Containment Isolation - Penetration No. 69B		1
HV 5280	N/A	212	100	E-7	159	1	G-2	A	0.50	GL	AO	C	C	C	P					X			Wet Layup Chemical Additive Blowdown Steam Generator B6-003 Containment Isolation - Penetration No. 11A		1
HV 5281	N/A	212	100	E-7	159	1	C-1	A	0.50	GL	AO	C	C	C	P					X			Wet Layup Chemical Additive Blowdown Steam Generator B6-004 Containment Isolation - Penetration No. 12A		1

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VEGP Unit No. 2

Valve Test List

System: Condensate Chemical Injection - System No. 1411

Sheet 2 of 2

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2 X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
U4 029	N/A	212	100	E-8	159	1	C-2	AC	0.50	CK	S	C	N/A	C	P					X			Steam Generator Test Connection Containment Isolation - Penetration No. 12A		1
U4 031	N/A	212	100	E-8	159	1	G-2	AC	0.50	CK	S	C	N/A	C	P					X			Steam Generator Test Connection Containment Isolation - Penetration No. 11A		1
U4 043	N/A	212	100	B-6	159	3	G-2	AC	0.50	CK	S	C	N/A	C	P					X			Steam Generator Test Connection Containment Isolation - Penetration No. 69A		1
U4 044	N/A	212	100	B-6	159	3	C-2	AC	0.50	CK	S	C	N/A	C	P					X			Steam Generator Test Connection Containment Isolation - Penetration No. 69B		1

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VEGP Unit No. 2

Valve Test List

System: Containment Air Purification and Cleanup - System No. 1505

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 2626A	N/A	212	100	E-3	213	1	E-7	A	24.00	B	MO	C	AI	C	A	X	X	X		X			Containment Building (CB) Normal Purge Supply Isolation - Penetration No. 83		1
HV 2626B	N/A	212	100	E-3	213	1	D-7	A	14.00	B	AO	C	C	C	A	X	X	X	X	X			CB Normal Purge Supply Isolation - Penetration No. 83		1
HV 2627A	N/A	212	100	E-2	213	1	E-6	A	24.00	B	MO	C	AI	C	A	X	X	X		X			CB Normal Purge Supply Isolation - Penetration No. 83		1
HV 2627B	N/A	212	100	E-2	213	1	D-6	A	14.00	B	AO	C	C	C	A	X	X	X	X	X			CB Normal Purge Supply Isolation - Penetration No. 83		1
U4 001	N/A	212	100	E-2	213	1	E-6	A	0.75	GA	M	LC	LC	LC	P					X			Containment Isolation Test - Penetration No. 83		1

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VEGP Unit No. 2

Valve Test List

System:

Containment Air Purification and Cleanup - System No. 1506

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 2628A	N/A	212	100	D-3	213	1	C-7	A	24.00	B	MO	C	AI	C	A	X	X	X		X			CB Normal Purge Exhaust Iso-lation Inside Reactor Con-tainment - Penetration No. 84		1
HV 2628B	N/A	212	100	D-3	213	1	B-7	A	14.00	B	AO	C	C	C	A	X	X	X	X	X			CB Normal Purge Exhaust Iso-lation Inside Reactor Con-tainment - Penetration No. 84		1
HV 2629A	N/A	212	100	D-2	213	1	C-6	A	24.00	B	MO	C	AI	C	A	X	X	X		X			CB Normal Purge Exhaust Iso-lation Out-side Reactor Containment - Penetration No. 84		1
HV 2629B	N/A	212	100	D-2	213	1	B-6	A	1.00	B	AO	C	C	C	A	X	X	X	X	X			CB Normal Purge Exhaust Iso-lation Out-side Reactor Containment - Penetration No. 84		1
U4 001	N/A	212	100	D-2	213	1	C-6	A	0.75	GA	M	LC	LC	LC	P					X			Containment Isolation Test - Pene-tration No. 84		1

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VEGP Unit No. 2

Valve Test List

System:

Containment Air Purification and Cleanup - System No. 1508

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 2624A	N/A	212	100	B-3	213	1	G-7	A	4.00	B	MO	C	AI	O	A	X	X	X		X			CB Post-Loss-of-Coolant Accident (LOCA) Purge Exhaust Isolation - Penetration No. 100		1
HV 2624B	N/A	212	100	B-3	213	1	F-7	A	4.00	B	MO	C	AI	O	A	X	X	X		X			CB Post-LOCA Purge Exhaust Isolation - Penetration No. 100		1
U4 001	N/A	212	100	B-2	213	1	G-6	A	0.75	GA	M	LC	LC	LC	P					X			Containment Isolation Test - Penetration No. 100		1
U4 012	N/A	212	100	B-2	213	1	G-6	A	4.00	GA	M	LC	LC	LC	P					X			Containment Isolation Valve - Penetration No. 100		1

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## VEGP Unit No. 2

## Valve Test List

System:

Containment Air Purification and Cleanup - System No. 1513

Sheet 1 of 2

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 2790A	N/A	212	100	G-5	213	2	E-7	A	0.75	GL	ES	C	C	O	A	X	X	X	X	X			Containment Hydrogen Monitor Suction - Penetration No. 70A		1
HV 2790B	N/A	212	100	F-5	213	2	D-7	A	0.75	GL	ES	C	C	O	A	X	X	X	X	X			Containment Hydrogen Monitor Suction - Penetration No. 70A		1
HV 2791A	N/A	212	100	G-4	213	2	E-6	A	0.75	GL	ES	C	C	O	A	X	X	X	X	X			Hydrogen Monitor Isolation Outside Reactor Containment - Penetration No. 70A		1
HV 2791B	N/A	212	100	F-4	213	2	C-6	A	0.75	GL	ES	C	C	O	A	X	X	X	X	X			Hydrogen Monitor Isolation Outside Reactor Containment - Penetration No. 71A		1
HV 2792A	N/A	212	100	F-5	213	2	D-7	A	0.75	GL	ES	C	C	O	A	X	X	X	X	X			Hydrogen Monitor Isolation Inside Reactor Containment - Penetration No. 71A		1
HV 2792B	N/A	212	100	E-5	213	2	C-7	A	0.75	GL	ES	C	C	C	A	X	X	X	X	X			Hydrogen Monitor Isolation Inside Reactor Containment - Penetration No. 71A		1

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## VEGP Unit No. 2

## Valve Test List

System:

Containment Air Purification and Cleanup - System No. 1513

Sheet 2 of 2

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2x4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests								Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET				
HV 2793A	N/A	212	100	F-4	213	2	B-6	A	0.75	GL	ES	C	C	O	A	X	X	X	X	X			Hydrogen Monitor Isolation Outside Reactor Containment - Penetration No. 70B		1	
HV 2793B	N/A	212	100	E-4	213	2	A-6	A	0.75	GL	ES	C	C	O	A	X	X	X	X	X			Hydrogen Monitor Isolation Outside Reactor Containment - Penetration No. 71B		1	
HV 8221	N/A	212	100	F-4	213	2	D-6	A	0.75	GL	S	C	N/A	O	A	X	X	X		X			Post-Accident Sampling - Penetration No. 70A		1	
U4 001	N/A	212	100	F-5	213	2	A-7	AC	0.75	CK	S	C	N/A	O/C	A					X		X	Containment Hydrogen Monitor Check - Penetration No. 70B		1	
U4 002	N/A	212	100	E-5	213	2	B-7	AC	0.75	CK	S	C	N/A	O/C	A					X		X	Containment Hydrogen Monitor Check - Penetration No. 71B		1	

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VEGP Unit No. 2

Valve Test List

System: Safety-Related (ESF) Chillers - System No. 1592

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB-	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
U4 186	3	313	100	G-5	221		F-4	C	6.00	CK	S	O	N/A	O/C	A								X	ESF Chilled Water Cooler Pump Check	
U4 187	3	313	100	C-5	221		C-4	C	6.00	CK	S	O	N/A	O/C	A								X	ESF Chilled Water Cooler Pump Check	

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VEGP Unit No. 2

Valve Test List

System: Radiation Monitor - System No. 1609

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2 X 4 DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 12975	N/A	212	100	D-8	213	2	E-3	A	1.00	GL	ES	O	C	C	A	X	X	X	X	X			Containment Air Radiation Monitor Inlet - Penetration No. 13A		1
HV 12976	N/A	212	100	D-7	213	2	E-2	A	1.00	GL	ES	O	C	C	A	X	X	X	X	X			Containment Air Radiation Monitor Inlet - Penetration No. 13A		1
HV 12977	N/A	212	100	D-7	213	2	D-2	A	1.00	GL	ES	O	C	C	A	X	X	X	X	X			Containment Air Radiation Monitor Inlet - Penetration No. 13B		1
HV 12978	N/A	212	100	D-8	213	2	D-3	A	1.00	GL	ES	O	C	C	A	X	X	X	X	X			Containment Air Radiation Monitor Inlet - Penetration No. 13B		1

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## VEGP Unit No. 2

## Valve Test List

System: Waste Processing System-Liquid - System No. 1901

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2 X 4 DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 7126	N/A	212	100	F-3	127		G-5	A	0.75	D	AO	O	C	C	A	X	X	X	X	X			Reactor Coolant Drain Tank Vent Isolation - Penetration No. 79		1
HV 7136	N/A	212	100	B-4	127		E-1	A	3.00	D	AO	O	C	C	A	X	X	X	X	X			Reactor Coolant Drain Tank Pump Discharge - Penetration No. 77		1
HV 7150	N/A	212	100	F-2	127		G-4	A	0.75	D	AO	O	C	C	A	X	X	X	X	X			Reactor Coolant Drain Tank Vent Isolation - Penetration No. 79		1
LV 1003	N/A	212	100	B-5	127		D-2	A	3.00	GL	AO	O	C	C	A	X	X	X	X	X			Reactor Coolant Drain Tank Pump Discharge - Penetration No. 77		1
U6 038	N/A	212	100	B-5	127		C-2	A	3.00	D	M	LC	LC	LC	P					X			Reactor Coolant Drain Tank Pump Discharge - Penetration No. 77		1
X 153	N/A	212	100	C-5	127		D-1	A	1.00	GL	M	LC	LC	LC	P					X			Drain - Penetration No. 77		1
X 154	N/A	212	100	B-5	127		D-1	A	1.00	GL	M	LC	LC	LC	P					X			Drain - Penetration No. 77		1
X 173	N/A	212	100	B-4	127		E-1	A	1.00	GL	M	LC	LC	LC	P					X			Drain - Penetration No. 77		1
X 229	N/A	212	100	C-4	127		D-1	A	1.00	GL	M	LC	LC	LC	P					X			Vent - Penetration No. 77		1

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VEGP Unit No. 2

Valve Test List

System:

Fire Protection Water - System No. 2301

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2 x4DB	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests								Function	Relief Requests	Notes
																P/V	ET	ST	FSV	LT	SRV	CVET				
HV 27901	N/A	212	100	E-5	174	4	B-7	A	6.00	GA	AO	C	C	C	P					X			Fire Protection Header Containment Isolation - Penetration No. 40		1	
DA 018	N/A	212	100	E-6	174	4	B-7	A	1.00	GA	M	LC	LC	LC	P					X			Fire Protection Header Containment Isolation - Penetration No. 40		1	
DA 036	N/A	212	100	E-6	174	4	B-7	AC	6.00	CK	S	C	N/A	C	P					X			Fire Protection Header Containment Isolation - Penetration No. 40		1	

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## VEGP Unit No. 2

## Valve Test List

System:

Service Air - System No. 2401

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D Number	Coordinates	P & ID 2x4DB	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
WV 9385	N/A	212	100	F-2	186	1	D-3	A	4.00	CA	AO	C	C	C	P					X			Containment Isolation - Penetration No. 80		1
WV 03A	N/A	212	100	F-3	186	1	D-2	AC	4.00	CK	S	C	N/A	C	P					Y			Containment Isolation - Penetration No. 80		1
WV 18A	N/A	212	100	C-8	186	1	C-3	AC	1.50	CK	S	C	N/A	C	P					X			Containment Isolation - Penetration No. 23		1
WV 211	N/A	212	100	C-7	186	1	C-3	A	1.50	CA	M	C	N/A	C	P					X			Containment Isolation - Penetration No. 23		1
WV 225	N/A	212	100	C-8	186	1	C-3	A	0.75	GL	M	C	N/A	C	P					X			Drain - Penetration No. 23		1
WV 228	N/A	212	100	F-2	186	1	D-3	A	0.75	GL	M	C	N/A	C	P					X			Vent - Penetration No. 80		1
WV 229	N/A	212	100	F-3	186	1	D-3	A	0.75	GL	M	C	N/A	C	P					X			Drain - Penetration No. 80		1

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VEGP Unit No. 2  
Valve Test List

System:

Nitrogen to Accumulator and Steam - System No. 2602

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID	Sheet No.	Coordinates	Valve Category	Size (Inches)	Valve Type	Actuator Type	Normal Position	Fall Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
013	N/A	212	1000	D-6	120	G-1	G-1	A	1.00	CL	AC	C	C	C	P								Accumulator Nitrogen Supply Isolation - Penetration No. 42		1
017	N/A	212	1000	E-6	120	G-1	G-1	A	0.75	CL	N	C	C	C	P								Containment Isolation Valve Test Tap - Penetration No. 42		1
017	N/A	212	1000	D-6	120	G-1	G-1	AC	1.00	CK	C	C	N/A	C	P								Nitrogen Supply Containment Isolation Valve - Penetration No. 42		1

## VEGP Unit No. 2

## Valve Test List

System:

Instrument Air - System No. 2420

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI D. Number	Coordinates	P & ID 2 X4DB	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 9378	N/A	212	100	E-2	186	2	C-3	A	2.00	GL	AO	O	C	C	A	X	X	X	X	X			Containment Isolation - Penetration No. 81		1
U4 049	N/A	212	100	E-3	186	2	C-2	AC	2.00	CK	S	O	N/A	C	A					X		X	Containment Isolation - Penetration No. 81		1
U4 256	N/A	212	100	E-3	186	2	D-3	A	0.75	GL	M	C	N/A	C	P					X			Drain - Penetration No. 81		1

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## VEGP Unit No. 2

## Valve Test List

System: Post-Accident Sampling - System No. 2702

Sheet 1 of 1

Valve Number	ISI Class	Project Class	ISI-D. Number	Coordinates	P & ID 2X4DB.	Sheet No.	Coordinates	Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Fail Position	Safety Position	Active or Passive	Tests							Function	Relief Requests	Notes
																PIV	ET	ST	FSV	LT	SRV	CVET			
HV 8208	N/A	212	100	C-2	110		H-8	A	1.00	GL	S	O	C	C	A	X	X	X	X	X			Containment Isolation - Penetration No. 86C		1
HV 8209	N/A	212	100	C-3	110		H-7	A	1.00	GL	S	O	C	C	A	X	X	X	X	X			Containment Isolation - Penetration No. 86C		1
HV 8211	N/A	212	100	C-3	110		A-8	A	0.50	GL	S	O	C	C	A	X	X	X	X	X			Containment Isolation - Penetration No. 86A		1
HV 8212	N/A	212	100	C-2	110		A-7	A	0.50	GL	S	O	C	C	A	X	X	X	X	X			Containment Isolation - Penetration No. 86A		1
X 002	N/A	212	100	D-3	110		F-4	A	1.00	GL	M	C	LC	C	P					X			Containment Isolation - Penetration No. 86A		1
X 006	N/A	212	100	C-3	110		H-7	A	1.00	GL	M	G	LC	C	P					X			Containment Isolation - Penetration No. 86C		1
00631																									

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NOTES

1. Valves listed for Appendix J to 10 CFR 50.
2. This is a pressure isolation valve.
3. Safety and relief valves which will be removed and bench tested during subsequent inservice tests need not be installed prior to the preservice test. No preservice test required.
4. This check valve is locked open; i.e. not locked closed.