



DANIEL CONSTRUCTION COMPANY
SOUTH CAROLINA ELECTRIC & GAS COMPANY
VIRGIL C. SUMMER NUCLEAR STATION

NP-13
Drawing No. 1 of 4
Date

HYDROSTATIC & PNEUMATIC TEST REPORT

DESCRIPTION DG-10-H1: DG-A CRANKCASE VACUUM		DRAWING NO. D-302-353	DATE 8-21-80
COTE ASME SECTION III	CLASS: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> N/A		
TEST BOUNDARIES OIL SEPARATOR, OIL SEPARATOR DRAIN LINE TO SUMP ISOLATION VALVE			
FINAL HYDRO REPORT			
DATE..... OCT 4 1980			
DESIGN OPERATING PRESSURE	STATIC HEAD PSIG	DESIGN OPERATING TEMPERATURE	60 °F
TEST TYPE: <input checked="" type="checkbox"/> HYDROSTATIC	PNEUMATIC <input type="checkbox"/> OTHER (See Remarks) <input type="checkbox"/>		
TEST MEDIA WATER	WATER QUALITY <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C		
REQUIRED TEST PRESS. STATIC HEAD PSIG	MINIMUM TEST MEDIUM TEMP. PRIOR TO PRESSURIZATION	60 °F	
REPORT INITIATED BY PIPING ENGINEER D.A. Coe	DATE 10-4-80	INSTRUMENT ENGINEER OK TO TEST D.H. Coe	DATE 9-30-80
PREREQUISITES VERIFICATION OC ENGINEER J.D. Coe	DATE 10-2-80	HANGER ENGINEER OK TO TEST J.D. Coe	DATE 10-2-80
SYSTEM IS READY FOR TEST: PIPING SUB. OR SCHEM. J.D. Coe		DATE 10/4/80	DOC PIPING ENGINEER D.A. Coe DATE 10-4-80
TIME TEST STARTED 16:01 hrs 10/4/80	GAGE READINGS (START) A N/A MTR 10/4/80 B NA MTR 10/4/80	TIME AT PRESSURE 14 MINUTES APPROX. TEMP. OF TEST MEDIA 66 °F	
TIME TEST COMPLETED 16:11 hrs. 10/4/80	GAGE READINGS (COMPLETE) A N/A MTR 10/4/80 B NA MTR 10/4/80	GAGE NO. USED A N/A MTR 10/4/80 B N/A	
GAGE RANGE NCC 10/4/80 A N/A B N/A	DATE CALIBRATED A N/A MTR 10/4/80 B N/A	CALIBRATION DUE DATE A N/A MTR 10/4/80 B N/A	
HYDRAULIC SER. # DTE/3125/65 CALIB. DUE DATE 2/14/91	RELIEF VALVE SER. # NA MTR CALIB. DUE DATE 10/4/80	RELIEF VALVE SER. # NA MTR CALIB. DUE DATE 10/4/80	
REMARKS NO GAGES Required For Static head. GAGE OVERFLOW WAS observed From oil separator tank when water was at other end of HYDRO. tested Temp 10/4/80			
TESTED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NO. NON-CORROSION NOTING(S) NO.			
INITIATED BY J.D. Coe DATE 10-4-80		OC ENGINEER J.D. Coe DATE 10/4/80	
REVIEWED BY J.D. Coe DATE 10-4-80		OC ENGINEER J.D. Coe DATE 10-17-80	

HYDROSTATIC/STRESSWELD TEST BOUNDARY DATA SHEET

HYDROTEST NO. DG-10-H1 DATA SET 1 OF 1

PIPE ISO/INSTRUMENT NO. DE-DG-14 REV. 4

WELDS: FW-1 FW-2, FW-3, FW-4, FW-5, FW-6, FW-7,
FW-18, FW-19, SW-12, FW-20

1" Third conn (Pc#8 into XTK-123A-DG)

PIPE ISO/INSTRUMENT NO. SE-DG-23 REV. OB

SPOOLS: DG-23-01, DG-23-02, DG-23-01 pc A pc B

WELDS: FW-1, FW-2, FW-3, FW-6, FW-7, FW-8

VW 2-4

HANGER WELDS: FW-4, FW-5

PIPE ISO/INSTRUMENT NO. _____ REV. _____

PIPE ISO/INSTRUMENT NO. _____ REV. _____

WATER ANALYSIS/CERTIFICATION FORM

ATTACHMENT 1

Page 1 of 1

Rev. 2

Section I

Tank/System Sampled: DEMINERALIZED WATER STORAGE TANK.

Certified to Grade A Serial No. 80-10-03

Date/Time of Sample 10/3/90 @ 0930

Date/Time Certification Expires 10/7/90 @ 0930

Remarks/Other Data _____

Section II

ANALYSIS	LIMITS	RESULTS
pH	6.0 - 8.0	7.5
Conductivity	2.0 μ mhos/cm.	0.92
Chloride	0.1 ppm	< 0.024 μ m
Fluoride	(Total)	< 0.010
Oxygen	0.10 ppm	—
Silica	0.10 ppm	< 0.005
Potassium	0.01 ppm	< 0.005
Sodium	0.01 ppm	< 0.005
Aluminum	0.02 ppm	< 0.005
Calcium	0.02 ppm	< 0.005
Magnesium	0.02 ppm	< 0.005
Suspended Solids	0.1 ppm	< 0.010
Total Solids	0.5 ppm	< 0.10

SWIDNER
ANALYST

10-5-90
DATE

CHEMISTRY SUPERVISOR
OR ASST. CHIEF, SUPERVISOR

Section ITank/System Sampled: DEMINERALIZED WATER STORAGE TANK.Certified to Grade A Serial No. 80-10-03Date/Time of Sample 10/3/80 @ 0930Date/Time Certification Expires 10/7/80 @ 0930


Remarks/Other Data _____

Section II

ANALYSIS	LIMITS	RESULTS
pH	6.0 - 8.0	7.5
Conductivity	2.0 μ mhos/cm.	0.92
Chloride	0.1 ppm	<0.024 ppm
Fluoride	(Total)	<0.010
Oxygen	0.10 ppm	—
Silica	0.10 ppm	<0.005
Potassium	0.01 ppm	<0.005
Sodium	0.01 ppm	<0.005
Aluminum	0.02 ppm	<0.005
Calcium	0.02 ppm	<0.005
Magnesium	0.02 ppm	<0.005
Suspended Solids	0.1 ppm	<0.010
Total Solids	0.5 ppm	<0.16

D. WIDNER
ANALYST10-3-80

DATE


CHEMISTRY SUPERVISOR
or ASST. CHEM. SUPERVISOR

PUMP NUMBER	SYSTEM	PUMP DESCRIPTION	DRAWING NUMBER	CO-ORD	RELIEF REQUEST	REMARKS
XFP-21A	EF	MOTOR DRIVEN EMERGENCY FEED WATER PUMP	302-085	D-7	NO	C-802EP-1 *
XFP-21B	EF	MOTOR DRIVEN EMERGENCY FEED WATER PUMP	302-085	F-6	NO	C-802EP-1 *
XFP-8	EF	TURBIN DRIVEN EMERGENCY FEED WATER PUMP	302-085	H-6	NO	C-802EP-2 *
XFP-39A	SW	SERVICE WATER PUMP	302-221	C-2	NO	C-791-SW-1 *
XFP-39B	SW	SERVICE WATER PUMP	302-221	C-10	NO	C-791-SW-1 *
XFP-39C	SW	SERVICE WATER PUMP	302-221	C-6	NO	C-791-SW-1 *
XFP-45A	SW	SERVICE WATER BOOSTER PUMP	302-222	C-6	NO	C-791-SW-1 *
XFP-45B	SW	SERVICE WATER BOOSTER PUMP	302-222	C-6	NO	C-791-SW-1 *
XFP-141A	DG	DIESEL GENERATOR FUEL OIL TRANSFER PUMP	302-351	C-14	NO	DC-3 *
XFP-141B	DG	DIESEL GENERATOR FUEL OIL TRANSFER PUMP	302-351	C-2	NO	DC-3 *
XFP-4A	DG	DIESEL GENERATOR FUEL OIL TRANSFER PUMP	302-351	C-12	NO	DC-3 *
XFP-4B	DG	DIESEL GENERATOR FUEL OIL TRANSFER PUMP	302-351	C-3	NO	DC-3 *

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E. VALVE INSPECTION

The planned Preservice Inspection and Testing of valves has been developed employing Reg. Guide 1.26, "Criteria for Quality Group Classification and Standards", and Branch Technical Position MEB No. 2 "Pump and Valve Operability Assurance Program".

The valve test program will be conducted in accordance with Subsection IWV of Section XI of the 1974 edition of the ASME Boiler Pressure Vessel Code through Summer 1975 addenda.

The bases used in developing the list of valves to be tested was; those valves required to perform a specific function in shutting down the reactor to the cold shutdown condition or in mitigating the consequences of an accident. More specifically, those valves that receive a safety signal, (i.e. Containment Isolation, Safety Injection or Feedwater Isolation), and are required to change position to fulfill their function.

The list also includes those valves necessary to support equipment required to function during plant shutdown and/or accident condition, including containment isolation.

Baseline data to support the inservice inspection of valves will be compiled during the Phase II testing (Preoperational Test Phase) of the station utilizing applicable Phase II test procedures.

This data will be complied in accordance with subsection IWV of ASME Code, Section XI 1974 edition through Summer 1975 addenda.

NOTE: Baseline data for leak testing Category A valves will be performed utilizing Phase II test procedure LR-4 (Containment Local Leak Rate Test Type B & C).

SECTION E INDEX

1. List of Drawings
2. List of Valve Categories
3. List of Definitions and Valve Table Symbols
4. Sample Data Sheet
 - a. Preservice/Baseline Date Sheet
5. List of Valves

B. VALVE TESTING

1. FS - Exercise valves (full stroke) for operability every three (3) months measuring time of stroke and comparing it to the previous measured time.
2. LT - Valves are leak tested at each refueling outage per appendix J to 10 CFR-50.55a.
3. CV - Exercise check valves to the position required to fulfill their function every three (3) months.
4. SRV - Safety and Relief valves are tested per Section XI Article IWV-3510.
5. CS - Exercise valves (full stroke) for operability every cold shutdown measuring time of stroke and comparing it to the previous measured time.
6. RS - Exercise valve (full stroke) for operability every refueling shutdown measuring time of stroke and comparing it to the previous measured time.

C. VALVE LIST NOTES

- NOTE 1 Normal position - indicates the position of the valve, NO or NC, during plant operation.
- NOTE 2 Position Indication - a Yes in this column indicates that the valve has remote position indication.
- NOTE 3 Test Requirement - indicates those required test to a valve as listed in ASME code Section XI, Subsection IWV.
- NOTE 4 Relief Request - indicate whether or not relief has been requested. If a "Yes" appears in this column, it will be followed by a A-1, B-1 etc; which indicates the relief request number in the relief request section of the program.
- NOTE 5 Alternate Test - if relief has been requested the alternate test will be listed in this column.
- NOTE 6 Remarks - The stroke times listed here are the maximum stroke time for the applicable valves.

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4))	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVU-8033	RC	P.R.T VENT & N2 HDR ISOL 1" AIR OPERATED (DIAPHRAGM)	A 2a	114E072 (2)	J-5	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 420 ISOL
XVU-8047	RC	P.R.T VENT & N3 HDR ISOL (IBC) 1" AIR OPERATED (DIAPHRAGM)	A 2a	114E072 (2)	I-5	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 420 ISOL
XVU-8028	RC	P.R.T SPRAY HDR ISOL (OMC)	A 2a	114E072 (2)	I-2	HC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 422 ISOL
XVC-8045	RC	P.R.T SPRAY HDR CHECK 3" CHECK	A/C 2a	114E072 (2)	I-3	--	--	CV LT	NO NO	N/A N/A	PENET 422 ISOL VALVE
XVR-8010A	RC	PRZR CODE SAFETY 6" RELIEF VALVE	C 1	114E072 (2)	C-9	--	--	SRV	NO	N/A	
XVR-8010B	RC	PRZR CODE SAFETY 6" RELIEF VALVE	C 1	114E072 (2)	C-11	--	--	SRV	NO	N/A	
XVR-8010C	RC	PRZR CODE SAFETY 6" RELIEF VALVE	C 1	114E072 (2)	C-12	--	--	SRV	NO	N/A	
XVT-8095A	RC	REACTOR VESSEL HEAD VENT 2" MOTOR OPERATED	A 1	114E072 (1)	P-4	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 16 SEC
XVT-8095B	RC	REACTOR VESSEL HEAD VENT 2" MOTOR OPERATED	A 1	114E072 (1)	P-5	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 16 SEC
XVT-8096A	RC	REACTOR VESSEL HEAD VENT 2" MOTOR OPERATED	A 1	114E072 (1)	P-4	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 16 SEC
XVT-8096B	RC	REACTOR VESSEL HEAD VENT 2" MOTOR OPERATED	A 1	114E072 (1)	P-4	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 16 SEC
PCV-445A	RC	PRZR PUR OP RELIEF 3" AIR OPERATED	B 1	114E072 (2)	G-13	NO	YES	FS	NO	N/A	STROKE TIME 2 SEC (ACTUATED W/HP NITROGEN)
PCV-445B	RC	PRZR PUR OP RELIEF 3" AIR OPERATED	B 1	114E072 (2)	P-13	NO	YES	FS	NO	N/A	STROKE TIME 2 SEC

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST) (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
PCV-444B	BC	PRZR INR OP RELIEF 3" AIR OPERATED	B 1	114E072 (2)	F-13	NO	YES	FS	NO	N/A	STROKE TIME 10 SEC
XVT-8152	CS	LETDOWN FROM REGEN HX HDR ISOL (ORC) 3" AIR OPERATED GLOBE VALVE	A 2a	114E073 (1)	J-2	NO	YES	FS	NO	N/A	STROKE TIME 10 SEC PENET 318 ISOL (ORC);
XVC-8181	CS	CHARGING FROM REGEN HX HDR CHECK (IRC) 3" CHECK VALVE	A/C 2a	114E073 (1)	J-3	--	--	CV LT	NO NO	N/A N/A	PENET 409 ISOL VLV
XVT-8149A	CS	LETDOWN FLOW CONTROL (45 GPM) 2" AIR OPERATED GLOBE	A 2a	114E073 (1)	J-8	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 318 ISOL (IRC)
XVT-8149B	CS	LETDOWN FLOW CONTROL (50 GPM) 2" AIR OPERATED GLOBE	A 2a	114E073 (1)	J-7	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 318 ISOL (IRC)
XVT-8149C	CS	LETDOWN FLOW CONTROL (60 GPM) 2" AIR OPERATED GLOBE	A 2a	114E073 (1)	J-7	NC	YES	FS LT	NO NO	N/A N/A	STROKE 10 SEC PENET 318 ISOL (IRC)
XVR-8117	CS	LETDOWN FLOW CONTROL HDR CHECK 2" RELIEF VALVE	C 2a	114E073 (1)	J-8	--	--	SRV	NO	N/A	
XVT-8100	CS	RCP SEAL RETURN HDR ISOL (ORC) 2" MOTOR OPERATED VALVE	A 1	114E073 (1)	H-2	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC
XVC-8103	CS	RCP SEAL RETURN ISOL BYPASS CHECK (IRC) " CHECK VALVE	A/C 2a	114E073 (1)	H-2	--	--	CV LT	NO NO	N/A N/A	
XVT-8112	CS	RCP SEAL RETURN HDR ISOL (IRC) 3" MOTOR OPERATED VALVE	A 2a	114E073 (1)	H-2	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 410 ISOL VALVE

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO- ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVC-8158A	CS	RCP A SEAL SUPPLY HDR CHECK (IRC) 1 1/2" CHECK VALVE	A/C 2a	114E073 (1)	D-13	--	--	CV LT	NO NO	N/A N/A	PENET 408 ISOL VALVE
XVC-8168B	CS	RCP B SEAL SUPPLY HDR CHECK (IRC) 1 1/2" CHECK VALVE	A/C 2a	114E073 (1)	D-13	--	--	CV LT	NO NO	N/A N/A	PENET 229 ISOL VALVE
XVC-8168C	CS	RCP C SEAL SUPPLY HDR CHECK (IRC) 1 1/2" CHECK VALVE	A/C 2a	114E073 (1)	D-13	--	--	CV LT	NO NO	N/A N/A	PENET 221 ISOL VALVE
XVT-8102A	CS	RCP A SEAL SUPPLY ISOL (ORC) 1 1/2" MOTOR OPERATED VALVE	A 2a	114E073 (1)	C-12	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 408 ISOL VALVE
XVT-8102B	CS	RCP B SEAL SUPPLY ISOL (ORC) 1 1/2" MOTOR OPERATED VALVE	A 2a	114E073 (1)	C-12	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 229 ISOL VALVE
XVT-8102C	CS	RCP C SEAL SUPPLY ISOL (ORC) 1 1/2" MOTOR OPERATED VALVE	A 2a	114E073 (1)	C-12	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 221 ISOL VALVE
XVC-8106	CS	CIC PUMPS MINI FLOW HDR ISOL 1" MOTOR OPERATED VALVE	B 2a	114E073 (3)	F-12	NO	YES	FS	NO	N/A	STROKE TIME 10 SEC
XVT-8107A	CS	CIC PUMPS MINI FLOW HDR ISOL 2" MOTOR OPERATED VALVE	B 2a	114E073 (3)	F-9	NO	YES	FS	NO	N/A	STROKE TIME 10 SEC
XVT-8109B	CS	CIC PUMP B MINI FLOW ISOL 2" MOTOR OPERATED VALVE	B 2a	114E073 (3)	D-9	NO	YES	FS	NO	N/A	STROKE TIME 10 SEC
XVT-8109C	CS	CIC PUMP C MINI FLOW ISOL 2" MOTOR OPERATED VALVE	B 2a	114E073 (3)	E-9	NO	YES	FS	NO	N/A	STROKE TIME 10 SEC
XVC-8107	CS	CIC HEADER ISOL 2" MOTOR OPERATED VALVE	A 2a	114E073 (3)	E-13	NO	YES	LT FS	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 409 ISOL VALVE
XVC-8108	CS	CIC HDR ISOL 2" MOTOR OPERATED VALVE	A 2a	114E073 (3)	E-13	NO	YES	LT FS	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 409 ISOL VALVE
XVC-8481A	CS	CIC PUMP A DISCHARGE CK 3" CHECK VALVE	C 2a	114E073 (3)	E-9	--	--	CV	NO	N/A	STROKE TIME 10 SEC PENET 409 ISOL VALVE

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE ACT/CLS	BLUING NUMBER	CO-ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF REQUEST (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVC-8481a	CS	CHG PUMP B DISCHARGE CHECK 3" CHECK VALVE	C 2a	114E073 (3)	C-9	--	--	CV	NO	N/A	
XVC-8481G	CS	CHG PUMP B DISCHARGE CHECK 3" CHECK VALVE	C 2a	114E073 (3)	D-9	--	--	CV	NO	N/A	
XVC-8480A	CS	CHG PUMP A MINI FLOW HDR CHECK 2" CHECK VALVE	C 2a	114E073 (3)	F-9	--	--	CV	NO	N/A	
XVC-8480B	CS	CHG PUMP B MINI FLOW HDR CK 2" CHECK VALVE	C 2a	114E073 (3)	D-9	--	--	CV	NO	N/A	
XVC-8480C	CS	CHG PUMP C MINI FLOW HDR CK 2" CHECK VALVE	C 2a	114E073 (3)	E-9	--	--	CV	NO	N/A	
XVT-8105	CS	RCP'S SEAL WATER SUPPLY ISOL 2" MOTOR OPERATED VALVE	B 2a	114E073 (3)	B-11	NO	YES	FS	NO	N/A	STROKE TIME 10 SEC
LCV-459	CS	HC LETDOWN LINE ISOL VALVE 3" AIR OPERATED	B 1	114E073 (1)	J-12	NO	YES	FS	NO	N/A	STROKE TIME 10 SEC
LCV-460	CS	HC LETDOWN LINE ISOL VALVE 3" AIR OPERATED	B 1	114E073 (1)	J-12	NO	YES	FS	NO	N/A	STROKE TIME 10 SEC
LCV-115C	CS	VCT OUTLET ISOLATION 4" MOTOR OPERATED	B 2a	114E073 (3)	F-7	NO	YES	FS	NO	CS	STROKE TIME 10 SEC
LCV-115E	CS	VCT OUTLET HDR ISOL 4" MOTOR OPERATED	B 2a	114E073 (3)	F-7	NC	YES	FS	NO	N/A	STROKE TIME 10 SEC
LCV-115B	CS	WST ISOL TO CHARGE PUMP A SUCTION HEADER 8" MOTOR OPERATED	B 2a	114E073 (3)	D-6	NC	YES	FS	NO	N/A	STROKE TIME 10 SEC
LCV-115D	CS	WST ISOL TO CHARGE PUMP B SUCTION HEADER 8" MOTOR OPERATED	B 2a	114E073 (3)	C-6	NC	YES	FS	NO	N/A	STROKE TIME 10 SEC
XVC-8716B	RR	WH SUPPLY HDR B CHECK 10" CHECK VALVE	C 2a	114E074	H-10	--	--	CV	NO	N/A	

VALVE IDENT #	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CG-ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF REQUEST (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVR-8700A	SI	RHR A HDR RELIEF 3" RELIEF VALVE	A/C 2a	114E074	P-11	--	--	SRV LT	NO NO	N/A N/A	
XVR-8700B	RH	RHR B HDR RELIEF 3" RELIEF VALVE	A/C 2a	114E074	D-11	--	--	SRV LT	NO NO	N/A N/A	
XVC-8701C	RH	RHR A HDR ISOL 12" MOTOR OPERATED VALVE	A 1	114E074	C-12	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 120 SEC FENET 276 ISOL
XVC-8701B	RH	RHR B HDR ISOL 12" MOTOR OPERATED VALVE	A 1	114E074	E-12	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 120 SEC FENET 316 ISOL
XVC-8702A	RH	RHR A HDR ISOL 12" MOTOR OPERATED VALVE	B 1	114E074	C-12	NC	YES	FS	NO	N/A	STROKE TIME 120 SEC
XVC-8702B	RH	RHR B HDR ISOL 12" MOTOR OPERATED VALVE	B 1	114E074	E-12	NC	YES	FS	NO	N/A	STROKE TIME 120 SEC
XVC-8716A	RH	RH SUPPLY HDR A CHECK 10" CHECK VALVE	C 2a	114E074	I-10	--	--	CV	NO	N/A	
FCV-602A	RH	HR PUMP A MINIFLOW VALVE 2" MOTOR OPERATED	B 2a	114E074	P-9	NO	YES	FS	NO	N/A	STROKE TIME 10 SEC
FCV-602A	RH	HR PUMP A MINIFLOW VALVE 2" MOTOR OPERATED	B 2a	114E074	P-9	NO	YES	FS	NO	N/A	STROKE TIME 10 SEC
XVC-6801A	SI	BORON INJ TX OUTLET 3" MOTOR OPERATED VALVE	A 2a	114E075 (1)	G-12	NC	YES	LT FS	NO NO	N/A N/A	STROKE TIME 10 SEC FENET 426 ISOL VALVE
XVC-6801B	SI	BORON INJ TX OUTLET 3" MOTOR OPERATED VALVE	A 2a	114E075 (1)	G-12	NC	YES	LT FS	NO NO	N/A N/A	STROKE TIME 10 SEC FENET 426 ISOL VALVE
XVC-6804	SI	HI HD HOT L/C INJ TROL 3" MOTOR OPERATED VALVE	A 2a	114E075 (1)	G-5	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC FENET 415 ISOL VALVE
XVC-8805	SI	HI HD COLD LEG INJ ISOL 3" MOTOR OPERATED VALVE	A 2a	114E075 (1)	G-7	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC FENET 272 ISOL VALVE

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF REQUEST (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVC-8805	SI	HI HD HOT LEG INJ ISOL 3" MOTOR OPERATED VALVE	A 2a	114E075 (1)	G-7	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 222 ISOL VALVE
XVC-8806	SI	HI HD HOT LEG INJ ISOL 3" MOTOR OPERATED VALVE	A 2a	114E075 (1)	G-7	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 412 ISOL VALVE
XVC-8975A	SI	11M HD COLD LEG TO LOOP A CHECK 6" CHECK VALVE	A/C 1	114E075 (1)	J-13	--	--	CV LT	NO NO	N/A N/A	
XVC-8975B	SI	11M HD COLD LEG TO LOOP B CHECK 6" CHECK VALVE	A/C 1	114E075 (1)	J-13	--	--	CV LT	NO NO	N/A N/A	
XVC-8975C	SI	11M HD COLD LEG TO LOOP C CHECK 6" CHECK VALVE	A/C 1	114E075 (1)	I-13	--	--	CV LT	NO NO	N/A P/A	
XVC-8976A	SI	11M HD COLD LEG TO LOOP A CHECK 6" CHECK VALVE	A/C 1	114E075 (1)	I-13	--	--	CV LT	NO NO	N/A N/A	PENET 426
XVC-8976B	SI	11M HD COLD LEG TO LOOP B CHECK 6" CHECK VALVE	A/C 1	114E075 (1)	I-12	--	--	CV LT	NO NO	N/A N/A	PENET 426
XVC-8976C	SI	11M HD COLD LEG TO LOOP C CHECK 6" CHECK VALVE	A/C 1	114E075 (1)	I-12	--	--	CV LT	NO NO	N/A N/A	PENET 426 ISOL VALVE
XVC-8975A	SI	HI HD HOT LEG LOOP A CHECK 2" CHECK VALVE	A/C 1	114E075 (1)	I-11	--	--	CV LT	NO NO	N/A N/A	PENET 222 ISOL VALVE
XVC-8975B	SI	HI HD HOT LEG LOOP B CHECK 2" CHECK VALVE	A/C 1	114E075 (1)	I-10	--	--	CV LT	NO NO	N/A P/A	PENET 222 ISOL VALVE
XVC-8975C	SI	HI HD HOT LEG LOOP C CHECK 2" CHECK VALVE	A/C 1	114E075 (1)	I-9	--	--	CV LT	NO NO	N/A N/A	PENET 222 ISOL VALVE
XVC-8976A	SI	RHW SUPPLY TO A LOOP A 6" CHECK VALVE	A/C 1	114E075 (1)	J-7	--	--	CV LT	NO NO	N/A N/A	PENET 325 ISOL VALVE
XVC-8976B	SI	RHW SUPPLY TO B LOOP B 6" CHECK VALVE	A/C 1	114E075 (1)	J-7	--	--	CV LT	NO NO	N/A N/A	PENET 325 ISOL VALVE

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARK (NOTE #6)
XVC-8991A	SI	HI HD HOT LEG LOOP A HDR CHECK 6" CHECK VALVE	A/C 1	114E075 (1)	J-3	--	--	CV LT	NO NO	N/A N/A	
XVC-8991B	SI	HI HD HOT LEG LOOP B HDR CK 6" CHECK VALVE	A/C 1	114E075 (1)	J-3	--	--	CV LT	NO NO	N/A N/A	
XVC-8991C	SI	HI HD HOT LEG LOOP C HOLE CK 6" CHECK VALVE	A/C 1	114E075 (1)	J-3	--	--	CV LT	NO NO	N/A N/A	
XVC-8991A	SI	LOM HD HOT LEG LOOP A CHECK 2" CHECK VALVE	A/C 1	114E075 (1)	I-7	--	--	CV LT	NO NO	N/A N/A	PERMET 412 ISOL VALVE
XVC-8991B	SI	LOM HD HOT LEG LOOP B CHECK 2" CHECK VALVE	A/C 1	114E075 (1)	I-6	--	--	CV LT	NO NO	N/A N/A	PERMET 412 ISOL VALVE
XVC-8991C	SI	LOM HD HOT LEG LOOP C CHECK 2" CHECK VALVE	A/C 1	114E075 (1)	I-5	--	--	CV LT	NO NO	N/A N/A	PERMET 412 ISOL VALVE
XVC-8992A	SI	HI HD HOT LEG LOOP A CHECK 2" CHECK VALVE	A/C 1	114E075 (1)	I-5	--	--	CV LT	NO NO	N/A N/A	PERMET 413 ISOL VALVE
XVC-8992B	SI	HI HD HOT LEG LOOP B CHECK 2" CHECK VALVE	A/C 1	114E075 (1)	I-4	--	--	CV LT	NO NO	N/A N/A	PERMET 413 ISOL VALVE
XVC-8992C	SI	HI HD HOT LEG LOOP C CHECK 2" CHECK VALVE	A/C 1	114E075 (1)	I-3	--	--	CV LT	NO NO	N/A N/A	PERMET 415 ISOL VALVE
XVC-8945A	SI	BORON INJ RECIRC HDR ISOL 1" AIR OPERATED VALVE	B 2a	114E075 (1)	P-12	NO	YES	FS	NO	N/A	STROKE TIME 10 SEC
XVC-8945B	SI	BORON INJ RECIRC HDR ISOL 1" AIR OPERATED VALVE	B 2a	114E075 (1)	P-12	NO	YES	FS	NO	N/A	STROKE TIME 10 SEC
XVC-8942	SI	BORON INJ RECIRC OUTLET HDR ISOL 1" AIR OPERATED VALVE	B 2a	114E075 (1)	D-11	NO	YES	FS	NO	N/A	STROKE TIME 10 SEC
XVC-8841A	SI	BORON INJ TK INLET 3" MOTOR OPERATED VALVE	B 2a	114E075 (1)	C-11	NO	YES	FS	NO	N/A	STROKE TIME 10 SEC

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD.	NORMAL POSITION (NOTE #1)	FOS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST) (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVC-8807B	SI	BURON INJ TK INLET 3" MOTOR OPERATED VALVE	B 2a	114E075 (1)	B-11	NC	YES	FS	NO	N/A	STROKE TIME 10 SEC
XVC-8947	SI*	ACCUM TEST LINE TO RUST (ORC) 3/4" AIR OPERATED VALVE	A 2a	114E075 (2)	I-12	HC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC FENET 321 ISOL VALVE
XVC-8871	SI	ACCUM TEST LINE TO RUST (IRC) 3/4" AIR OPERATED VALVE	A 2a	114E075 (2)	I-11	HC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC FENET 321 ISOL VALVE
XVC-8948A	SI	SI OUTLET HDR CK TO RCS LOOP A 12" CHECK VALVE	A/C 1	114E075 (2)	I-13	--	--	CV LT	NO NO	N/A N/A	
XVC-8948B	SI	SI OUTLET HDR CK TO RCS LOOP B 12" CHECK VALVE	A/C 1	114E075 (2)	F-13	--	--	CV LT	NO NO	N/A N/A	
XVC-8948C	SI	SI OUTLET HDR CK TO RCS LOOP C 12" CHECK VALVE	A/C 1	114E075 (2)	D-13	--	--	CV LT	NO NO	N/A N/A	
XVC-8956A	SI	SI ACCUM A OUTLET HDR CK 12" CHECK VALVE	A/C 1	114E075 (2)	I-11	--	--	CV LT	NO NO	N/A N/A	
XVC-8956B	SI	SI ACCUM B OUTLET HDR CHECK 12" CHECK VALVE	A/C 1	114E075 (2)	P-11	--	--	CV LT	NO NO	N/A N/A	
XVC-8956C	SI	SI ACCUM C OUTLET HDR CHECK 12" CHECK VALVE	A/C 1	114E075 (2)	D-11	--	--	CV LT	NO NO	N/A N/A	
XVC-8808A	SI	SI ACCUM A OUTLET 12" MOTOR OPERATED VALVE	B 2a	114E075 (2)	I-8	NO	YES	FS	NO	N/A	STROKE TIME 15 SEC
XVC-8808B	SI	SI ACCUM B OUTLET 12" MOTOR OPERATED VALVE	B 2a	114E075 (2)	P-8	NO	YES	FS	NO	N/A	STROKE TIME 15 SEC
XVC-8808C	SI	SI ACCUM C OUTLET 12" MOTOR OPERATED VALVE	B 2a	114E075 (2)	D-8	NO	YES	FS	NO	N/A	STROKE TIME 15 SEC
XVC-8947	SI	N2 SUPPLY TO ACCUM (IRC) 1" CHECK VALVE	A/C 2a	114E075 (2)	J-3	--	--	CV LT	NO NO	N/A N/A	FENET 320 ISOL VALVE

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF REQUEST (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVC-8860	S1	N2 SUPPLY TO ACCUM (ORC) 1" AIR OPERATED VALVE	A 2a	114E075 (2)	J-2	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 320 ISOL VALVE
XVC-8861	S1	ACCUM FILL HDR ISOL (IRC) 1" CHECK VALVE	A/C 2a	114E075 (2)	D-3	--	--	CV LT	NO NO	N/A N/A	PENET 317 ISOL VALVE
XVC-8860	S1	ACCUM FILL HDR ISOL (ORC)	A 2a	114E075 (2)	D-2	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 317 ISOL VALVE
XVC-8869	S1	S1 HOT LEG INJ HDR ISOL 10" MOTOR OPERATED VALVE	A 2a	114E075 (3)	H-11	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 12.2 SEC PENET 325 ISOL VALVE
XVC-886A	S1	S1 COLD LEG INJ HDR ISOL (ORC) 10" MOTOR OPERATED VALVE	A 2a	114E075 (3)	F-11	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 12.2 SEC PENET 322 ISOL
XVC-886B	S1	S1 COLD LEG INJ HDR ISOL (ORC) 10" MOTOR OPERATED VALVE	A 2a	114E075 (3)	E-11	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 12.2 SEC PENET 227 ISOL
XVC-8974A	S1	S1 HDR A CHECK (IRC) 10" CHECK VALVE	A/C 2a	114E075 (3)	F-12	--	--	CV LT	NO NO	N/A N/A	PENET 322 ISOL VALVE
XVC-8974B	S1	S1 HDR B CHECK (IRC) 10" CHECK VALVE	A/C 2a	114E075 (3)	F-12	--	--	CV LT	NO NO	N/A N/A	PENET 227 ISOL VALVE
XVC-8973A	S1	S1 TO RCS COLD LEG LOOP A HDR CHECK 6" CHECK VALVE	A/C 2a	114E075 (3)	F-13	--	--	CV LT	NO NO	N/A N/A	
XVC-8973B	S1	S1 TO RCS COLD LEG LOOP B HDR CHECK 6" CHECK VALVE	A/C 1	114E075 (3)	P-13	--	--	CV LT	NO NO	N/A N/A	
XVC-8973C	S1	S1 TO RCS COLD LEG LP C HDR CHECK 6" CHECK VALVE	A/C 1	114E075 (3)	E-13	--	--	CV LT	NO NO	N/A N/A	
XVC-8958A	S1	RH PUMP A SUCTION HDR CHECK 14" CHECK VALVE	C 2a	114E075 (3)	F-4	--	--	CV	NO	N/A	
XVC-8958B	S1	RH PUMP B SUCTION HDR CHECK 14" CHECK VALVE	C 2a	114E075 (3)	E-4	--	--	CV	NO	N/A	

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4))	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVC-8811A	SI	CURT PUMP TO RIR PP A SUCTION ISOL (IRC) 14" MOTOR OPERATED VALVE	A 2a	114E075 (3)	B-9	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 17.1 SEC PERCT 329 ISOL VALVE
XVC-8958A	SP	RH PUMP A SUCTION HDR CHECK 14" CHECK VALVE	C 2a	114E075 (3)	F-4	--	--	CV	NO	N/A	
XVC-8958B	SI	RH PUMP B SUCTION HDR CHECK 14" CHECK VALVE	C 2a	114E075 (3)	B-4	--	--	CV	NO	N/A	
XVC-8811A	SI	CURT PUMP TO RIR PP A SUCTION ISOL (IRC) 14" MOTOR OPERATED VALVE	A 2a	114E075 (3)	B-9	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 17.1 SEC PERCT 329 ISOL VALVE
XVC-8811B	SI	CURT PUMP TO RIR PP B SUCTION ISOL (IRC) 14" MOTOR OPERATED VALVE	A 2a	114E075 (3)	C-9	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 17.1 SEC PERCT 425 ISOL VALVE
XVC-8812A	SI	RH PP A SUCT FROM SUPP 14" MOTOR OPERATED VALVE	A 2a	114E075 (3)	C-9	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 17 SEC
XVC-8812B	SI	RH PP A SUCT FROM SUPP 14" MOTOR OPERATED VALVE	A 2a	114E075 (3)	B-9	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 17 SEC
XVC-8926	SI	RHST SUPP TO CIRC PPS HDR CURK 8" CHECK VALVE	C 2a	114E075 (3)	G-3	--	--	CV	NO	N/A	
XVT-8875A	SI	ACCUM A VENT ISOL 1" AIR OPERATED	A 2a	114E075 (2)	J-7	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME SEC
XVT-8875B	SI	ACCUM B VENT ISOL 1" AIR OPERATED	A 2a	114E075 (2)	H-7	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME SEC
XVT-8875C	SI	ACCUM C VENT ISOL 1" AIR OPERATED	A 2a	114E075 (2)	F-7	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME SEC

VALVE HUBBURN	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO- ORD	NORMAL POSITION (NOTE #1)	POS 120 (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4))	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVD-7126	WL	RCUT VENT TO WG SYS ISOL (IRC) 3/4" AIR OPERATED VLV	A 2a	114E077 (1)	H-11	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 418 ISOL VALVE
XVD-7130	WL	RCUT VENT TO WG SYSTEM ISOL (ORC) 3/4" AIR OPERATED VALVE	A 2a	114E077 (1)	I-10	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 418 ISOL VALVE
XVD-7136	WL	RCUT DISCH HDR ISOL (ORC) 3" AIR OPERATED VALVE	A 2a	114E077 (1)	H-3	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 423 ISOL VALVE
LCV-1003	WL	RCUT LEVEL CONTROL VALVE 3" AIR OPERATED VALVE	A 2a	114E077 (1)	H-4	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 423 ISOL
XVS-2806A	HS	HN STEAM LINE A SAFETY VALVE 6 x 10 RELIEF VALVE	C 2a	302-011	B-8	--	--	SRV	NO	N/A	
XVS-2806B	HS	HN STEAM LINE A SAFETY VALVE 6 x 10 RELIEF VALVE	C 2a	302-011	B-8	--	--	SRV	NO	N/A	
XVS-2806C	HS	HN STEAM LINE A SAFETY VALVE 6 x 10 RELIEF VALVE	C 2a	302-011	B-8	--	--	SRV	NO	N/A	
XVS-2806D	HS	HN STEAM LINE A SAFETY VALVE 6 x 10 RELIEF VALVE	C 2a	302-011	B-8	--	--	SRV	NO	N/A	
XVS-2806E	HS	HN STEAM LINE A SAFETY VALVE 6 x 10 RELIEF VALVE	C 2a	302-011	B-8	--	--	SRV	NO	N/A	
1CV-2806D	HS	HS LINE A FINER RELIEF VALVE 8" AIR OPERATED VALVE	A 2a	302-011	B-7	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 3 SEC

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CU- ORD	ORIGNAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF REQUEST (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVH-2801A	HS	HN STEAM LINE A ISOL 32" AIR OPERATED VALVE	A 2a	302-011	B-5	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 3 SEC
XVH-2801B	HS	HN STEAM LINE B ISOL 32" AIR OPERATED VALVE	A 2a	302-011	B-3	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 207 ISOL
XVC-2806A	HS	HS LINE A ISOLATION BYPASS VALVE 4" AIR OPERATED VALVE	A 2a	302-011	C-6	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 20 SEC PENET 428 ISOL VALVE
XVC-2806B	HS	HS LINE B ISOLATION BYPASS VALVE 4" AIR OPERATED VALVE	A 2a	302-011	E-3	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 20 SEC PENET 207 ISOL VALVE
XVC-2806C	HS	HS LINE C ISOLATION BYPASS VALVE 4" AIR OPERATED VALVE	A 2a	302-011	G-4	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 20 SEC PENET 202 ISOL VALVE
XVC-2877A	HS	HS LINE A DRAIN ISOL 1 1/2" AIR OPERATED VALVE	A 2a	302-011	C-9	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 428 ISOL
XVC-2877B	HS	HS LINE C DRAIN ISOL 1 1/2" AIR OPERATED VALVE	A 2a	302-011	H-9	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 202 ISOL
XVC-2843A	HS	HS LINE A DRAIN ISOL 1 1/2" AIR OPERATED VALVE	A 2a	302-011	C-5	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 428 ISOL
XVC-2843B	HS	HS LINE B DRAIN ISOL 1 1/2" AIR OPERATED VALVE	A 2a	302-011	D-4	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 207 ISOL VALVE
XVC-2843C	HS	HS LINE C DRAIN ISOL 1 1/2" AIR OPERATED VALVE	A 2a	302-011	H-5	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 202 ISOL VALVE
XVS-2806F	HS	MC STEAM LINE B SAFETY VALVE 6 x 10 RELIEF VALVE	C 2a	302-011	D-9	--	--	SRV	NO	N/A	
XVS-2806G	HS	MR STEAM LINE B SAFETY VALVE 6 x 10 RELIEF VALVE	C 2a	302-011	D-9	--	--	SRV	NO	N/A	
XVS-2806H	HS	HN STEAM LINE B SAFETY VALVE 6 x 10 RELIEF VALVE	C 2a	302-011	D-9	--	--	SRV	NO	N/A	

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4))	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVS-2806.I	HS	MN STEAM LINE B SAFETY VALVE 6" x 10" RELIEF VALVE	C 2a	302-011	D-8	--	--	SRV	NO	N/A	
XVS-2806.J	HS	MN STEAM LINE B SAFETY VALVE 6" x 10" RELIEF VALVE	C 2a	302-011	D-8	--	--	SRV	NO	N/A	
11V-2010	HS	MN STEAM LINE B FINDER RELIEF 8" AIR OPERATED VALVE	A 2a	302-011	D-8	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 3 SEC PENET 207 ISOL VALVE
XVC-2802A	HS	MN STEAM LOOP B TO EFMP TURB 4" MOTOR OPERATED VALVE	A 2a	302-011	E-5	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 20 SEC PENET 207 ISOL VALVE
XVC-2802B	HS	MN STEAM LOOP C TO EFMP TURB 4" MOTOR OPERATED VALVE	A 2a	302-011	G-5	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 207 ISOL VALVE
XVC-2876A	HS	MN STEAM LOOP B TO EFMP CK 4" CHECK VALVE	C 2a	302-011	E-5	--	--	CV	NO	N/A	
XVC-2876B	HS	MN STEAM LOOP C TO EFMP CK 4" CHECK VALVE	C 2a	302-011	F-5	--	--	CV	NO	N/A	
11V-2010	HS	STEAM STOP VALVE TO EFMP TURB 4" AIR OPERATED VALVE	B 2a	302-011	E-4	NC	YES	FS	NO	N/A	STROKE TIME 3 SEC
11V-2020	HS	MN STEAM LINE C LIMER RELIEF 8" AIR OPERATED VALVE	A 2a	302-011	F-8	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 3 SEC PENET 207 ISOL VALVE
XVH-2801C	HS	MN STEAM LINE C ISOL 32" AIR OPERATED VALVE	A 2a	302-011	G-5	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 207 ISOL VALVE
XVC-2811	HS	HS TO EFMP TRUB DRAIN ISOL 1 1/2" MOTOR OPERATED VALVE	B 2b	302-011	H-3	NO	YES	FS	NO	N/A	
XVS-2806K	HS	MN STEAM LINE C SAFETY VALVE 6" x 10" RELIEF VALVE	C 2a	302-011	F-8	--	--	SRV	NO	NO	
XVS-2806.L	HS	MN STEAM LINE C SAFETY VALVE 6" x 10" RELIEF VALVE	A 2a	302-011	F-8	NO	YES	FS LT	NO NO	N/A N/A	

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO- ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4))	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVS-2806H	HS	HN STEAM LINE C SAFETY VALVE 6 x 10 RELIEF VALVE	C 2a	302-011	F-8	--	--	SRV	NO	NO	
XVS-2806H	HS	HN STEAM LINE C SAFETY VALVE 6 x 10 RELIEF VALVE	C 2a	302-011	F-8	--	--	SRV	NO	NO	
XVS-2806F	HS	HN STEAM LINE C SAFETY VALVE 6 x 10 RELIEF VALVE	C 2a	302-011	F-8	--	--	SRV	NO	NO	
XVC-1039A	EF	EF HDR INLET CK TO A S/G 4" CHECK VALVE	C 2a	302-083	C-12	--	--	CV	NO	NO	
XVC-1039B	EF	EF HDR INLET CK TO B S/G 4" CHECK VALVE	C 2a	302-083	E-12	--	--	CV	NO	NO	
XVC-1039C	EF	EF HDR INLET CK TO C S/G 4" CHECK VALVE	C 2a	302-083	G-12	--	--	CV	NO	NO	
XVC-1039A	EF	EF HDR SUPPLY CK TO A S/G 4" CHECK VALVE	C 2a	302-083	C-12	--	--	CV	NO	NO	
XVC-1039B	EF	EF HDR SUPPLY CK TO B S/G 4" CHECK VALVE	C 2a	302-083	E-12	--	--	CV	NO	NO	
XVC-1039C	EF	EF HDR SUPPLY CK TO C S/G 4" CHECK VALVE	C 2a	302-083	H-12	--	--	CV	NO	NO	

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NOMINAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4))	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVR-1631A	FW	CHIEF FD SUPP TO A S/G ISOL 1 1/2" ENO STOP CHECK	A 2a	302-083	B-9	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 20 SEC PENET 308 ISOL VALVE
XVR-1633B	FW	CHIEF FD SUPP TO B S/G ISOL 1 1/2" ENO STOP CHECK	A 2a	302-083	D-9	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 20 SEC PENET 205 ISOL VALVE
XVR-1633C	FW	CHIEF FD SUPP TO C S/G ISOL 1 1/2" ENO STOP CHECK	A 2a	302-083	G-9	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 20 SEC PENET 213 ISOL VALVE
XVG-1611A	FW	HN FD WTR SUPP A S/C ISOL 18" AIR TO HYDRAULIC	A 2a	302-083	B-6	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 306 ISOL VALVE
XVG-1611B	FW	HN FD WTR SUPP B S/G ISOL 18" AIR TO HYDRAULIC	A 2a	302-083	E-6	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 206 ISOL VALVE
XVG-1611C	FW	HN FD WTR SUPP C S/G ISOL 18" AIR TO HYDRAULIC	A 2a	302-083	O-6	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 203 ISOL VALVE
XVG-1678A	FW	FD WTR VLV A BYPASS 3" AIR OPERATED VALVE	A 2a	302-083	A-6	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 20 SEC PENET 306 ISOL VALVE
XVG-1678B	FW	FD WATER VALVE B BYPASS 3" AIR OPERATED VALVE	A 2a	302-083	D-6	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 20 SEC PENET 206 ISOL VALVE
XVG-1678C	FW	FD WATER VALVE C BYPASS 3" OPERATED VALVE	A 2a	302-083	F-5	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 20 SEC PENET 203 ISOL VALVE
RV-478	FW	MAIN FW CONTROL VALVE 16" AIR OPERATED	B 2a	302-083	B-2	NO	YES	FS	NO	N/A	
FV-488	FW	MAIN FW CONTROL VALVE 16" AIR OPERATED	B 2a	302-083	E-2	NO	YES	FS	NO	N/A	

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NORMAL POSITION (NOTE #1)	FOS AND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4))	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
FV-498	FW	MAIN FW CONTROL VALVE 16" AIR OPERATED	B 2a	302-083	G-2	NO	YES	FS	NO	N/A	
IFV-3361	FW	MAIN FW BYPASS LOOP C 6" AIR OPERATED	B 2a	302-083	P-2	NC	YES	FS	NO	N/A	
IFV-3331	FW	MAIN FW BYPASS LOOP B 6" AIR OPERATED	B 2a	302-083	C-2	NC	YES	FS	NO	N/A	
IFV-3321	FW	MAIN FW BYPASS LOOP A 6" AIR OPERATED	B 2a	302-083	A-2	NC	YES	FS	NO	N/A	
XVC-1009A	EF	EF HIR DISCH CK VLV ISOL S/G A 4" AIR OPERATED SPL CK	A/C 2a	302-085	B-12	NC	YES	CV LT	NO NO	N/A N/A	STROKE TIME 3 SEC PENET 308 ISOL VLV
XVC-1009B	EF	EF HIR DISCH CK VALVE ISOL S/G B 4" AIR OPERATED SPL CK	A/C 2a	302-085	D-12	NC	YES	CV LT	NO NO	N/A N/A	STROKE TIME 3 SEC PENET 205 ISOL VLV
XVC-1009C	EF	EF HIR DISCH CK VLV ISOL S/G C 4" AIR OPERATED SPL CK	A/C 2a	302-085	G-12	NC	YES	CV LT	NO NO	N/A N/A	STROKE TIME 3 SEC PENET 213 ISOL
IFV-3531	EF	EFH MOTOR DRIVE EFWP TO A S/G 3" AIR OPERATED VALVE	B 2a	302-085	A-9	NO	YES	FS	NO	N/A	STROKE TIME 5 SEC
IFV-3561	EF	EFH MOTOR DRIVE EFWP TO B S/G 3" AIR OPERATED VALVE	B 2a	302-085	D-9	NO	YES	FS	NO	N/A	STROKE TIME 5 SEC
IFV-3551	EF	EFH MOTOR DRIVE EFWP TO C-S/G 3" AIR OPERATED VALVE	B 2a	302-085	F-9	NO	YES	FS	NO	N/A	STROKE TIME 5 SEC

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4))	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
1FV-3536	EF	EF FH TURB EPMP DRIVE EPMP TO A S/G 3" AIR OPERATED VALVE	B 2b	302-085	B-9	NO	YES	FS	NO	N/A	STROKE TIME 5 SEC
1FV-3546	EF	EF FH TURB EPMP TO B S/G 3" AIR OPERATED VALVE	B 2a	302-085	E-9	NO	YES	FS	NO	N/A	STROKE TIME 5 SEC
1FV-3556	EF	EF FH TURB EPMP TO C S/G 3" AIR OPERATED VALVE	B 2b	302-085	C-9	NO	YES	FS	NO	N/A	STROKE TIME 5 SEC
XVC-1016	EF	TURB DRIVE EPMP DISCH CK 4" CHECK VALVE	C 2b	302-085	H-9	--	--	CV	NO	N/A	
XVC-1015A	EF	MOTOR DRIVE EPMP 21A DISCH CHECK - 4" CHECK VALVE	C 2b	302-085	A-8	--	--	CV	NO	N/A	
XVC-1015A	EF	SUPP FH CST TO EPMP 21A CHECK 6" CHECK VALVE	C 2b	302-085	D-6	--	--	CV	NO	N/A	
XVC-1017B	EF	SUPP FH CST TO EPMP 21B CHECK 6" CHECK VALVE	C 2b	302-085	F-4	--	--	CV	NO	N/A	
XVC-1034A	EF	SUPP FH SW TO EPMP 21A CHECK 6" CHECK VALVE	C 2b	302-085	D-5	--	--	CV	NO	N/A	
XVC-1034B	EF	SUPP FH SW TO EPMP 21B CHECK 6" CHECK VALVE	C 2b	302-085	F-5	--	--	CV	NO	N/A	
XVC-1001A	EF	SUPP FH SW TO EPMP 21A ISOL 6" MOTOR OPERATED VALVE	B 2b	302-085	U-5	NC	YES	FS	NO	N/A	STROKE TIME 33 SEC
XVC-1001B	EF	SUPP FH SW TO EPMP 21B ISOL 6" MOTOR OPERATED VALVE	B 2b	302-085	C-4	HC	YES	FS	NO	N/A	STROKE TIME 33 SEC
XVC-1014	EF	SUPP FH SW TO EPMP 21B ISOL 6" MOTOR OPERATED VALVE	B 2b	302-085	C-4	NC	YES	FS	NO	N/A	STROKE TIME 33 SEC
XVC-1007	EF	SUPP FH SW LOOP A TO TURB DRV EPMP HDR ISOL B" MOTOR OPERATED VALVE	B 2b	302-085	J-5	NC	YES	FS	NO	N/A	STROKE TIME 42 SEC

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO- ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVC-1008	EF	SUPP FW SW LOOP B TO TURB DRV ENP HIR ISOL 8" MOTOR OPERATED VALVE	B 2b	302-085	J-6	NC	YES	PS	NO	N/A	STROKE TIME 42 SEC
XVC-1037A	EF	SUPP FH SW LOOP A TO TURB SHV ENP NH ISOL 8" MOTOR OPERATED VALVE	B 2b	302-085	F-2	NC	YES	PS	NO	N/A	STROKE TIME 42 SEC
XVC-1037B	EF	SUPP FH SW LOOP B TO TURB DRIVE ENP MC ISOL 8" MOTOR OPERATED VALVE	B 2b	302-085	G-2	NC	YES	PS	NO	N/A	STROKE TIME 42 SEC
XVC-1035B	EF	MOTOR DRIVE ENP 21B DISCH CHECK 4" CHECK VALVE	C 2b	302-085	F-8	--	--	CV	NO	N/A	
XVC-3115A	SM	SERV WATER PUMP A DISCH CK 24" CHECK VALVE	C 2b	302-221	F-2	--	--	CV	NO	N/A	
XVC-3115B	SM	SERV WATER PUMP B DISCH CK 24" CHECK VALVE	C 2b	302-221	F-10	--	--	CV	NO	N/A	
XVC-3115C	SM	SERV WATER PUMP C DISCH CK 24" CHECK VALVE	C 2b	302-221	G-6	--	--	CV	NO	N/A	
XVB-3116A	SM	SERV WATER PUMP A DISCH ISOL 24" MOTOR OPERATED VALVE	B 2b	302-221	G-2	A/NC	YES	PS	NO	N/A	STROKE TIME 60 SEC
XVB-3116B	SM	SERV WATER PUMP A DISCH ISOL 24" MOTOR OPERATED VALVE	B 2b	302-221	G-10	A/NC	YES	PS	NO	N/A	STROKE TIME 60 SEC
XVB-3116C	SM	SERV WATER PUMP C DISCH ISOL 24" MOTOR OPERATED VALVE	B 2b	302-221	G-10	A/NC	YES	PS	NO	N/A	STROKE TIME 60 SEC
XVC-3119A	SM	SERV WATER SUPP TO B D/G CEN CLR 8" CHECK VALVE	C 2b	302-222	B-10	--	--	CV	NO	N/A	

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF REQUEST (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVC-3119B	SW	SER WATER SUP TO A D/G GEN CLR 8" CHECK VALVE	C 2b	302-222	J-10	--	--	CV	NO	N/A	
XVC-3115A	SW	16" CHECK VALVE	C 2b	302-222	C-5	--	--	CV	NO	N/A	
XVC-3115B	SW	16" CHECK VALVE	C 2b	302-222	C-5	--	--	CV	NO	N/A	
XVB-3106A	SW	SM BOOSTER PUMP A DISCH 16" MOTOR OPERATED VALVE	A 2a	302-222	C-5	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 60 SEC PENET 304 ISOL VALVE
XVB-3106B	SW	SM BOOSTER PUMP B DISCH 16" MOTOR OPERATED VALVE	A 2a	302-222	C-5	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 60 SEC PENET 403 ISOL VALVE
XVB-3110A	SW	12" MOTOR OPERATED VALVE	A 2a	302-222	B-5	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 60 SEC PENET 304 ISOL VALVE
XVB-3110B	SW	12" MOTOR OPERATED VALVE	A 2a	302-222	H-5	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 60 SEC PENET 403 ISOL VALVE
XVC-3113A	SW	16" CHECK VALVE	A/C 2a	302-222	C-4	--	--	CV LT	NO NO	N/A N/A	PENET 304 ISOL VALVE
XVC-3113B	SW	16" CHECK VALVE	A/C 2a	302-222	C-4	--	--	CV LT	NO NO	N/A N/A	PENET 403 ISOL VALVE
XVC-3103A	SW	16" MOTOR OPERATED VALVE	A 2a	302-222	C-2	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 75 SEC
XVC-3103B	SW	16" MOTOR OPERATED VALVE	A 2a	302-222	C-2	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 75 SEC
XVC-3111A	SW	12" MOTOR OPERATED VALVE	B 2b	302-222	E-2	NO	YES	FS	NO	N/A	STROKE TIME 62 SEC
XVC-3111B	SW	12" MOTOR OPERATED VALVE	B 2b	302-222	F-2	NO	YES	FS	NO	N/A	STROKE TIME 62 SEC

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4))	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVT-3164	SM	DRPI COOLING HDR INLET ISOL	B 2a	302-222	F-13	NO	YES	FS	NO	N/A	
XVT-3169	SM	DRPI COOLING HDR OUTLET ISOL	B 2a	302-222	J-14	NO	YES	FS	NO	N/A	
XVT-3165	SM	DRPI COOLING HDR ISOL	B 2a	302-222	F-14	NO	YES	FS	NO	N/A	
XVB-3126A	SM	SW A TO HVAC CHILLER COND. B OUTLET 6" MOTOR OPERATED	B 2a	302-222	D-11	NO	YES	FS	NO	N/A	
XVB-3162A	SM	SW TO HVAC COND. A INLET 6" MOTOR OPERATED	B 2a	302-222	D-11	NO	YES	FS	NO	N/A	STROKE TIME SEC
XVB-3162B	SM	SW TO HVAC COND. B INLET 6" MOTOR OPERATED	B 2a	302-222	F-11	NO	YES	FS	NO	N/A	STROKE TIME SEC
XVC-3108A	SM	RB COOLING UNIT 1A INLET ISOL 10" MOTOR OPERATED	B 2a	302-222	B-4	NO	YES	FS	NO	N/A	
XVC-3108B	SM	RB COOLING UNIT 2A INLET ISOL 10" MOTOR OPERATED	B 2a	302-222	D-4	NO	YES	FS	NO	N/A	
XVC-3108C	SM	RB COOLING UNIT 2A INLET ISOL 10" MOTOR OPERATED	B 2a	302-222	F-4	NO	YES	FS	NO	N/A	
XVC-3108D	SM	RB COOLING UNIT 2B INLET ISOL 10" MOTOR OPERATED	B 2a	302-222	H-4	NO	YES	FS	NO	N/A	
XVC-3109A	SM	RB COOLING UNIT 1A OUTLET ISOL 10" MOTOR OPERATED	B 2a	302-222	B-3	NO	YES	FS	NO	N/A	
XVC-3109B	SM	RB COOLING UNIT 2A OUTLET ISOL 10" MOTOR OPERATED	B 2a	302-222	D-3	NO	YES	FS	NO	N/A	
XVC-3109C	SM	RB COOLING UNIT 1B OUTLET ISOL 10" MOTOR OPERATED	B 2a	302-222	F-3	NO	YES	FS	NO	N/A	

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CD- ORD	NORMAL POSITION (NOTE #1)	POS AND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4))	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVC-2660	1A	2" AIR OPERATED VALVE	A 2b	302-273	G-4	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 15 SEC PENET 311 ISOL VALVE
XVC-2661	1A	2" CHECK VALVE	A/C 2a	302-273	G-3	--	--	CV LT	NO NO	N/A N/A	PENET 311 ISOL VALVE
XVC-2662A	1A	6" AIR OPERATED VALVE	A 2a	302-273	B-4	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 2.5 SEC PENET 319 ISOL VALVE
XVC-2662B	1A	6" AIR OPERATED VALVE	A 2a	302-273	B-3	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 2.5 SEC PENET 319 ISOL VALVE
XVC-972A	DC	2" CHECK VALVE	C 2b	302-351	G-14	--	--	CV	NO	N/A	
XVC-972B	DC	2" CHECK VALVE	C 2b	302-351	G-1	--	--	CV	NO	N/A	
XVC-970A	DC	2" CHECK VALVE	C 2b	302-351	O-12	--	--	CV	NO	N/A	

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF REQUEST (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVC-970B	IG	2" CHECK VALVE	C 2b	302-351	G-3	--	--	CV	NO	N/A	
XVC-971A	IG	3" CHECK VALVE	C 2b	302-351	G-11	--	--	CV	NO	N/A	
XVC-971D	IG	3" CHECK VALVE	C 2b	302-351	G-4	--	--	CV	NO	N/A	
1VV-7096	CC	SURGE TANK VENT 1 1/2" GLOBE VALVE	B 2b	302-611	F-12	NO	YES	FS	NO	N/A	STROKE TIME 5 SEC
XVC-9682A	CC	COMPONENT COOLING PP A DISCH CHECK 24" CHECK VALVE	C 2b	302-611	G-7	--	--	CV	NO	N/A	
XVC-9682B	CC	COMPONENT COOLING PP B DISCH CHECK 24" CHECK VALVE	C 2b	302-611	G-5	--	--	CV	NO	N/A	
XVC-9682C	CC	COMPONENT COOL PP DISCH CHECK 24" CHECK VALVE	C 2b	302-611	G-6	--	--	CV	NO	N/A	
XVC-9685	CC	CC Rx B11X: INTERNAL ISOL B" MOTOR OPERATED	A 2a	302-612	G-12	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 42 SEC PENET 330 ISOL VALVE
XVC-9689	CC	VALVE XVC-9605 BYPASS CHECK 3/4" CHECK VALVE	C 2a	302-612	G-11	--	--	CV	NO	N/A	PENET 330 ISOL VALVE
XVC-9686	CC	CC Rx B10C: EXTERNAL ISOL B" MOTOR OPERATED VALVE	A 2a	302-612	H-12	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 42 SEC PENET 330 ISOL

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NOMINAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF REQUEST (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVC-9568	CC	CC R _x BLDG EXTERNAL ISOL 8" MOTOR OPERATED VALVE	A 2a	302-612	H-11	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 42 SEC PENET 330 ISOL
XVC-9570	CC	CC R _x BLDG INTERNAL CHECK 8" CHECK VALVE	A/C 2a	302-612	G-12	--	--	CV LT	NO NO	N/A N/A	PENET 312 ISOL
XVC-9625	CC	NON ESSENTIAL R _x BLDG INLET 8" MOTOR OPERATED VALVE	B 2b	302-612	J-12	NO	YES	FS	NO	N/A	STROKE TIME 42 SEC
XVC-9626	CC	NON ESSENTIAL R _x BLDG INLET 8" MOTOR OPERATED VALVE	B 2b	302-612	J-12	NO	YES	FS	NO	N/A	STROKE TIME 42 SEC
XVC-9600	CC	R _x BLDG EXTERNAL ISOL 3" MOTOR OPERATED VALVE	A 2b	302-612	C-2	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 19 SEC PENET 204 ISOL VALVE
XVC-9602	CC	R _x BLDG INTERNAL CHECK 3" CHECK VALVE	A/C 2b	302-612	F-1	--	--	CV LT	NO NO	N/A N/A	PENET 204 ISOL VALVE
XVC-9677A	CC	CC LOOP A X-COMM FROM SW 4" AIR OPERATED	B 2a	302-611	J-12	NC	YES	FS	NO	N/A	STROKE TIME 3 SEC
XVC-9677B	CC	CC LOOP B X-COMM FROM SW 4" AIR OPERATED	B 2a	302-611	J-12	NC	YES	FS	NO	N/A	STROKE TIME 3 SEC
XVC-3003A	SP	SPRAY HDR A ISOL 10" MOTOR OPERATED VALVE	A 2a	302-661	E-10	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 30 SEC PENET 401 ISOL VALVE
XVC-3003A	SP	SPRAY HDR A CHECK VALVE INSIDE R _x BLDG 10" CHECK VALVE	A/C 2a	302-661	E-11	--	--	CV LT	NO NO	N/A N/A	PENET 401 ISOL VALVE

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD.	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF REQUEST (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVC-3007B	SP	SPRAY IHR B ISOL 10" MOTOR OPERATED VALVE	A 2a	302-661	E-10	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 30 SEC PENET 303 ISOL VALVE
XVC-3007B	SP	SPRAY IHR B CHECK VALVE INSIDE KX BLOC	A/C 2a	302-661	E-11	--	--	CV LT	NO NO	N/A N/A	PENET 303 ISOL VALVE
XVC-3004A	SP	KX HING SPRAY SUMP ISOL VALVE A INSIDE 12" MOTOR OPERATED VALVE	A 2a	302-661	F-10	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 75 SEC PENET 327 ISOL VALVE
XVC-3005B	SP	KX BLOC SPRAY SUMP ISOL VALVE B INSIDE 12" MOTOR OPERATED VALVE	A 2a	302-661	H-10	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 75 SEC PENET 328 ISOL VALVE
XVC-3005A	SP	RD SPRAY SUMP ISOL VALVE A OUTSIDE 12" MOTOR OPERATED VALVE	B 2a	302-661	F-9	MC	YES	FS	NO	N/A	STROKE TIME 62 SEC
XVC-3005B	SP	RD SPRAY SUMP ISOL VALVE B OUTSIDE 12" MOTOR OPERATED VALVE	B 2a	302-661	H-9	MC	YES	FS	NO	N/A	STROKE TIME 62 SEC
XVC-3001A	SP	RUST TO SPRAY PP SUCTION A 12" MOTOR OPERATED VALVE	B 2a	302-661	D-4	NO	YES	FS	NO	N/A	STROKE TIME 15 SEC
XVC-3001B	SP	RUST TO SPRAY PP SUCTION A 12" MOTOR OPERATED VALVE	B 2a	302-661	E-3	NO	YES	FS	NO	N/A	STROKE TIME 15 SEC
XVC-3006A	SP	RUST TO SPRAY PP SUCTION CHECK 21" CHECK VALVE	C 2a	302-661	D-4	--	--	CV	NO	N/A	
XVC-3006B	SP	RUST TO SPRAY PP SUCTION CHECK 12" CHECK VALVE	C 2a	302-661	E-3	--	--	CV	NO	N/A	
XVC-3013A	SP	NAOH TO SPRAY PP SUCTION CHECK 3" CHECK VALVE	C 2a	302-661	F-4	--	--	CV	NO	N/A	
XVC-3013B	SP	NAOH TO SPRAY PP SUCTION CHECK 3" CHECK VALVE	C 2a	302-661	F-4	--	--	CV	NO	N/A	
XVC-3007A	SP	NAOH TO SPRAY PP A SUCTION 3" MOTOR OPERATED VALVE	B 2a	302-661	G-3	NC	YES	FS	NO	N/A	STROKE TIME 15 SEC

VALVE HIP #ER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO- ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVC-3002B	SP	NaOH TO SPRAY PP B SUCTION 3" MOTOR OPERATED VALVE	B 2a	302-661	H-3	NC	YES	FS	NO	N/A	STROKE TIME 15 SEC
XVA-9311A	SS	AIR HANDLING RAD MONITOR INSIDE SUCTION 1" AIR OPERATED VALVE	A 2a	302-771	D-13	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 407 ISOL VALVE
XVA-9311B	SS	AIR HANDLING RAD MONITOR OUTSIDE SUCTION 1" AIR OPERATED VALVE	A 2a	302-771	D-14	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 407 ISOL VALVE
XVA-9312A	SS	RAD MONITOR SAMPLE RETURN INSIDE 1" AIR OPERATED VALVE	A 2a	302-771	E-13	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 407 ISOL VALVE
XVA-9312B	SS	RAD MONITOR SAMPLE RETURN OUTSIDE 1" AIR OPERATED VALVE	A 2a	302-771	E-14	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 407 ISOL VALVE
XVX-9350A	SS	STEAM SPACE HDR ISOL 3/8" SOLENOID OPERATED VALVE	A 2a	302-771	C-12	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 405 ISOL VALVE
XVX-9350B	SS	LIQUID SPACE HDR ISOL 3/8" SOLENOID OPERATED VALVE	A 2a	302-771	C-12	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 405 ISOL VALVE
XVX-9357	SS	PZR SAMPLE CONTAINMENT ISOL 3/8" SOLENOID OPERATED VALVE	A 2a	302-771	C-10	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 405 ISOL VALVE
XVX-9365B	SS	LOOP B CONTAINMENT SAMPLE ISOL 3/8" SOLENOID OPERATED VALVE	A 2a	302-771	D-11	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 314 ISOL VALVE
XVX-9365B	SS	LOOP B CONTAINMENT SAMPLE ISOL 3/8" SOLENOID OPERATED VALVE	A 2a	302-771	D-10	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 314 ISOL VALVE
XVX-9364C	SS	LOOP C CONTAINMENT SAMPLE ISOL 3/8" SOLENOID OPERATED VALVE	A 2a	302-771	E-11	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 223 ISOL VALVE

VALVE HUBBLER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO- ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVX-9365C	SS	LIMP C CONTAINMENT SAMPLE ISOL 3/8" SOLENOID OPERATED VALVE	A 2a	302-771	E-10	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 223 ISOL VALVE
XVX-9398A	SS	S/G A SAMPLE CONTAINMENT ISOL VALVE 3/8" SOLENOID OPERATED VALVE	A 2a	302-771	F-10	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 411 ISOL VALVE
XVX-9398B	SS	S/G B SAMPLE CONTAINMENT ISOL VALVE 3/8" SOLENOID OPERATED VALVE	A 2a	302-771	G-10	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 225 ISOL VALVE
XVC-9398C	SS	S/G C SAMPLE CONTAINMENT ISOL VALVE 3/8" SOLENOID OPERATED VALVE	A 2a	302-771	H-10	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 223 ISOL VALVE
XVX-9367	SS	ACCUM SAMPLE CONT ISOL VALVE 3/8" SOLENOID OPERATED VALVE	A 2a	302-771	J-10	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 323 ISOL VALVE
XVC-503A	BD	S/G A BLOODMAN ISOL 3" AIR OPERATED VALVE	A 2a	302-781	C-8	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 4 SEC PENET 375 ISOL VALVE
XVC-503B	BD	S/G B BLOODMAN ISOL 3" AIR OPERATED VALVE	A 2a	302-781	F-9	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 4 SEC PENET 224 ISOL VALVE
XVC-503C	BD	S/G C BLOODMAN ISOL 3" AIR OPERATED VALVE	A 2a	302-781	H-9	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 4 SEC PENET 219 ISOL VALVE

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVD-642A	ND	RD SUMP DISCH HDR ISOL 3" AIR OPERATED VALVE	A 2a	302-821	A-9	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 424 ISOL VALVE
XVD-642B	ND	RD SUMP DISCH CONT ISOL 3" AIR OPERATED VALVE	A 2a	302-821	A-8	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 10 SEC PENET 424 ISOL VALVE
XVC-6461A	VU	CHILLED WATER PP A DISCH CHECK 6" CHECK VALVE	C 2b	302-841	E-10	--	--	CV	NO	N/A	
XVC-6461B	VU	CHILLED WATER PP B DISCH CHECK 6" CHECK VALVE	C 2b	302-841	E-5	--	--	CV	NO	N/A	
XVC-6461C	VU	CHILLED WATER PP C DISCH CHECK 6" CHECK VALVE	C	302-841	E-7	--	--	CV	NO	N/A	
MYT-6412A	VU	CHILLED WATER TO CB NON-ESS 3" AIR OPERATED VALVE	B 2b	302-842	A-12	NO	YES	FS	NO	N/A	STROKE TIME SEC
MYT-6490A	VU	CHILLED WATER TO CB NON-ESS 3" AIR OPERATED VALVE	B 2b	302-842	E-12	NO	YES	FS	NO	N/A	STROKE TIME SEC
XVC-6489A	VU	A CHILLED WATER RETURN FROM CB NON-ESS 3" CHECK VALVE	C 2b	302-842	E-8	--	--	CV	NO	N/A	
XVC-6410A	VU	A CHILLED WATER TO CB NON-ESS 3" AIR OPERATED VALVE	C 2b	302-842	E-8	--	--	CV	NO	N/A	

VALVE HEADER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	COD- ORD	NORMAL POSITION (NOTE #1)	FOS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4))	ALTERNATE TEST (NOTE #5)	STROKE TIME SEC	REMARKS (NOTE #6)
XVC-6307A	VU	A CHILLED WATER RETURN FROM IB NON-ESS 2" CHECK VALVE	C / 2b	302-841	H-7	--	--	CV	NO	N/A		
XVC-6308A	VU	A CHILLED WATER RETURN FROM IB NON-ESS 2" CHECK VALVE	C / 2b	302-842	H-7	--	--	CV	NO	N/A		
HVT-6305P	VU	A CHILLED WATER TO IS NON-ESS 2" AIR OPERATED	B / 2b	302-842	G-3	NO	YES	FS	NO	N/A		
HVT-6306A	VU	A CHILLED WATER TO IB NON-ESS 2" AIR OPERATED	B / 2b	302-842	G-3	NO	YES	FS	NO	N/A		
HVT-6412B	VH	B CHILLED WATER TO CB NON-ESS 3" AIR OPERATED	B	302-843	C-13	NO	YES	FS	NO	N/A		
HVT-6430B	VU	B CHILLED WATER TO CB NON-ESS 3" GLOBE VALVE	B / 2b	302-842	G-3	NO	YES	FS	NO	N/A		
XVC-6409B	VU	B CHILLED WATER FROM CB NON-ESS 3" CHECK VALVE	C / 2b	302-843	C-8	--	--	CV	NO	N/A		
XVC-6401B	VU	B CHILLED WATER FROM CB NON-ESS 3" CHECK VALVE	C / 2b	302-843	C-8	--	--	CV	NO	N/A		
XVT-6304B	VU	B CHILLED WATER TO IB NON-ESS 2" CHECK VALVE	B / 2b	302-843	G-3	NO	YES	FS	NO	N/A		
XVT-6305B	VU	B CHILLED WATER TO IB NON-ESS 2" AIR OPERATED VALVE	B / 2b	302-843	G-3	NO	YES	FS	NO	N/A		

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	MORPHAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF REQUEST (NOTE #4)	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVX-6051A	HR	RB SAMPLE TO H2 ANAL A 3/8" SOLENOID OPERATED VALVE	A 2b	302-861	B-12	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 301 ISOL VALVE
XVX-6051C	HR	RB SAMPLE TO H2 ANAL A 3/8" SOLENOID OPERATED VALVE	A 2a	302-861	A-11	NC	YES	FS LT	NO NO	N/A	STROKE TIME 5 SEC PENET 301 ISOL
XVX-6051A	HR	RB SAMPLE TO H2 ANAL A 3/8" SOLENOID OPERATED VALVE	A 2a	302-861	C-12	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 301 ISOL
XVX-6053A	HR	POST ACC H2 SUPPLY ISOL LOOP A 3/8" SOLENOID OPERATED	A 2a	302-861	B-10	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 301 ISOL
XVX-6054	HR	POST ACC H2 CONT ISOL VALVE FOR PT B254 3/8" SOLENOID OPERATED VALVE	A 2a	302-861	D-10	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 301 ISOL
XVX-6052A	HR	POST ACC H2 RETURN ISOL 3/8" SOLENOID OPERATED VALVE	A 2a	302-861	C-10	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 301 ISOL
XVX-6051B	HR	RB SAMPLE TO H2 ANAL B 3/8" SOLENOID OPERATED VALVE	A 2a	302-861	E-12	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 105 ISOL
XVX-6050B	HR	R3 SAMPLE TO H2 ANAL B 3/8" SOLENOID OPERATED VALVE	A 2a	302-861	F-12	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 105 ISOL
XVX-6053B	HR	POST ACC H2 SUPPLY ISOL LOOP A 3/8" SOLENOID OPERATED VALVE	A 2a	302-861	E-10	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 105 ISOL
XVX-6052B	HR	POST ACC H2 SUPPLY ISOL LOOP B 3/8" SOLENOID OPERATED VALVE	A 2a	302-861	E-10	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 105 ISOL
XVX-6056	HR	RB INLET FROM PURGE BLOWER 6" AIR OPERATED VALVE	A 2a	302-861	G-11	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 103 ISOL
XVX-6057	HR	BACKUP PURGE LINE RB ISOL 6" AIR OPERATED VALVE	A 2a	302-861	G-10	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 302 ISOL
XVX-6056	HR	RB INLET TO PURGE BLOWER 6" AIR OPERATED VALVE	A 2a	302-861	K-11	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC

VALVE NUMBER	SYS.	VALVE DESCRIPTION	VALVE CAT/CLS	DRAWING NUMBER	CO-ORD	NORMAL POSITION (NOTE #1)	POS IND (NOTE #2)	TEST REQUIREMENTS (NOTE #3)	RELIEF (REQUEST (NOTE #4))	ALTERNATE TEST (NOTE #5)	REMARKS (NOTE #6)
XVX-6067	HR	BACKUP PURGE INLET ISOL 6" AIR OPERATED VALVE	A 2a	302-861	K-11	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 5 SEC PENET 302 ISOL
XVB-0002A	AH	RB PURGE EXHAUST ISOL 36" AIR OPERATED VALVE	A 2a	912-103	H-10	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 3 SEC PENET 101 ISOL
XVB-0002B	AH	RB PURGE EXHAUST ISOL 36" AIR OPERATED	A 2a	912-103	H-11	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 3 SEC PENET 101 ISOL
XVB-0001A	AH	RB PURGE SUPPLY ISOL 36" AIR OPERATED VALVE	A 2a	912-103	D-6	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 3 SEC PENET 402 ISOL
XVB-0001B	AH	RB PURGE SUPPLY ISOL 36" AIR OPERATED VALVE	A 2a	912-103	C-6	NC	YES	FS LT	NO NO	N/A N/A	STROKE TIME 3 SEC PENET 402 ISOL
XVC-6799	FS	FS TO XAA-4A & 4B HUR CHECK 4" CHECK VALVE	A/C 2a	302-231	D-6	--	--	CV LT	NO NO	N/A N/A	PENET 427 ISOL
XVC-6797	FS	ISOL DELUCE TO RB CHARCOAL CLEANUP 4" MOTOR OPERATED	A 2a	302-231	D-6	NO	YES	FS LT	NO NO	N/A N/A	STROKE TIME 15 SEC PENET 427 ISOL

(PAGES E-44 through E-75 HAVE BEEN DELETED)

F. COMPONENT SUPPORTS

The Planned Preservice Inspection of component supports will be conducted in accordance with; the requirements of Section XI of ASME Code and applicable addenda per the requirements of 10 CFR Section 50.55a (g) and IE Bulletin 81-01. The examination requirements will be met to the extent practical through limitation on accessibility.

Baseline data to support the Inservice Inspection of component supports will be compiled during the start-up phase of the V.C. Summer Station utilizing the following procedures:

- TE-1: Thermal expansion testing during Hot Functional Testing.
- TE-2: Thermal expansion testing prior to fuel load.
- TE-3: Thermal expansion testing during Phase III testing.

COMPONENT SUPPORT REFERENCE INDEX