

ATTACHMENT A

Turkey Point Unit No. 3 & 4

Section I

Valve Test Program

Section II

Pump Test Program

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PDR ADCK 05000250
P PDR

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TURKEY POINT UNIT 3

ABSTRACT

The planned inservice inspection and testing programs were developed employing the R.G. 1.26, Revision 2, criteria for quality group classifications and standards (Quality Group A is the same as ASME Class 1, etc.).

Section I. Valve Test Program Outline

The valve test program shall be conducted in accordance with Subsection IWV of Section XI of the 1980 Edition of the ASME Boiler and Pressure Vessel Code thru Winter 1981 Addenda, except for specific relief requested in accordance with 10 CFR 50.55a (g) (5) (iii) which is identified in Subsections I.G. The period for this valve test program starts December 14, 1982, and ends December 14, 1992. The effective date of this revised valve test program is August 1, 1984.

Section II. Pump Test Program Outline

The pump test program shall be conducted in accordance with Subsection IWP of Section XI of the 1980 Edition of the ASME Boiler and Pressure Vessel Code thru Winter 1981 Addenda, except for specific relief requested in accordance with 10 CFR 50.55a (g) (5) (iii) which is identified in Subsection II.A. The period for the pump test program starts December 14, 1982, and ends December 14, 1992. The effective date of this revised pump test program is August 1, 1984.

TURKEY POINT UNIT 4

ABSTRACT

The planned inservice inspection and testing programs were developed employing the R.G. 1.26, Revision 2, criteria for quality group classifications and standards (Quality Group A is the same as ASME Class 1, etc.).

Section I. Valve Test Program Outline

The valve test program shall be conducted in accordance with Subsection IWV of Section XI of the 1980 Edition of the ASME Boiler and Pressure Vessel Code thru Winter 1981 Addenda, except for specific relief requested in accordance with 10 CFR 50.55a (g) (5) (iii) which is identified in Subsections I.G. The period for this valve test program starts September 7, 1983, and ends September 7, 1993. The effective date of this revised valve test program is August 1, 1984.

Section II. Pump Test Program Outline

The pump test program shall be conducted in accordance with Subsection IWP of Section XI of the 1980 Edition of the ASME Boiler and Pressure Vessel Code thru Winter 1981 Addenda, except for specific relief requested in accordance with 10 CFR 50.55a (g) (5) (iii) which is identified in Subsection II.A. The period for the pump test program starts September 7, 1983, and ends September 7, 1993. The effective date of this revised pump test program is August 1, 1984.

I.A. LIST OF DRAWINGS

5610-M-420-3, REV. 8 (FPL NO. F-503184, REV. 7)	CHEMICAL & VOLUME CONTROL SYSTEM (3 SHEETS)
5610-M-470-5, REV. 8 (FPL NO. E-503185, REV. 7)	SAFETY INJECTION SYSTEM (4 SHEETS)
5610-M-450-57, REV. 9 (FPL NO. F-503187, REV. 7)	AUXILIARY COOLANT SYSTEM COMPONENT COOLING (3 SHEETS)
5610-M-450-57, REV. 9 (FPL NO. F-503188, REV. 7)	AUXILIARY COOLANT SYSTEM COMPONENT COOLING (4 SHEETS)
5610-M-500-27, REV. 9 (FPL NO. F-503189, REV. 8)	WASTE DISPOSAL SYSTEM (2 SHEETS)
5610-M-410-91, REV. 7 (FPL NO. F-503191, REV. 6)	REACTOR COOLANT SYSTEM (2 SHEETS)
5610-M-480-1, REV. 9 (FPL NO. F-503193, REV. 7)	SAMPLING SYSTEM
5610-M-450-53, REV. 8 (FPL NO. F-503194, REV. 6)	AUXILIARY COOLANT SYSTEM RESIDUAL HEAT REMOVAL
5610-M-450-54, REV. 6 (FPL NO. F-503195, REV. 4)	AUXILIARY COOLANT SYSTEM SPENT FUEL PIT COOLING SYSTEM
5610-M-1, REV. 14 (FPL NO. F-502027, REV. 14)	STEAM SYSTEM
5610-M-2, REV. 18 (FPL NO. F-502028, REV. 15)	CONDENSATE AND FEEDWATER SYSTEMS
5610-M-4, REV. 18 (FPL NO. F-502030, REV. 14)	LUBE OIL SERVICE AND INSTRUMENT AIR
5610-M-5, REV. 17 (FPL NO. F-502031, REV. 14)	CIRCULATING WATER, SALT WATER AND CHLORINATION SYSTEMS (INTAKE COOLING WATER SYSTEM)
5610-M-7, REV. 10 (FPL NO. F-502033, REV. 8)	DIESEL OIL
5610-M-10, REV. 18 (FPL NO. F-502036, REV. 14)	FIRE, PRIMARY MAKE-UP, CONTAINMENT COOLING WATER AND CHEMICAL INJECTION SYSTEMS
5610-M-11, REV. 11 (FPL NO. F-502037, REV. 100)	CONTAINMENT VENTILATION SYSTEM



I.A. LIST OF DRAWINGS (CONT'D)

5610-M-12, REV. 9
(FPL NO. F-502038, REV. 10)

CONTAINMENT AND RADWASTE
DRAINS AND VENTS

(5177-074-M-2, REV. 6)

BREATHING AIR SYSTEMS

NOTE: FPL drawing number shown in parentheses has been
superseded by the Architect Engineer number.

I.B. LIST OF VALVE CATEGORIES (IWV-2200)

- Category A - Valves for which seat leakage is limited to a specific maximum amount in the closed position for fulfillment of their function.
- Category B - Valves for which seat leakage in the closed position is inconsequential for fulfillment of their function.
- Category C - Valves which are self-actuating in response to some system characteristic, such as pressure (relief valves) or flow direction (check valves).
- Category D - Valves which are actuated by an energy source capable of only one operation, such as rupture disks or explosive-actuated valves.

NOTE: When more than one distinguishing category characteristic is applicable, all requirements of each of the individual categories are applicable, although duplication or repetition of common testing requirements is not necessary.



I.C. LIST OF DEFINITIONS

1. ACTIVE AND PASSIVE VALVES (IWV-2100)
 - (a) ACTIVE VALVES - Valves which are required to change position to accomplish a specific function.
 - (b) PASSIVE VALVES - Valves which are not required to change position to accomplish a specific function.
2. EXERCISING - Exercising is the demonstration, based on direct or indirect visual or other positive indication, that the valve exhibits the required change of disk position to fulfill its function.
 - (a) FULL STROKE - is the valve stem or disc movement to the position required (to open or to close) to fulfill its function.
 - (b) NORMALLY OPEN VALVE - verification of seating upon cessation or reversal of flow.
 - (c) NORMALLY CLOSED VALVE - verification of opening upon cessation of pressure differential or initiation of flow or by mechanical force.



I.D. LIST OF VALVE TABLE SYMBOLS

VALVE NUMBER: IDENTIFICATION-ASTERISK FOR UNIT 3 or 4

SIZE: INCHES

TYPE: GATE-GLOBE-CHECK-RELIEF-BALL

SAFE - SAFETY
 DIAPH - DIAPHRAGM
 BUTFY - BUTTERFLY
 S/CHK - STOP CHECK
 POWER - POWER ASSISTED CHECK
 ASS'T
 CHECK

ACTUATOR: A/O - AIR OPERATOR
 MO - ELECTRIC MOTOR OPERATOR
 SO - SOLENOID OPERATOR
 S/A - SELF ACTUATED

CODE CLASS: 1 - 2 - 3

CODE CATEGORY: A - B - C (OR COMBINATION OF) SEE
 TABLE A BELOW AND SUBSECTION I.B.

ACTIVE/PASSIVE: A - P (SEE TABLE A BELOW)

NORMAL POSITION: NO - NORMALLY OPEN
 NC - NORMALLY CLOSED
 LO - LOCKED OPEN
 LC - LOCKED CLOSED

FAILURE MODE: FO - FAIL OPEN
 FC - FAIL CLOSED
 FAI - FAIL AS IS

REMOTE POSITION INDICATION: YES - NO

TEST PERIOD: 1. REFUELING SHUTDOWN
 2. COLD SHUTDOWN - SEE NOTE 1
 FOR DEFINITION UNDER SUB-SECTION
 I.E.
 3. OPERATION - 3 MONTHS OR LESS
 (CODE).

INSERVICE INSPECTION (ISI) TESTS: SEE APPROPRIATE LIST OF CATEGORY
 LEGEND (SUB-SECTION I.E.)

THREE ASTERISKS (***)-ONE (1) INSPECTION
 INTERVAL (TEN YEARS).



I.D. LIST OF VALVE TABLE SYMBOLS (CONT'D)

RRB NO. NUMBER RELATES TO APPROPRIATE VALVE RELIEF REQUEST BASIS.

VALVE COORDINATE: LOCATION OF VALVE ON DRAWING.

REMARKS: RELATED TO SPECIAL ALTERNATE TESTING.

TABLE - A (TABLE IWV-3700-1) (2)

<u>VALVE CATEGORY</u>	<u>VALVE FUNCTION</u>	<u>CODE LEAK TEST</u>	<u>CODE EXERCISE TEST</u>	<u>SPECIAL TEST PROCEDURE</u>
A	ACTIVE	IWV-3420	IWV-3410	NONE
A	PASSIVE	IWV-3420	NONE	NONE
B	ACTIVE	NONE	IWV-3410	NONE
C - SAFETY AND RELIEF	ACTIVE	NONE	IWV-3510	NONE
C - CHECK (1)	ACTIVE	NONE	IWV-3520	NONE
D	ACTIVE	NONE	NONE	IWV-3600

NOTE: (1) Combination Category AC Check Valves shall be leak tested IWV-3420.

(2) No Tests required for Category B, C, and D passive valves.



I.E. LEGEND FOR TABLE I - TEST PARAMETERS TO CODE OR RELIEF REQUEST

CATEGORY A AND B VALVES

Exercising

- EF-1 Exercise valve (full stroke) for operability every 3 months (Code).
- EF-2 Exercise valve (full stroke) for operability during cold shutdown (Code).
- EF-3 Exercise valve (full stroke) for operability during refueling shutdown (Code).
- EF-4 Exercise valve (full stroke) for operability prior to return to service (Code).
- EF-5 Exercise valve with remote position indicator at least once every 2 years for verification that valve operation is accurately indicated. (Code)
- EF-7 Exercise valve (with Fail-Safe Actuators) to observe failure mode every 3 months (Code).
- EF-8 Exercise valve (with Fail-Safe Actuators) to observe failure mode during cold shutdown (Code).
- EF-9 Exercise valve (with Fail-Safe Actuators) to observe failure mode during refueling shutdown (Code).

Measurement of Full Stroke Time

- EST-1 Exercise valve - power operated (full stroke) and measure time (Code) (5 seconds - Max.) (FPL)
- EST-2 Exercise valve - power operated (full stroke) and measure time (Code) (10 seconds - Max.) (FPL)
- EST-3 Exercise valve - power operated (full stroke) and measure time (Code) (60 seconds - Max.) (FPL)
- EST-4 Exercise valve - power operated (full stroke) and measure time (Code) (120 seconds - Max.) (FPL)
- EST-5 Exercise valve - power operated (full stroke) and measure time (Code) (180 seconds - Max.) (FPL)
- EST-6 Exercise valve - power operated (full stroke) and measure time (Code) (15 seconds - Max.) (FPL)

I.E. LEGEND FOR TABLE I - TEST PARAMETERS TO CODE OR RELIEF REQUEST
(Continued)

EST-7 Exercise valve - power operated (full stroke) and
 measure time (Code) (30 seconds - Max.) (FPL)

EST-8 Exercise valve - power operated (full stroke) and
 measure time (Code) (45 seconds - Max.) (FPL)

Valve Leak Rate Tests

SLT-1 Seat leakage test valve during refueling but at least
 once every 2 years (Code).

CATEGORY C VALVES

Check Valves

EF-1 Exercise valve (full stroke) for operability every
 3 months (Code).

EF-2 Exercise valve (full stroke) for operability during
 cold shutdown (Code).

EF-3 Exercise valve (full stroke) for operability during
 refueling shutdown (Code).

Safety and Relief Valves

TF-1 Safety and relief valve tests (Set Point)
 to ASME Table IWV-3510-1 (Code).

NOTES:

- 1) Cold Shutdown - ISI test scheduled for Test Period 2 (Cold Shutdown) shall commence no later than 48 hours after reaching Cold Shutdown conditions, or no later than 64 hours if Cold Shutdown conditions are reached between Friday 1600 hours and Monday 0800 hours. In the case of frequent Cold Shutdowns, valve testing will not be performed more often than once every three (3) months for Category A, B, and C valves. Valves that are not tested during a specified Cold Shutdown, due to plant startup, will be identified to assure their testing in the event of untimely Cold Shutdowns within the three (3) month time period. In any event, plant startup shall not be delayed to complete valve testing.

I.E. LEGEND FOR TABLE I (CON'T)

NOTES: (CON'T)

- 2) Corrective Action - Where a pump or valve fails to meet the requirements of the program and/or the referenced Code, the condition(s) shall be reviewed by the Plant Nuclear Safety Committee for disposition and determination of whether it involves an unreviewed safety question prior to commencing with plant startup or continuing with plant operation. Refer to Generic Relief Basis No. 1.
- 3) Test Period - Column: Where test period is denoted as 1, tests may be performed 1 or 2 period, dependent on plant conditions.
- 4) Each valve in Table I is either tested to code or Relief requested and supported by Relief Request Basis including Alternate Tests.

I.F. List of Category (A-B-C) Valves:

Table I - Tests to Code or Relief Request

<u>SYSTEM</u>	<u>PAGE NO.</u>
Reactor Coolant	15
Chemical Volume & Control	18
Residual Heat Removal	22
(Auxiliary Coolant)	
Spent Fuel Cooling	24
(Auxiliary Coolant)	
Component Cooling Water	25
(Auxiliary Coolant)	
Safety Injection	27
Sampling	35
Waste Disposal - Liquid	37
Steam	38
Condensate and Feedwater	41
Instrument Air	44
(Lube Oil, Service and Instrument Air)	
Intake Cooling Water	45
Diesel Oil	46
Primary Makeup and Component Cooling	47
Containment Ventilation	48
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FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	VALVE COORD	REMARKS
RV-*-551A	4	SAFE	S/A	1	C	A	NC	---	NO	1	TF-1	A-7	
RV-*-551B	4	SAFE	S/A	1	C	A	NC	---	NO	1	TF-1	A-7	
RV-*-551C	4	SAFE	S/A	1	C	A	NC	---	NO	1	TF-1	A-6	
CV-*-519B	3	DIAPH	A/O	2	A	P	NC	FC	YES	1 1	EF-5 SLT-1	B-11	
CV-*-522A	3/4	DIAPH	A/O	2	A	P	NC	FC	YES	1 1	EF-5 SLT-1	B-12	
CV-*-522B	3/4	DIAPH	A/O	2	A	P	NC	FC	YES	1 1	EF-5 SLT-1	B-12	
CV-*-522C	3/4	DIAPH	A/O	2	A	P	NC	FC	YES	1 1	EF-5 SLT-1	B-11	



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	RRB NO.	VALVE COORD	REMARKS
CV-*-519A	3	DIAPH	A/O	2	A	A	NC	FC	YES	2 2 2 1 1	EF-2 EF-8 EST-3 SLT-1 EF-5	1	A-12	
*-519	3/4	S/CHK	S/A	2	AC	A	NC	--	NO	2 1	EF-2 SLT-1	2	A-11	
SV-*-6385	3/8	GLOBE	SO	2	A	A	NC	FC	YES	2 2 2 1 1	EF-2 EF-8 EST-2 EF-5 SLT-1	3 8	A-12	
CV-*-516	3/8	GLOBE	A/O	2	A	A	NC	FC	YES	2 2 2 1 1	EF-2 EF-8 EST-2 EF-5 SLT-1	3 8	A-12	
MOV-*-535	3	GATE	MO	1	B	A	NO	FAI	YES	2 2 1	EF-2 EST-3 EF-5	7	A-5	
MOV-*-536	3	GATE	MO	1	B	A	NO	FAI	YES	2 2 1	EF-2 EST-3 EF-5	7	A-5	
*-518	3/4	CHECK	S/A	2	AC	A	NC	---	NO	2 1	EF-2 SLT-1	2	A-11	
PCV-*-456	2	GLOBE	A/O	1	B	A	NC	FC	YES	2 2 2 1	EF-2 EF-8 EST-6 EF-5	6	A-5	
PCV-*-455C	2	GLOBE	A/O	1	B	A	NC	FC	YES	2 2 2 1	EF-2 EF-8 EST-6 EF-5	6	A-5	

SYSTEM TITLE: REACTOR COOLANT (RCS)

PROGRAM TITLE: VALVE TEST PROGRAM

DWG. NO.: 5610-M-410-91

FLORIDA POWER & LIGHT COMPANY
TABLE I - TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
SV-*-6318A	1	GLOBE	SO	2	B	A	LC	FC	YES	2 2 2 1	EF-2 EF-8 EST-6 EF-5	5	A-8	
SV-*-6318B	1	GLOBE	SO	2	B	A	LC	FC	YES	2 2 2 1	EF-2 EF-8 EST-6 EF-5	5	A-8	
SV-*-6319A	1	GLOBE	SO	2	B	A	LC	FC	YES	2 2 2 1	EF-2 EF-8 EST-6 EF-5	4	A-9	
SV-*-6319B	1	GLOBE	SO	2	B	A	LC	FC	YES	2 2 2 1	EF-2 EF-8 EST-6 EF-5	4	A-9	
SV-*-6320A	1	GLOBE	SO	2	B	A	LC	FC	YES	2 2 2 1	EF-2 EF-8 EST-6 EF-5	5	A-9	
SV-*-6320B	1	GLOBE	SO	2	B	A	LC	FC	YES	2 2 2 1	EF-2 EF-8 EST-6 EF-5	5	A-9	

SYSTEM TITLE: REACTOR COOLANT (RCS)

PROGRAM TITLE: VALVE TEST PROGRAM

DWG. NO.: 5610-M-410-91

FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	RRB NO.	VALVE COORD	REMARKS
CV-*-200A	2	GLOBE	A/O	1	A	A	NC	FC	YES	2 2 2 1 1	EF-2 EF-8 EST-2 SLT-1 EF-5	1	D-19	
CV-*-200B	2	GLOBE	A/O	1	A	A	NC	FC	YES	2 2 2 1 1	EF-2 EF-8 EST-2 SLT-1 EF-5	1	D-18	
CV-*-200C	2	GLOBE	A/O	1	A	A	NO	FC	YES	2 2 2 1 1	EF-2 EF-8 EST-2 SLT-1 EF-5	1	D-18	
CV-*-204	2	GLOBE	A/O	2	A	A	NO	FC	YES	2 2 2 1 1	EF-2 EF-8 EST-2 SLT-1 EF-5	2	D-17	
MOV-*-381	3	GATE	MO	2	A	A	NO	FAI	YES	2 2 1 1	EF-2 EST-6 SLT-1 EF-5	3	B-16	
MOV-*-6386	3	GATE	MO	2	A	A	NO	FAI	YES	2 2 1 1	EF-2 EST-6 SLT-1 EF-5	3	B-16	

FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	RRB NO.	VALVE COORD	REMARKS
MCV-*-121	3	GLOBE	A/O	2	A	A	NO	FO	NO	2 2 1	EF-2 EF-8 SLT-1	5	C-17	
CV-*-310A	3	GLOBE	A/O	1	B	A	NO	FO	YES	2 2 2 1	EF-2 EF-8 EST-6 EF-5	6	C-19	
CV-*-310B	3	GLOBE	A/O	1	B	A	NC	FO	YES	2 2 2 1	EF-2 EF-8 EST-6 EF-5	6	C-19	
LCV-*-115C	4	GATE	MO	2	B	A	NO	FAI	YES	2 2 1	EF-2 EST-3 EF-5	7	C-14	
*-333	3	GLOBE	MAN	2	A	P	NC	FAI	NO	1	SLT-1		C-17	



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	RRB NO.	VALVE COORD	REMARKS
LCV-*-115B	4	BUTFY	A/O	2	B	A	NC	FC	YES	2 2 2 1	EF-2 EF-8 EST-3 EF-5	8	A-14	
MOV-*-350	2	GATE	MO	2	B	A	NC	FAI	YES	3 3 1	EF-1 EST-7 EF-5	---	A-12	
*-312A	3	CHECK	S/A	1	C	A	NC	--	NO	2	EF-2	10	C-19	
*-312B	3	CHECK	S/A	1	C	A	NC	--	NO	2	EF-2	10	C-19	
*-351	2	CHECK	S/A	2	C	A	NC	--	NO	2	EF-2	11	A-12	
*-357	4	CHECK	S/A	2	C	A	NC	--	NO	2	EF-2	12	A-13	



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	RRB NO.	VALVE COORD	REMARKS
*-298A	2	CHECK	S/A	1	AC	A	NO	--	NO	1 1	EF-3 SLT-1	13	A-20	
*-298B	2	CHECK	S/A	1	AC	A	NO	--	NO	1 1	EF-3 SLT-1	13	A-19	
*-298C	2	CHECK	S/A	1	AC	A	NO	--	NO	1 1	EF-3 SLT-1	13	A-18	
*-312C	3	CHECK	S/A	1	AC	A	NO	--	NO	1 1	EF-3 SLT-1	14	C-17	



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
MOV-*-744A	10	GATE	MO	2	B	A	NC	FAI	YES	2 2 1	EF-2 EST-** EF-5	1	B-12	** = 24 sec.
MOV-*-744B	10	GATE	MO	2	B	A	NC	FAI	YES	2 2 1	EF-2 EST-** EF-5	1	B-12	** = 24 sec.
*-753A	10	CHECK	S/A	2	C	A	NC	---	NO	2	EF-2	2	F-7	
*-753B	10	CHECK	S/A	2	C	A	NC	---	NO	2	EF-2	2	H-7	
*-741A	2	GLOBE	MAN	2	B	A	LO	FAI	NO	3	EF-1		D-11	

SYSTEM TITLE: AUX. COOL. RES. HEAT REM.

PROGRAM TITLE: VALVE TEST PROGRAM

DWG. NO.: 5610-M-450-53

FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS.. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
MOV--*-751	14	GATE	MO	1	A	A	LC	FAI	YES	2 2 1	EF-2 EST-* SLT-1	3	C-5	*=300 sec
MOV--*-750	14	GATE	MO	1	A	A	NC	FAI	YES	2 2 1	EF-2 EST-* SLT-1	3	B-5	*=300 sec
HCV--*-758	12	BUTFY	A/O	2	B	P	LO	FO	NO	---	---		G-11	TABLE IWV-3700-1

SYSTEM TITLE: AUX. COOL. RES. HEAT REM.

PROGRAM TITLE: VALVE TEST PROGRAM

DWG. NO.: 5610-M-450-53



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	VALVE COORD	REMARKS
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NO TABLE I VALVES



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	VALVE COORD	REMARKS
*-702A	16	CHECK	S/A	3	C	A	NO	---	NO	3	EF-1	C-11	
*-702B	16	CHECK	S/A	3	C	A	NO	---	NO	3	EF-1	B-11	
*-702C	16	CHECK	S/A	3	C	A	NO	---	NO	3	EF-1	B-11	
MOV-*-749A	16	GATE	MO	3	B	A	NC	FAI	YES	3 3 1	EF-1 EST-5 EF-5	D-5	
MOV-*-749B	16	GATE	MO	3	B	A	NC	FAI	YES	3 3 1	EF-1 EST-5 EF-5	C-6	



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
MOV--716A	6	GATE	MO	2	B	A	NO	FAI	YES	2 2 1	EF-2 EST-7 EF-5	3	B-18	
MOV--716B	6	GATE	MO	2	B	A	NO	FAI	YES	2 2 1	EF-2 EST-7 EF-5	4	B-17	
MOV--730	6	GATE	MO	2	B	A	NO	FAI	YES	2 2 1	EF-2 EST-7 EF-5	5	C-13	
FCV--626	3	GATE	MO	2	B	A	NO	FAI	YES	2 2 1	EF-2 EST-7 EF-5	6	B-13	



FLORIDA POWER & LIGHT COMPANY
TABLE I TEST TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	VALVE COORD	REMARKS
*-945E	1	S/CHK	S/A	2	AC	P	NC	---	NO	1	SLT-1	C-9	
MOV-*-843A	4	GATE	MO	2	B	A	NC	FAI	YES	3 3 1	EF-1 EST-6 EF-5	C-13	
MOV-*-843B	4	GATE	MO	2	B	A	NC	FAI	YES	3 3 1	EF-1 EST-6 EF-5	C-13	
MOV-*-869	3	GATE	MO	2	B	A	NC	FAI	YES	3 3 1	EF-1 EST-3 EF-5	D-12	
MOV-*-880A	6	GATE	MO	2	A	A	NC	FAI	YES	3 3 1	EF-1 EST-6 EF-5	B-7	
MOV-*-880B	6	GATE	MO	2	A	A	NC	FAI	YES	1 3 3 1 1	SLT-1 EF-1 EST-6 EF-5 SLT-1	B-7	
*-895V	3/4	GLOBE	MAN	2	A	P	LC	FAI	NO	1	SLT-1	D-12	



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	RRB NO.	VALVE COORD	REMARKS
MOV--*-860A	14	GATE	MO	2	A	A	NC	FAI	YES	2 2 1 1	EF-2 EST-4 EF-5 SLT-1	1	A-9	
MOV--*-860B	14	GATE	MO	2	A	A	NC	FAI	YES	2 2 1 1	EF-2 EST-4 EF-5 SLT-1	1	A-9	
MOV--*-861A	14	GATE	MO	2	A	A	NC	FAI	YES	2 2 1 1	EF-2 EST-4 SLT-1 EF-5	2	A-8	
MOV--*-861B	14	GATE	MO	2	A	A	NC	FAI	YES	2 2 2 1	EF-2 EST-4 SLT-1 EF-5	2	A-8	
MOV--*-863A	8	GATE	MO	2	B	A	LC	FAI	YES	2 2 1	EF-2 EST-3 EF-5	3	B-8	
MOV--*-863B	8	GATE	MO	2	B	A	LC	FAI	YES	2 2 1	EF-2 EST-3 EF-5	3	B-8	
MOV--*-872	8	GATE	MO	2	B	A	NC	FAI	YES	2 2 1	EF-2 EST-3 EF-5	4	A-7	
CV--*-855	1	GLOBE	A/O	2	A	A	NO	FC	YES	3 3 3 1 1	EF-1 EF-7 EST-2 SLT-1 EF-5		C-9	
CV--*-856A	2	GLOBE	A/O	2	B	A	NO	FC	YES	1 1 1 1	EF-3 EST-6 EF-5 EF-9	20	C-3	
CV--*-856B	2	GLOBE	A/O	2	B	A	NO	FC	YES	1 1 1 1	EF-3 EST-6 EF-5 EF-9	20	C-3	

SYSTEM TITLE: SAFETY INJECTION SYS. (SIS)

PROGRAM TITLE: VALVE TEST PROGRAM

DWG. NO.: 5610-M-470-5



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	RRB NO.	VALVE COORD	REMARKS
MOV-*-866A	2	GLOBE	MO	1	B	A	LC	FAI	YES	2 2 1	EF-2 EST-3 EF-5	6	D-15	
MOV-*-866B	2	GLOBE	MO	1	B	A	LC	FAI	YES	2 2 1	EF-2 EST-3 EF-5	6	D-15	
*-876A	8	CHECK	S/A	1	C	A	NC	--	NO	2	EF-2	7	B-15	
*-876B	8	CHECK	S/A	1	C	A	NC	--	NO	2	EF-2	7	A-13	
*-876C	8	CHECK	S/A	1	C	A	NC	--	NO	2	EF-2	7	A-11	
*-876D	8	CHECK	S/A	1	C	A	NC	--	NO	2	EF-2	8	A-13	
*-876E	8	CHECK	S/A	1	C	A	NC	--	NO	2	EF-2	8	A-11	
*-945E	1	S/CHK	S/A	2	AC	A	NO	--	NO	2 1	EF-2 SLT-1	5	C-9	



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
879A	3	CHECK	S/A	2	C	A	NC	---	NO	1	EF-3	19	D-7	
879B	3	CHECK	S/A	2	C	A	NC	---	NO	1	EF-3	19	C-7	
879C	3	CHECK	S/A	2	C	A	NC	---	NO	1	EF-3	19	C-7	
879D	3	CHECK	S/A	2	C	A	NC	---	NO	1	EF-3	19	C-7	
*-875A	10	CHECK	S/A	1	C	A	NC	---	NO	2	EF-2	9	A-16	
*-875B	10	CHECK	S/A	1	C	A	NC	---	NO	2	EF-2	9	A-17	
*-875C	10	CHECK	S/A	1	C	A	NC	---	NO	2	EF-2	9	A-17	



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
MOV-878A	4	GATE	MO	2	B	A	NO	FAI	YES	1 1 1	EF-3 EST-3 EF-5	10	C-7	
MOV-878B	4	GATE	MO	2	B	A	NO	FAI	YES	1 1 1	EF-3 EST-3 EF-5	10	C-7	
MOV*-864A	16	GATE	MO	2	B	A	LO	FAI	YES	1 1 1	EF-3 EST-4 EF-5	11	D-2	
MOV*-864B	16	GATE	MO	2	B	A	LO	FAI	YES	1 1 1	EF-3 EST-4 EF-5	11	D-2	
MOV*-862A	14	GATE	MO	2	B	A	LO	FAI	YES	2 2 1	EF-2 EST-4 EF-5	12	A-5	
MOV*-862B	14	GATE	MO	2	B	A	LO	FAI	YES	2 2 1	EF-2 EST-4 EF-5	12	A-5	
SV*-2905	2	GLOBE	SO	2	B	A	NC	FC	YES	1 1 1 1	EF-3 EF-9 EST-2 EF-5	13	C-10	
SV*-2906	2	GLOBE	SO	2	B	A	NC	FC	YES	1 1 1 1	EF-3 EF-9 EST-2 EF-5	13	C-10	
SV*-2907	2	GLOBE	SO	2	B	A	NC	FC	YES	1 1 1 1	EF-3 EF-9 EST-2 EF-5	13	C-9	

SYSTEM TITLE: SAFETY INJECTION SYS (SIS)

PROGRAM TITLE: VALVE TEST PROGRAM

DWG. NO.: 5610-M-470-5

FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
SV-*-2908	2	GLOBE	SO	2	B	A	NC	FC	YES	1 1 1 1	EF-3 EF-9 EST-2 EF-5	13	C-9	
*-2918	2	CHECK	S/A	2	C	A	NC	--	NO	***	***	14	B-10	**SEE ALTER- NATE TESTING IN REQUEST FOR RELIEF BASIS.
*-2919	2	CHECK	S/A	2	C	A	NC	--	NO	***	***	14	B-9	
*-2920	2	CHECK	S/A	2	C	A	NC	--	NO	***	***	14	B-9	
*-2921	2	CHECK	S/A	2	C	A	NC	--	NO	***	***	14	B-10	
*-2922	2	CHECK	S/A	2	C	A	NC	--	NO	***	***	14	B-9	
*-2923	2	CHECK	S/A	2	C	A	NC	--	NO	***	***	14	B-9	
*-874A	2	CHECK	S/A	1	C	A	NC	--	NO	1	EF-3	15	D-17	
*-874B	2	CHECK	S/A	1	C	A	NC	--	NO	1	EF-3	15	D-17	
SV-*-2909	2	GLOBE	S/O	2	B	A	NC	FC	YES	1 1 1 1	EF-3 EF-9 EST-2 EF-5	13	C-9	
SV-*-2910	2	GLOBE	S/O	2	B	A	NC	FC	YES	1 1 1 1	EF-3 EF-9 EST-2 EF-5	13	C-9	

SYSTEM TITLE: SAFETY INJECTION SYS(SIS)

PROGRAM TITLE: VALVE TEST PROGRAM

DWG. NO.: 5610-M-470-5



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
*-873A	2	CHECK	S/A	1	C	A	NC	--	NO	1	EF-3	16	C-15	
*-873B	2	CHECK	S/A	1	C	A	NC	--	NO	1	EF-3	16	C-15	
*-873C	2	CHECK	S/A	1	C	A	NC	--	NO	1	EF-3	16	C-14	
*-875D	10	CHECK	S/A	1	C	A	NC	--	NO	1	EF-3	17	B-15	
*-875E	10	CHECK	S/A	1	C	A	NC	--	NO	1	EF-3	17	B-13	
*-875F	10	CHECK	S/A	1	C	A	NC	--	NO	1	EF-3	17	B-11	
*-890A	6	CHECK	S/A	2	C	A	NC	--	NO	*** 1	*** SLT-1	14	B-8	***SEE ALTER- NATE TESTING IN REQUEST FOR RELIEF BASIS.
*-890B	6	CHECK	S/A	2	C	A	NC	--	NO	*** 1	*** SLT-1	14	B-8	



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
MOV--*-865A	10	GATE	MO	2	B	P	LO	FAI	YES	1	EF-5		B-15	TABLE IWV-3700-1
MOV--*-865B	10	GATE	MO	2	B	P	LO	FAI	YES	1	EF-5		B-13	TABLE IWV-3700-1
MOV--*-865C	10	GATE	MO	2	B	P	LO	FAI	YES	1	EF-5		B-11	TABLE IWV-3700-1

SYSTEM TITLE: SAFETY INJECTION SYSTEM (SIS)

PROGRAM TITLE: VALVE TEST PROGRAM

DWG. NO.: 5610-M-470-5

FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	VALVE COORD	REMARKS
CV-*-955C	3/8	GLOBE	A/O	2	A	P	NC	FC	YES	1 1	EF-5 SLT-1	F-12	
CV-*-955D	3/8	GLOBE	A/O	2	A	P	NC	FC	YES	1 1	EF-5 SLT-1	F-12	
CV-*-955E	3/8	GLOBE	A/O	2	A	P	NC	FC	YES	1 1	EF-5 SLT-1	F-12	

SYSTEM TITLE: SAMPLING (SS)

PROGRAM TITLE: VALVE TEST PROGRAM

DWG. NO.: 5610-M-480-1

FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
CV-*-956A	3/8	GLOBE	A/O	2	A	A	NC	FC	YES	3 3 3 1 1	EF-1 EF-7 EST-2 EF-5 SLT-1		H-11	
CV-*-956B	3/8	GLOBE	A/O	2	A	A	NC	FC	YES	3 3 3 1 1	EF-1 EF-7 EST-2 EF-5 SLT-1		H-11	
SV-*-6428	3/8	GLOBE	SO	2	A	A	NC	FC	YES	3 3 3 1 1	EF-1 EF-7 EST-2 EF-5 SLT-1	2	G-11	
CV-*-956D	3/8	GLOBE	A/O	2	A	A	NC	FC	YES	3 3 3 1 1	EF-1 EF-7 EST-2 EF-5 SLT-1		F-11	
CV-*-951	3/8	GLOBE	A/O	2	A	P	NC	FC	YES	1 1	SLT-1 EF-5		H-12	
CV-*-953	3/8	GLOBE	A/O	2	A	P	NC	FC	YES	1 1	EF-5 SLT-1		H-12	
SV-6427A	3/8	GLOBE	SO	2	A	A	NC	FC	YES	3 3 3 1 1	EF-1 EF-7 EST-2 EF-5 SLT-1	2	G-12	
SV-6427B	3/8	GLOBE	SO	2	A	A	NC	FC	YES	3 3 3 1 1	EF-1 EF-7 EST-2 SLT-1 EF-5	2	G-12	



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	VALVE COORD	REMARKS
PCV--*-1014	1	GLOBE	A/O	2	A	A	NC	FC	NO	3 3 1	EF-1 EF-7 SLT-1	D-6	
CV--*-4658A	3/4	DIAPH	A/O	2	A	A	NO	FC	YES	3 3 3 1 1	EF-1 EF-7 EST-2 EF-5 SLT-1	C-7	
CV--*-4658B	3/4	DIAPH	A/O	2	A	A	NO	FC	YES	3 3 3 1 1	EF-1 EF-7 EST-2 SLT-1 EF-5	C-6	
CV--*-4659A	3/4	DIAPH	A/O	2	A	A	NO	FC	YES	3 3 3 1 1	EF-1 EF-7 EST-2 EF-5 SLT-1	C-7	
CV--*-4659B	3/4	DIAPH	A/O	2	A	A	NO	FC	YES	3 3 3 1 1	EF-1 EF-7 EST-2 SLT-1 EF-5	C-6	
CV--*-4668A	3	DIAPH	A/O	2	A	A	NO	FC	YES	3 3 3 1 1	EF-1 EF-7 EST-2 EF-5 SLT-1	B-7	
CV--*-4668B	3	DIAPH	A/O	2	A	A	NO	FC	YES	3 3 3 1 1	EF-1 EF-7 EST-2 EF-5 SLT-1	B-6	

SYSTEM TITLE: WASTE DISPOSAL-LIQUID

PROGRAM TITLE: VALVE TEST PROGRAM

DWG. NO.: 5610-M-500-27

FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	VALVE COORD	REMARKS
RV-*-1400	6	SAFE	S/A	2	C	A	NC	--	NO	1	TF-1	C-10	
RV-*-1401	6	SAFE	S/A	2	C	A	NC	--	NO	1	TF-1	C-9	
RV-*-1402	6	SAFE	S/A	2	C	A	NC	--	NO	1	TF-1	C-10	
RV-*-1403	6	SAFE	S/A	2	C	A	NC	--	NO	1	TF-1	C-9	
RV-*-1405	6	SAFE	S/A	2	C	A	NC	--	NO	1	TF-1	B-10	
RV-*-1406	6	SAFE	S/A	2	C	A	NC	--	NO	1	TF-1	B-10	
RV-*-1407	6	SAFE	S/A	2	C	A	NC	--	NO	1	TF-1	B-11	
RV-*-1408	6	SAFE	S/A	2	C	A	NC	--	NO	1	TF-1	B-10	
RV-*-1410	6	SAFE	S/A	2	C	A	NC	--	NO	1	TF-1	C-11	
RV-*-1411	6	SAFE	S/A	2	C	A	NC	--	NO	1	TF-1	C-11	
RV-*-1412	6	SAFE	S/A	2	C	A	NC	--	NO	1	TF-1	C-11	
RV-*-1413	6	SAFE	S/A	2	C	A	NC	--	NO	1	TF-1	C-10	



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	VALVE COORD	REMARKS
MOV--*-1403	3	GATE	MO	2	B	A	NC	FAI	YES	3 3 1	EF-1 EST-3 EF-5	C-12	
MOV--*-1404	3	GATE	MO	2	B	A	NC	FAI	YES	3 3 1	EF-1 EST-3 EF-5	D-12	
MOV--*-1405	3	GATE	MO	2	B	A	NC	FAI	YES	3 3 1	EF-1 EST-3 EF-5	D-12	
*-10-083	4	CHECK	S/A	3	C	A	NC	---	NO	3	EF-1	E-12	
*-10-085	4	CHECK	S/A	3	C	A	NC	--	NO	3	EF-4	E-12	TRAIN 2
*-10-087	4	CHECK	S/A	3	C	A	NC	--	NO	3	EF-1	F-12	
*-10-119	3	S/CHK	S/A	3	C	A	NC	--	NO	3	EF-1	C-12	
*-10-219	3	S/CHK	S/A	3	C	A	NC	--	NO	3	EF-1	D-12	
*-10-319	3	S/CHK	S/A	3	C	A	NC	--	NO	3	EF-1	D-12	
*-10-120	4	S/CHK	S/A	3	C	A	NC	--	NO	3	EF-1	C-12	
*-10-220	4	S/CHK	S/A	3	C	A	NC	--	NO	3	EF-1	D-12	
*-10-320	4	S/CHK	S/A	3	C	A	NC	--	NO	3	EF-1	D-12	
AFSS--*-005	4	CHECK	S/A	3	C	A	HC	--	NO	3	EF-1	C-12	
AFSS--*-003B	4	CHECK	S/A	3	C	A	HC	--	NO	3	EF-1	D-12	
AFSS--*-003A	4	CHECK	S/A	3	C	A	NC	--	NO	3	EF-4	D-12	TRAIN 2
AFSS--*-003C	4	CHECK	S/A	3	C	A	NC	--	NO	3	EF-4	D-12	TRAIN 2

FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
POV--*-2604	26	POWER ASST'D CHECK	A/O	2	C	A	NO	FC	YES	2 2 2 1	EF-2 EF-8 EST-1 EF-5	1	B-9	
POV--*-2605	26	POWER ASST'D CHECK	A/O	2	C	A	NO	FC	YES	2 2 2 1	EF-2 EF-8 EST-1 EF-5	1	B-10	
POV--*-2606	26	POWER ASST'D CHECK	A/O	2	C	A	NO	FC	YES	2 2 2 1	EF-2 EF-8 EST-1 EF-5	1	B-11	
*-10-004	26	S/CHK	S/A	2	C	A	NO	---	NO	***	***	2	B-9	
*-10-005	26	S/CHK	S/A	2	C	A	NO	---	NO	***	***	2	B-10	
*-10-006	26	S/CHK	S/A	2	C	A	NO	---	NO	***	***	2	B-11	

SYSTEM TITLE: STEAM SYSTEM

PROGRAM TITLE: VALVE TEST PROGRAM

DWG. NO.: 5610-M-1



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	VALVE COORD	REMARKS
20-143	6	CHECK	S/A	3	C	A	NC	--	NO	3	EF-1	B-12	
20-243	6	CHECK	S/A	3	C	A	NC	--	NO	3	EF-1	C-12	
20-343	6	CHECK	S/A	3	C	A	NC	--	NO	3	EF-1	D-12	
*-20-140	4	CHECK	S/A	2	C	A	NC	--	NO	3	EF-1	B-10	
*-20-240	4	CHECK	S/A	2	C	A	NC	--	NO	3	EF-1	B-10	
*-20-340	4	CHECK	S/A	2	C	A	NC	--	NO	3	EF-1	C-11	
*-20-401	8	CHECK	S/A	3	C	A	NC	--	NO	3	EF-1	A-11	



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
MOV--*-1425	1	GATE	MO	2	B	A	NO	FAI	YES	2 2 1	EF-2 EST-3 EF-5	1	E-11	
MOV--*-1426	1	GATE	MO	2	B	A	NO	FAI	YES	2 2 1	EF-2 EST-3 EF-5	1	F-11	
MOV--*-1427	1	GATE	MO	2	B	A	NO	FAI	YES	2 2 1	EF-2 EST-3 EF-5	1	C-5	
CV--*-6275A	6	GLOBE	A/O	2	B	A	NO	FAI	YES	2 2 1	EF-2 EST-6 EF-5	2	C-10	
CV--*-6275B	6	GLOBE	A/O	2	B	A	NO	FAI	YES	2 2 1	EF-2 EST-6 EF-5	2	C-10	
CV--*-6275C	6	GLOBE	A/O	2	B	A	NO	FAI	YES	2 2 1	EF-2 EST-6 EF-5	2	C-11	
CV--*-2900	14	CHECK	A/O	2	C	A	NO	--	NO	2	EF-2	3	D-7	
CV--*-2901	14	CHECK	A/O	2	C	A	NO	--	NO	2	EF-2	3	D-8	
CV--*-2902	14	CHECK	A/O	2	C	A	NO	--	NO	2	EF-2	3	D-9	

FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
CV-*-2816	4	GLOBE	A/O	2	B	A	NC	FC	NO	3 3	EF-1 EF-7	4	B-10	
CV-*-2817	4	GLOBE	A/O	2	B	A	NC	FC	NO	3 3	EF-1 EF-7	4	B-11	
CV-*-2818	4	GLOBE	A/O	2	B	A	NC	FC	NO	3 3	EF-1 EF-7	4	C-11	
CV-*-2831	4	GLOBE	A/O	2	B	A	NC	FC	NO	3 3	EF-1 EF-7	4	B-10	
CV-*-2832	4	GLOBE	A/O	2	B	A	NC	FC	NO	3 3	EF-1 EF-7	4	B-11	
CV-*-2833	4	GLOBE	A/O	2	B	A	NC	FC	NO	3 3	EF-1 EF-7	4	C-11	
AFPD-4-009	4	CHECK	S/A	3	C	A	NC	--	NO	3	EF-1		F-4	TRAIN 2
AFPD-4-011	4	CHECK	S/A	3	C	A	NC	--	NO	3	EF-1		F-4	TRAIN 2
AFPD-4-013	4	CHECK	S/A	3	C	A	NC	--	NO	3	EF-1		F-4	TRAIN 2
AFPD-3-010	4	CHECK	S/A	3	C	A	NC	--	NO	3	EF-1		F-4	TRAIN 2
AFPD-3-012	4	CHECK	S/A	3	C	A	NC	--	NO	3	EF-1		F-4	TRAIN 2
AFPD-3-014	4	CHECK	S/A	3	C	A	NC	--	NO	3	EF-1		F-4	TRAIN 2

FLORIDA POWER & LIGHT COMPANY
TABLE II - TO CODE AND RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
*-40-336	2	CHECK	S/A	2	AC	A	NO	--	NO	1 1	EF-3 SLT-1		C-8	
*-40-340A	2	S/CHK	S/A	2	AC	A	NO	--	NO	1 1	EF-3 SLT-1		C-8	
CV-*-2803	2	GLOBE	A/O	2	B	P.	LO	FO	YES	1	EF-5		C-8	TABLE IWV-3700-1



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	VALVE COORD	REMARKS
*-50-311	24	CHECK	S/A	3	C	A	NO	--	NO	3	EF-1	F-3	
*-50-321	24	CHECK	S/A	3	C	A	NO	--	NO	3	EF-1	F-4	
*-50-331	24	CHECK	S/A	3	C	A	NO	--	NO	3	EF-1	F-5	

SYSTEM TITLE: INTAKE COOL WATER

PROGRAM TITLE: VALVE TEST PROGRAM

DWG. NO.: 5610-M-5



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
CV-2046A	2	GLOBE	A/O	3	B	A	NC	--	NO	3	EF-1	2	C-3	
CV-2046B	2	GLOBE	A/O	3	B	A	NC	--	NO	3	EF-1	2	C-5	
SV-3522A	1 1/2	GLOBE	SO	3	B	A	NC	--	NO	3	EF-1	1	D-4	
SV-3522B	1 1/2	GLOBE	SO	3	B	A	NC	--	NO	3	EF-1	1	D-5	
70-006A	2	CHECK	S/A	3	C	A	NC	---	NO	3	EF-1		B-4	
70-006B	2	CHECK	S/A	3	C	A	NC	---	NO	3	EF-1		B-4	
SV-3-2051	2	GLOBE	S/O	3	B	A	NC	FC	NO	3	EF-1	3	B-3	
SV-4-2051	2	GLOBE	S/O	3	B	A	NC	FC	NO	3	EF-1	3	B-3	

SYSTEM TITLE: DIESEL OIL

PROGRAM TITLE: VALVE TEST PROGRAM

DWG. NO.: 5610-M-7



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	VALVE COORD	REMARKS
CV--*-2810	6	GLOBE	A/O	2	B	A	NO	FC	YES	3 3 3 1	EF-1 EF-7 EST-3 EF-5	A-11	
CV--*-2812	6	GLOBE	A/O	2	B	A	NO	FC	YES	3 3 3 1	EF-1 EF-7 EST-3 EF-5	B-11	
CV--*-2814	6	GLOBE	A/O	2	B	A	NO	FC	YES	3 3 3 1	EF-1 EF-7 EST-3 EF-5	B-11	

FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	VALVE COORD	REMARKS
CV--2903	10	BUTFY	A/O	2	B	P	NO	FO	YES	1	EF-5	A-8	TABLE IWV-3700-1
CV--2904	10	BUTFY	A/O	2	B	P	NO	FO	YES	1	EF-5	B-8	TABLE IWV-3700-1
CV--2905	10	BUTFY	A/O	2	B	P	NO	FO	YES	1	EF-5	B-8	TABLE IWV-3700-1
CV--2906	10	BUTFY	A/O	2	B	A	NC	FO	YES	3 3 3 1	EF-1 EF-7 EST-3 EF-5	A-11	
CV--2907	10	BUTFY	A/O	2	B	A	NC	FO	YES	3 3 3 1	EF-1 EF-7 EST-3 EF-5	B-11	
CV--2908	10	BUTFY	A/O	2	B	A	NC	FO	YES	3 3 3 1	EF-1 EF-7 EST-3 EF-5	C-11	

SYSTEM TITLE: PRIMARY MAKEUP & CONT. COOL.

PROGRAM TITLE: VALVE TEST PROGRAM

DWG. NO.: 5610-M-10

FLORIDA POWER & LIGHT COMPANY
TABLE 1 - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	VALVE COORD.	REMARKS
*-10-567	2	CHECK	S/A	2	AC	P	NC	--	NO	1	SLT-1	D-6	
*-10-582	2	GATE	MAN	2	A	P	NC	FAI	NO	1	SLT-1	D-6	



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARK
MOV--1417	10	GATE	MO	2	B	A	NO	FAI	YES	2 2 1	EF-2 EST-4 EF-5	1	B-8	
MOV--1418	10	GATE	MO	2	B	A	NO	FAI	YES	2 2 1	EF-2 EST-4 EF-5	1	C-10	

FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
POV--*-2600	48	BUTFY	A/O	2	A	A	NC	FC	YES	2 2 2 1 1	EF-2 EF-8 EST-1 EF-5 SLT-1	7	B-2	
POV--*-2601	48	BUTFY	A/O	2	A	A	NC	FC	YES	2 2 2 1 1	EF-2 EF-8 EST-1 EF-5 SLT-1	7	B-3	
POV--*-2602	54	BUTFY	A/O	2	A	A	NC	FC	YES	2 2 2 1 1	EF-2 EF-8 EST-1 EF-5 SLT-1	7	D-2	
POV--*-2603	54	BUTFY	A/O	2	A	A	NC	FC	YES	2 2 2 1 1	EF-2 EF-8 EST-1 EF-5 SLT-1	7	D-3	

FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	VALVE COORD	REMARKS
CV-*2819	2	GLOBE	A/O	2	A	A	NC	FC	YES	3 3 3 1 1	EF-1 EF-7 EST-2 EF-5 SLT-1	D-2	
CV-*2826	2	GLOBE	A/O	2	A	A	NC	FC	YES	3 3 3 1 1	EF-1 EF-7 EST-2 EF-5 SLT-1	D-1	

FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
HV-*-1	2	DIAPH	MAN	2	A	A	LC	FAI	NO	2 1	EF-2 SLT-1	1	F-10	
HV-*-2	2	DIAPH	MAN	2	A	A	LC	FAI	NO	2 1	EF-2 SLT-1	1	F-10	
HV-*-3	2	DIAPH	MAN	2	A	A	LC	FAI	NO	2 1	EF-2 SLT-1	2	F-10	
HV-*-4	2	DIAPH	MAN	2	A	A	LC	FAI	NO	2 1	EF-2 SLT-1	2	F-10	
*-40-204	2	GATE	MAN	2	A	A	LC	FAI	NO	2 1	EF-2 SLT-1	6	D-11	
*-40-205	2	CHECK	S/A	2	AC	A	NC	---	NO	2 1	EF-2 SLT-1	7	E-13 E-10	UNIT 3 UNIT 4
HV-*-17	2	GLOBE	MAN	2	A	P	NC	FAI	NO	2 1	EF-2 SLT-1	6	D-11	

FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
*-11-003	1	CHECK	S/A	2	A/C	A	NO	--	NO	1 1	EF-3 SLT-1	3	F-13	
PAHM*-001A	1	GLOBE	MAN	2	A	A	NC	FAI	NO	2 1	EF-2 SLT-1	4	F-13	
PAHM*-001B	1	GLOBE	MAN	2	A	A	NC	FAI	NO	2 1	EF-2 SLT-1	4	F-13	
PAHM*-002A	3/4	GLOBE	MAN	2	A	A	NC	FAI	NO	2 1	EF-2 SLT-1	1	F-11	
PAHM*-002B	3/4	GLOBE	MAN	2	A	A	NC	FAI	NO	2 1	EF-2 SLT-1	2	E-12	



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	RRB NO.	VALVE COORD	REMARKS
SV-*-2911	1	GLOBE	SO	2	A	A	NO	FC	YES	3 3 3 1 1	FF-1 EF-7 EST-6 EF-5 SLT-1	5		
SV-*-2912	1	GLOBE	SO	2	A	A	NO	FC	YES	3 3 3 1 1	FF-1 EF-7 EST-6 EF-5 SLT-1	5	D-8	
SV-*-2913	1	GLOBE	SO	2	A	A	NO	FC	YES	3 3 3 1 1	FF-1 EF-7 EST-6 EF-5 SLT-1	5	C-8	



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	VALVE COORD	REMARKS
CV-*-2821	3	GLOBE	A/O	2	A	A	NO	FC	YES	3	EF-1	C-9	
										3	EF-7		
										3	EST-2		
										1	SLT-1		
										1	EF-5		
CV-*-2822	3	GLOBE	A/O	2	A	A	NO	FC	YES	3	EF-1	C-9	
										3	EF-7		
										3	EST-2		
										1	SLT-1		
										1	EF-5		



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER	ISI TESTS	RRB NO.	VALVE COORD	REMARKS
CV-*-6165	2 1/2	GATE	A/O	2	A	P	LC	PAT	YES	1 1	FF-5 SLT-1		B-4	TABLE IWV-3700-1
*-BA-201	2 1/2	CHECK	S/A	2	AC	P	NC	---	NO	1	SLT-1		B-3	TABLE IWV-3700-1



FLORIDA POWER & LIGHT COMPANY
TABLE I - TESTS TO CODE OR RELIEF REQUEST

VALVE NUMBER	SIZE	TYPE	ACTU.	CODE CL.	CODE CAT.	ACT/ PAS	NORM. POS.	FAIL- URE MODE	REM. POS. IND.	TEST PER.	ISI TESTS	RRB NO.	VALVE COORD.	REMARKS
*-2023	3/8	GLOBE	MAN	2	A	P	NC	FAI	NO	1	SLT-1		---	
*-2024	3/8	GLOBE	MAN	2	A	P	NC	FAI	NO	1	SLT-1		---	
*-2025	3/8	GLOBE	MAN	2	A	P	NC	FAI	NO	1	SLT-1		---	
*-2026	3/8	GLOBE	MAN	2	A	P	NC	FAI	NO	1	SLT-1		---	

I.G. List of Containment Isolation Valves Tested to
Appendix J, 10CFR50 Requirements: Table I.A. - Seat
Leakage Test Parameters to FPL Requirements.

SEAT LEAKAGE RATES BASED ON AIR TESTS

50 PSI = DELTA-P AT P_a

Where:

P_a = ACCIDENT PRESSURE

TABLE IA - LIST OF CONTAINMENT ISOLATION VALVES TESTED
TO APPENDIX J; 10CFR50 REQUIREMENTS

Containment Penetration Number -----	Service -----	Valve Number(s) -----	Leakage Rate CC/Min -----
1	Residual Heat Removal	MOV--750 MOV--751	10 000 10 000
5	Gas Analyzer Sample PRT	CV--516 SV--6385	1 000 1 000
6	Nitrogen Supply to PRT	*-518 *-519	2 500 2 500
7	PW Supply to PRT and RCP Standpipes	CV--519A CV--519B CV--522A CV--522B CV--522C	2 000 2 000 2 000 2 000 2 000
8	Sample PRZ Steam Space	CV--951 CV--956A	1 000 1 000
9	Sample PRZ Liquid Space	CV--953 CV--956B	1 000 1 000
10	Vent and N ₂ Supply for RCDT	PCV--1014 CV--4658B CV--4658A	2 000 2 000 2 000
11	Alt. Low Head Safety Injection	MOV--872	8 000
14	Letdown from Reactor Coolant System	CV--200A CV--200B CV--200C CV--204	3 000 3 000 3 000 3 000
15	Charging to Reactor Coolant System	HCV--121 *-333 *-312C	2 000 2 000 4 000

TABLE IA - LIST OF CONTAINMENT ISOLATION VALVES TESTED
TO APPENDIX J; 10CFR50 REQUIREMENTS (CON'T)

Containment Penetration Number	Service	Valve Number(s)	Leakage Rate CC/Min
16	Post Accident Hydrogen Control System	HV-*-1 HV-*-2 PAHM-*-002A	3 000 3 000 3 000
17	SIS Test Line	*-895V	500
19A	Containment Spray	MOV-*-880A *-890A	5 000 6 000
19B	System	MOV-*-880B *-890B	5 000 6 000
20	Reactor Coolant System Sample	SV-*-6427A(955A) SV-*-6427B(955B) SV-*-6428(956C)	1 000 1 000 1 000
23	Containment Sump Discharge	CV-*-2821 CV-*-2822	2 000 2 000
24A	RCP Seal	*-298A	2 000
24B	Injection	*-298B	2 000
24C	Supply	*-298C	2 000
25	RCP Seal Leakoff Return	MOV-*-381 MOV-*-6386	2 000 2 000
29	Instrument Air Supply	*-40-336 *-40-340A	4 000 4 000
30	Breathing Air System	CV-*-6165 *-BA-201	3 000 3 000
31	RCDT Gas Analyzer Sample	CV-*-4659A CV-*-4659B	500 500

TABLE IA - TO APPENDIX J; 10CFR50 REQUIREMENTS (CON'T)
LIST OF CONTAINMENT ISOLATION VALVES TESTED

Containment Penetration Number	Service	Valve Number(s)	Leakage Rate CC/Min
32	Containment Air Sample Return	SV-*-2912 *-11-003 PAHM-*-001B	2 000 2 000 3 000
33	Containment Air Sample	SV-*-2911 SV-*-2913	3 000 3 000
34	Post Accident Hydrogen Control System	HV-*-17 *-40-204 *-40-205	2 000 2 000 2 000
35	Containment Purge Supply	POV-*-2600 POV-*-2601	15 000 15 000
36	Containment Purge Exhaust	POV-*-2602 POV-*-2603	15 000 15 000
42	Nitrogen Supply to Accumulators	CV-*-855 *-945E	500 3 000
47	PW Supply to Wash Header	*-10-567 *-10-582	4 000 4 000
51	Post Accident Hydrogen Control System	HV-4-3 HV-4-4 PAHM-4-002B	3 000 3 000 3 000
52	RCDT Pump Discharge	CV-*-4668A CV-*-4668B	2 000 2 000
53	Post Accident Hydrogen Control System	HV-3-3 HV-3-4 PAHM-3-002B	3 000 3 000 3 000

TABLE IA - LIST OF CONTAINMENT ISOLATION VALVES TESTED
TO APPENDIX J; 10CFR50 REQUIREMENTS (CON'T)

Containment Penetration Number	Service	Valve Number(s)	Leakage Rate CC/Min
54A	Containment	MOV-*-860A	7 000
54B	Recirculation	MOV-*-861A	7 000
	Sump A and B	MOV-*-860B	7 000
		MOV-*-861B	7 000
55	Accumulator	CV-*-955C	1 000
	Sample	CV-*-955D	1 000
		CV-*-955E	1 000
		CV-*-956D	1 000
61B	PRZ Deadweight Tester	*-2023	1 000
		*-2024	1 000
63	Instrument	CV-*-2819	2 000
	Air Bleed	CV-*-2826	2 000
65B	ILLRT Test Connection	*-2025	2 000
65C	ILLRT Test Connection	*-2026	2 000

I.H. List of Reactor Coolant System Pressure Isolation Valves:

Table II Maximum Allowable Leakage Rate



TABLE IIREACTOR COOLANT SYSTEM PRESSURE ISOLATION VALVES

<u>SYSTEM</u>	<u>VALVE NO.</u>		Maximum (a) (b)
	<u>Unit 3</u>	<u>Unit 4</u>	<u>Allowable Leakage-gpm</u>
High-Head Safety Injection			
Loop A, hot leg	3-874A	4-874A	5.0
cold leg	3-875A	4-875A	5.0
cold leg	3-873A	4-873A	5.0
Loop B, hot leg	3-874B	4-874B	5.0
cold leg	3-875B	4-875B	5.0
cold leg	3-873B	4-873B	5.0
Loop C, cold leg	3-875C	4-875C	5.0
cold leg	3-873C	4-873C	5.0
Residual Heat Removal			
Loop A, cold leg	3-876A	4-876A	5.0
		4-876E	5.0
Loop B, cold leg	3-876B	4-876B	5.0
	3-876D	4-876D	5.0
Loop C, cold leg	3-876C	4-876C	5.0
	3-876E		5.0



TABLE II (CON'T)

REACTOR COOLANT SYSTEM PRESSURE ISOLATION VALVES (CON'T)

NOTES TO TABLE II:

Maximum (a) (b)

Allowable Leakage - gpm

(a)

1. Leakage rates less than or equal to 1.0 gpm are considered acceptable.
2. Leakage rates greater than 1.0 gpm but less than or equal to 5.0 gpm are considered acceptable if the latest measured rate has not exceeded the previous test by an amount that reduces the margin between measured leakage rate and the maximum permissible rate of 5.0 gpm by 50% or greater.
3. Leakage rates greater than 1.0 gpm but less than or equal to 5.0 gpm are considered unacceptable if the latest measured rate exceeded the rate determined by the previous test by an amount that reduces the margin between measured leak rate and the maximum permissible rate of 5.0 gpm by 50% or greater.
4. Leakage rates greater than 5.0 gpm are considered unacceptable.

(b)

Minimum differential test pressure shall be not less than 150 psid.

I.I. LIST OF VALVES EXEMPT FOR TESTING (IWV-1200)

- (a) Valves used only for operator convenience including:
 - o Vent Valves
 - o Drain Valves
 - o Instrument Valves
 - o Test Valves
 - o Valves used only for maintenance
 - o Valves used for system control (such as pressure regulating valves)
- (b) External control and protection systems responsible for sensing plant conditions and providing signals for valve operation.
- (c) Non-nuclear Safety Valves

I.J. RELIEF REQUEST BASIS - ATTACHMENT A-1 CODE REQUIREMENTS
DETERMINED TO BE IMPRACTICAL....PARAGRAPH 50.55a (g) 5 (iii)
AND RELIEF REQUESTED.

<u>SYSTEM</u>	<u>PAGE NO.</u>
Reactor Coolant System	69
Chemical Volume and Control System	75
Residual Heat Removal System	83
(Auxiliary Coolant System)	
Component Cooling System	85
(Auxiliary Coolant System)	
Safety Injection System	88
Sampling System	101
Steam System	102
Condensate and Feedwater System	103
Instrument Air System	105
(Lube Oil, Service, and Instrument Air)	
Diesel Oil System	106
Primary Makeup and Containment Cooling	108
Water System	
Containment Ventilation System	109
Generic Relief Request	114



RELIEF REQUEST BASIS

SYSTEM: Reactor Coolant

1. Valve: CV-*-519A
Category: A
Class: 2

Function: Provides a primary water flow path to either the pressurizer relief tank or the Reactor Coolant pumps' standpipes.

Test Requirement: IWV-3410

Basis for Relief: Failure of this valve in the non closed position, by testing during plant operation, would cause a loss of containment integrity requiring Reactor Shutdown per Technical Specification (3.3).

Alternate Testing: This valve will be tested during cold shutdowns.

2. Valve: *-518 and *-519
Category: AC
Class: 2

Function: Prevents reverse flow from the Pressurizer Relief Tank to the Nitrogen system.

Test Requirement: IWV-3520

Basis for Relief: Failure of this valve in the non closed position, by testing during plant operation, would cause a loss of containment integrity requiring Reactor shutdown per Technical Specification (3.3).

Alternate Testing: This valve will be tested during cold shutdowns.



RELIEF REQUEST BASIS

SYSTEM: Reactor Coolant

3. Valve: SV-*6385 & CV-*-516
Category: A
Class: 2

Function: Provides flow path from pressurizer relief tank to gas analyzer.

Test Requirement: IWV-3300

Basis for Relief: These self contained, completely enclosed solenoid valves have no external valve position indication. Therefore direct observation of valve position indication is impractical.

Alternate Testing: These valves will be checked during local leak rate tests to verify that remote valve indications accurately reflect valve operation.

RELIEF REQUEST BASIS

SYSTEM: Reactor Coolant

4. Valve: SV-*-6319A and SV-*-6319B
Category: B
Class: 2

Function: Provides for redundant flow paths from the pressurizer to the Reactor Coolant Vent System.

Test Requirement: IWV-3410

Basis for Relief: These valves are required to be positioned closed and key locked to prevent inadvertent operation of these valves during unit operation.

Failure of either of these valves in the non-closed position coupled with the failure of either SV-*-6320A or SV-*-6320B, while testing during plant operation, could result in Loss of Reactor Coolant in excess of Plant Technical Specification 3.1.3. This would result in unit shutdown.

Alternate Testing: These valves will be tested during cold shutdowns when the Reactor Coolant System is depressurized and vented.

Test Requirements: IWV-3300

Basis for Relief: These self contained, completely enclosed solenoid valves have no local valve position indication. Therefore, observation of valve position indication is impractical.

Alternate Testing: During refueling shutdowns, valve disk position will be determined by exercising the valve while observing changes in pressure, temperature, flow to the containment atmosphere, flow to the containment sump, or level increase in the pressurizer relief tank.



RELIEF REQUEST BASIS

SYSTEM: Reactor Coolant

5. Valve: SV-*-6318A, SV-*-6318B, SV-*-6320A,
and SV-*-6320B

Category: B

Class: 2

Function: Provides for redundant flow paths from the reactor vessel closure head to the Reactor Coolant Vent System.

Test Requirement: IWV-3410

Basis for Relief: These valves are required to be positioned closed and key locked to prevent inadvertent operation of these valves during normal unit operation.

Failure of either SV-*-6318A or SV-*-6318B in the non-closed position coupled with the failure of either SV-*-6320A or SV-*-6320B, while testing during plant operation could result in Loss of Reactor Coolant in excess of Technical Specification 3.1.3. This would result in a unit shutdown.

Alternate Testing: These valves will be tested during cold shutdowns when the Reactor Coolant System is depressurized and vented.

Test Requirement: IWV-3300

Basis for Relief: These self contained, completely enclosed solenoid valves have no local valve position indication. Therefore, observation of valve position indication is impractical.

Alternate Testing: During refueling shutdowns, valve disk position will be determined by exercising the valve while observing changes in pressure, temperature, flow to the containment atmosphere, flow to the containment sump, or level increase in the pressurizer relief tank.

RELIEF REQUEST BASIS

SYSTEM: Reactor Coolant

6. Valve: PVC-*-455C and PCV-*-456
Category: B
Class: 1

Function: Power Operated Relief Valve (PORV).
Provides for low temperature overpressure mitigation during cold shutdown operation. No credit is taken for the PORVs during power operation.

Test Requirement: IWV-3410

Basis for Relief: Failure of either of these valves in the non-closed position coupled with the failure of the associated isolation (Block) valve, by testing during plant operation, would result in a plant shutdown per Plant Technical Specification 3.1.1.

Alternate Testing: These valves will be tested during cold shutdowns when the Reactor Coolant System is depressurized and vented.
7. Valve: MOV-*-535 and MOV-*-536
Category: B
Class: 1

Function: Isolation (Block) Valve for Power Operated Relief Valve (PORV)

Test Requirement: IWV-3410

Basis for Relief: Failure of either of these valves in the non-closed position, concurrent with the failure of the associated PORV in the non-closed position by testing during plant operation, would result in a plant shutdown per Plant Technical Specification 3.1.1.

Alternate Testing: These valves will be tested during cold shutdowns when the Reactor Coolant System is depressurized and vented.



RELIEF REQUEST BASIS

SYSTEM: Reactor Coolant

8. Valve: CV-*-516 and SV-*-6385
Category: A
Class: 2

Function: Provides flow path from pressurizer relief tank to the gas analyzer.

Test
Requirement: IWV-3410

Basis for
Relief: Failure of this valve in the non-closed position, by testing during plant operation, would cause a loss of containment integrity requiring Reactor shutdown per Plant Technical Specification (3.3).

Alternate
Testing: This valve will be tested during cold shutdown.



RELIEF REQUEST BASIS

SYSTEM: Chemical and Volume Control

1. Valve: CV-*-200A, CV-*-200B, CV-*-200C
Category: A
Class: 1

Function: Provides parallel letdown flow paths through the letdown orifices to control Chemical and Volume Control System letdown flow rate.

Test Requirement: IWV-3410

Basis for Relief: Failure of any one of these valves in the non closed position, by testing during plant operation, would require a reactor shutdown per Technical Specification (3.3).

Alternate Testing: These valves will be tested during cold shutdowns.

2. Valve: CV-*-204
Category: A
Class: 2

Function: Provides the letdown flowpath during plant operation.

Test Requirement: IWV-3410

Basis for Relief: Testing this valve during plant operation would cause an unbalanced flow condition in the Chemical and Volume Control System. This would interrupt flow to the Reactor Coolant Pump Controlled Leakage Seal System. This could result in damage to the Reactor Coolant pumps; thereby, placing the plant in an unsafe mode of operation. The loss of the letdown flow path will result in the loss of the regenerative heat exchanger function. This could subject the Reactor Coolant System piping to thermal shock due to cooler charging return flow from the Chemical and Volume Control System.

Alternate Testing: This valve will be tested during cold shutdowns.



RELIEF REQUEST BASIS

SYSTEM: Chemical and Volume Control

3. Valve: MOV--381 and MOV--6386
Category: A
Class: 2

Function: Provides the Reactor Coolant Pump seal injection return flow path to the Chemical and Volume Control System Volume Control Tank. In addition, provides the excess letdown flow path from the Reactor Coolant System to the Chemical and Volume Control System Control Tank.

Test Requirement: IWV-3410

Basis for Relief: Testing this valve during plant operation would interrupt flow to the Reactor Coolant Pump Controlled Leakage Seal System, which could result in damage to the Reactor Coolant pumps; thereby, placing the plant in an unsafe mode of operation

Alternate Testing: This valve will be tested during cold shutdowns.



RELIEF REQUEST BASIS

SYSTEM: Chemical and Volume Control

5. Valve: HCV--121
Category: A
Class: 2

Function: Provides the charging flow path to the Reactor Coolant System. This valve is used to proportion flow between the seal injection supply to the Reactor Coolant pump Controlled Leakage Seal System and the charging flow to the Reactor Coolant System.

Test Requirement: IWV-3410

Basis for Relief: Testing this valve during plant operation would cause an unbalanced flow condition in the Chemical and Volume Control System. This could interrupt flow to the Reactor Coolant Pump Controlled Leakage Seal System, which could result in damage to the Reactor Coolant pumps; thereby, placing the plant in an unsafe mode of operation.

Alternate Testing: This valve will be tested during cold shutdowns.

6. Valve: CV--310A and CV--310B
Category: B
Class: 1

Function: Provides redundant charging flow paths to the Reactor Coolant System.

Test Requirement: IWV-3410

Basis for Relief: Testing these valves during normal operation could result in loss of pressurizer level control or a thermal shock to the Chemical and Volume Control System injection nozzles.

Alternate Testing: These valves will be tested during cold shutdowns.



RELIEF REQUEST BASIS

SYSTEM: Chemical and Volume Control

7. Valve: LCV-*-115C
Category: B
Class: 2

Function: Provides the flow path from the Volume Control Tank to the charging pump suction header.

Test Requirement: IWV-3410

Basis for Relief: Testing this valve during plant operation would cause an unbalanced flow condition in the Chemical and Volume Control System. This would interrupt flow to the Reactor Coolant Pump Controlled Leakage Seal System, which could result in damage to the Reactor pump; thereby, placing the plant in an unsafe mode of operation. Further, the failure of this valve in the closed position, by testing during plant operation, would isolate normal charging pump make-up.

Alternate Testing: This valve will be tested during cold shutdowns.



RELIEF REQUEST BASIS

SYSTEM: Chemical and Volume Control

8. Valve: LCV--115B
Category: B
Class: 2

Function: Provides a flow path from the Refueling Water
Storage Tank to the charging pump suction header.

Test
Requirement: IWV-3410

Basis for
Relief: This valve is interlocked with LCV--115C.
Testing this valve during plant operation
would result in closure of LCV--115C. This
would result in loss of charging pump flow
from the Volume Control Tank or overboration
of the Reactor Coolant System.

Alternate
Testing: This valve will be tested during cold
shutdowns.

9. DELETED

RELIEF REQUEST BASIS

SYSTEM: Chemical and Volume Control

10. Valve: *-312A and *-312B
Category: C
Class: 1

Function: Prevents reverse flow from the Reactor Coolant System to the Chemical and Volume Control System charging flow path.

Test Requirement: IWV-3520

Basis for Relief: Testing these valves during plant operation would cause an unbalanced flow condition in the Chemical and Volume Control System. This could interrupt flow to the Reactor Coolant Pump Controlled Leakage Seal System, which could result in damage to the Reactor Coolant pumps; thereby, placing the plant in an unsafe mode of operation.

Alternate Testing: These valves will be tested during cold shutdowns.

11. Valve: *-351
Category: C
Class: 2

Function: Prevents reverse flow from the charging pump suction header to the Boron Addition System.

Test Requirement: IWV-3520

Basis for Relief: Testing this valve during plant operation could result in the addition of excess boron to the Reactor Coolant System resulting in a reactor shutdown.

Alternate Testing: This valve will be tested during cold shutdowns.



RELIEF REQUEST BASIS

SYSTEM: Chemical and Volume Control

12. Valve: *-357
Category: C
Class: 2

Function: Prevents reverse flow from the charging pump suction header to the Refueling Water Storage Tank system.

Test Requirement: IWV-3520

Basis for Relief: Testing this valve during plant operation would result in the addition of Boron to the Reactor Coolant System. This could place the plant in an unsafe mode of operation.

Alternate Testing: This valve will be tested during cold shutdowns.

13. Valve: *-298A, *-298B, and *-298C
Category: AC
Class: 1

Function: Prevents reverse flow from the Reactor Coolant Pump Seal Injection System to the Chemical and Volume Control System.

Test Requirement: IWV-3520

Basis for Relief: Testing these valves during plant operation would interrupt flow to the Reactor Coolant Pump Controlled Leakage Seal System, which could result in damage to the Reactor Coolant pumps; thereby, placing the plant in an unsafe mode of operation.

Further, the testing of these valves during cold shutdowns is impractical since it would require draining the Reactor Coolant Pump Seal Injection System to check the position of these valves. This would increase the possibility of causing damage to the Reactor Coolant pump seals due to the added frequency of venting the system prior to plant operation.

Alternate Testing: These valves will be tested during refueling shutdowns.

RELIEF REQUEST BASIS

SYSTEM: Chemical and Volume Control

14. Valve: *-312C
Category: AC
Class: 1

Function: Prevents reverse flow from the Reactor Coolant System charging flow path to the Chemical and Volume Control System.

Test Requirement: IWV-3520

Basis for Relief: Testing this valve during plant operation would cause an unbalanced flow condition in the Chemical and Volume Control System. This could result in damage to the Reactor Coolant pumps; thereby, placing the plant in an unsafe mode of operation.

Testing this valve during cold shutdown is impractical because it would require draining the charging system to check the position of the valve. This would cause a loss of the charging flow path that is routinely used to meet the Tech Spec requirements to have a Boron injection flow path to the Reactor Coolant System during cold shutdown.

Alternate Testing: This valve will be tested during refueling shutdowns.

RELIEF REQUEST BASIS

SYSTEM: Auxiliary Coolant, Residual Heat Removal

1. Valve: MOV-*-744A and MOV-*-744B
Category: B
Class: 2

Function: Provides a flow path from the Low Pressure Safety Injection System to the Reactor Coolant System.

Test Requirement: IWV-3410

Basis for Relief: The testing of these valves during plant operation, coupled with the failure of Valves *-876A, *-876B or *-876C, could subject the Low Pressure Safety Injection System to pressures in excess of its design pressure.

Alternate Testing: These check valves will be tested during cold shutdown.

2. Valve: *-753A and *-753B
Category: C
Class: 2

Function: Prevents reverse flow from the Low Pressure Safety Injection (Residual Heat Removal) System supply header to a non-operating Low Pressure Safety Injection (Residual Heat Removal) pump.

Test Requirement: IWV-3520

Basis for Relief: These valves cannot be tested during plant operation because the Low Pressure Safety Injection (Residual Heat Removal) pumps do not develop sufficient discharge head to establish a flow path to the Reactor Coolant System.

Alternate Testing: These check valves will be exercised during cold shutdown.

Additional Testing: These check valves will be exercised quarterly during the performance of associated pump tests with flow through the pump minimum flow recirculation line.



RELIEF REQUEST BASIS

SYSTEM: Auxiliary Coolant, Residual Heat Removal

3. Valve: MOV-*-751 and MOV-*-750
Category: A
Class: 1

Function: Provides a flow path from the Reactor Coolant System to the Residual Heat Removal System for removal of decay heat from the reactor core.

Test Requirement: IWV-3420

Basis for Relief: Seat leak testing of either of these valves when fuel is in the reactor pressure vessel would cause a loss of system function. This would result in violation of the current plant Technical Specifications 3.4.1

Alternate Testing: These valves will be seat leak tested during refueling outages when all of the fuel is removed from the Reactor Pressure Vessel.

Test Requirement: IWV-3410

Basis for Relief: These valves are provided with interlocks to prevent opening these valves when:
(1) RCS pressure is greater than 465 psig
(2) Either MOV-*-862A, MOV-*-862B, MOV-*-863A or MOV-*-863B of the associated unit is open.

Alternate Testing: These valves will be tested during cold shutdowns.

RELIEF REQUEST BASIS

SYSTEM: Auxiliary Coolant, Component Cooling Water

1. DELETED

2. DELETED

RELIEF REQUEST BASIS

SYSTEM: Auxiliary Coolant, Component Cooling Water

3. Valve: MOV--716A
Category: B
Class: 3

Function: Provides the component cooling water supply flow path for the heat exchangers located in the Reactor Coolant pumps (motors and thermal barriers).

Test Requirement: IWV-3410

Basis for Relief: Testing this valve during plant operation would cause interruption of cooling water to the Reactor Coolant pumps' heat exchangers. This action could result in damage to the Reactor Coolant pumps; thereby, placing the plant in an unsafe mode of operation.

Alternate Testing: This valve will be tested during cold shutdowns.

4. Valve: MOV--716B
Category: B
Class: 2

Function: Provides the component cooling water supply flow path for the heat exchangers located in the Reactor Coolant pumps (motors and thermal barriers).

Test Requirement: IWV-3410

Basis for Relief: Testing this valve during plant operation would cause interruption of cooling water to the Reactor Coolant pumps' heat exchangers. This action could result in damage to the Reactor Coolant pumps; thereby, placing the plant in an unsafe mode of operation.

Alternate Testing: This valve will be tested during cold shutdowns.

RELIEF REQUEST BASIS

SYSTEM: Auxiliary Coolant, Component Cooling Water

5. Valve: MOV-*-730
Category: B
Class: 2

Function: Provides the component cooling water return flow path for the Reactor Coolant pumps' motor heat exchangers.

Test Requirement: IWV-3410

Basis for Relief: Testing this valve during plant operation would cause interruption of cooling water to the Reactor Coolant pumps' motor heat exchangers. This action could result in damage to the Reactor Coolant pumps; thereby, placing the plant in an unsafe mode of operation.

Alternate Testing: This valve will be tested during cold shutdowns.

6. Valve: FCV-*-626
Category: B
Class: 2

Function: Provides the component cooling return flow path for the Reactor Coolant Pumps' Controlled Leakage Seal System thermal barriers.

Test Requirement: IWV-3410

Basis for Relief: Testing this valve during plant operation would cause interruption of cooling water to the Reactor Coolant pumps' Controlled Leakage Seal System heat exchangers. This action could result in damage to the Reactor Coolant pumps; thereby, placing the plant in an unsafe mode of operation.

Alternate Testing: This valve will be tested during cold shutdowns.



RELIEF REQUEST BASIS

SYSTEM: Safety Injection

1. Valve: MOV-*-860A and MOV-*-860B
Category: A
Class: 2

Function: Provides the flow path from train "A" and train "B" containment recirculation sumps to the suction of the Residual Heat Removal pumps "A" and "B" respectively, during the recirculation phase following a LOCA.

Test Requirement: IWV-3410

Basis for Relief: Failure of these valves, by testing during normal operation, would cause a loss of containment integrity, and require a plant shutdown per Technical Specification (3.3)

Alternate Testing: These valves will be tested during cold shutdowns.

2. Valve: MOV-*-861A and MOV-*-861B
Category: A
Class: 2

Function: Provides the flow path from train "A" and train "B" containment recirculation sumps to the suction of the Residual Heat Removal pumps "A" and "B" respectively, during the recirculation phase following a LOCA.

Test Requirement: IWV-3410

Basis for Relief: Failure of these valves by testing during normal operation, would cause a loss of containment integrity, and would require a plant shutdown per Technical Specification (3.3).

Alternate Testing: These valves will be tested during cold shutdowns.



RELIEF REQUEST BASIS

SYSTEM: Safety Injection

3. Valve: MOV--863A and MOV--863B
Category: B
Class: 2

Function: Provides the flow path to the alternate header to the Reactor Coolant System from the Low Pressure Safety Injection System. Also, provides the flow path to the High Pressure Safety Injection System during the recirculation mode.

Test Requirement: IWV-3410

Basis for Relief: The failure of either of these valves in the open position, by testing during plant operation, would result in diverting flow from the reactor core in the event of a safety injection signal.

Alternate Testing: These valves will be tested during cold shutdowns.

4. Valve: MOV--872
Category: A
Class: 2

Function: Provides the alternate flow path from the Low Pressure Safety Injection System to the Reactor Coolant System.

Test Requirement: IWV-3410

Basis for Relief: The failure of this valve in the non-closed position, by testing during plant operation, renders high pressure long term Safety Injection System recirculation unavailable.

Alternate Testing: This valve will be tested during cold shutdown.



RELIEF REQUEST BASIS

SYSTEM: Safety Injection

5. Valve: *-945E
Category: A
Class: 2

Function: Provides the Nitrogen supply to maintain pressure in the Safety Injection Accumulators.

Test Requirement: IWV-3410

Basis for Relief: The failure of this valve in the non-closed position, by testing during plant operation, would require a plant shutdown per Technical Specification (3.3)

Alternate Testing: This valve will be tested during cold shutdowns and seat leak tested at refueling shutdowns.

6. Valve: MOV-*-866A and MOV-*-866B
Category: B
Class: 1

Function: Provides High Pressure Safety Injection redundant flow paths to the Reactor Coolant System Hot Legs.

Test Requirement: IWV-3410

Basis for Relief: These valves are required by Tech Specs to be closed and locked-out at the breaker during plant operation. The testing of these valves during plant operation, coupled with the failure of Valve *-874A or *-874B, could subject the Safety Injection System to pressures in excess of its design pressure.

Alternate Testing: These valves will be tested during cold shutdowns.



RELIEF REQUEST BASIS

SYSTEM: Safety Injection

7. Valve: *-876A, *-876C and *-876B
Category: C
Class: 1
- Function: Prevents reverse flow from the Accumulator Safety Injection System and the High Pressure Safety Injection System to the Low Pressure Safety Injection System.
- Test Requirement: IWV-3520
- Basis for Relief: These valves cannot be tested during operation because the Low Pressure Safety Injection pumps do not develop sufficient discharge head to establish a flow path to the Reactor Coolant System.
- Alternate Testing: These valves will be tested during cold shutdowns.
8. Valve: *-876D and *-876E
Category: C
Class: 1
- Function: Prevents reverse flow from the Accumulator Safety Injection System and the High Pressure Safety Injection System to the Low Pressure Safety Injection System alternate flow path.
- Test Requirement: IWV-3520
- Basis for Relief: These valves cannot be tested during plant operation because the Low Pressure Safety Injection pumps do not develop sufficient discharge head to establish a flow path to the Reactor Coolant System.
- Alternate Testing: These valves will be tested during cold shutdowns.

RELIEF REQUEST BASIS

SYSTEM: Safety Injection

9. Valve: *-875A, *-875B, *-875C
Category: C
Class: 1

Function: Prevents reverse flow from the Reactor Coolant System to the Accumulator Safety Injection system, Low Pressure Safety Injection System, and High Pressure Safety Injection System.

Test Requirement: IWV-3520

Basis for Relief: These valves cannot be tested during plant operation because the High Pressure Safety Injection or Low Pressure Safety Injection pumps do not develop sufficient discharge head to establish a flow path to the Reactor Coolant System.

Alternate Testing: These valves will be tested during cold shutdowns.

10. Valve: MOV-878A and MOV-878B
Category: B
Class: 2

Function: Provides a flow path to either Unit 3 or 4 with any combination of two of the four High Pressure Safety Injection pumps to the Reactor Coolant System of either unit.

Test Requirement: IWV-3410

Basis for Relief: Four (4) High Pressure Safety Injection pumps are required to be operable for either dual unit operation or single unit operation. Failure of either valve in the non open position while testing during either dual unit operation or single unit operation would isolate two of the required High Pressure Safety Injection pumps from the operating unit thereby jeopardizing the ability of the High Pressure Safety Injection System to support a LOCA on the accident unit.

Alternate Testing: These valves will be tested during refueling outages when Plant conditions permit.



RELIEF REQUEST BASIS

SYSTEM: Safety Injection

11. Valve: MOV-*-864A and MOV-*-864B
Category: B
Class: 2

Function: Provides the flow path from the Refueling Water Storage Tank to the associated High Pressure Safety Injection pumps, Low Pressure Safety Injection pumps, and Containment Spray pumps.

Test
Requirement: IWV-3410

Basis for
Relief: These valves are required by Plant Technical Specifications to be open and the breakers locked-out during plant operation.

The failure of either of these valves in the non-open position, by testing during plant operation, would result in a total loss of system function for the associated Containment Spray System and Low Pressure Safety Injection System. Further, this could jeopardize the ability of the associated High Pressure Safety Injection pumps to support a LOCA.

The failure of either of these valves in the non-open position, by testing during cold shutdown of the associated unit, could jeopardize the ability of the associated High Pressure Safety Injection pumps to support a LOCA on the operating unit.

Alternate
Testing: These valves will be tested during refueling shutdown of the associated unit.

RELIEF REQUEST BASIS

SYSTEM: Safety Injection

12. Valve: MOV-*-862A and MOV-*-862B
Category: B
Class: 2

Function: Provides a flow path from the Refueling Water Storage Tank to the Low Pressure Safety Injection pumps.

Test
Requirement: IWV-3410

Basis for
Relief: These valves are required by Plant Technical Specifications to be open and the breakers locked-open during plant operation.

The failure of either of these valves in the non-open position, by testing during plant operation, would result in a total loss of the Low Pressure Safety Injection System function.

Alternate
Testing: These valves will be tested during cold shutdowns.

RELIEF REQUEST BASIS

SYSTEM: Safety Injection

13. Valve: SV--2905 and SV--2906
SV--2907 and SV--2908
SV--2909 and SV--2910

Category: B
Class: 2

Function: Provides for redundant flow paths from the operating Containment Spray Headers to the associated Emergency Containment Filter.

Test Requirement: IWV-3410 and IWV-3300

Basis for Relief: These redundant, self-contained, completely enclosed solenoid valves have no external valve position indicators. Therefore, valve position verification is impractical.

Functional testing of these redundant valves by placing the containment spray system in operation would result in dousing the filters and other components located inside the containment building. Testing these valves by connecting an external water source to the containment spray header would also result in dousing the filters and other components located inside the containment building.

Alternate Testing: These redundant valves will be tested by connecting an external air supply with sufficient air pressure to verify the main disk moves to the open position.

These valves will be tested during refueling shutdowns.



RELIEF REQUEST BASIS

SYSTEM: Safety Injection

14. Valve: *-2918 and *-2921
 *-2919 and *-2922
 *-2920 and *-2923
 *-890A and *-890B

Category: C
Class: 2

Function: Prevents reverse flow from an operating Containment
Spray header to the other Containment Spray Header.

Test Requirement: IWV-3520

Basis for Relief: Functional testing of these redundant valves
by placing the containment spray system in
operation would result in dousing the
components located inside the containment
building. Testing these redundant valves
by connecting an external water source to the
containment spray system would also result
in dousing the components located inside
the containment building.

Alternate Testing: Each of these redundant check valves will be
disassembled, to inspect the valves' internals
and to physically verify the valves' freedom
of motion to the open and closed position,
at least once each 120 month Inservice
Inspection Interval. This inspection will
be performed during refueling shutdowns.
Any problems found during this inspection would
be cause for inspecting the other valves. This
provides for an inspection of one of these
redundant check valves during refueling
shutdowns over the 120 month Inservice
Inspection Interval.



RELIEF REQUEST BASIS

SYSTEM: Safety Injection

15. Valve: *-874A and *-874B
Category: C
Class: 1

Function: Prevents reverse flow from the Reactor Coolant System
Hot Legs to the High Pressure Safety Inspection System.

Test Requirement: IWV-3520

Basis for Relief: These valves cannot be tested during plant operation because the High Pressure Safety Inspection pumps do not develop sufficient discharge head to establish a flow path to the Reactor Coolant System.

Further, testing of these valves during cold shutdowns is impractical since it could subject the Reactor Coolant System to conditions exceeding Pressure-Temperature limits.

Alternate Testing: These valves will be tested during refueling shutdowns.



RELIEF REQUEST BASIS

SYSTEM: Safety Injection

16. Valve: *-873A and *-873B, and *-873C
Category: C
Class: 1

Function: Prevents reverse flow from the Accumulator Safety Injection System and the Low Pressure Safety Injection System to the High Pressure Safety Injection System.

Test Requirement: IWV-3520

Basis for Relief: These valves cannot be tested during plant operation because the High Pressure Safety Injection pumps do not develop sufficient discharge head to establish a flow path to the Reactor Coolant System.

Further, testing of these valves during cold shutdowns is impractical since it could subject the Reactor Coolant System to conditions exceeding Pressure-Temperature limits.

Alternate Testing: These valves will be tested during refueling shutdowns.

17. Valve: *-875D, *-875E, and *-875F
Category: C
Class: 1

Function: Prevents reverse flow from the High Pressure Safety Injection System and the Low Pressure Safety Injection System to the Accumulator Safety Injection System.

Test Requirement: IWV-3520

Basis for Relief: These valves cannot be tested during plant operation because the accumulator pressure is insufficient to provide the differential pressure required to establish a flow path to the Reactor Coolant System.

Further, testing of these valves during cold shutdowns is impractical since it could subject the Reactor Coolant System to conditions exceeding Pressure-Temperature limits.

Alternate Testing: These valves will be tested during refueling shutdowns.

RELIEF REQUEST BASIS

SYSTEM: Safety Injection

19. Valve: 879A, 879B, 879C, and 879D
Category: C
Class: 2

Function: Prevents reverse flow from the High Pressure Safety System Supply Header to a non-operating High Pressure Safety Injection Pump.

Test Requirement: I WV-3520

Basis for Relief: These valves cannot be tested during plant operation because the High Pressure Safety Injection System Pumps do not develop sufficient discharge head to establish a flow path to the Reactor Coolant System.

Further, testing of these valves during cold shutdowns is impractical since it could subject the Reactor Coolant System to conditions exceeding pressure-temperature limits.

Alternate Testing: These check valves will be exercised during refueling shutdown.

Additional Testing: These check valves will be exercised quarterly during the performance of associated pump tests with flow through the High Pressure Safety Injection System test line.

RELIEF REQUEST BASIS

SYSTEM: Safety Injection

20. Valve: CV-*-856A and CV-*-856B
 Category: B
 Class: 2

Function: Isolation Valve for High Pressure Safety
 Injection System Test Line Return to the RWST.

Test
 Requirement: IWV-3410

Basis for
 Relief: Failure of either of these valves in the non-open
 position, by testing during either dual unit
 operation or single unit operation, would result
 in the isolation of the minimum flow recirculation
 from at least two High Pressure Safety Injection
 pumps and two containment Spray pumps. Isolation
 of the minimum flow recirculation line concurrent
 with a Safety Injectionn Signal and high pressure
 in the reactor coolant system could result in
 damage to the associated High Pressure Safety
 Injection System pumps.

Alternate
 Testing: These valves will be tested during refueling
 shutdowns of the associated unit when the
 High Pressure Safety Injection System pumps
 are aligned to the operating unit's RWST.



RELIEF REQUEST BASIS

SYSTEM: Sampling

1. DELETED

2. Valve: SV-*-6427A, SV-*-6427B, and SV-*-6428
Category: A
Class: 2

Function: Provides the flow path from the Reactor Coolant System to the Sample System.

Test Requirement: IWV-3300

Basis for Relief: These self contained, completely enclosed solenoid valves have no external valve position indicators. Therefore, observation of valve position is impractical.

Alternate Testing: These valves will be checked during local leak rate tests to verify that remote valve indications accurately reflect valve operation.



RELIEF REQUEST BASIS

SYSTEM: Main Steam

1. Valve: POV-*-2604, POV-*-2605, and POV-*-2606
Category: C
Class: 2

Function: Provides the flow path from the associated steam generator to the main steam line header.

Test Requirement: IWV-3520

Basis for Relief: Testing any one of these valves during plant operation would isolate the associated steam generator from the main steam line header which would result in a reactor trip.

Alternate Testing: These valves will be tested during cold shutdowns.

2. Valve: *-004, *-005, and *-006
Category: C
Class: 2

Function: Provides the flow path from the associated steam generator to the main steam line header.

Test Requirement: IWV-3520

Basis for Relief: The design, fabrication, arrangement, and installation of this valve does not provide for testing this valve.

Alternate Testing: Each of these check valves will be disassembled to inspect the valve internals and to physically verify freedom of motion in the open and closed position at least once each 120 month Inservice Inspection Interval. This inspection will be performed during refueling shutdowns. Any problems found during this inspection would be cause for inspecting the other check valves.



RELIEF REQUEST BASIS

SYSTEM: Condensate and Feedwater

1. Valve: MOV--1425, MOV--1426, and MOV--1427
Category: B
Class: 2

Function: Provides the flow path from the associated steam generator secondary side to the Sampling System.

Test Requirement: IWV-3410

Basis for Relief: Failure of these valves in a non-open position during normal operation would require a plant shutdown as per Technical Specification (Table 4.1-2)

Alternate Testing: These valves will be tested during cold shutdowns.

2. Valve: CV--6275A, CV--6275B, and CV--6275C
Category: B
Class: 2

Function: Provides the flow path from the associated steam generator secondary side to the Blowdown system.

Test Requirement: IWV-3410

Basis for Relief: These valves must remain open in order to meet steam generator manufacturer warranty requirements and to minimize steam generator degradation.

Alternate Testing: These valves will be tested during cold shutdowns.

RELIEF REQUEST BASIS

SYSTEM: Condensate and Feedwater

3. Valve: CV--2900, CV--2901, and CV--2902
Category: C
Class: 2

Function: Prevents reverse flow from the associated steam generator to the Feedwater System.

Test Requirement: IWV-3520

Basis for Relief: Testing any one of these valves, during plant operation would cause an interruption of feedwater flow to the associated steam generator; thereby, placing the plant in an unsafe mode of operation.

Alternate Testing: These valves will be tested during cold shutdowns.

4. Valve: CV--2816, CV--2817, CV--2818
CV--2831, CV--2832, and CV--2833
Category: B
Class: 2

Function: Provides a flow path from the Auxiliary Feedwater Pump Discharge Header to the Steam Generator Nos. *A,*B, or *C.

Test Requirement: IWV-3410

Basis for Relief: These valves are flow controlled modulating valves; therefore, valve stroke-time is not essential to fulfill their safety related function.

Alternate Testing: Exercising these valves quarterly will demonstrate that the moving parts of the valve function satisfactorily.



RELIEF REQUEST BASIS

SYSTEM: Instrument Air (Lube Oil, Service and Instrument Air)

1. Valve: *-40-336 and *-40-340A
Category: AC
Class: 2

Function: Prevents reverse flow from the Instrument Air System, inside containment, to the Instrument Air system, located outside containment.

Test Requirement: I WV-3520

Basis for Relief: Testing this valve during plant operation would interrupt the instrument air supply to the components located inside containment that require instrument air for proper operation; thereby, placing the plant in an unsafe mode of operation.

Testing this valve during cold shutdown would interrupt the instrument air supply to the components located inside containment that require instrument air to maintain the plant in a safe shutdown condition; thereby, placing the plant in an unsafe mode of operation.

Alternate Testing: This valve will be tested during refueling shutdowns.



RELIEF REQUEST BASIS

SYSTEM: Diesel Oil

1. Valve: SV-3522A and SV-3522B
Category: B
Class: 3

Function: Provides the flow path from the Emergency Diesel - generator Diesel Oil Day Tank to the Skid-mounted Diesel Oil Tank.

Test Requirement: IWV-3410

Basis for Relief: These self-contained, completely enclosed solenoid valves have no external valve position indicators. Therefore, stroke-time measurements and valve position verification is impractical.

Alternate Testing: An increase in level in the Skid-mounted Diesel Oil Tank while exercising these valves quarterly will demonstrate that the moving parts of the valve function satisfactorily.

2. Valve: CV-2046A and CV-2046B
Category: B
Class: 3

Function: Provides the flow path from the Emergency Diesel-generator Diesel Oil Transfer Pump Discharge Header to the Diesel Oil Day Tanks.

Test Requirement: IWV-3410

Basis for Relief: These Level Control Valves are actuated from Level Switches located on the associated Day Tank.

Alternate Testing: Exercising these valves quarterly will demonstrate that the moving parts of the valve function satisfactorily.

The Day Tanks have sufficient capacity to allow for maintenance on the valve, if the valve should fail closed.

RELIEF REQUEST BASIS

SYSTEM: Diesel Oil

3. Valve: SV-3-2051 and SV-4-2052
Category: B
Class: 3

Function: Provides the flow path from the Diesel Oil Storage Tank to the Diesel Oil Day Tank.

Test
Requirement: IWV-3410

Basis for
Relief: These self-contained, completely enclosed solenoid valves have no external valve position indicators. Therefore, stroke-time measurements and valve position verification is impractical.

Alternate
Testing: An increase in level in the Diesel Oil Day Tank while exercising these valves quarterly will demonstrate that the moving parts of the valve function satisfactorily.

Further, there is sufficient capacity in the Diesel Oil Day Tanks to allow for maintenance on the valve, if the valve should fail closed.



RELIEF REQUEST BASIS

SYSTEM: Primary Make-up and Containment Cooling Water

1. Valve: MOV--1417 and MOV--1418
Category: B
Class: 2

Function: Provides the component cooling water supply (MOV--1417) and return (MOV--1418) flow paths for the normal containment coolers, the control rod drive mechanism coolers, and the primary shield cooling coils.

Test Requirement: IWV-3410

Basis for Relief: Testing these valve during plant operation would cause interruption of cooling water to the normal containment cooler, the control rod drive mechanism coolers, and the primary shield cooling coils. This action could result in damage to the control rod drive mechanisms and associated equipment; thereby, placing the plant in an unsafe mode of operation.

Alternate Testing: These valves will be tested during cold shutdowns.

RELIEF REQUEST BASIS

SYSTEM: Containment Ventilation

1. Valve: HV-*-1, HV-*-2, and PAHM-*-002A
Category: A
Class: 2

Function: Provides redundant flow paths to Post Accident Hydrogen Monitoring and Control System.

Test Requirement: IWV-3410

Basis for Relief: The failure of either for these valves in the non-closed position, by testing during plant operation, would result in a loss of containment integrity per Technical Specification (3.3).

Alternate Testing: These valves will be tested during cold shutdowns.

2. Valve: HV-*-3, HV-*-4, and PAHM-*-002B
Category: A
Class: 2

Function: Provides redundant flow paths to Post Accident Hydrogen Monitoring and Control System.

Test Requirement: IWV-3410

Basis for Relief: The failure of either of these valves in the non-closed position, by testing during plant operation, would result in a loss of containment integrity per Technical Specification (3.3)

Alternate Testing: These valves will be tested during cold shutdowns.

RELIEF REQUEST BASIS

SYSTEM: Containment Ventilation

3.. Valve: *-11-003
Category: AC
Class: 2

Function: Prevents reverse flow from the containment atmosphere to the Containment Gas and Particulate Radioactivity Detection System.

Test
Requirement: IWV-3520

Basis for
Relief: Plant Technical Specification 3.1.3 requires two independent systems to monitor reactor coolant system leakage; one of which has to be sensitive to radioactivity. Testing this valve during plant operation would cause an interruption of the Reactor Coolant System Leak Detection System which is sensitive to radioactivity.

Similarly, testing this valve during cold shutdown would result in an interruption of the Detection System which is sensitive to radioactivity.

Alternate
Testing: This valve will be tested closed by seat leak testing during refueling shutdowns.

4. Valve: PAHM-*-001A and PAHM-*-001B
Category: A
Class: 2

Function: Provides redundant return flow paths from the Post Accident Hydrogen Monitoring and Control System.

Test
Requirement: IWV-3410

Basis for
Relief: The failure of either of the valves in the non-closed position, by testing during plant operation, would result in a loss of containment integrity per Technical Specification (3.3).

Alternate
Testing: These valves will be tested during cold shutdowns.

RELIEF REQUEST BASIS

SYSTEM: Containment Ventilation

5. Valve: SV-*-2911, SV-*-2913, AND SV-*-2912
Category: A
Class: 2

Function: Provides flow path from the containment atmosphere to the containment gas and particulate radio-activity detection system and return to containment.

Test Requirement: IWV-3300

Basis for Relief: These self contained, completely enclosed solenoid valves have no external valve position indication. Therefore direct observation of valve position indication is impractical.

Alternate Testing: These valves will be checked during local leak rate tests to verify that remote valve indications accurately reflect valve operation.



RELIEF REQUEST BASIS

SYSTEM: Containment Ventilation

6. Valve: *-40-204 and HV-*-17
Category: A
Class: 2

Function: Provides the flow path for the Service Air Supply
or the Hydrogen Recombiner Return to the containment.

Test Requirement: IWV-3410

Basis for Relief: The failure of the valve in the non closed
position, by testing during plant operation,
would cause a loss of containment
integrity requiring a plant shutdown
per Technical specification (3.3).

Alternate Testing: This valve will be tested during cold shutdowns.

7. Valve: *-40-205
Category: AC
Class: 2

Function: Prevents reverse flow from the containment atmosphere
to the Service Air System located outside containment.

Test Requirement: IWV-3520

Basis for Relief: The failure of this valve in the non
closed position, by testing during
plant operation, would cause a loss of
containment integrity requiring a plant
shutdown per Technical specification
(3.3).

Alternate Testing: This valve will be tested during cold shutdowns
and seat leak tested at refueling shutdowns.

RELIEF REQUEST BASIS

SYSTEM: Containment Ventilation

8. Valve: POV-*-2600, POV-*-2601, POV-*-2602, & POV-*-2603
Category: A
Class: 2

Function: Containment Purge Air Supply (POV-*-2600 & POV-*-2601)
and exhaust (POV-*-2602 & POV-*-2603) valves.

Test
Requirement: IWV-3410

Basis for
Relief: The failure of any one of these valves in the
non-closed position, by testing during plant
operation, would result in a loss of containment
integrity requiring a plant shutdown per Technical
Specification 3.3.

Alternate
Testing: These valves will be tested during cold shutdowns.



GENERIC RELIEF REQUEST BASIS

SYSTEM: Various

1. Valve: Various
Category: Various
Class: Various

Function: Various

Test Requirement: IWP-3417; IWP-3427; IWP-3523; and
IWP-3230

Basis for Relief: Paragraph Nos. IWP-3417; IWP-3427;
IWP-3523; and IWP-3230 prescribe
actions to be taken; limiting time
periods for actions to be completed;
or limiting conditions for operability
if certain conditions are not met.
This could be in conflict with the
Plant Technical Specifications.
In addition; certain CODE definitions
or terminology may be in conflict with
the Plant Technical Specifications.

Alternate
Corrective
Action
Requirements:

Corrective Action - Where a valve
or pump fails to meet the requirements
of the Program and/or the reference
CODE; the condition(s) shall be reviewed
by the Plant Nuclear Safety Committee
(PNSC) for disposition and determination
of whether it involves an unreviewed
safety question prior to commencing with
plant startup or continuing with plant
operation.

Nothing in Section XI of the ASME
Boiler and Pressure Vessel Code shall
be construed as superseding the
requirements of the Plant Technical
Specifications.

GENERIC RELIEF REQUEST BASIS

SYSTEM: Various

2. Valve:	CV*-519B	CV*-522A	CV*-522B	CV*-522C
	HV*-1	HV*-3	CV*-4659A	POV*-2601
	POV*-2603	CV*-4668A	MOV*-860A	*-10-582
	MOV*-860B	MOV*-872	MOV*-750	

Category: A
Class: 2

Function: These valves provide for containment
isolation

Test Requirement: IWV-3423 and IWV-3424

Basis for Relief: The containment isolation valves identified above are tested by pressurizing the piping or ducting between two or more valves installed in the associated containment penetration. This will result in performing the CODE Category A valve seat leakage test in a reverse direction from that specified in in IWV-3423; on one or more of the valves installed in the associated containment penetration.

Alternate Testing: Continue to perform the CODE Category A valve seat leakage test by pressurizing the piping or ducting between two or more valves installed in the associated containment penetration.

Nothing in Section XI of the ASME Boiler and Pressure Vessel Code shall be construed as superseding the requirements of Appendix J; 10CFR50 or the Plant Technical Specifications.

GENERIC RELIEF REQUEST BASIS

SYSTEM: Reactor Coolant, Safety Injection, and Residual Heat Removal

3. Valve: *-873A *-874A *-875A *-876A *-876D
 *-873B *-874B *-875B *-876B *-876E
 *-873C *-875C *-876C

Category: AC
Class: 1 or 2

Function: These valves provide for reactor coolant system pressure isolation between the High Pressure Safety Injection System, Low Pressure Safety Injection System, and Residual Heat Removal System.

Test Requirement: IWV-3520

Basis for Relief: These valves are required to be tested in accordance with Plant Technical Specification 4.17.

Alternate Testing: Continue testing these valves in accordance with Plant Technical Specification 4.17.



II. PUMP TEST PROGRAM

II.A. Table IV - Test Parameters to Code or Relief Request

This subsection outlines the pumps which are provided an emergency power source.

II.B. Test Interval

The quarterly test interval as defined in this pump test program is only inclusive of operational modes Power Operation, Hot Standby, or Hot Shutdown (as appropriate) as defined in the Turkey Point Unit No. 3 and 4 Technical Specifications.

III.C. Attachment A-2

Relief Request Basis

II.A.

List of Pumps:

Table IV - Test Parameters to Code or Relief Request



FLORIDA POWER & LIGHT COMPANY
TABLE IV
PUMP TEST PROGRAM

PUMP	PUMP NO.	TEST PARAMETERS						
		Speed, H	Inlet Pressure P_1	Differential Pressure DELTA P	Flow Rate Q	Vibration Amplitude, V	Bearing Temperature T_b (1)	RRB NO.
High Head Safety Injection	P215A	No	Yes	Yes	No (2)	Yes	Yes	1
	P215B	No	Yes	Yes	No (2)	Yes	Yes	1
	P215C	No	Yes	Yes	No (2)	Yes	Yes	1
	P215D	No	Yes	Yes	No (2)	Yes	Yes	1
Diesel Oil Transfer	3-P10	No	Yes	Yes	No (2)	Yes	Yes	4
	4-P10	No	Yes	Yes	No (2)	Yes	Yes	4

NOTE (1): BEARING TEMPERATURE, T_b , IS MEASURED ONLY ON THE ANNUAL TEST.

NOTE (2): FIXED HYD. RESISTANCE SYSTEM

NOTE (3): VARIABLE HYD. RESISTANCE SYSTEM.

ATTACHMENT A-2

TURKEY POINT UNIT NO. 3 & 4 .

RELIEF REQUEST BASIS



RELIEF REQUEST BASIS

1) PUMPS:

Residual Heat Removal Pump No. *A	(*P210A)
Residual Heat Removal Pump No. *B	(*P210B)
Containment Spray Pump No. *A	(*P214A)
Containment Spray Pump No. *B	(*P214B)
High Head Safety Injection Pump No. A	(P215A)
High Head Safety Injection Pump No. B	(P215B)
High Head Safety Injection Pump No. C	(P215C)
High Head Safety Injection Pump No. D	(P215D)

Test Requirement: IWP-4600 Flow Measurement

Basis for Relief: Section XI, ASME Boiler & Pressure Vessel Code, requires measurement of flow rate using a rate or quantity meter installed in the pump test circuit. These pumps use a fixed hydraulic resistance system with an orifice installed in the pump recirculation line (IWP-1400).

Alternate Testing: Measure differential pressure (IWP-4240) across the pump during the quarterly pump test. measured differential pressure across the pump shall then be compared to the established reference value. This provides for an indirect measure of flow rate and verifies the operational readiness of the pump (IWP-1500).



RELIEF REQUEST BASIS

2) PUMPS:

Intake Cooling Water Pump No. *A	(*-P9A)
Intake Cooling Water Pump No. *B	(*-P9B)
Intake Cooling Water Pump No. *C	(*-P9C)

Test Requirement: IWP-4310 (Bearing Temperature Measurement)

Basis for Relief: The pump bearings for these vertical centrifugal pumps are located inside the pump housing which is submerged. The bearings are water lubricated with no provisions for temperature measurement.

Alternate Testing: Measurement of vibration amplitude and the other required parameters during each pump test will provide for the detection of changes in the mechanical characteristics of the pump.

3) PUMPS:

Residual Heat Removal Pump No. *A	(*-P210A)
Residual Heat Removal Pump No. *B	(*-P210B)

Test Requirement: IWP-4310 (Bearing Temperature Measurement)

Basis for Relief: The pump bearings for these vertical centrifugal pumps are located inside the pump housing which is submerged. The bearings are water lubricated with no provisions for temperature measurement.

Alternate Testing: Measurement of vibration amplitude and the other required parameters during each pump test will provide for the detection of changes in the mechanical characteristics of the pump.

RELIEF REQUEST BASIS

4) PUMPS:

Diesel Oil Transfer No. 3	(3-P10)
Diesel Oil Transfer No. 4	(4-P10)

Test Requirement: IWP-4600 Flow Measurement

Basis for Relief: Section XI, ASME Boiler & Pressure Vessel Code, requires measurement of flow rate using a rate or quantity meter installed in the pump test circuit.

Alternate Testing: Flow rate will be calculated based on change in Diesel Oil Day Tank level and measured time.

Test Requirement: IWP-3500 Duration of Tests

Basis for Relief: The Diesel Oil Transfer Pumps have no installed recirculation flow path. The Diesel Oil Day Tank level control system provides for a direct flow path from the Diesel Oil Storage Tank to the Day Tank. With automatic pump start on low level in the Diesel Oil Day Tank and automatic pump stop when the high level setpoint is reached, the typical operating time for these pumps is less than 10 minutes. Therefore, operation of the Diesel Oil Transfer pumps for the 30 minute minimum run time required by IWP-3500 is impractical.

Alternate Testing: The Diesel Oil Transfer Pump bearing temperature will be measured during normal pump tests.