



LOUISIANA
POWER & LIGHT

317 BARONNE STREET • P. O. BOX 60340
NEW ORLEANS, LOUISIANA 70160 • (504) 595-3100

April 4, 1988

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QA

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

Subject: Waterford 3 SES
Docket No. 50-382
License No. NPF-38
Pump and Valve Inservice Test Plan, Revisions 4 and 5

Reference: LP&L letter W3P85-1421 dated 7/8/85, K.W. Cook to G.W. Knighton, NRC, subject: Pump & Valve Inservice Test Plan, Revision 3.

Louisiana Power & Light Company by the referenced letter submitted for approval Revision 3 of the Waterford 3 Pump and Valve Inservice Test Plan.

This letter provides for your information the changes made in Revisions 4 and 5 of the subject plan. These revisions were not submitted previously as only minor changes not requiring NRC approval were made to the plan. Revisions 4 and 5 did not decrease the effectiveness of the plan or require relief from code requirements.

The attachment to this letter provides a summary of the changes to the Test Plan in Revisions 4 and 5 and a copy of the revised pages with change bars noted in the page margins to indicate the changes made.

It should be noted that Revision 5 contains a typographical error. Three of the component cooling water valves indicate a change from CV (exercise check valves to the position required to fulfill their function at least once every three (3) months) to CSR (exercise check valve (partial stroke) at each cold shutdown and full stroke at each reactor refueling outage). CSR is a typo and should be CS (exercise valve (full stroke) for operability during each cold shutdown and at each refueling outage).

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The subject valves have been tested per procedure to the CS requirement in accordance with ASME XI IWV-3522. Correction of the typographical error in Revision 5 will be included in the next revision of the plan which is in the planning stages. We anticipate the submittal of Revision 6 for approval of relief requests in the near term.

Very truly yours,



R.F. Burski
Nuclear Safety & Regulatory Affairs
Acting Manager

RFB:GEW:ssf

Attachment

cc: R.D. Martin, NRC Region IV
NRC Resident Inspectors Office
J.A. Calvo, NRC-NRR
D.L. Wigginton, NRC-NRR
E.L. Blake
W.M. Stevenson

Major Changes contained in
LP&L Pump and Valve Inservice Test Plan

Revision 4:

1. pages 29-33; changed flow diagram/sheet number and coordinates for all valves to correctly indicate drawing expansion.
2. Relief Request 3.1.30 typo corrected.

Revision 5:

1. page 50; change valve testing requirement for check valve CC-644 from CV to CSR.
2. page 43; change valve testing requirement for check valves CC-181A and CC-181B from CV to CSR.

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VALVES FOR INSERVICE TESTING

System: Feedwater (FW)

WATERFORD 3 S.E.S.

Including Emergency Feedwater (EFW)

REVISION NO. 3

VALVE NUMBER	CODE CLASS	FLOW DIAGRAM/ SHEET NUMBER	COORD- INATES	SECTION XI VALVE CATEGORY	SIZE I N C H E S	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	FAILURE POSITION	TEST REQUIREMENTS	TEST ALTERNATES	RELIEF REQUESTS/ CLARIFICATIONS	STROKE TIME LIMIT (SEC.)	FUNCTION	REMARKS
EFW-206A	3	LDU-156A- G-153 Sheet 2/4	1-12 L-8	C	1	CK	SA	C	-	CV	-	-	-	EFW Pump A Recirculation to CSP	
EFW-206B	3	G-153 Sheet 1/4	1-17 L-3	C	1	CK	SA	C	-	CV	-	-	-	EFW Pump B Recirculation to CSP	
EFW- 206A/B	3	G-153 Sheet 2/4	1-16 L-11	C	1 1/2	CK	SA	C	-	CV	-	-	-	EFW Pump A/B Recirculation to CSP	
EFW-207A	3	G-153 Sheet 2/4	0-17 J-7	C	6	CK	SA	C	-	CV	CS	3.1.22 3.1.3	-	EFW Pump A Discharge Check to Steam Generators	
EFW-207B	3	G-153 Sheet 2/4	0-16 J-12	C	6	CK	SA	C	-	CV	CS	3.1.22 3.1.3	-	EFW Pump B Discharge Check to Steam Generators	
EFW- 207A/B	3	G-153 Sheet 2/4	0-16 J-9	C	6	CK	SA	C	-	CV	CS	3.1.23 3.1.3	-	EFW Pump A/B Discharge Check to Steam Generators	
EFW- 2191A (JFM- V1541A)	3	G-153 Sheet 2/4	0-14 G-7	C	6	CK	SA	C	-	CV	CS	3.1.22 3.1.3	-	EFW Pumps Discharge Check to Steam Generators	

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VALVES FOR INSERVICE TESTING

WATERFORD 3 S.E.S.

REVISION NO. 3-4

System: Feedwater (FW)

Including Emergency Feedwater (EFW)

VALVE NUMBER	CORE CLASS	FLOW DIAGRAM/ SHEET NUMBER	COORDINATES	SECTION XI VALVE CATEGORY	SIZE I M C N E S	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	FAILURE POSITION	TEST REQUIREMENTS	TEST ALTERNATES	RELIEF REQUESTS/ CLARIFICATIONS	STROKE TIME LIMIT (SEC.)	FUNCTION	REMARKS
EFW-2191B (JFW-V1542B)	3	G-153 Sheet 4	B-14 G-12	C	6	CK	SA	C	-	CV	CS	3.1.22 3.1.3	- -	EFW Pump Discharge Check to Steam Generators	
EFW-220A	3	G-153 Sheet 4	B-14 G-8	B	4	GA	MO	C	AI	Q MT	CS	3.1.50, 3.1.3, 3.1.4	- 60	Blowdown Isolation	
EFW-220B	3	G-153 Sheet 4	B-14 G-12	B	4	GA	MO	C	AI	Q MT	CS	3.1.50, 3.1.3, 3.1.4	- 60	Blowdown Isolation	
EFW-223A	2	G-153 Sheet 4	B-14 C-1	B	4	GL	AO	C	O	Q MT	-	-	- 25	EFW Flow Control	MSIS Closes
EFW-223B	2	G-153 Sheet 4	B-14 C-1	B	4	GL	AO	C	O	Q MT	-	-	- 25	EFW Flow Control	MSIS Closes
EFW-224A	2	G-153 Sheet 4	B-14 C-1	B	4	GL	AO	C	O	Q MT	-	-	- 25	EFW Flow Control	MSIS Closes
EFW-224B	2	G-153 Sheet 4	B-14 C-1	B	4	GL	AO	C	O	Q MT	-	-	- 25	EFW Flow Control	MSIS Closes

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VALVES FOR INSERVICE TESTING

System: Feedwater (FW)

WATERFORD 3 S.E.S.

Including Emergency Feedwater (EFW)

REVISION NO. 3

VALVE NUMBER	CODE CLASS	FLOW DIAGRAM/ SHEET NUMBER	COORD- INATES	SECTION XI VALVE CATEGORY	SIZE I N C H E S	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	FAILURE POSITION	TEST REQUIREMENTS	TEST*	RELIEF ADJUSTS/ MODIFICATIONS	STROKE TIME LIMIT (SEC.)	FUNCTION	REMARKS
SFW-228A	2	LOU-1564- G-153 Sheet 2-4	B-15 B-11	B	4	GL	A0	C	O	Q* MT	- -	- -	- 25	EFW Flow Isolation	EFAS Opens. MSIS Closes.
EFW-223B	2	G-153 Sheet 2-4	B-16 D-12	B	4	GL	A0	C	O	Q* MT	- -	- -	- 25	EFW Flow Isolation	EFAS Opens. MSIS Closes.
EFW-229A	2	G-153 Sheet 2-4	B-14 B-9	B	4	GL	A0	C	G	Q* MT	- -	- -	- 25	EFW Flow Isolation	EFAS Opens. MSIS Closes.
EFW-229B	2	G-153 Sheet 2-4	B-15 D-10	B	4	GL	A0	C	O	Q* MT	- -	- -	- 25	EFW Flow Isolation	EFAS Opens. MSIS Closes.
FW-166A	5	G-153 Sheet 2-4	A-11 B-5	B	6	GA	A0	O	C	Q* MT	CS -	3.1.46, 3.1.3, 3.1.4 -	- 5	Main Feedwater Control Bypass	MSIS Closes. FSAR 10.4.7.2

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VALVES FOR INSERVICE TESTING

System: Feedwater (FW)

WATERFORD 3 S.E.S.

Including Emergency Feedwater (EFW)

REVISION NO. 34

VALVE NUMBER	CODE CLASS	FLOW DIAGRAM/ SHEET NUMBER	COORDINATES	SECTION XI VALVE CATEGORY	SIZE INCHES	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	FAILURE POSITION	TEST REQUIREMENTS	TEST ALTERNATES	RELIEF REQUESTS/ CLARIFICATIONS	STROKE TIME LIMIT (SEC.)	FUNCTION	REMARKS
FW-166B	5	LOU-1564-G-153 Sheet 2/4	B-14 E-5	B	6	GA	AO	O	C	Q* MT	CS -	3.1.46, 3.1.3, 3.1.4 -	- 5	Main Feedwater Control Bypass	MSIS Closes. FSAR 10.4.7.2
FW-179A	5	G-153 Sheet 2/4	B-14 C-5	B	16	ANG	AO	O	C	Q* MT	CS -	3.1.51, 3.1.3, 3.1.4 -	- 2.3 to 5	Main Feedwater Control	MSIS Closes. FSAR 10.4.7.2
FW-179B	5	G-153 Sheet 2/4	B-14 G-5	B	16	ANG	AO	O	C	Q* MT	CS -	3.1.51, 3.1.3, 3.1.4 -	- 2.3 to 5	Main Feedwater Control	MSIS Closes. FSAR 10.4.7.2
FW-179A	3	G-153 Sheet 2/4	B-14 G-8	B	4	GA	MO	C	AI	Q MT	CS -	3.1.50, 3.1.3, 3.1.4 -	- 30	Blowdown Isolation	
FW-179B	3	G-153 Sheet 2/4	B-14 E-8	B	4	GA	MO	C	AI	Q MT	CS -	3.1.50, 3.1.3, 3.1.4 -	- 30	Blowdown Isolation	

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VALVES FOR INSERVICE TESTING

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System: Feedwater (FW)

WATERFORD 3 S.E.S.

Including Emergency Feedwater (EFW)

REVISION NO. 3

VAL NUMBER	CODE CLASS	FLOW DIAGRAM/ SHEET NUMBER	COORD- INATES	SECTION XI VALVE CATEGORY	SIZE I N C H E S	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	FAILURE POSITION	TEST REQUIREMENTS	TEST ALTERNATES	RELIEF REQUESTS/ CLARIFICATIONS	STROKE TIME LIMIT (SEC.)	FUNCTION	REMARKS
FW-184A	2	G-153 Sheet 2- 4	B-14- A-7	B	20	GA	HP	O	AI	Q ⁺ MT	CSP -	3.1.26, 3.1.3, 3.1.4 -	- 2.3 to 5	Feedwater Isolation	Hydraulic Opens. Pneumatic Closes. MSIS Closes.
FW-184B	2	G-153 Sheet 2- 4	D-15- D-10	B	20	GA	HP	C	AI	Q ⁺ MT	CSP -	3.1.26, 3.1.3, 3.1.4 -	- 2.3 to 5	Feedwater Isolation	Hydraulic Opens. Pneumatic Closes. MSIS Closes.

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VALVES FOR INSERVICE TESTING

WATERFORD 3 S.E.S.

REVISION NO. 5

System: Component Cooling Water (CC)
Including Auxiliary Component Cooling Water (ACC)

VALVE NUMBER	CODE CLASS	FLOW DIAGRAM/ SHEET NUMBER	COORDINATES	SECTION XI VALVE CATEGORY	SIZE I N C H E S	VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	FAILURE POSITION	TEST REQUIREMENTS	TEST ALTERNATES	RELIEF REQUESTS/ CLARIFICATIONS	STROKE TIME LIMIT (SEC.)	FUNCTION	REMARKS
CC-134B	3	LOU-1564-G-160 Sheet 2	A-13	B	16	B	AO	C	AI	Q* MT	-	3.2.7	-	Dry Cooling Tower B Bypass	
CC-135A	3	G-160 Sheet 2	B-8	B	20	B	AO	O	AI	Q* MT	-	3.2.7	-	Dry Cooling Tower A Inlet Isolation	
CC-135B	3	G-160 Sheet 2	B-11	B	20	B	AO	O	AI	Q* MT	-	3.2.7	-	Dry Cooling Tower B Inlet Isolation	
CC-181A	3	G-160 Sheet 2	B-2	C	20	CK	SA	O	-	CSR	-	-	-	Dry Cooling Tower A Outlet Check	
CC-181B	3	G-160 Sheet 2	B-18	C	20	CK	SA	O	-	CSR	-	-	-	Dry Cooling Tower B Outlet Check	
CC-200A	3	G-160 Sheet 2	J-6	B	16	B	AO	O	C	Q* MT	-	3.2.7	-	Non-Essential CCW Isolation and Essential CCW Train Separation	CSAS Closes.
CC-200B	3	G-160 Sheet 2	J-7	B	16	B	AO	O	C	Q* MT	-	3.2.7	-	Non-Essential CCW Isolation and Essential CCW Train Separation	CSAS Closes.

WAYS FOR INSERVICE TESTING

WATERFORD 3 S.E.S.

REVISION NO. 5

System: Component Cooling Water (CC)

Including Auxiliary Component Cooling Water (ACC)

VALVE NUMBER	CODE CLASS	FLOW DIAGRAM/ SHEET NUMBER	COORD- INATES	SECTION XI VALVE CATEGORY	SIZE			VALVE TYPE	ACTUATOR TYPE	NORMAL POSITION	FAILURE POSITION	TEST REQUIREMENTS	TEST ALTERNATES	RELIEF REQUESTS/ CLARIFICATIONS	STROKE TIME LIMIT (SEC.)	FUNCTION	REMARKS
					I	N	C										
ACC-112B	3	LOU-1564- G-160 Sheet 3	I-6	B	6	B	AO	C	AI		Q* MT	- -	- -	- -	10	ACCM Pump B Discharge to Chillers	
ACC-113A	3	G-160 Sheet 3	I-2	C	6	CK	SA	C	-		CV	-	-	-	-	ACCM Pump A Discharge to Chillers	
ACC-113B	3	G-160 Sheet 3	I-6	C	6	CK	SA	C	-		CV	-	-	-	-	ACCM Pump B Discharge to Chillers	
ACC-126A	3	G-160 Sheet 2	H-5	B	12	B	AO	O	O		Q MT	- -	- -	- -	45	ACCM Train A Temperature Controller	
ACC-126B	3	G-160 Sheet 2	H-14	B	12	B	AO	O	O		Q MT	- -	- -	- -	45	ACCM Train B Temperature Controller	
CC-644	2	G-160 Sheet 1	E-3	AC	10	CK	SA	O	-		CSR LT	- -	- -	- -	-	CCM to Reactor Coolant Pumps and CCM's	

3.1.30 Test Requirement

Exercise check valves for operability at least once every three (3) months.

Basis for Relief

The operability testing (full or partial stroke) of these normally closed check valves per IWV-3520 during power operation or cold shutdown is not practical. Stroking these valves with flow would require the spraying of containment resulting in unnecessary equipment damage. Valve disassembly (manual full-stroke) during power operation is not practical because the valves are inside containment. During cold shutdown, valve disassembly would require draining a portion of the system which is beyond the scope of cold shutdown testing. An air test for flow verification would require either draining a portion of the system or risking the possibility of wetting equipment inside containment. Therefore, the air test is impractical. In general, performing any test during power operation which lowers the water level in the spray header below +149.5 feet MSL elevation places the plant under a Limiting Condition for Operation (LCO) and may result in a plant shutdown.

Alternate Testing

^{ONE}
~~Out~~ of these two check valves will be disassembled and manually exercised by hand to its full-open position at each refueling outage on a staggered sampling basis.

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