INSERVICE TESTING PROGRAM

CALLAWAY NUCLEAR PLANT

REVISION 5

JULY 25, 1985

PREPARED BY:

Warren A. Witt

WARREN A. WITT
ISI ENGINEER

REVIEWED BY:

R D Affolter

R. D. AFFOLTER
ISI SUPERVISING ENGINEER

INSERVICE TESTING PROGRAM

SY	VLV-NUMBER	*-P+ID-*	CRD	I	CAT	*SIZE	TYP	AT	POS	DIR	TST	TM	MAX	*R/R	*NOTES-*
EG	HV 0011	M-02EG01	F-8	3	B	1.5"	GL	MO	C	O	BT	OP	23		6
EG	HV 0011	M-02EG01	F-8	3	B	1.5"	GL	MO	C	O	PIT	RR			
EG	HV 0012	M-02EG01	C-8	3	B	1.5"	GL	MO	C	O	BT	OP	23		6
EG	HV 0012	M-02EG01	C-8	3	B	1.5"	GL	MO	C	O	PIT	RR			
EG	HV 0013	M-02EG01	F-7	3	B	1.5"	GL	MO	C	O	BT	OP	23		6
EG	HV 0013	M-02EG01	F-7	3	B	1.5"	GL	MO	C	O	PIT	RR			
EG	HV 0014	M-02EG01	C-7	3	B	1.5"	GL	MO	C	O	BT	OP	23		6
EG	HV 0014	M-02EG01	C-7	3	B	1.5"	GL	MO	C	O	PIT	RR			
EG	HV 0015	M-02EG01	D-6	3	B	18"	BT	MO	O	O/C	BT	OP	65		6
EG	HV 0015	M-02EG01	D-6	3	B	18"	BT	MO	O	O/C	PIT	RR			
EG	HV 0016	M-02EG01	D-6	3	B	18"	BT	MO	O	O/C	BT	OP	60		6
EG	HV 0016	M-02EG01	D-6	3	B	18"	BT	MO	O	O/C	PIT	RR			
EG	LV 0001	M-02EG01	G-7	3	B	3"	GL	AO	C	C	NA				3
EG	LV 0002	M-02EG01	C-7	3	B	3"	GL	AO	C	C	NA				3
EG	RV 0009	M-02EG01	G-6	3	B	2"	GL	AO	O	C	BT	OP	5		
EG	RV 0009	M-02EG01	G-6	3	B	2"	GL	AO	O	C	FST	OP			
EG	RV 0009	M-02EG01	G-6	3	B	2"	GL	AO	O	C	PIT	RR			
EG	RV 0010	M-02EG01	C-6	3	B	2"	GL	AO	O	C	BT	OP	5		
EG	RV 0010	M-02EG01	C-6	3	B	2"	GL	AO	O	C	FST	OP			
EG	RV 0010	M-02EG01	C-6	3	B	2"	GL	AO	O	C	PIT	RR			
EG	V 0003	M-02EG01	G-3	3	C	20"	CK	SA	C	O	CVT	OP			
EG	V 0007	M-02EG01	F-3	3	C	20"	CK	SA	C	O	CVT	OP			
EG	V 0012	M-02EG01	D-3	3	C	20"	CK	SA	C	O	CVT	OP			
EG	V 0016	M-02EG01	C-3	3	C	20"	CK	SA	C	O	CVT	OP			
EG	V 0130	M-02EG01	D-6	3	C	18"	CK	SA	C	O	CVT	OP			
EG	V 0131	M-02EG01	D-6	3	C	18"	CK	SA	C	O	CVT	OP			
EG	V 0159	M-02EG01	G-6	3	C	2"	RV	SA	C	O	RVT				2
EG	V 0170	M-02EG01	C-6	3	C	2"	RV	SA	C	O	RVT				2
EG	V 0305	M-02EG01	G-6	3	C	1"	RV	SA	C	O	RVT				2
EG	V 0306	M-02EG01	C-6	3	C	1"	RV	SA	C	O	RVT				2

INSERVICE TESTING PROGRAM

SY	VLV-NUMBER	*-P+ID-*	CRD	I	CAT	*SIZE	TYP	AT	POS	DIR	TST	TM	MAX	*R/R	*NOTES-*
EJ	8708A	M-02EJ01	F-7	2	C	3"	RV	SA	C	O/C	RVT				2
EJ	8708B	M-02EJ01	C-7	2	C	3"	RV	SA	C	O/C	RVT				2
EJ	8730A	M-02EJ01	G-4	2	C	10"	CK	SA	C	O	CVT	OP			
EJ	8730B	M-02EJ01	C-4	2	C	10"	CK	SA	C	O	CVT	OP			
EJ	8841A	M-02EJ01	E-2	1	A,C	6"	CK	SA	C	C/O	AT	CS		V05	5,7
EJ	8841A	M-02EJ01	E-2	1	A,C	6"	CK	SA	C	C/O	CVT	CS		EJ-1	
EJ	8841B	M-02EJ01	D-2	1	A,C	6"	CK	SA	C	C/O	AT	CS		V05	5,7
EJ	8841B	M-02EJ01	D-2	1	A,C	6"	CK	SA	C	C/O	CVT	CS		EJ-1	
EJ	8958A	M-02EJ01	F-6	2	C	14"	CK	SA	C	O	CVT	OP			
EJ	8958B	M-02EJ01	B-6	2	C	14"	CK	SA	C	O	CVT	OP			
EJ	8969A	M-02EJ01	G-3	2	C	8"	CK	SA	C	O	CVT	RR		EJ-2	5
EJ	8969B	M-02EJ01	A-4	2	C	8"	CK	SA	C	O	CVT	RR		EJ-2	5
EJ	FCV0610	M-02EJ01	H-6	2	B	3"	GA	MO	O	C	BT	OP	13		6
EJ	FCV0610	M-02EJ01	H-6	2	B	3"	GA	MO	O	C	PIT	RR			
EJ	FCV0611	M-02EJ01	A-5	2	B	3"	GA	MO	O	C	BT	OP	10		6
EJ	FCV0611	M-02EJ01	A-5	2	B	3"	GA	MO	O	C	PIT	RR			
EJ	FCV0618	M-02EJ01	F-5	2	B	8"	BT	AO	C	C	NA				3
EJ	FCV0619	M-02EJ01	B-5	2	B	8"	BT	AO	C	C	NA				3
EJ	HCV0606	M-02EJ01	G-4	2	B	10"	BT	AO	O	O	NA				3
EJ	HCV0607	M-02EJ01	C-4	2	B	10"	BT	AO	O	O	NA				3
EJ	HCV8825	M-02EJ01	E-2	2	B	.75"	GL	AO	C	C	BT	OP	10		
EJ	HCV8825	M-02EJ01	E-2	2	B	.75"	GL	AO	C	C	PIT	RR			
EJ	HCV8890A	M-02EJ01	F-2	2	B	.75"	GL	AO	C	C	BT	OP	13		
EJ	HCV8890A	M-02EJ01	F-2	2	B	.75"	GL	AO	C	C	PIT	RR			
EJ	HCV8890B	M-02EJ01	C-2	2	B	.75"	GL	AO	C	C	BT	OP	13		
EJ	HCV8890B	M-02EJ01	C-2	2	B	.75"	GL	AO	C	C	PIT	RR			
EJ	HV 0014	M-02EJ01	H-5	2	B	1"	GL	SO	C	C	NA				3
EJ	HV 0015	M-02EJ01	A-5	2	B	1"	GL	SO	C	C	NA				3
EJ	HV 0021	M-02EJ01	E-7	2	B	1"	GL	SO	C	O	BT	OP	5		
EJ	HV 0022	M-02EJ01	D-7	2	B	1"	GL	SO	C	O	BT	OP	5		
EJ	HV 0023	M-02EJ01	E-7	2	A	1"	GL	SO	C	O/C	AT	RR		V04	10
EJ	HV 0023	M-02EJ01	E-7	2	A	1"	GL	SO	C	O/C	BT	OP	5		
EJ	HV 0024	M-02EJ01	D-6	2	A	1"	GL	SO	C	O/C	AT	RR		V04	10
EJ	HV 0024	M-02EJ01	D-6	2	A	1"	GL	SO	C	O/C	BT	OP	5		
EJ	HV 0025	M-02EJ01	E-7	2	A	1"	GL	SO	C	O/C	AT	RR		V04	10
EJ	HV 0025	M-02EJ01	E-7	2	A	1"	GL	SO	C	O/C	BT	OP	5		
EJ	HV 0026	M-02EJ01	D-6	2	A	1"	GL	SO	C	O/C	AT	RR		V04	10
EJ	HV 0026	M-02EJ01	D-6	2	A	1"	GL	SO	C	O/C	BT	OP	5		
EJ	HV 8701A	M-02EJ01	F-8	1	A	12"	GA	MO	C	C	AT	CS		V05	7
EJ	HV 8701A	M-02EJ01	F-8	1	A	12"	GA	MO	C	C	BT	CS	120	EJ-3	5,6
EJ	HV 8701A	M-02EJ01	F-8	1	A	12"	GA	MO	C	C	PIT	RR			
EJ	HV 8701B	M-02EJ01	B-8	1	A	12"	GA	MO	C	C	AT	CS		V05	7
EJ	HV 8701B	M-02EJ01	B-8	1	A	12"	GA	MO	C	C	BT	CS	120	EJ-3	5,6
EJ	HV 8701B	M-02EJ01	B-8	1	A	12"	GA	MO	C	C	PIT	RR			
EJ	HV 8716A	M-02EJ01	E-4	2	B	10"	GA	MO	O	C/O	BT	CS	15	EJ-7	6,5
EJ	HV 8716A	M-02EJ01	E-4	2	B	10"	GA	MO	O	C/O	PIT	RR			
EJ	HV 8716B	M-02EJ01	D-4	2	B	10"	GA	MO	O	C/O	BT	CS	15	EJ-7	6,5
EJ	HV 8716B	M-02EJ01	D-4	2	B	10"	GA	MO	O	C/O	PIT	RR			
EJ	HV 8804A	M-02EJ01	G-4	2	B	8"	GA	MO	C	O	BT	CS	15	EJ-4	6,5
EJ	HV 8804A	M-02EJ01	G-4	2	B	8"	GA	MO	C	O	PIT	RR			
EJ	HV 8804B	M-02EJ01	A-4	2	B	8"	GA	MO	C	O	BT	CS	15	EJ-4	6,5
EJ	HV 8804B	M-02EJ01	A-4	2	B	8"	GA	MO	C	O	PIT	RR			

INSERVICE TESTING PROGRAM

SY	VLV-NUMBER	*-P+ID-*	CRD	I	CAT	*SIZE	TYP	AT	POS	DIR	TST	TM	MAX	*R/R	*NOTES-*
EM	8922A	M-02EM01	E-5	2	C	4"	CK	SA	C	O	CVT	RR		EM-1	5
EM	8922B	M-02EM01	D-5	2	C	4"	CK	SA	C	O	CVT	RR		EM-1	5
EM	8926A	M-02EM01	E-7	2	C	8"	CK	SA	C	O	CVP	OP		EM-5	
EM	8926A	M-02EM01	E-7	2	C	8"	CK	SA	C	O	CVT	RR		EM-5	
EM	8926B	M-02EM01	D-7	2	C	8"	CK	SA	C	O	CVP	OP		EM-5	
EM	8926B	M-02EM01	D-7	2	C	8"	CK	SA	C	O	CVT	RR		EM-5	
EM HV	8802A	M-02EM01	E-4	2	B	4"	GA	MO	C	O	BT	CS	10	EM-6	6,5
EM HV	8802A	M-02EM01	E-4	2	B	4"	GA	MO	C	O	PIT	RR			
EM HV	8802B	M-02EM01	D-4	2	B	4"	GA	MO	C	O	BT	CS	10	EM-6	5,6
EM HV	8802B	M-02EM01	D-4	2	B	4"	GA	MO	C	O	PIT	RR			
EM HV	8807A	M-02EM01	G-7	2	B	6"	GA	MO	C	O	BT	OP	15		6
EM HV	8807A	M-02EM01	G-7	2	B	6"	GA	MO	C	O	PIT	RR			
EM HV	8807B	M-02EM01	F-7	2	B	6"	GA	MO	C	O	BT	OP	15		6
EM HV	8807B	M-02EM01	F-7	2	B	6"	GA	MO	C	O	PIT	RR			
EM HV	8814A	M-02EM01	B-6	2	B	1.5"	GL	MO	O	C	BT	OP	10		6
EM HV	8814A	M-02EM01	B-6	2	B	1.5"	GL	MO	O	C	PIT	RR			
EM HV	8814B	M-02EM01	B-5	2	B	1.5"	GL	MO	O	C	BT	OP	10		6
EM HV	8814B	M-02EM01	B-5	2	B	1.5"	GL	MO	O	C	PIT	RR			
EM HV	8821A	M-02EM01	E-4	2	B	4"	GA	MO	O	C	BT	OP	15		6
EM HV	8821A	M-02EM01	E-4	2	B	4"	GA	MO	O	C	PIT	RR			
EM HV	8821B	M-02EM01	D-4	2	B	4"	GA	MO	O	C	BT	OP	15		6
EM HV	8821B	M-02EM01	D-4	2	B	4"	GA	MO	O	C	PIT	RR			
EM HV	8823	M-02EM01	C-4	2	B	.75"	GL	AO	C	C	BT	OP	10		
EM HV	8823	M-02EM01	C-4	2	B	.75"	GL	AO	C	C	FST	OP			
EM HV	8823	M-02EM01	C-4	2	B	.75"	GL	AO	C	C	PIT	RR			
EM HV	8824	M-02EM01	D-3	2	B	.75"	GL	AO	C	C	BT	OP	10		
EM HV	8824	M-02EM01	D-3	2	B	.75"	GL	AO	C	C	FST	OP			
EM HV	8824	M-02EM01	D-3	2	B	.75"	GL	AO	C	C	PIT	RR			
EM HV	8835	M-02EM01	B-4	2	B	4"	GA	MO	O	C	BT	CS	10		6,5
EM HV	8835	M-02EM01	B-4	2	B	4"	GA	MO	O	C	PIT	RR			
EM HV	8871	M-02EM01	G-5	2	A	.75"	GL	AO	C	C	AT	RR		V04	10
EM HV	8871	M-02EM01	G-5	2	A	.75"	GL	AO	C	C	BT	OP	10		
EM HV	8871	M-02EM01	G-5	2	A	.75"	GL	AO	C	C	FST	OP			
EM HV	8871	M-02EM01	G-5	2	A	.75"	GL	AO	C	C	PIT	RR			
EM HV	8881	M-02EM01	G-4	2	B	.75"	GL	AO	C	C	BT	OP	10		
EM HV	8881	M-02EM01	G-4	2	B	.75"	GL	AO	C	C	FST	OP			
EM HV	8881	M-02EM01	G-4	2	B	.75"	GL	AO	C	C	PIT	RR			
EM HV	8888	M-02EM01	F-6	2	A	1"	GL	AO	C	C	AT	RR		V04	9,10
EM HV	8889A	M-02EM01	G-2	1	B	.75"	GL	AO	C	C	NA				3
EM HV	8889B	M-02EM01	G-3	1	B	.75"	GL	AO	C	C	NA				3
EM HV	8889C	M-02EM01	G-2	1	B	.75"	GL	AO	C	C	NA				3
EM HV	8889D	M-02EM01	G-2	1	B	.75"	GL	AO	C	C	NA				3
EM HV	8923A	M-02EM01	E-7	2	B	6"	GA	MO	O	O	NA				3
EM HV	8923B	M-02EM01	D-7	2	B	6"	GA	MO	O	O	NA				3
EM HV	8924	M-02EM01	G-8	2	B	6"	GA	MO	O	O	NA				3
EM HV	8964	M-02EM01	G-6	2	A	.75"	GL	AO	C	C	AT	RR		V04	10
EM HV	8964	M-02EM01	G-6	2	A	.75"	GL	AO	C	C	BT	OP	10		
EM HV	8964	M-02EM01	G-6	2	A	.75"	GL	AO	C	C	FST	OP			
EM HV	8964	M-02EM01	G-6	2	A	.75"	GL	AO	C	C	PIT	RR			
EM V	0001	M-02EM01	F-3	1	A,C	2"	CK	SA	C	O/C	AT	CS		V05	7
EM V	0001	M-02EM01	F-3	1	A,C	2"	CK	SA	C	O/C	CVT	RR		EM-2	5
EM V	0002	M-02EM01	E-3	1	A,C	2"	CK	SA	C	O/C	AT	CS		V05	7

RELIEF REQUEST #EJ-7

VALVE:	EJ-HV-8716A, B
CATEGORY:	B
CLASS:	2
FUNCTION:	Provide Low Head Safety Injection/ Residual Heat Removal train separation for recirculation of fluid to cold legs of Reactor Coolant System (RCS).
TEST REQUIREMENT:	Exercise valves to the position required to fulfill its function and stroke time every three (3) months.
BASIS FOR RELIEF:	Closing either EJ-HV-8716A or EJ-HV-8716B isolates each Residual Heat Removal (RHR) pump from two RCS cold legs. This renders both trains of Emergency Core Cooling System (ECCS) inoperable, which is in violation of Technical Specifications during operation.
ALTERNATE TESTING:	Valves will be exercised and stroke timed at cold shutdown.

RELIEF REQUEST #EM-6

VALVE:	EM-HV-8802A, B
CATEGORY:	B
CLASS:	2
FUNCTION:	Provide isolation between the Safety Injection Pumps discharge and the Reactor Coolant System Hot Legs.
TEST REQUIREMENT:	Exercise valve to the position required to fulfill its function and stroke time every 3 months.
BASIS FOR RELIEF:	Valves have power removed during operation to ensure proper Emergency Core Cooling System flowpath (per Technical Specifications).
ALTERNATE TESTING:	Valves will be exercised and stroke timed during cold shutdown outages.