

COMANCHE PEAK STEAM ELECTRIC STATION UNIT 1 & 2
INSERVICE TESTING PLAN FOR PUMPS AND VALVES
FIRST INTERVAL

REVISION 3

Prepared By: R.B. Mays RB Mays Date: 11-22-93

Approved By: AGW Macklin Date: 11-22-93
Manager, Mechanical Engineering

Approved By: Ch. Henry Date: 11/23/93
Vice President, Nuclear Operations

CPSES/IST Plan

1.3 Dates of Test Interval

3 Implementation of this 1989 Edition IST Plan will be completed on CPSES Unit 1 before that unit is returned to power following the third refueling outage and at that time will supercede in its entirety the original Unit 1 Inservice Testing Plan for Pumps and Valves developed for the first inspection interval. The original Unit 1 IST Plan was implemented per the requirements of the 1986 Edition of Section XI. This 1989 Edition IST Plan constitutes an update of the original Unit 1 IST Plan to a later approved Code edition as allowed by 10CFR50.55a(f)(4)(iv) and as approved by the NRC staff. This IST Plan will remain in effect for Unit 1 for the 120 month interval following the date of the Unit 1 commercial operation (August 13, 1990).

This IST Plan will remain in effect for Unit 2 for the 120 month interval following the date of the Unit 2 commercial operation (August 3, 1993).

2 If, in the future, it is determined to be advantageous to place both Unit 1 and Unit 2 on the same schedule for periodic 120 month IST Plan updates, then the Unit 2 IST program may be updated coincident with the required update to the Unit 1 program. Alternatively, the Unit 1 IST program may be updated coincident with the required update to the Unit 2 program. This would effectively extend the first test interval for Unit 1 beyond the required 120 months and would therefore require a NRC staff approved exemption from regulation 10CFR50.55a(f)(4)(ii) prior to 120 months from the date of the Unit 1 commercial operation.

2 1.4 Approval Status

This IST Plan was submitted to the NRC staff on July 2, 1992 via TXX-92302 requesting:

1. Approval to update the Unit 1 IST program to the requirements of the 1989 Edition of ASME Section XI as described in this IST Plan;
2. Approval of a proposed schedule for phasing in the implementation of this IST Plan for Unit 1; and,
3. Approval of the Relief Requests contained in Appendix A of this IST Plan for use in the testing of Unit 1 and Unit 2.

COMANCHE PEAK STEAM ELECTRIC STATION UNIT 1 & 2
INSERVICE VALVE TESTING PLAN
TABLE 1 - AUXILIARY FEEDWATER
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Valve Number	Flow Diagram (Coord.)	Valve/Actuator Type	Size	Code Class	Category	Function	Safety Func. Pos.	Test Parameters/Schedule				Position Indicator Test	Remarks
								Leak Test	Exercise Test	Fail Safe Test			
1AF-0220	M1-0218-1A (C-4)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A		Safety-Related Air Accumulator to Non-Safety Air Supply Isolation
AF-0221	M1-0218-1A (C-4) M2-0218-2 (C-5)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A		Safety-Related Air Accumulator to Non-Safety Air Supply Isolation
AF-0222	M1-0218-1A (C-4) M2-0218-2 (C-5)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A		Safety-Related Air Accumulator to Non-Safety Air Supply Isolation
3 1AF-0223	M1-0218-1A (A-4)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A		Safety-Related Air Accumulator to Non-Safety Air Supply Isolation
2AF-0224	M2-0218-2 (C-4)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A		Safety-Related Air Accumulator to Non-Safety Air Supply Isolation
1AF-0224	M1-0218-1A (A-4)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A		Safety-Related Air Accumulator to Non-Safety Air Supply Isolation
2AF-0223	M2-0218-2 (C-4)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A		Safety-Related Air Accumulator to Non-Safety Air Supply Isolation
1AF-0226	M1-0218-1A (B-4)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A		Safety-Related Air Accumulator to Non-Safety Air Supply Isolation
2AF-0227	M2-0218-2 (B-4)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A		Safety-Related Air Accumulator to Non-Safety Air Supply Isolation
1AF-0227	M1-0218-1A (B-4)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A		Safety-Related Air Accumulator to Non-Safety Air Supply Isolation
2AF-0226	M2-0218-2 (B-4)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A		Safety-Related Air Accumulator to Non-Safety Air Supply Isolation

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TABLE 1 - AUXILIARY FEEDWATER
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Valve Number	Flow Diagram (Coord.)	Valve/ Actuator Type	Size	Code Class	Cate- gory	Func- tion	Safety Func. Pos.	Test Parameters/Schedule				Remarks
								Leak Test	Exercise Test	Fail Safe Test	Position Indicator Test	
AF-0228	M1-0218-1A (A-4) M2-0218-2 (D/E-4)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A	Safety-Related Air Accumu- lator to Non-Safety Air Supply Isolation
AF-0229	M1-0218-1A (A-4) M2-0218-2 (D/E-4)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A	Safety-Related Air Accumu- lator to Non-Safety Air Supply Isolation
3 1AF-0230	M1-0218-1A (B-4)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A	Safety-Related Air Accumu- lator to Non-Safety Air Supply Isolation
2AF-0231	M2-0218-2 (F-4)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A	Safety-Related Air Accumu- lator to Non-Safety Air Supply Isolation
1AF-0231	M1-0218-1A (B-4)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A	Safety-Related Air Accumu- lator to Non-Safety Air Supply Isolation
2AF-0230	M2-0218-2 (F-4)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A	Safety-Related Air Accumu- lator to Non-Safety Air Supply Isolation
AF-0232	M1-0218-1 (F-2) M2-0218-1 (F-2)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A	Safety-Related Air Accumu- lator to Non-Safety Air Supply Isolation
AF-0233	M1-0218-1 (F-2) M2-0218-1 (F-2)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A	Safety-Related Air Accumu- lator to Non-Safety Air Supply Isolation
AF-0234	M1-0218-1 (F-1) M2-0218-1 (D-1)	CK/SA	1/2	3	A/C	A	C	LT/2YR RR V3	CV/Q RR V2	N/A	N/A	Safety-Related Air Accumu- lator to Non-Safety Air Supply Isolation

COMANCHE PEAK STEAM ELECTRIC STATION UNIT 1 & 2
INSERVICE VALVE TESTING PLAN
TABLE 2 - COMPONENT COOLING WATER
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	Valve Number	Flow Diagram (Coord.)	Valve/ Actuator Type	Size	Code Class	Cate- gory	Func- tion	Safety Func. Pos.	Test Parameters/Schedule				Remarks
									Leak Test	Exercise Test	Fail Safe Test	Position Indicator Test	
	2CC-0374	M2-0231 (D-4)	SCK/SA	2	3	C	A	C	N/A	CV/CS (2)	N/A	N/A	RCP Thermal Barrier Rupture Isolation
3	CC-0611	M1-0231 (F-2) M2-0231-A (C-2)	RE/SA	3/4 X 1	2	C	A	O/C	N/A	SRV/ 10YR	N/A	N/A	Containment Penetration Thermal Relief
3	CC-0618	M1-0231 (F-3) M2-0231-A (C-3)	RE/SA	3/4 X 1	2	C	A	O/C	N/A	SRV/ 10YR	N/A	N/A	Containment Penetration Thermal Relief
	CC-0629	M1-0231 (C-4) M2-0231 (A-6)	CK/SA	2	2	A/C	A	O/C	LTJ/TS	CV/CS (3)	N/A	N/A	Containment Penetration Thermal Relief/Containment Isolation
	CC-0646	M1-0231-A (D-4) M2-0231 (D-4)	SCK/SA	2	3	C	A	C	N/A	CV/CS (2)	N/A	N/A	RCP Thermal Barrier Rupture Isolation
	CC-0657	M1-0231-A (D-3) M2-0231 (D-3)	SCK/SA	2	3	C	A	C	N/A	CV/CS (2)	N/A	N/A	RCP Thermal Barrier Rupture Isolation
	CC-0687	M1-0231-A (G-3) M2-0231 (G-3)	SCK/SA	2	3	C	A	C	N/A	CV/CS (2)	N/A	N/A	RCP Thermal Barrier Rupture Isolation

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TABLE 5 - CONTAINMENT SPRAY
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Valve Number	Flow Diagram (Coord.)	Valve/ Actuator Type	Size	Code Class	Cate- gory	Func- tion	Safety Func. Pos.	Test Parameters/Schedule				Remarks
								Leak Test	Exercise Test	Fail Safe Test	Position Indicator Test	
LV-4754	M1-0232-A (F-5) M2-0232-A (F-5)	DA/MO	3	3	B	A	O/C	N/A	MT/Q	N/A	PIT/ 2YR	Chemical Additive Flowpath/ Chemical Additive Tank Isolation
LV-4755	M1-0232-A (F-5) M2-0232-A (F-5)	DA/MO	3	3	B	A	O/C	N/A	MT/Q	N/A	PIT/ 2YR	Chemical Additive Flowpath/ Chemical Additive Tank Isolation
HV-4758	M1-0232-A (D-2) M2-0232-A (D-2)	GA/MO	16	2	B	A	C	N/A	MT/Q	N/A	PIT/ 2YR	Sump Recirculation Flowpath Boundary
HV-4759	M1-0232-A (E-3) M2-0232-A (E-3)	GA/MO	16	2	B	A	C	N/A	MT/Q	N/A	PIT/ 2YR	Sump Recirculation Flowpath Boundary

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Valve Number	Flow Diagram (Coord.)	Valve/ Actuator Type	Size	Code Class	Category	Function	Safety Func. Pos.	Test Parameters/Schedule				Remarks
								Leak Test	Exercise Test	Fail Safe Test	Position Indicator Test	
8807B	M1-0261 (E-5) M2-0261 (B-6)	GA/MO	6	2	B	A	O/C	N/A	M1/Q	N/A	PIT/ 2YR	ECCS Recirculation Flowpath/Passive Pipe Break Isolation
3 8808A	M1-0262 (C-2) M2-0263-B (E-2)	GA/MO	10	2	B	A	O	N/A	MT/CS (3)	N/A	PIT/ 2YR	ECCS from Accumulators to Cold Legs Flowpath
8808B	M1-0262 (C-3) M2-0263-B (E-3)	GA/MO	10	2	B	A	O	N/A	MT/CS (3)	N/A	PIT/ 2YR	ECCS from Accumulators to Cold Legs Flowpath
8808C	M1-0262 (C-5) M2-0263-B (E-5)	GA/MO	10	2	B	A	O	N/A	MT/CS (3)	N/A	PIT/ 2YR	ECCS from Accumulators to Cold Legs Flowpath
8808D	M1-0262 (C-6) M2-0263-B (E-6)	GA/MO	10	2	B	A	O	N/A	MT/CS (3)	N/A	PIT/ 2YR	ECCS from Accumulators to Cold Legs Flowpath
8809A	M1-0263-B (A-2) M2-0263-A (F-1)	GA/MO	10	2	A	A	O/C	LTJ/TS	MT/CS (3)	N/A	PIT/ 2YR	ECCS to Cold Legs Flowpath/ ECCS to Hot Legs Flowpath Boundary & Passive Pipe Break Isolation & Containment Isolation
8809B	M1-0263-B (A-4) M2-0263-A (F-3)	GA/MO	10	2	A	A	O/C	LTJ/TS	MT/CS (3)	N/A	PIT/ 2YR	ECCS to Cold Legs Flowpath/ ECCS to Hot Legs Flowpath Boundary & Passive Pipe Break Isolation & Containment Isolation

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TABLE 14 - SERVICE WATER
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Valve Number	Flow Diagram (Coord.)	Valve/ Actuator Type	Size	Code Class	Cate- gory	Func- tion	Safety Func. Pos.	Test Parameters/Schedule				Remarks
								Leak Test	Exercise Test	Fail Safe Test	Position Indicator Test	
SW-0016	M1-0233-A (C-3) M2-0233-A (C-3)	CK/SA	10	3	C	A	O	N/A	CV/Q	N/A	N/A	Service Water Flowpath
SW-0017	M1-0233-A (C-5) M2-0233-A (C-5)	CK/SA	10	3	C	A	O	N/A	CV/Q	N/A	N/A	Service Water Flowpath
3 2SW-0084	M2-0233 (F-4)	CK/SA	1	3	C	A	O	N/A	CV/Q	N/A	N/A	Service Water Flowpath
3 2SW-0085	M2-0233 (F-3)	CK/SA	1	3	C	A	O	N/A	CV/Q	N/A	N/A	Service Water Flowpath
SW-0373	M1-0233 (D-3) M2-0233 (B-4)	CK/SA	24	3	C	A	O/C	N/A	CV/Q	N/A	N/A	Service Water Flowpath/ Backflow Prevention (to facilitate pump restart) & Service Water Flowpath Boundary (following pump failure)
SW-0374	M1-0233 (E-3) M2-0233 (D-4)	CK/SA	24	3	C	A	O/C	N/A	CV/Q	N/A	N/A	Service Water Flowpath/ Backflow Prevention (to facilitate pump restart) & Service Water Flowpath Boundary (following pump failure)
3 2SW-0388	M2-0234 (F-1)	CK/SA	10	3	C	A	O	N/A	CVD/RF (1)	N/A	N/A	AFW Pump Emergency Supply Flowpath

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	Valve Number	Flow Diagram (Coord.)	Valve/ Actuator Type	Size	Code Class	Cate- gory	Func- tion	Safety Func. Pos.	Test Parameters/Schedule			Position Indicator Test	Remarks
									Leak Test	Exercise Test	Fail Safe Test		
3	2SW-0389	M2-0234 (F-6)	CK/SA	10	3	C	A	O	N/A	CVD/RF (1)	N/A	N/A	AFW Pump Emergency Supply Flowpath
	HV-428C	M1-0233 (E-2) M2-0233 (D-3)	BF/MO	24	3	B	A	O/C	N/A	MT/Q	N/A	PIT/ 2YR	Service Water Flowpath/ Throttling during Pump Start
	HV-4287	M1-0233 (D-2) M2-0233 (B-3)	BF/MO	24	3	B	A	O/C	N/A	MT/Q	N/A	PIT/ 2YR	Service Water Flowpath/ Throttling during Pump Start
	HV-4393	M1-0234 (F-6) M2-0234 (F-6)	BF/MO	10	3	B	A	O	N/A	MT/Q	N/A	PIT/ 2YR	Service Water Flowpath
	HV-4394	M1-0234 (F-1) M2-0234 (F-1)	BF/MO	10	3	B	A	O	N/A	MT/Q	N/A	PIT/ 2YR	Service Water Flowpath
	HV-4395	M1-0234 (G-6) M2-0234 (G-6)	BF/MO	10	3	B	A	O	N/A	MT/RF (2)	N/A	PIT/ 2YR	AFW Pump Emergency Supply Flowpath

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TABLE 14 - SERVICE WATER

NOTES

- 3 | 1. 2SW-0388 and 2SW-0389, Emergency AFW Supply Check Valves, are disassembled every refueling outage to verify operability. At least one of the two valves is required to open to supply the AFW pumps in the unlikely event that the Class 3 Condensate Storage Tank supply is depleted. Full or part-stroke exercising these valves with flow is not practicable because such testing would necessarily introduce lakewater into the normally dry emergency crosstie line to the Auxiliary Feedwater System and ultimately could contaminate the steam generators.
2. HV-4395 and HV-4396, Emergency AFW Supply Valves, are full-stroke exercised at refueling outages. These valves provide isolation at the Service Water end of the normally dry emergency crosstie line to the Auxiliary Feedwater System. At least one of the two valves is required to be opened to supply the AFW pumps in the unlikely event that the Class 3 Condensate Storage Tank supply is depleted. The valves are provided with motor operators for convenience only and do not respond automatically to any plant condition. In the event that the valves are required to be opened, ample time exists to reposition the valves manually, if required. Full or part-stroke exercising of these valves during plant operation and cold shutdown is not practicable due to the precautions necessary to prevent introducing lakewater into the normally dry emergency AFW crosstie line and possibly into the steam generators. The exercise test for the valves is a lengthy process requiring draining of the respective Service Water train and subsequent refilling. During this time the Service Water train is unavailable to perform its normal safety functions.

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INSERVICE TESTING PLAN FOR PUMPS AND VALVES
FIRST INTERVAL

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