

INSTRUCTIONS FOR INCORPORATION

<u>REMOVE</u>		<u>INSERT</u>	
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TABLE 3.3-2 (Continued)

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION

COMANCHE PEAK - UNIT 1

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FUNCTIONAL UNIT	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION
7. Automatic Initiation of FCS Switchover to Containment Sump (Continued)					
b. RWSI Level--Low-Low Coincident With: Safety Injection	4	2	3	1, 2, 3, 4	26 See Item 1. above for all Safety Injection initiating functions and requirements.
8. Loss of Power (6.9 kV & 480 V Safeguards System Undervoltage)					
a. 6.9 kV Preferred Offsite Source Undervoltage	2/bus	2/bus	1/bus		1 ^f , 2 ^f , 3 ^f , 4 ^f 23a, 23b
b. 6.9 kV Alternate Offsite Source Undervoltage	2/bus	2/bus	1/bus		1, 2, 3, 4 23a, 23c
c. 6.9 kV Bus Undervoltage	2/bus	2/bus	1/bus		1, 2, 3, 4 23a, 23d
d. 6.9 kV Degraded Voltage	2/bus	2/bus	1/bus		1, 2, 3, 4 23e, 23e
e. 480 V Degraded Voltage	2/bus	2/bus	1/bus		1, 2, 3, 4 23a, 23e
f. 480 V Low Grid Undervoltage	2/bus	2/bus	1/bus		1, 2, 3, 4 23a, 23e
9. Control Room Emergency Recirculation					
a. Manual Initiation	2	1	2	All	24

TABLE 3.3-2 (Continued)

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION

FUNCTIONAL UNIT	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION
6. Auxiliary feedwater (Continued)					
2) Start Turbine-Driven Pump	4/stm. gen.	2/stm. gen. in any 2 operating stm. gen.	3/stm. gen. in each operating stm. gen.	1, 2, 3 rd	17
c. Safety Injection Start Motor-Driven Pumps	See Item 1. above for all Safety Injection initiating functions and requirements.				
d. Loss-of-Offsite Power Start Motor-Driven Pumps and Turbine-Driven Pump	1/train	1/train	1/train	1, 2, 3	16
e. Trip of All Main Feedwater Pumps Start Motor-Driven Pumps	2/AFW pump	2/AFW pump	1/AFW pump	1, 2	17 23a
7. Automatic Initiation of ECCS Switchover to Containment Sump					
a. Automatic Actuation Logic and Actuation Relays	2	1	2	1, 2, 3, 4	12

COMANCHE PEAK - UNIT 1

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TABLE 3.3-2 (Continued)

ACTION STATEMENTS (Continued)

- ACTION 17 - With the number of OPERABLE channels one less than the Total Number of Channels, STARTUP and/or POWER OPERATION may proceed provided the following conditions are satisfied:
- The inoperable channel is placed in the tripped condition within 6 hours, and
 - The Minimum Channels OPERABLE requirement is met; however, one additional channel may be bypassed for up to 4 hours for surveillance testing of other channels per Specification 4.3.2.1.
- ACTION 18 - With less than the Minimum Number of Channels OPERABLE, within 1 hour determine by observation of the associated permissive annunciator window(s) that the interlock is in its required state for the existing plant condition, or apply Specification 3.0.3.
- ACTION 19 - With the number of OPERABLE channels one less than the Minimum Channels OPERABLE requirement, be in at least HOT STANDBY within 12 hours and in at least HOT SHUTDOWN within the following 6 hours; however, one channel may be bypassed for up to 2 hours for surveillance testing per Specification 4.3.2.1 provided the other channel is OPERABLE.
- ACTION 20 - With the number of OPERABLE channels one less than the Total Number of Channels, restore the inoperable channel to OPERABLE status within 48 hours or be in at least HOT STANDBY within 6 hours and in at least HOT SHUTDOWN within the following 6 hours.
- ACTION 21 - With the number of OPERABLE channels one less than the Total Number of Channels, restore the inoperable channel to OPERABLE status within 48 hours or declare the associated valve inoperable and take the ACTION required by Specification 3.7.1.5.
- ACTION 22 - With the number of OPERABLE channels one less than the Minimum Channels OPERABLE requirement, be in at least HOT STANDBY within 12 hours; however, one channel may be bypassed for up to 2 hours for surveillance testing per Specification 4.3.2.1 provided the other channel is OPERABLE.
- ACTION 23 - With the number of OPERABLE channels one less than the Total Number of Channels, STARTUP and/or POWER OPERATION may proceed provided the following conditions are satisfied:
- The inoperable channel is placed in the tripped condition within 6 hours, and
 - The Minimum Channels OPERABLE requirement is met.

ACTION 23 -

- a. With the number of OPERABLE channels one less than the Total Number of Channels, operation may proceed provided the inoperable channel is placed in the tripped condition within 6 hours, and the Minimum Channels OPERABLE requirement is met.
- b. With the number of OPERABLE channels less than the Minimum Channels OPERABLE requirement, declare Preferred Offsite Power inoperable, take the Action required by Specification 3.8.1.1, and open the Preferred Offsite Power Breaker within 6 hours.
- c. With the number of OPERABLE channels less than the Minimum Channels OPERABLE requirement, declare Alternate Offsite Power inoperable, take the Action required by Specification 3.8.1.1, and open the Alternate Offsite Power Breaker within 6 hours.
- d. With the number of OPERABLE Channels less than the minimum Channels OPERABLE requirement, declare the appropriate Train A.C. Emergency Buses inoperable and take the Action required by Specification 3.8.3.1 for the buses not fully energized.
- e. With the number of OPERABLE Channels less than the minimum Channels OPERABLE requirement, declare both Offsite Power Sources inoperable, take the Action required by Specification 3.8.1.1, and open both offsite power breakers to the affected bus within 6 hours.

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Comanche Peak - UNIT 1

TABLE 3.3-2 (Continued)

ACTION STATEMENTS (Continued)

- ACTION 24 - with the number of OPERABLE channels one less than the Minimum Channels OPERABLE requirement, restore the inoperable channel to OPERABLE status within 48 hours or initiate and maintain operation of the Control Room Emergency Recirculation System.
- ACTION 25 - with the number of OPERABLE channels on one or more trains less than the Minimum Channels OPERABLE requirement, declare the diesel generator(s) associated with the affected train(s) inoperable and apply the appropriate ACTION for Specification 3.8.1.1.
- ACTION 26 - with the number of OPERABLE channels one less than the Total Number of Channels, STARTUP and/or POWER OPERATION may proceed provided the following conditions are satisfied:
- a. The inoperable channel is placed in a tripped condition within 6 hours, and
 - b. The Minimum Channels OPERABLE requirement is met; however, one additional channel may be bypassed for up to 2 hours for surveillance testing of other channels per Specification 4.3.2.1.