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ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION

<u>FUNCTIONAL UNIT</u>	<u>TOTAL NO. OF CHANNELS</u>	<u>CHANNELS TO TRIP</u>	<u>MINIMUM CHANNELS OPERABLE</u>	<u>APPLICABLE MODES</u>	<u>ACTION</u>
7. AUXILIARY FEEDWATER					
a. Manual	2	1	2	1, 2, 3	3426
b. Steam Generator Lo-Low Water Level	3/SG	2/SG in any SG	2/SG in each SG	1, 2, 3	24
c. Undervoltage on 4.16 kV Buses 11 and 12 (Unit 2: 21 and 22) (Start Turbine Driven Pump only)	2/bus	1/bus on both buses	2 on one bus	1, 2	29
d. Trip of Both Main Feedwater Pumps					
1. Turbine Driven	2	2	2	1, 2	26
2. Motor Driven	2	2	2	1, 2	26
e. Safety Injection	See Functional Unit 1 above for all Safety Injection initiating functions and requirements.				
f. Automatic Actuation Logic and Actuation Relays	2	1	2	1, 2, 3	30

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Action Statements

ACTION 25: With the number of OPERABLE channels one less than the Total Number of Channels, restore the inoperable channel to OPERABLE status within 6 hours or be in at least HOT SHUTDOWN within the next 6 hours. Operation in HOT SHUTDOWN may proceed provided the main steam isolation valves are closed, if not, be in at least INTERMEDIATE SHUTDOWN within the following 6 hours. However, one channel may be bypassed for up to 8 hours for surveillance testing per Specification 4.1, provided the other channel is OPERABLE.

ACTION 26: With the number of OPERABLE channels one less than the Total Number of Channels, ~~restore the inoperable channel to OPERABLE status within 72 hours or be in at least HOT SHUTDOWN within 6 hours~~ declare the associated auxiliary feedwater pump inoperable and take the action required by Specification 3.4.2.

ACTION 27: 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 SHUTDOWN within the next 6 hours and close the associated valve.

ACTION 28: With the number of OPERABLE channels one less than the Total Number of Channels, restore the inoperable channel to OPERABLE status within 6 hours or be in at least HOT SHUTDOWN within the next 6 hours. However, one channel may be bypassed for up to 8 hours for surveillance testing per Specification 4.1, provided the other channel is OPERABLE.

ACTION 29: With the number of OPERABLE channels less than the Total Number of Channels, operation in the applicable MODE may proceed provided the following conditions are satisfied:

- a. The inoperable channel(s) is placed in the tripped condition within 6 hours, and,
- b. The Minimum Channels OPERABLE requirement is met; however, one inoperable channel may be bypassed at a time for up to 4 hours for surveillance testing of other channels per Specification 4.1

Action Statements

ACTION 30: With the number of OPERABLE channels one less than the Total Number of Channels, ~~restore the inoperable channel to OPERABLE status within 72 hours or be in at least HOT SHUTDOWN within the next 6 hours and in at least INTERMEDIATE SHUTDOWN within the following 6 hours~~ declare the associated auxiliary feedwater pump inoperable and take the action required by Specification 3.4.2. However, one channel may be bypassed for up to 8 hours for surveillance testing per Specification 4.1, provided the other channel is OPERABLE.

ACTION 31: With the number of OPERABLE channels one less than the Total Number of Channels, operation in the applicable MODE may proceed provided the inoperable channel is placed in the bypassed condition within 6 hours.

ACTION 32: With the number of OPERABLE channels two less than the Total Number of Channels, operation in the applicable MODE may proceed provided the following conditions are satisfied:

- a. One inoperable channel is placed in the bypassed condition within 6 hours, and,
- b. The other inoperable channel is placed in the tripped condition within 6 hours, and,

c. All of the channels associated with the redundant 4kV Safeguards Bus are operable.

ACTION 33: If the requirements of ACTIONS 30 or 31 cannot be met within the time specified, or with the number of OPERABLE channels three less than the Total Number of Channels, declare the associated diesel generator(s) inoperable and take the ACTION required by Specification 3.7.B.

~~ACTION 34: With the number of OPERABLE channels one less than the Total Number of Channels, restore the inoperable channel to OPERABLE status within 72 hours or be in at least HOT SHUTDOWN within 6 hours and in at least INTERMEDIATE SHUTDOWN within the following 6 hours.~~

Attachment 2

Revised Technical Specification Pages

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