

TABLE 3.4-1

AUXILIARY FEEDWATER FLOW AUTOMATIC INITIATION*

<u>NO.</u>	<u>FUNCTIONAL UNIT</u>	<u>1</u> MINIMUM CHANNELS OPERABLE	<u>2</u> MINIMUM DEGREE OF REDUNDANCY	<u>3</u> OPERATOR ACTION IF CONDITIONS OF COLUMN 1 OR 2 CANNOT BE MET
1.	Steam Gen. Water Level-low-low a. Start Motor-Driven Pumps b. Start Turbine-Driven Pump	2/Steam Generator 2/Steam Generator	1/Steam Generator 1/Steam Generator	Maintain Hot Shutdown Maintain Hot Shutdown
2.	Undervoltage-4KV Busses 1 & 4 Start Turbine-Driven Pump (15 Second Time Delay Pickup)	2 Per Bus	0	Note 1
3.	S.I. Start Motor-Driven Pumps	See Table 3.5-3, Item No.1		
4.	Station Blackout Start Motor-Driven Pumps (40 Second Time Delay Prior to Starting MD AFW Pumps on Black- out Sequence)	2 Per Bus	0	Note 2
5.	Trip of Main Feedwater Pumps Start Motor-Driven Pumps	1/Pump	0	Note 2

* This table is applicable whenever the RCS is $>350^{\circ}\text{F}$ except Item 5. Item 5 is applicable only when the RCS is at normal operating temperature and the reactor is critical.

Note 1: 4KV Busses 1, 2, and 4 each have two undervoltage relays. One relay on each of the three busses provides an input to the reactor trip logic. Both relays on Busses 1 and 4 provide inputs to the SD AFW pump start logic. If the undervoltage relay on Busses 1 or 4 that provides the input to the reactor trip logic fails, follow the requirements of Table 3.5-2 Item 14 in addition to the following. If either 4KV undervoltage relay on Busses 1 or 4 fails, within 4 hours insert the equivalent of an undervoltage signal from the affected relay in the SD AFW pump start circuit and repair the affected relay within 7 days. If the affected relay is not repaired in the 7 days, then commence a normal plant shutdown to hot standby.

Note 2: Restore the inoperable channel to operable status within 48 hours. If the inoperable channel is not restored to an operable status within 48 hours, then commence a normal plant shutdown and cooldown to $\leq 350^{\circ}\text{F}$.

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