

Table 10.4.9-4—Emergency Feedwater System Indicating, Alarm, and Actuation Control Devices

Device	Indication (CR)	Indication (Local)	Alarm (CR)	Actuation
EFW pool level wide range	X	X	X	
EFW pool level narrow range	X		X	(H) Isolate DI Water
EFW pool temperature	X		X	
EFW pump suction temperature	X			
EFW pump discharge pipe temperature	X		X	
EFW pump suction pressure	X			(L) Pump trip ¹
EFW pump head	X			
EFW pump discharge pressure	X	X		(L) Pump trip ¹
EFW LCV pressure drop	X			
EFW pump flow	X			FCV Control
EFW flow to SG	X			
EFW FCV valve position	X			FCV Control
EFW LCV valve position	X			SG Level Control
EFW pump discharge manual valve position switches	X			
EFW supply header valve position switches	X			
EFW discharge header valve position switches	X			
EFW pump bearing temperature	X		X	(H) Pump trip ¹
EFW pump motor winding temperature	X		X	(H) Pump trip ¹
EFW pump motor current	X			
EFW pump vibration	X			

Note:

1. Pump will not trip following a safety actuation signal.

Table 10.4.9-5—EFWS Unreliability Results

Initiating Event	Secondary Cooling Systems Credited	Probability that the Credited Systems Fail to Provide Adequate Steam Generator Flow
General Transient	MFW, SSS, and EFWS	3.55E-07
Loss of Main Feedwater	EFWS	3.89E-05
Loss of Main Feedwater	EFWS and SSS	1.14E-05
Loss of Offsite Power	EFWS (without power recovery)	1.01E-04
Loss of Offsite Power	EFWS (offsite power recovery considered)	7.15E-05
Loss of Offsite Power	EFWS and SSS (offsite power recovery considered)	5.68E-05

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