ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

TECHNICAL REVIEW

PORC REVIEW DATE 2-7-90

Joseph A. Widay
PLANT SUPERINTENDENT

2-23-90
EFFECTIVE DATE

QA X NON-QA _____ CATEGORY 1.0

REVIEWED BY: _____

GINNA STATION
START:
DATE _____
TIME _____
COMPLETED:
DATE _____
TIME: _____

A. PURPOSE - This procedure provides the actions necessary to respond to a loss of a circ water pump while the plant is at power.

B. ENTRY CONDITIONS/SYMPTOMS

1. SYMPTOMS - The symptoms of LOSS OF A CIRC WATER PUMP are;

   a. Annunciator J-16 MOTOR OFF CW-EH, EMERG OIL, SEAL OIL BU alarm, or

   b. Annunciator G-8 4 KV MOTOR OVERLOAD alarm.

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED

* *

CAUTION

IF, AT ANY TIME DURING THIS PROCEDURE, A REACTOR TRIP OR SI OCCURS, E-0, REACTOR TRIP OR SAFETY INJECTION, SHALL BE PERFORMED.

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NOTE: Step 1 is an Immediate Action Step.

1	Verify One Circ Water Pump - RUNNING	IF power greater than 8%, THEN verify Rx trip and go to E-0, REACTOR TRIP or SAFETY INJECTION. IF power LESS THAN 8%, THEN verify turbine trip and go to AP-TURB.1, TURBINE TRIP WITHOUT RX TRIP REQUIRED.

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED

* *

CAUTION

TURBINE LOAD DECREASE SHOULD BE COMPLETED AS QUICKLY AS POSSIBLE CONSISTANT WITH MINIMIZING THE AMOUNT OF STEAM DUMP OPERATION.

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2	Place - EH CONTROL IN MANUAL AND REDUCE TURBINE LOAD TO LESS THAN 50%	IF turbine load can NOT be reduced to LESS THAN 50%, THEN trip the reactor and go to E-0, REACTOR TRIP or SAFETY INJECTION.
3	Check - ROD CONTROL IN AUTO AND STEPPING IN TO CONTROL TAVG	Manually insert control rods to control Tavg.
4	Check S/G Levels:	
	a. S/G levels - GREATER THAN 30% AND STABLE OR INCREASING	a. Restore S/G Level 1) Decrease turbine load and minimize steam dump as necessary. 2) IF MFP suction press and flow are low, THEN: o Verify standby condensate pump starts. o Verify condensate bypass valve opens. o Close trim valve to control pressure.
	b. S/G levels - LESS THAN 67% OR FEEDWATER ISOLATED	b. IF necessary, take manual control of the MFW regulation valves.

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
5	Verify Tavg Trending To Tref: o Auto rod control - CONTROLLING TAVG	o Manually insert/withdraw control rods as necessary to control Tavg.
6	Verify Condenser Vacuum - GREATER THAN 25 INCHES Hg AND STABLE OR INCREASING	IF condenser vacuum less than 25 inches Hg OR decreasing, THEN refer to AP-TURB.4, LOSS OF CONDENSER VACUUM.
7	Verify Proper Rod Control Bank Positioning: a. All bank insertion limit alarm - EXTINGUISHED	a. Borate to clear insertion limit alarms. (Refer to AP-CVCS.2, IMMEDIATE BORATION.)
	b. ΔI within ± 5% of target value	b. Borate/dilute to restore ΔI to within limits.

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
8	Establish Whether Tripped CW Pump Will Restart:	
	a. Have AO check the CW pump and CW pump breaker for obvious damage prior to CW pump restart - NO PUMP OR BREAKER DAMAGE OBSERVED	a. IF damage is evident, THEN: 1) Do NOT restart CW pump. 2) Notify electricians. 3) Adjust waterbox outlet valves to balance condenser cooling. (Refer to T-8A, Step 5.6, STARTUP AND SHUTDOWN "A" AND "B" CIRCULATING WATER PUMPS). 4) Go to Step 9.
	b. Reset tripped CW pump start/stop switch	
	c. Restart tripped CW pump - CW PUMP RESTARTED	c. IF CW pump will NOT restart, THEN: 1) Notify electricians. 2) Adjust waterbox outlet valves to balance condenser cooling. (Refer to T-8A, Step 5.6, STARTUP AND SHUTDOWN "A" AND "B" CIRCULATING WATER PUMPS.)
9	Establish - APPROPRIATE OPERATING CONDITIONS (Refer to O-5.1, LOAD REDUCTION)	

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