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ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

TECHNICAL REVIEW

PORC REVIEW DATE 5/1/91

Joseph A. Widay
PLANT SUPERINTENDENT

5/3/91
EFFECTIVE DATE

CATEGORY 1.0

REVIEWED BY: _____

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A. PURPOSE - This procedure provides actions to respond to a loss of #12A or 12B SS Transformer from HSD or at power conditions.

B. ENTRY CONDITIONS/SYMPTOMS

1. ENTRY CONDITIONS - This procedure may be entered from:

a. AP-TURB.1, when busses 12A and/or 12b are found to be deenergized.

2. SYMPTOMS - The symptoms of loss of #12A or 12B SS Transformer are:

a. Annunciator L-20, 12A XFMR OR 12A BUS TROUBLE, lit, or

b. Annunciator L-28, 12B XFMR OR 12B BUS TROUBLE, lit.



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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

CAUTION

- o IF AT ANY TIME DURING THIS PROCEDURE A REACTOR TRIP OR SI IS REQUIRED, E-O, REACTOR TRIP OR SAFETY INJECTION, SHALL BE PERFORMED.
- o IF A TURBINE RUNBACK HAS OCCURRED, THEN AP-TURB.2, AUTOMATIC TURBINE RUNBACK, SHOULD BE PERFORMED.

1 Verify Emergency D/G Associated With Dead Bus - RUNNING

- o Bus 12A - D/G A
- o Bus 12B - D/G B

IF appropriate emergency D/G(s) NOT running, THEN attempt to start manually. (Refer to ER-D/G.1, RESTORATION OF A FAILED D/G.)

2 Verify Both Trains Of AC Emergency Busses Energized To At Least 420 VOLTS:

- o Bus 14 and bus 18
- o Bus 16 and bus 17

Try to restore power to all AC emergency busses. IF power can NOT be restored to at least one train, THEN go to ECA-0.0, LOSS OF ALL AC POWER, Step 1.

3 Verify Service Water System Operation:

- a. SW pumps - AT LEAST ONE RUNNING IN EACH LOOP
- b. SW header pressure - GREATER THAN 40 PSIG IN EACH LOOP

- a. Manually start pumps as necessary. (258 kw each)
- b. Manually align valves as necessary.



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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

4 Verify CCW Pump Operation:

- a. At least one CCW pump - RUNNING
- b. Annunciator A-22, CCW PUMP DISCHARGE LO PRESS 60 PSIG - EXTINGUISHED

- a. Start one CCW pump (124 kw).
- b. Start second CCW pump (124 kw).

5 Verify Bus 11A And 11B Normal Feed Breakers - CLOSED

IF turbine trip has occurred from power less than 50%, THEN go to AP-TURB.1, TURBINE TRIP WITHOUT RX TRIP REQUIRED, Step 1.

IF turbine stop valves open, THEN trip turbine and go to AP-TURB.1, TURBINE TRIP WITHOUT RX TRIP REQUIRED, Step 1.

IF turbine NOT previously latched, THEN perform the following:

- a. Ensure reactor power less than 8%.
- b. Go to Step 16.

6 Check S/G Level Control

- o S/G level - TRENDING TO PROGRAM
- o MFW regulating valves - CONTROLLING IN AUTO

Place MFW regulating valves in MANUAL and control feed flow as required.



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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

NOTE: When restarting equipment for recovery, it is preferable to start equipment on busses being supplied from offsite power, if possible.

7 Establish Normal Charging Flow:

- a. Verify 2 charging pumps - RUNNING
- b. Adjust charging pump speed and HCV-142 as necessary to restore PRZR level and labyrinth seal D/P

- a. Start charging pumps as necessary (75 kw each).

8 Check CVCS Letdown:

- a. Normal letdown in service:
 - o Letdown flow - APPROXIMATELY 40 GPM
 - o Letdown flow - STABLE
 - o Letdown pressure - APPROXIMATELY 250 PSIG

- a. Perform the following:
 - 1) Place AOV-427 switch to CLOSE
 - 2) Place letdown orifice isolation valves to CLOSE.
 - 3) Go to Step 9.

- b. Go to Step 11

9 Check PRZR Level - GREATER THAN 13%

Continue with Step 12. WHEN PRZR level greater than 13%, THEN do Steps 10 and 11.



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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

10 Establish Normal Letdown:

- a. Establish charging line flow to REGEN Hx - GREATER THAN 20 GPM.
- b. Verify the following switches in CLOSE:
 - Letdown orifice valve (AOV-200A, AOV-200B, and AOV-202)
 - Loop B cold leg to REGEN Hx AOV-427
- c. Place letdown controllers in MANUAL at 25% open.
 - TCV-130
 - PCV-135
- d. Open AOV-427.
- e. Open letdown orifice valves as necessary.
- f. Place TCV-130 in AUTO at 105°F.
- g. Place PCV-135 in AUTO at 250 psig.
- h. Adjust charging pump speed and HCV-142 as necessary.

Establish Excess Letdown:

- a. Place excess letdown divert valve, AOV-312, to NORMAL
- b. Ensure CCW from excess letdown open, AOV-745
- c. Ensure RCP seal return isolation valve open, MOV-313
- d. Open excess letdown isolation valve, AOV-310
- e. Slowly open HCV-123 to maintain excess letdown temperature less than 195°F and pressure less than 100 psig



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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

CAUTION

- o OBSERVE D/G LOADING LIMITS OF 2300 KW FOR 1/2 HOUR, 2250 KW FOR 2 HOURS, AND 1950 KW FOR CONTINUOUS SERVICE.
- o ANYTIME EMERGENCY D/GS ARE THE ONLY SOURCE OF AC POWER TO THE PLANT, PERSONNEL SHOULD BE ASSIGNED TO MAINTAIN SURVEILLANCE OF THE D/GS.

11 Verify PRZR Heaters Restored:

- o PRZR proportional heater breaker - CLOSED
- o PRZR backup heater breaker - RESET/IN AUTO

Perform the following:

- a. Verify adequate D/G capacity available for PRZR heaters (400 kw each bank).
- b. Reset and close PRZR proportional heater breaker if necessary.
- c. Reset PRZR backup heater breaker and return to AUTO if necessary.

IF on natural circulation and at least 100 kw of PRZR heaters can NOT be restored within 6 hours, THEN be on RHR within an additional 6 hours. (Refer to Technical Specification 3.1.1.5)



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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

12 Establish Stable Plant Conditions:

- a. Reset NIS rod drop rod stop signals (at NIS racks)
- b. Tavg - TRENDING TO TREF
- c. PRZR pressure - TRENDING TO 2235 PSIG
- d. PRZR level - TRENDING TO PROGRAM

- b. Insert control rods or, if necessary, decrease turbine load to match Tavg to Tref.
- c. Verify proper operation of PRZR heaters and spray or take manual control of PC-431K.
- d. Verify proper operation of charging pump speed controllers or take manual control of speed controllers to control PRZR level.

13 Restore Normal Alignment:

- a. Verify at least 2 CNMT recirc fans - RUNNING
- b. Verify IA available:
 - o Annunciator H-8, INSTRUMENT AIR LO PRESS - EXTINGUISHED
 - o Annunciator H-16, INSTRUMENT AIR COMPRESSOR - EXTINGUISHED

- a. Start CNMT recirc fans as necessary (240 kw each).
- b. Dispatch A0 to restore IA compressors as necessary (75 kw each).

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

NOTE: Power operation may continue if conditions required by Tech Spec section 3.7 are met.

14 Establish Normal Operation:

- a. Verify circuit 76702 or 75112 - AVAILABLE
- b. Restore power to 12A and/or 12B bus (refer to ER-ELEC.1, RESTORATION OF OFFSITE POWER)

15 Establish Normal Plant Conditions:

- a. Verify EH control in OPER PAN and IMP IN
- b. Verify steam dump controller, HC-484, in AUTO at 1005 psig
- c. Verify annunciator G-15, STEAM DUMP ARMED - EXTINGUISHED
- d. Verify charging pump speed control in AUTO
- e. Verify Rod Control Selector Switch in AUTO
- f. Go to Step 30

- a. Continue to monitor plant conditions and go to Step 15.

- a. IF conditions requiring runback have cleared, THEN place EH in OPER PAN and IMP IN.

- c. IF Tavg within 6°F of Tref, THEN perform the following:

- 1) Ensure steam dump valves closed.
- 2) Reset steam dump.

- d. Place charging pump speed control in AUTO if desired.
- e. Place Rod Control Selector Switch in AUTO if desired.



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ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

- NOTE:
- o Following RCP trip, a decrease in idle S/G level may occur. Also, swell may be anticipated in the operating S/G due to load pickup from the idle loop.
 - o Temperatures in the loop with the stopped RCP will not be indicative of true Tavg and ΔT values.
 - o Attempts to restore offsite power should continue. (Refer to ER-ELEC.1, RESTORATION OF OFFSITE POWER.)

16 Check S/G Feed Status:

a. Any main feed pump - RUNNING

a. Perform the following:

- 1) Verify MDAFW pumps running as necessary.
- 2) Verify TDAFW pump running if necessary.
- 3) Ensure Rx power less than 2%.

b. Verify S/G levels - TRENDING TO 39%

b. Control feed flow as necessary to restore S/G level.

17 Check TDAFW Pump Status:

a. TDAFW pump - RUNNING

a. Go to Step 18.

b. Check S/G status

b. Go to Step 18.

- o At least one S/G level - GREATER THAN 17%

-OR-

- o Both MDAFW pumps - OPERABLE

c. Pull stop TDAFW pump steam supply valves

- MOV-3504A
- MOV-3505A

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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

18 Check Any RCP - RUNNING

Verify natural circulation. (Refer to Attachment NC.). IF natural circulation can NOT be verified, THEN increase dumping steam.



1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. This includes the use of surveys, interviews, and focus groups to gather insights from stakeholders.

3. The third part of the document describes the process of identifying and addressing the root causes of problems. This involves conducting a thorough analysis of the data collected and identifying the underlying factors that contribute to the issues.

4. The fourth part of the document discusses the implementation of corrective actions and the monitoring of their effectiveness. It highlights the need for ongoing communication and collaboration between all levels of the organization to ensure that the changes are sustained over time.

5. The fifth part of the document concludes by summarizing the key findings and recommendations. It stresses the importance of continuous improvement and the need to regularly review and update the organization's processes and policies.

| STEP | ACTION/EXPECTED RESPONSE | RESPONSE NOT OBTAINED |
|------|--------------------------|-----------------------|
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CAUTION

- o OBSERVE D/G LOADING LIMITS OF 2300 KW FOR 1/2 HOUR, 2250 KW FOR 2 HOURS, AND 1950 KW FOR CONTINUOUS SERVICE.
- o ANYTIME EMERGENCY D/GS ARE THE ONLY SOURCE OF AC POWER TO THE PLANT, PERSONNEL SHOULD BE ASSIGNED TO MAINTAIN SURVEILLANCE OF THE D/GS.

19 Restore Non-Safeguards Busses As Follows:

- a. Close non-safeguards bus tie breakers for affected bus(es):
 - Bus 13 to bus 14 tie
 - Bus 15 to bus 16 tie
- b. Before energizing affected MCC(s) place the associated pumps in PULL STOP:
 - o MCC A
 - EH pump A
 - Turning gear oil pump
 - HP seal oil backup pump
 - o MCCB
 - EH pump B
- c. Restore power to affected MCC(s):
 - A from bus 13
 - B from bus 15
 - E from bus 15
 - F from bus 15
- d. WHEN bus 15 restored, THEN reset control room lighting if necessary

- a. IF breaker can NOT be closed, THEN notify electricians.
- c. IF any breaker can NOT be closed, THEN notify electricians.



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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

20 Establish IA:

- a. Verify 2 IA compressors - RUNNING
- b. Check IA supply
 - o Pressure - GREATER THAN 60 PSIG
 - o Pressure - STABLE OR INCREASING

- a. Dispatch an AO to reset and start IA compressors as D/G loading permits (75 kw each).
- b. IF IA can NOT be established, THEN refer to AP-IA.1, LOSS OF INSTRUMENT AIR.

21 Verify Instrument Bus 1D - ENERGIZED

Energize MCC B. IF MCC B. NOT available, THEN perform the following:

- a. Verify MCC A energized.
- b. Place instrument bus D on maintenance supply.

22 Establish Normal Charging Flow:

- a. Verify 2 charging pumps - RUNNING
- b. Adjust charging pump speed and HCV-142 as necessary to restore PRZR level and labyrinth seal D/P

- a. Start charging pumps as necessary (75 kw each).



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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

23 Check CVCS Letdown:

a. Normal letdown in service:

- o Letdown flow - APPROXIMATELY 40 GPM
- o Letdown flow - STABLE
- o Letdown pressure - APPROXIMATELY 250 PSIG

b. Go to Step 26

24 Check PRZR Level - GREATER THAN 13%

a. Perform the following:

- 1) Place AOV-427 switch to CLOSE
- 2) Place letdown orifice isolation valves to CLOSE.
- 3) Go to Step 24.

Continue with Step 27. WHEN PRZR level greater than 13%, THEN do Steps 25 and 26.



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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

25 Establish Normal Letdown:

- a. Establish charging line flow to REGEN Hx - GREATER THAN 20 GPM.
- b. Verify the following switches in CLOSE:
 - Letdown orifice valve (AOV-200A, AOV-200B, and AOV-202)
 - Loop B cold leg to REGEN Hx AOV-427
- c. Place letdown controllers in MANUAL at 25% open.
 - TCV-130
 - PCV-135
- d. Open AOV-427.
- e. Open letdown orifice valves as necessary.
- f. Place TCV-130 in AUTO at 105°F.
- g. Place PCV-135 in AUTO at 250 psig.
- h. Adjust charging pump speed and HCV-142 as necessary.

Establish Excess Letdown:

- a. Place excess letdown divert valve, AOV-312, to NORMAL
- b. Ensure CCW from excess letdown open, AOV-745
- c. Ensure RCP seal return isolation valve open, MOV-313
- d. Open excess letdown isolation valve, AOV-310
- e. Slowly open HCV-123 to maintain excess letdown temperature less than 195°F and pressure less than 100 psig



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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

CAUTION

- o OBSERVE D/G LOADING LIMITS OF 2300 KW FOR 1/2 HOUR, 2250 KW FOR 2 HOURS, AND 1950 KW FOR CONTINUOUS SERVICE.
- o ANYTIME EMERGENCY D/GS ARE THE ONLY SOURCE OF AC POWER TO THE PLANT, PERSONNEL SHOULD BE ASSIGNED TO MAINTAIN SURVEILLANCE OF THE D/GS.

26 Verify PRZR Heaters Restored:

- o PRZR proportional heater breaker - CLOSED
- o PRZR backup heater breaker - RESET/IN AUTO

Perform the following:

- a. Verify adequate D/G capacity available for PRZR heaters (400 kw each bank).
- b. Reset and close PRZR proportional heater breaker if necessary.
- c. Reset PRZR backup heater breaker and return to AUTO if necessary.

IF on natural circulation and at least 100 kw of PRZR heaters can NOT be restored within 6 hours, THEN be on RHR within an additional 6 hours. (Refer to Technical Specification 3.1.1.5)



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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

27 Establish Stable Plant Conditions:

- a. Tav_g - TRENDING TO TREF
- b. PRZR pressure - TRENDING TO 2235 PSIG
- c. PRZR level - TRENDING TO PROGRAM

- a. Insert control rods or, if necessary, decrease turbine load to match Tav_g to Tref.
- b. Verify proper operation of PRZR heaters and spray or take manual control of PC-431K.
- c. Verify proper operation of charging pump speed controllers or take manual control of speed controllers to control PRZR level.

28 Verify Both S/G Levels - GREATER THAN 25%

Control feed flow as necessary to restore both S/G levels greater than 25%.



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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

CAUTION

OBSERVE D/G LOADING LIMITS OF 2300 KW FOR 1/2 HOUR, 2250 KW FOR 2 HOURS, AND 1950 KW FOR CONTINUOUS SERVICE.

NOTE: Evaluate conditions to determine if turbine should be placed on turning gear.

29 Establish Normal Shutdown Alignment:

a. Start turning gear oil pump (42 kw) and verify pump - RUNNING

b. Stop DC emergency oil pump

c. Verify adequate Rx head cooling:

1) Verify at least one control rod shroud fan - RUNNING

2) Verify one Rx compartment cooling fan - RUNNING

d. Dispatch A0 to start waste gas compressor as necessary

e. Start main transformer cooling fans as necessary

f. Start CNMT recirc fans as necessary (240 kw each)

g. Verify radiation monitoring system operating as required

h. Verify motor fire pump breaker - CLOSED

a. Verify DC emergency oil pump running and break vacuum to accelerate turbine coastdown. Continue with Step 29c. WHEN shaft stops, THEN stop DC emergency oil pump.

1) Manually start one fan as power supply permits (45 kw).

2) Manually start one fan as power supply permits (23 kw).

g. Reset radiation monitors and restart ventilation systems as necessary.

h. Close motor fire pump breaker.

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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

30 WHEN Conditions Permit, THEN
Restore Offsite Power (Refer
to ER-ELEC.1, RESTORATION OF
OFFSITE POWER)

31 Notify Higher Supervision

NOTE: Refer to 0-9.3, NRC IMMEDIATE NOTIFICATION, for reporting
requirements.

32 Return To Procedure Or
Guidance In Effect

-END-



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AP-ELEC. 1 APPENDIX LIST

| <u>TITLE</u> | <u>PAGES</u> |
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| 1) FIGURE MIN SUBCOOLING | 1 |
| 2) ATTACHMENT NC | 1 |



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FIGURE MIN SUBCOOLING

NOTE: Subcooling Margin = Saturation Temperature From Figure Below [-] Core Exit T/C Indication



