ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

TECHNICAL REVIEW

PORC REVIEW DATE 2-8-95

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PLANT SUPERINTENDENT

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EFFECTIVE DATE

CATEGORY 1.0

REVIEWED BY: _____

A. PURPOSE - This procedure provides actions to identify and isolate a LOCA outside containment.

B. ENTRY CONDITIONS/SYMPTOMS

1. ENTRY CONDITIONS - This procedure is entered from:

a. E-0, REACTOR TRIP OR SAFETY INJECTION, and E-1, LOSS OF REACTOR OR SECONDARY COOLANT, on abnormal radiation in the auxiliary building due to a loss of RCS inventory outside containment.

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

NOTE: Adverse CNMT values should be used whenever CNMT pressure is greater than 4 psig or CNMT radiation is greater than $10^{+05}$ R/hr.

1 **Verify Proper RHR Normal Cooling Valve Alignment:**

- o MOV-700 and MOV-701, RHR suction valves from A hot leg - CLOSED
- o MOV-720 and MOV-721, RHR discharge valves to B cold leg - CLOSED

Manually close valves.

IF neither MOV-700 nor MOV-701 can be closed, THEN perform the following:

a. Stop any running RHR pumps.

b. Close the following valves:

- MOV-856, RHR suction from RWST
- MOV-704A and MOV-704B, RHR pump suction cross tie valves

IF neither MOV-720 nor MOV-721 can be closed, THEN:

a. Stop any running RHR pump.

b. Close the following valves:

- HCV-624 and HCV-625, RHR Hx outlet valves
- HCV-626, RHR Hx bypass valve, if open

| STEP | ACTION/EXPECTED RESPONSE | RESPONSE NOT OBTAINED |
|---|---|---|
| 2 | Check CVCS Valve Alignment: | |
| | a. Verify the following valves - CLOSED<br>• AOV-310, Excess letdown isolation valve<br>• AOV-296, Auxiliary spray valve<br>• AOV-392A, Charging line isolation valve to loop B hot leg | a. Manually close valves.<br>IF AOV-310 can NOT be closed, THEN ensure seal return isolation valve, MOV-313, closed.<br>IF AOV-296 or AOV-392A can NOT be closed, THEN perform the following:<br>1) Manually close HCV-142 charging line flow control valve.<br>2) Dispatch AO with RWST area key to locally close V-384A. |
| | b. Verify the following CI valves - CLOSED<br>• MOV-313, seal return isolation valve<br>• AOV-371, letdown isolation valve | b. Manually close valves.<br>IF either valve can NOT be closed, THEN dispatch AO to locally isolate flowpath as necessary.<br>o Close V-315A, seal return filter inlet, to isolate MOV-313 (reach rod outside SWRF room).<br>o Close V-204A, NRHX inlet, to isolate AOV-371 (inside NRHX room). |

| STEP | ACTION/EXPECTED RESPONSE | RESPONSE NOT OBTAINED |
|---|---|---|
| 3 | Check Safeguards Valves For Backflow: | |
| | a. Close RHR pump discharge to Rx vessel deluge (MOV-852A) and check for RCS pressure increase | a. Perform the following:<br>1) Open MOV-852A.<br>2) Close RHR pump discharge to Rx vessel deluge (MOV-852B).<br>3) Check for RCS pressure increase. IF NOT, THEN open MOV-852B and go to Step 3c. |
| | b. Go to Step 7. | |
| | c. Dispatch AO with locked valve key to locally close breakers for SI pump discharge to cold leg isolation valves<br>• MOV-878B, MCC D position 8C<br>• MOV-878D, MCC D position 8F | |
| | d. Close SI pump discharge to cold leg B (MOV-878B) and check for pressure increase | d. Perform the following:<br>1) Open MOV-878B.<br>2) Close SI pump discharge to cold leg A (MOV-878D).<br>3) Check for RCS pressure increase. IF NOT, THEN open MOV-878D AND go to Step 4. |
| | e. Open breakers for MOV-878B and MOV-878D | |
| | f. Go to Step 7. | |

| STEP | ACTION/EXPECTED RESPONSE | RESPONSE NOT OBTAINED |
|---|---|---|
| 4 | Check Charging Valves For Backflow: | |
| | a. Check charging pumps - ALL PUMPS OFF | a. Go to Step 5. |
| | b. Close charging line isolation valve to loop B cold, AOV-294 | b. Perform the following:<br>1) Manually close HCV-142, charging line flow control valve.<br>2) Dispatch AO with RWST area key to locally close V-384A. |
| | c. Check RCS pressure - INCREASING | c. Restore charging line as necessary and go to Step 5. |
| | d. Go to Step 7 | |
| 5 | RCP Seal Injection Flow To Each RCP - GREATER THAN 6 GPM | IF CCW is being supplied to either RCP thermal barrier, THEN perform the following:<br>a. Ensure at least one charging pump running.<br>b. Increase charging pump speed and adjust charging line flow control valve (HCV-142) as necessary to establish required seal injection flow.<br>c. Go to Step 6.<br>IF neither CCW pump is running, THEN perform the following:<br>a. Close RCP CCW return valves.<br>• MOV-759A<br>• MOV-759B<br>b. Go to Step 7. |

| STEP | ACTION/EXPECTED RESPONSE | RESPONSE NOT OBTAINED |
|---|---|---|
| 6 | **Check RCP Thermal Barrier:** | |
| | a. Check the following for indications of CCW System in leakage<br><br>o CCW Surge Tank Level, LI-618 - INCREASING<br><br>-OR-<br><br>o R-17 - ON ALARM OR INCREASING | a. Go to Step 7. |
| | b. Close RCP A thermal barrier return valve, AOV-754A | b. Close RCP A CCW return valve, MOV-759A. |
| | c. Check RCS pressure - INCREASING | c. Restore RCP A thermal barrier cooling, if desired, and go to Step 6e. |
| | d. Go to Step 7. | |
| | e. Close RCP B thermal barrier return valve, AOV-754B | e. Close RCP B CCW return valve, MOV-759B. |
| | f. Check RCS pressure - INCREASING | f. Restore RCP B thermal barrier cooling if desired. |
| 7 | **Check If Break Is Isolated:** | |
| | a. RCS pressure - INCREASING | a. Go to ECA-1.1, LOSS OF EMERGENCY COOLANT RECIRCULATION, Step 1. |
| | b. Go to E-1, LOSS OF REACTOR OR SECONDARY COOLANT, Step 1 | |

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