

Jersey Central
Power & Light Company



Subject: Reactor Building Closed Cooling
Water System Failure

Procedure No.

507.1

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Authorized By

Station Superintendent

Approval/Concurrence

John P. Sullivan for JTCARROLL JR.

Project:

Oyster Creek Nuclear Generating Station

LIST OF EFFECTIVE PAGES

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**This procedure replaces Section 507.1 of the old 507 procedure per 507 Rev. 2.

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1.0 Purpose:

To provide a procedure for operator action should the Reactor Building Closed Cooling Water System (RBCOWS) fail due to a leak or a pump failure.

2.0 Indications to the Operator:

2.1 Failure of the RBCOWS may be indicated by one or more of the following alarms or indications:

2.1.1 Panel 7F Annunciator "N"

2.1.1.1 RBCOW Pump 1-1 Trip

2.1.1.2 RBCOW Pump 1-2 Trip

2.1.2 Panel 7F Annunciator "M"

2.1.2.1 RBCOW Surge Tank Hi-Low Level

2.1.3 Panel 13R

2.1.3.1 Reactor Building Closed Cooling Water Discharge Pressure Indicator

2.2 Other alarms associated with equipment cooled by RBCOW may be received.

3.0 Automatic Actions:

Not applicable.

4.0 Immediate Operator Actions:

4.1 RBCOW Pump Failure (single pump operation)

4.1.1 If one RBCOW pump is running and it fails, attempt to start the standby pump if available. If the standby RBCOW pump fails or is unavailable, attempt to restart the first pump.

4.1.2 If one RBCOW pump cannot be started within (1) minute from the time RBCOW flow was lost, perform the following action:

4.1.2.1 Scram the reactor.

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4.1.2.2 Trip the operating recirculation pumps. Insure the suction and discharge valves remain open until the pump start procedure is implemented.

4.1.2.3 Monitor the following equipment cooled by RBCOW and remove from service if operation will result in equipment damage:

1. Radwaste Concentrator Condenser and Cooler, Radwaste Recycle Cooler (if in service).
2. Cleanup System (if in service).

4.2 RBCOW Leak

4.2.1 Make-up to RBCOW surge tank.

4.2.2 Locate the leak and isolate it under the direction of the Group Shift Supervisor.

4.2.3 If the leak is so large that level in the RBCOW surge tank cannot be maintained and the leak cannot be isolated or if a RCP CLG Water Low Flow Alarm initiates for more than one recirculation pump, perform the following actions:

4.2.3.1 Scram the reactor.

4.2.3.2 Trip the operating recirculation pumps. Insure the suction and discharge valves remain open until the pump start procedure is implemented.

4.2.3.3 Monitor equipment cooled by RBCOW and remove from service if continued operation will result in equipment damage.

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4.3 RBOCW Pump Failure (two pump operation)

4.3.1 If two pumps are in operation and both are required to satisfy the system heat load, and one of the pumps trips, perform the following actions:

4.3.1.1 Attempt to restart the tripped pump.

4.3.1.2 If restart cannot be effected, reduce the system heat load by reducing the RBOCW flow to, or removing from service, the following equipment under the direction of the Group Shift Supervisor:

4.3.1.2.1 Shut Down Cooling System (if in service)

4.3.1.2.2 Cleanup System (if in service)

4.3.1.2.3 Fuel Pool Cooling (if in service)

4.3.1.2.4 Radwaste Recycle Cooler (if in service)

5.0 Subsequent Operator Actions:

5.1 If reactor scram was required, refer to Emergency Procedure 532, "Automatic or Manual Reactor Scram."

5.2 If more than one recirculation pump is tripped, place the reactor in the cold shutdown condition within 24 hours.

5.3 Notify Supervisor - Station Operations or his designee.

6.0 References:

6.1 Reportable Occurrence 79-14.

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