

The drywell high radiation setpoint will ensure a timely closure of the large vent and purge isolation valves to prevent releases from exceeding ten percent of the dose guideline values allowed by 10 CFR 100. The containment vent and purge isolation function is provided in response to NUREG 0737 Item II E.4.2.7.

Temperature switches are provided at the entrance of the RWCU Pump Room to detect a line break downstream of the RWCU isolation valves. A line break will raise room temperature. Before the room temperature exceeds 180°F, the switches will trip and close the RWCU isolation valves. This ensures that a high energy line break will automatically be detected and isolated, even if an RWCU System isolation is not initiated by a LO-LO reactor water level signal. System isolation at this temperature will minimize the impact on off-site releases and the environmental qualification profiles for the Reactor Building.

References:

- (1) NEDC-30851P-A, "Technical Specification Improvement Analyses for BWR Reactor Protection System."
- (2) NEDC-30936P-A, "BWR Owners' Group Technical Specification Improvement Methodology (With Demonstration for BWR ECCS Actuation Instrumentation)," Parts 1 and 2.
- (3) NEDC-30851P-A, Supplement 1, "Technical Specification Improvement Analysis for BWR Control Rod Block Instrumentation."
- (4) NEDC-30851P-A, Supplement 2, "Technical Specification Improvement Analysis for BWR Isolation Instrumentation Common to RPS and ECCS Instrumentation."
- (5) NEDC-31677P-A, "Technical Specification Improvement Analysis for BWR Isolation Actuation Instrumentation."
- (6) GENE-770-06-1-A, "Bases for Changes to Surveillance Test Intervals and Allowed Out-of-Service Times for Selected Instrumentation Technical Specifications."

TABLE 3.1.1 PROTECTIVE INSTRUMENTATION REQUIREMENTS

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| Function | Trip Setting | Reactor Modes in which Function Must Be OPERABLE | | | | Minimum Number of OPERABLE or OPERATING [tripped] Trip Systems | Minimum Number of Instrument Channels Per OPERABLE Trip System | Action Required* |
|--|--|--|--------|---------|-------|---|---|--|
| | | Shutdown | Refuel | Startup | Run | | | |
| M. Diesel Generator Load Sequence Timers (Cont'd.) | | | | | | | | |
| 2. Service Water Pump (aa) | 120 sec ± 15% (SK1A) (SK2A) 10 sec. ± 15% (SK7A) (SK8A) | X | X | X | X | 2(o) | 2(p)(kk) | Consider the pump inoperable and comply within 7 days (See note q) |
| 3. Reactor Building Closed Cooling Water Pump (bb) | 166 sec ± 15% | X | X | X | X | 2(m) | 1(n)(kk) | Consider the pump inoperable and comply within 7 days (See note q) |
| N. Loss of Power | | | | | | | | |
| a. 4.16 KV Emergency Bus Undervoltage (Loss of Voltage) | ** | X(ff) | X(ff) | X(ff) | X(ff) | 2 | 1(kk) | |
| b. 4.16 KV Emergency Bus Undervoltage (Degraded Voltage) | ** | X(ff) | X(ff) | X(ff) | X(ff) | 2 | 3(kk) | See note cc |
| O. Containment Vent and Purge Isolation | | | | | | | | |
| 1. Drywell High Radiation | ≤ 74.6 R/hr | X(u) | X(u) | X(u) | X | 1 | 1 | Isolate vent & Purge pathways or PLACE IN COLD SHUTDOWN CONDITION |
| P. RWCU HELB Isolation | | | | | | | | |
| 1. RWCU Pump Room High Temperature | ≤ 180°F | X(s) | X(s) | X | X | 2 | 2(oo) | Close isolation valves V-16-1, V-16-2, V-16-14, & V-16-61. |

OYSTER CREEK

Amendment No.: 15, 44, 60, 80, 160, 171, 195, 208, 259

3.1-15

Corrected Letter dated 10/28/99

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MINIMUM CHECK, CALIBRATION AND TEST FREQUENCY FOR PROTECTIVE INSTRUMENTATION

| <u>Instrument Channel</u> | <u>Check</u> | <u>Calibrate</u> | <u>Test</u> | <u>Remarks (Applies to Test & Calibration)</u> |
|-----------------------------------|--------------|--------------------------|-------------|--|
| 32. LPRM Level | | | | |
| a) Electronics | N/A | 1/12 mo. | 1/12 mo. | |
| b) Detectors | N/A | Note 4 | N/A | |
| 33. RWCU HELB High Temperature | N/A | Each refueling outage | 1/3 mo. | Perform Channel Tests using the test switches. |

* Calibrate prior to startup and normal shutdown and thereafter check 1/s and test 1/wk until no longer required.

Legend:

- N/A = Not Applicable
- 1/s = Once per shift
- 1/d = Once per day
- 1/3d = Once per 3 days;
- 1/wk = Once per week
- 1/mo. = Once per month
- 1/3 mo. = Once every 3 months;
- 1/12 mo. = Once every 12 months
- 1/24 mo. = Once every 24 months