

from DECo to the Director of Regulation, dated August 13, 1971, and the letter from Richard W. McLaren, Assistant Attorney General, Antitrust Division, U. S. Department of Justice, to Bertram H. Schur, Associate General Counsel, Atomic Energy Commission, dated August 16, 1971.

(4) Safety/Relief Valve In-Plant Testing (Section 3.8.1, SSER #5)\*

Prior to completing the startup test program, DECo shall perform a series of in-plant tests of the safety/relief valves (SRVs). The acceptance criteria for these tests are contained in Section 2.13.9, "SRV Load Assessment by In-Plant Tests" of NUREG-0661, "NRC Acceptance Criteria for the Mark I Containment Long-Term Program." The results of these tests shall be reported to the NRC staff within six months of completing this test series.

(5) Suppression Pool Temperature Measurements (Section 3.8.1, SSER #5)

DECo shall accomplish during the first fuel cycle, all the tasks described in its letter dated March 6, 1985, regarding the series of SRV tests which will confirm its methodology for measuring the suppression pool bulk temperature.

(6) Environmental Qualification (Section 3.11, SSER #5)

No later than November 30, 1985, DECo shall environmentally qualify all electrical equipment according to the provisions of 10 CFR 50.49.

(7) Deleted

\*The parenthetical notation following the title of many license conditions denotes the section of the Safety Evaluation Report (SER) and/or its supplements wherein the license condition is discussed.

## INDEX

### LIST OF TABLES (Continued)

<u>TABLE</u>	<u>PAGE</u>
3.3.7.9-1 DELETED.....	3/4 3-68
3.3.7.11-1 RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION.....	3/4 3-72
4.3.7.11-1 RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS.....	3/4 3-74
3.3.7.12-1 RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION.....	3/4 3-77
4.3.7.12-1 RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS.....	3/4 3-81
3.3.9-1 FEEDWATER/MAIN TURBINE TRIP SYSTEM ACTUATION INSTRUMENTATION.....	3/4 3-87
3.3.9-2 FEEDWATER/MAIN TURBINE TRIP SYSTEM ACTUATION INSTRUMENTATION SETPOINTS.....	3/4 3-88
4.3.9.1-1 FEEDWATER/MAIN TURBINE TRIP SYSTEM ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS.....	3/4 3-89
3.3.11-1 APPENDIX R ALTERNATIVE SHUTDOWN INSTRUMENTATION..	3/4 3-91
4.3.11.1-1 APPENDIX R ALTERNATIVE SHUTDOWN INSTRUMENTATION SURVEILLANCE REQUIREMENTS.....	3/4 3-92
3.4.3.2-1 REACTOR COOLANT SYSTEM PRESSURE ISOLATION VALVES.....	3/4 4-12
3.4.3.2-2 REACTOR COOLANT SYSTEM INTERFACE VALVES LEAKAGE PRESSURE MONITORS.....	3/4 4-12
3.4.4-1 REACTOR COOLANT SYSTEM CHEMISTRY LIMITS.....	3/4 4-15
4.4.5-1 PRIMARY COOLANT SPECIFIC ACTIVITY SAMPLE AND ANALYSIS PROGRAM.....	3/4 4-18
4.4.6.1.3-1 REACTOR VESSEL MATERIAL SURVEILLANCE PROGRAM-- WITHDRAWAL SCHEDULE.....	3/4 4-22
4.6.1.1-1 PRIMARY CONTAINMENT ISOLATION VALVES/FLANGES LOCATED IN LOCKED HIGH RADIATION AREAS.....	3/4 6-1b
3.6.3-1 PRIMARY CONTAINMENT ISOLATION VALVES.....	3/4 6-22
3.6.5.2-1 SECONDARY CONTAINMENT VENTILATION SYSTEM AUTOMATIC ISOLATION DAMPERS.....	3/4 6-53
4.7.2.1-1 CONTROL ROOM EMERGENCY FILTRATION SYSTEM DUCT LEAK TESTING SURVEILLANCE REQUIREMENTS.....	3/4 7-10b
3.7.3-1 SURVEY POINTS FOR SHORE BARRIER.....	3/4 7-12
3.7.7.5-1 DELETED.....	3/4 7-32
3.7.7.6-1 DELETED.....	3/4 7-37
4.8.1.1.2-1 DIESEL GENERATOR TEST SCHEDULE.....	3/4 8-8

## PLANT SYSTEMS

### SURVEILLANCE REQUIREMENTS

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4.7.2.1 The control room emergency filtration system shall be demonstrated OPERABLE:

- a. At least once per 12 hours by verifying that the control room air temperature is less than or equal to 95°F.
- b. At least once per 31 days by:
  1. Initiating fan operation from the control room with each subsystem, establishing flow for at least 15 minutes through the HEPA filters and charcoal adsorbers.
  2. Verifying flow through the HEPA filters and charcoal adsorbers for at least 10 hours with the associated emergency makeup inlet air heater OPERABLE. The subsystem used to establish the 10 hours of flow through the HEPA filters and charcoal adsorbers shall be staggered such that each subsystem is utilized at least once per 62 days.
- c. At least once per 18 months or (1) after any structural maintenance on the HEPA filter or charcoal adsorber housings, or (2) following painting, fire, or chemical release in any ventilation zone communicating with the system by:
  1. Verifying that the system satisfies the in-place penetration testing acceptance criteria of less than 1.0% and uses the test procedure guidance in Regulatory Positions C.5.a, C.5.c, and C.5.d of Regulatory Guide 1.52, Revision 2, March 1978, while operating the system at a flow rate of 1800 cfm  $\pm$  10% through the makeup filter and 3000 cfm  $\pm$  10% through the recirculation filter.
  2. Verifying within 31 days after removal that a laboratory analysis of a representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978, meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 2, March 1978, for a methyl iodide penetration of less than 1.0%; and
  3. Verifying a system flow rate of 3000 cfm  $\pm$  10% during system operation when tested in accordance with ANSI N510-1980.
- d. After every 720 hours of charcoal adsorber operation by verifying within 31 days after removal that a laboratory analysis of a representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978, meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 2, March 1978, for a methyl iodide penetration of less than 1.0%.

## PLANT SYSTEMS

### SURVEILLANCE REQUIREMENTS (Continued)

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- e. At least once per 18 months by:
1. Verifying that the pressure drop across the recirculation train and across the makeup train combined HEPA filters and charcoal adsorber banks is less than 8 inches and 6 inches water gauge respectively while operating the system at a flow rate of 3000 cfm  $\pm$  10% through the recirculation filter train and 1800 cfm  $\pm$  10% through the makeup filter train.
  2. Verifying that the system will automatically switch to the recirculation mode of operation on each of the below actuation test signals and verifying that on any one of the below recirculation mode actuation test signals, the system automatically switches to the recirculation mode of operation, the isolation valves close within 5 seconds and the control room is maintained at a positive pressure of at least 0.125 inch water gauge relative to the outside atmosphere during system operation at a flow rate less than or equal to 1800 cfm through the emergency makeup air filter:
    - a) Control center inlet radiation monitor.
    - b) Fuel pool ventilation exhaust radiation monitor.
    - c) Low reactor water level.
    - d) High drywell pressure.
  3. Verifying that on the chlorine mode actuation signal, the system automatically switches to the chlorine mode of operation, the isolation valves close within 4 seconds, and a minimum of 1200 cfm emergency recirculation is established.
  4. Verifying that each of the emergency makeup inlet air heaters dissipate 12.0  $\pm$  2.0 kW when tested in accordance with ANSI N510-1980.
- f. After each complete or partial replacement of a train HEPA filter bank by verifying that the train HEPA filter bank satisfies the in-place penetration and bypass leakage testing acceptance criteria of less than 1.0% in accordance with ANSI N510-1980 while operating the system at a flow rate of 1800 cfm  $\pm$  10% for the makeup train and 3000 cfm  $\pm$  10% for the recirculation train.
- g. After each complete or partial replacement of a train charcoal adsorber bank by verifying that the train charcoal adsorber bank satisfies the in-place penetration and bypass leakage testing acceptance criteria of less than 1.0% in accordance with ANSI N510-1980 for a halogenated hydrocarbon refrigerant test gas while operating the system at a flow rate of 1800 cfm  $\pm$  10% for the makeup train and 3000 cfm  $\pm$  10% for the recirculation train.

## PLANT SYSTEMS

### SURVEILLANCE REQUIREMENTS (Continued)

- h. At least once per 36 months by verifying that the sections of Control Room Emergency Filtration System duct listed in Table 4.7.2.1-1, when leak tested in accordance with ASME N510-1989# exhibit inleakage less than the acceptance criteria listed in Table 4.7.2-1-1 for the associated pressures.

4.7.2.2 The portions of the Control Room Emergency Filtration System duct listed below, which are accessible during normal operation, shall be visually inspected at least once per 366 days for cracking, debonding, or other abnormal degradation of the applied silicone sealant. Any such cracking, debonding, or other abnormal degradation shall be reported in accordance with Specification 6.9.2 within 14 days in a Special Report describing the findings and giving the intended course of action, including evaluation of and justification for continued plant operation.

- a. Normal intake between damper T4100F042 and the Control Room wall (Penetration V-430)
- b. Normal exhaust between damper T4100F044 and the Control Room wall (Penetration V-429)
- c. Discharge of recirculation fans T4100C047, 48 between the discharge flanges on filter train T4100D016 and the 5th Floor CCHVAC Equipment Room wall (Penetration V-504B)
- d. Division II supply plenum between the Control Room wall (Penetration V-431) and the 4th Floor Aux. Building ceiling (Penetration V-9014)
- e. Emergency intake between the discharge flange on filter train T4100D011 and the inlet flange on filter train T4100D016
- f. Recirculation duct between the 5th Floor CCHVAC Equipment Room wall (Penetration V-504A) and the inlet flange on filter train T4100D016

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#Tests performed in accordance with ANSI N510-1980 prior to the implementation of this requirement satisfy this requirement until the next required performance of the test.

TABLE 4.7.2.1-1

CONTROL ROOM EMERGENCY FILTRATION SYSTEM DUCT LEAK TESTING SURVEILLANCE REQUIREMENTS

DUCTS

1. Normal intake between damper T4100F042 and the Control Room wall (Penetration V-430)
2. Normal exhaust between damper T4100F044 and the Control Room wall (Penetration V-429)
3. Discharge of recirculation fans T4100C047, 48 between the discharge flanges on filter train T4100D016 and the 5th Floor CCHVAC Equipment Room wall (Penetration V-504B)
4. Division II supply plenum between the Control Room wall (Penetration V-431) and the 4th Floor Aux. Building ceiling (Penetration V-9014)

<u>Acceptance Criteria</u>	<u>Leakage Determined at Maximum Negative Pressure Expected For Each Specific Duct During Normal System Operation</u>	<u>Leakage Determined at Maximum Negative Pressure Expected For Each Specific Duct During Operation With a Single Damper Failure</u>
Cumulative Total for all four ducts (SCFM)	11	34