

Docket No. 50-245
812628

Attachment 1

Millstone Nuclear Power Station, Unit No. 1
Proposed Revision to Technical Specifications
Primary System Boundary - Coolant Chemistry

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LIMITING CONDITION FOR OPERATION

3.6 PRIMARY SYSTEM BOUNDARY

C. Coolant Chemistry

1. a. When the reactor is in the STARTUP/HOT STANDBY or RUN mode with the reactor coolant at any temperature, or in the SHUTDOWN mode with the average reactor coolant temperature greater than 212°F, the reactor coolant specific activity shall be limited to less than 0.2 microcuries per gram DOSE EQUIVALENT I-131.

When the reactor is in the STARTUP/HOT STANDBY or RUN mode with the reactor coolant at any temperature, or in the SHUTDOWN mode with the average reactor coolant temperature greater than 212°F, if the reactor coolant specific activity is greater than 0.2 microcuries per gram DOSE EQUIVALENT I-131 during any continuous period of time longer than 48 hours, or is greater than 4.0 microcuries per gram, have the reactor in COLD SHUTDOWN or REFUEL CONDITION within 24 hours.

- b. When the reactor is in the STARTUP/HOT STANDBY or RUN mode with the reactor coolant at any temperature or in the SHUTDOWN mode with the average reactor coolant temperature greater than 212°F, the reactor coolant specific activity shall be limited to less than 100/E microcuries per gram total activity.

When the reactor is in the STARTUP/HOT STANDBY or RUN mode with the reactor coolant at any temperature or in the SHUTDOWN mode with the average reactor coolant temperature greater than 212°F, if the reactor coolant specific activity is greater than 100/E microcuries per gram have the reactor in COLD SHUTDOWN or REFUEL CONDITION within 24 hours.

SURVEILLANCE REQUIREMENT

4.6 PRIMARY SYSTEM BOUNDARY

C. Coolant Chemistry

1. a. A reactor coolant sample shall be taken at least every 96 hours and analyzed for dose equivalent I-131 and total activity content.

ADMINISTRATIVE CONTROLS

Annual Reports ^{1/}

6.9.1.4 Annual reports covering the activities of the unit as described below for the previous calendar year shall be submitted prior to March 1 of each year.

6.9.1.5(a) A tabulation, on an annual basis, of the number of station, utility and other personnel (including contractors) receiving exposures greater than 100 mrem/yr and their associated man-rem exposure according to work and job functions, ^{2/} e.g., reactor operations and surveillance, inservice inspection, routine maintenance, special maintenance (described maintenance), waste processing and refueling. The dose assignment to various duty functions may be estimates based on pocket dosimeter, TLD or film badge measurements. Small exposures totalling less than 20% of the individual total dose need not be accounted for. In the aggregate, at least 80% of the total whole body dose received from external sources shall be assigned to specific major work functions.

(b) The results of specific activity analysis in which the primary coolant exceeded the limits of Specification 3.6.C.1. The following information shall be included: 1) reactor power history starting 48 hours prior to the first sample in which the limit was exceeded; 2) results of the last isotopic analysis for radioiodine performed prior to exceeding the limit, results of analysis while limit was exceeded and results of one analysis after the radioiodine activity was reduced to less than the limit, (each result should include date and time of sampling and the radioiodine concentrations); 3) clean-up system flow history starting 48 hours prior to the first sample in which the limit was exceeded; 4) graph of the I-131 concentration and one other radioiodine isotope concentration in microcuries per gram as a function of time for the duration of the specific activity above the steady-state level; and 5) the time duration when the specific activity of the primary coolant exceeded the radioiodine limit.

Monthly Operating Report

6.9.1.6 Routine reports of operating statistics and shutdown experience shall be submitted on a monthly basis to the U.S. Nuclear Regulatory Commission, Document Control Desk, Washington D.C. 20555, one copy to the Regional Administrator, Region I, and one copy to the Resident Inspector no later than the 15th of each month following the calendar month covered by the report.

^{1/} A single submittal may be made for a multiple unit station. The submittal should combine those sections that are common to all units at the station.

^{2/} This tabulation supplements the requirements of 20.407 of 10 CFR Part 20.

ADMINISTRATIVE CONTROLS

Annual Radiological Environmental Operating Report

- 6.9.1.7 Routine Annual Radiological Environmental Operating reports covering the operation of the unit during the previous calendar year shall be submitted prior to May 1 of each year.

The Annual Radiological Environmental Operating Report shall include that information delineated in the REMODCM.

Semiannual Radioactive Effluent Release Report

- 6.9.1.8 Routine radioactive effluent release reports covering the operation of the unit during the previous 6 months of operation shall be submitted within 60 days after January 1 and July 1 of each year.

A supplemental report containing dose assessments for the previous year shall be submitted annually within 90 days after January 1.