



SACRAMENTO MUNICIPAL UTILITY DISTRICT □ 6201 S Street, Box 15830, Sacramento, California 95813; (916) 452-3211

August 15, 1980

Mr. R. H. Engelken
U. S. Nuclear Regulatory Commission
Office of Inspection & Enforcement, Region V
1990 North California Boulevard
Walnut Creek Plaza, Suite 202
Walnut Creek, CA 94596

Subject: Docket No. 50-312
1980 Semiannual Effluent Release Report

Dear Mr. Engelken:

In compliance with Technical Specifications "Appendix B", Section 5.6.1 B and Regulatory Guide 10.1, Revision 1, Appendix A- Item 43, the Sacramento Municipal Utility District hereby submits its Semiannual Effluent Release Report.

As required in 10 CFR 50.36a (a) (2), this report covers environmental effluent releases from January 1 to June 30, 1980, inclusive. For completeness, the data contained in this report follows Regulatory Guide 1.21 and will be resubmitted in our Annual Environmental Operating Report for 1980. General discussions and conclusions within the Annual Report will summarize the environmental conditions as required in the Technical Specifications.

Sincerely,

J.J. Mattimoe
Assistant General Manager
and Chief Engineer

JJM:RWC:ch

cc: Director,
Office of Inspection & Enforcement

Director,
Office of Management Information
and Program Control

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EFFLUENT AND WASTE DISPOSAL REPORT

A. SUPPLEMENTAL INFORMATION

Supplemental information as outlined in Regulatory Guide 1.21 is presented in Table 1.

B. GASEOUS EFFLUENTS

Gaseous effluents at ground level release are summarized in Table 1A (Summation of All Gaseous Effluents) and Table 1C (Continuous Mode and Batch Mode Releases). No credit is taken for elevated releases and, therefore, Table 1B is not applicable.

C. LIQUID EFFLUENTS

There were five controlled releases of radioactive liquids during this report period. They are summarized in Table 2A and isotopic contents are detailed in Table 2B. The releases occurred from January 23 to January 28 and were the result of a small amount of valve leakage into a system that is normally free of radioactivity.

D. SOLID AND LIQUID WASTE TRUCKED OFFSITE

There were no shipments of solid or liquid wastes for off-site burial or disposal during this report period.

E. RADIOLOGICAL IMPACT ON MAN

Liquid Releases

Appendix I of 10 CFR 50 requires that the annual doses or dose commitments to the total body or any organ of any individual from the sum of the exposure pathways from liquid effluents should not exceed 3 mrem and 10 mrem respectively.

Measured plant liquid effluent data was used to calculate estimates of doses to individuals and populations. Included in the source term were five (5) liquid batch releases. The total curies released are presented in Section C.

"Maximum Individual" and "Population" doses were calculated for a variety of liquid effluent exposure pathways representative of actual or potential usage conditions along the plant liquid effluent discharge course. These pathways include potable water, irrigated food (vegetation, milk and meat), fish and direct (recreational) exposures.

Whenever possible, calculations were based on existing data for the plant and its regional environmental characteristics. Where insufficient data existed to substantiate plant/site dependent assumptions, the parameters and models recommended in Regulatory Guide 1.109, "Calculation of Annual Doses to Man From Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR 50, Appendix I", and 1.113, "Estimating Aquatic Dispersion of Effluents from Accidental and Routine Reactor Releases for the Purpose of implementing Appendix I" and the LADTAP computer code were used.