

TABLE 1

Liquid Radioactive Effluent Releases  
to Sanitary Sewer System

DATE	ALPHA CONCENTRATION	BETA CONCENTRATION	VOLUME	TOTAL
				ACTIVITY RELEASED
4/26/83	$<6.87 \times 10^{-11}$ $\mu\text{Ci/ml}$	$5.76 \times 10^{-9}$ $\mu\text{Ci/ml}$	20 gal	$4.413 \times 10^{-4}$ $\mu\text{Ci}$
12/27/83	$<2.82 \times 10^{-10}$ $\mu\text{Ci/ml}$	$2.00 \times 10^{-8}$ $\mu\text{Ci/ml}$	20 gal	$1.54 \times 10^{-3}$ $\mu\text{Ci}$

The releases were moderator/shield water from the dump tank and water in the laboratory waste hold-up tank. For all releases, the requirements and limits of 10CFR20.303 were satisfied.

6. MAINTENANCE

Significant maintenance/surveillance activities during 1983 were the Bi-annual Moderator Temperature Coefficient measurement and the Average Void Coefficient measurement. Results compared satisfactorily and were within the limits of the technical specification.

The remaining maintenance was routine and was both scheduled and unscheduled in nature. The maintenance consisted of removing, replacing, or repairing worn or failed system components. In no case were safety system functions for the reactor impaired or jeopardized. The maintenance is summarized as follows:

- a. repaired channel A recorder
- b. replaced channel E microdot connector
- c. repair of channel E amplifier
- d. repaired sump vacuum pump
- e. installed anti-flood device for sump pump
- f. replaced channel A compensation voltage supplies
- g. replaced safety rod cocked limit switch
- h. repaired high voltage divider switch for B-1 and B-2
- i. replaced channel E  $\pm 15$  volt power supply
- j. repaired fuel elevator
- k. inspected and cleaned dump and reactor tanks

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