

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
SUPPLEMENTAL INFORMATION
FOR TIME PERIOD JANUARY 1, 1980 TO JUNE 30, 1980

1. Regulatory Limits

Code of Federal Regulations Title 10 Part 20 only

2. Maximum Permissible Concentrations

- a. fission and activation gases: None
- b. Iodines: None
- c. Particulates, Half-lives > 8 days: 4×10^{-12} μ Ci/ml
- d. Liquid effluents: 3×10^{-5} μ Ci/ml

3. Average Energy

185 KEV for gamma radiation

4. Measurements and Approximations of Total Radioactivity

- a. Fission and activation gases: None
- b. Iodines: None
- c. Particulates: Stack samples are alpha counted and converted to μ Ci/ml. The confirmed receiving and chemical and isotopic analysis is used.
- d. Liquid effluents: None

5. Batch Releases

- a. Liquid: None
- b. Gaseous:
 - 1. Number of batch releases: 130 batches for each of two stacks.
 - 2. Total time period for batch releases: 1040 hours
 - 3. Maximum time period for a batch release: 8 hours
 - 4. Average time period for batch releases: 8 hours
 - 5. Minimum time period for a batch release: 8 hours

6. Abnormal Releases

- a. Liquid: None
- b. Gaseous: None

7. Material: U_3O_8 High Fired 84.64% Total U 93.15% ^{235}U

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TABLE 1A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1980

GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	Unit	Quarter 1	Quarter 2	Est. Total Error %
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A. Fission & Activation
gasses: None

B. Iodines: None

C. Particulates

1.	Particulates with half-lives >8 days	Ci	5.05 E-07	6.50 E-07	2.94 E+02
2.	Average release rate for period	µCi/ sec	2.70 E-07	3.47 E-07	
3.	Percent of technical speci- fication limit	%	2.43 E+00	3.13 E+00	
4.	Gross alpha radioactivity	Ci	5.05 E-07	6.50 E-07	

D. Tritium

None

TABLE 1B

GASEOUS EFFLUENTS-ELEVATED RELEASE

Nuclides Released	Batch Mode	
	1 Quarter	2 Quarter
1. Fission gases: None		
2. Iodines: None		
3. Particulates		
93.15% Enriched U	5.05 E-07	6.50 E-07

TABLE 1C

Not Applicable

TABLE 2A

Not Applicable

TABLE 2B
Not Applicable

TABLE 3
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (NOT IRRADIATED FUEL)

	<u>Unit</u>	<u>6 Month Period</u>	<u>Est. Total Error, %</u>
1. Type of Waste			
a. Spent resins, filter sludges, evaporator bottom, etc.	m ³ Ci	None	
b. Dry compressed waste, contaminated equip., etc.	m ³ Ci	2.36 E + 00 1.71 E - 03	8.86 E + 00
c. Irradiated components, control rod, etc.	m ³	None	

d. Other

2. Estimate of major nuclide composition (by type of waste)

a. ²³⁴ U	% 1.01 E + 00
b. ²³⁵ U	% 9.32 E + 01
c. ²³⁶ U	% 4.60 E - 01
d. ²³⁸ U	% 5.38 E + 00

3. Solid Waste Disposition

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
3	Laundry Truck	Indian Orchard, MA
1	Truck	Beatty, Nevada

B. IRRADIATED FUEL SHIPMENTS (Disposition)

Not Applicable

TABLE 4A
Not Applicable - No Data

TABLE 4B
Not Applicable - No Data