

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT
SUPPLEMENTAL INFORMATION
FOR TIME PERIOD

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

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GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

	Unit	Quarter 3	Quarter 4	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	2.01 E-06	1.94 E-06	1.53 E+01
2.	Average release rate for period	µCi/sec	1.07 E-06	1.04 E-06	
3.	Percent of technical specification limit	%	11.76 E+00	9.39 E+00	
4.	Gross alpha radioactivity	Ci	2.01 E-06	1.94 E-06	

- D. Tritium
None

TABLE 1B

GASEOUS EFFLUENTS-ELEVATED RELEASE

Nuclides Released	Batch Mode	
	3rd Quarter	4th Quarter
1. Fission gases: None		
2. Iodines: None		
3. Particulates		
93.15% Enriched U	2.01 E-06	1.94 E-06

TABLE 1C

Not Applicable

TABLE 2A

Not Applicable

TABLE 1B
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	1.57 E+00 5.47 E-03	1.35 E+01
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>
2	Laundry Truck	Indian Orchard, MA
1	Truck	Barnwell, SC

B. IRRADIATED FUEL SHIPMENTS (Disposition)

Not Applicable

TABLE 4A
Not Applicable - No Data

TABLE 4B
Not Applicable - No Data