EFFLUENT AND WASTER DISPOSAL SEMIANNUAL REPORT SUPPLEMENTAL INFORMATION FOR TIME PERIOD JANUARY 1, 1982 TO JUNE 30, 1982

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 x 10 12 u Ci/ml
 - d. Liquid effluents: 3 x 10⁻⁵ μ Ci/ml
- 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:
 - Number of batch releases: 75 for press stack; 70 for furnace stack.
 - Total time period for batch releases: press stack -600 hrs; furnace stack - 560 hrs.
 - 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: U₃O₈ High Fired 84.64% Total U 93.15% ²³⁵U

TABLE 1A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1982 GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

Unit	Quarter	Quarter	Est. Total
	1	2	Error %

A. Fission & Activation

gasses: None

B. Iodines: None

C. Particulates

1.	Particulates with half-lives >8 days	Ci	1.11E-06	6.07E-08	5.22E+02
2.	Average release rate for period	μCi/ sec	5.94E-07	3.99E-07	
3.	Percent of technical speci fication limit	8	5.39E+00	3.45E+00	
4.	Gross alpha radioactivity	Ci	1.11E-06	6.07E-08	

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

1.11E-06 6.07E-08

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)

		The second secon			
1.	Тур	e of Waste	Unit	6 Month Period	Est. Total Error, %
	a.	Spent resins, filter sludges, evaporator bottom, etc.	m ³ Ci	None	
	b.	Dry compressed waste, contaminated equip., etc.	m ³ Ci	6.20E+01 8.24E-03	5.86E+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. ²³⁶U % 4.60 E 01
 - d. 238_U % 5.38 E + 00
- 3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
0	Laundry Truck	Indian Orchard, MA
1	Truck	Barnwell, S.C.

B. IRRADIATED FUEL SHIPMENTS (Disposition)

Not Applicable

TABLE 4A

Not Applicable - No Data

TABLE 4B

Not Applicable - No Data