

8008050360

INSTALLATION BEAVER VALLEY LOCATION SHIPPINGPORT, PA

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR YEAR 1976

SUPPLEMENTAL INFORMATION

UNIT NUMBER 1

LICENSEE DUQUESNE LIGHT & OHIO EDISON

TYPE PWR

LICENSED POWER (MWT) 2652.0

BUCKET NO. 50-334

INITIAL CRITICALITY 05/10/76

COOLING WATER SOURCE OHIO RIVER

MAXIMUM PERMISSIBLE CONCENTRATIONS (MICROCURI/ML) NR

MEASUREMENTS AND APPROXIMATIONS OF TOTAL RADIOACTIVITY

FISSION AND ACTIVATION GASES

GELI GAMMA SPECTROMETRY, LIQUID SCINTILLATION

IODINES

GELI GAMMA SPECTROMETRY

PARTICULATES

GELI GAMMA SPECTROMETRY, LOW BACKGROUND PROPORTIONAL

LIQUID EFFLUENTS

GELI GAMMA SPECTROMETRY, LIQUID SCINTILLATION

• Revised Page

NR = NOT REPORTED

N/A = NOT APPLICABLE

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR YEAR 1978
 SUPPLEMENTAL INFORMATION

AVERAGE ENERGY (MEV/DISINTEGRATION)

BETA		GAMMA	
QUARTER	QUARTER	QUARTER	QUARTER
1	2	1	2
N/A	N/A	N/A	N/A

BATCH RELEASES

A. LIQUID

QUARTER QUARTER

1 2

1. NUMBER OF BATCH RELEASES-	48	44
2. TOTAL TIME PERIOD FOR BATCH RELEASE (MIN)-	3.64E 04	2.87E 04
3. MAXIMUM TIME PERIOD FOR A BATCH RELEASE (MIN)-	2.42E 03	6.92E 03
4. AVERAGE TIME PERIOD FOR BATCH RELEASES (MIN)-	7.58E 02	6.52E 02
5. MINIMUM TIME PERIOD FOR A BATCH RELEASE (MIN)-	3.90E 01	4.00E 01
6. AVERAGE STREAM FLOW DURING PERIODS OF RELEASE OF EFFLUENT INTO A FLOWING STREAM (LTS/MIN)-	9.73E 07	9.73E 07

B. GASEOUS

1. NUMBER OF BATCH RELEASES-	20	35
2. TOTAL TIME PERIOD FOR BATCH RELEASES (MIN)-	3.63E 04	8.16E 04
3. MAXIMUM TIME PERIOD FOR A BATCH RELEASE (MIN)-	1.63E 03	2.51E 04
4. AVERAGE TIME PERIOD FOR BATCH RELEASES (MIN)-	9.08E 02	2.33E 03
5. MINIMUM PERIOD FOR A BATCH RELEASE (MIN)-	5.70E 01	1.85E 02

ABNORMAL RELEASES

A. LIQUID

1. NUMBER OF RELEASES	NONE	NONE
2. TOTAL ACTIVITY RELEASED (CURIES)		

B. GASEOUS

1. NUMBER OF RELEASES	NONE	NONE
2. TOTAL ACTIVITY RELEASED (CURIES)		

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR YEAR 1978

SUPPLEMENTAL INFORMATION

AVERAGE ENERGY (MEV/DISINTEGRATION)

BETA		GAMMA	
QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4
N/A	N/A	N/A	N/A

BATCH RELEASES

QUARTER 3	QUARTER 4
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A. LIQUID

1. NUMBER OF BATCH RELEASES-	32	34
2. TOTAL TIME PERIOD FOR BATCH RELEASE (MIN)-	1.53E 04	1.45E 04
3. MAXIMUM TIME PERIOD FOR A BATCH RELEASE (MIN)-	1.55E 03	2.86E 03
4. AVERAGE TIME PERIOD FOR BATCH RELEASES (MIN)-	4.80E 02	4.27E 02
5. MINIMUM TIME PERIOD FOR A BATCH RELEASE (MIN)-	5.00E 00	1.30E 01
6. AVERAGE STREAM FLOW DURING PERIODS OF RELEASE OF EFFLUENT INTO A FLOWING STREAM (LTS/MIN)-	5.15E 07	5.15E 07

B. GASEOUS

NUMBER OF BATCH RELEASES-	18	30
2. TOTAL TIME PERIOD FOR BATCH RELEASES (MIN)-	2.47E 04	2.46E 04
3. MAXIMUM TIME PERIOD FOR A BATCH RELEASE (MIN)-	6.32E 03	4.63E 03
4. AVERAGE TIME PERIOD FOR BATCH RELEASES (MIN)-	1.38E 03	8.20E 02
5. MINIMUM PERIOD FOR A BATCH RELEASE (MIN)-	5.30E 02	2.61E 02

ABNORMAL RELEASES

A. LIQUID

NUMBER OF RELEASES	NONE	NONE
2. TOTAL ACTIVITY RELEASED (CURIES)		

B. GASEOUS

1. NUMBER OF RELEASES	NONE	NONE
2. TOTAL ACTIVITY RELEASED (CURIES)		

INSTALLATION=REAVEN VALLEY

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 197A

GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	UNIT	QUARTER 1	QUARTER 2	EST. TOTAL ERROR, %
A. FISSION AND ACTIVATION GASES				
1. TOTAL RELEASE	CI	2.82E 01	3.10E 02	2.00E 01
2. AVERAGE RELEASE RATE FOR PERIOD	MCI/SEC	3.63E 00	3.98E 01	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	Negligible	Negligible	
B. IODINES				
1. TOTAL IODINE-131	CI	5.17E-03	6.65E-02	1.50E 01
2. AVERAGE RELEASE RATE FOR PERIOD	MCI/SEC	6.65E-04	8.55E-03	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	2.58E-01	3.33E 00	
C. PARTICULATES				
1. PARTICULATES WITH HALF-LIVES > 8 DAYS	CI	6.27E-06	1.67E-06	2.00E 01
2. AVERAGE RELEASE RATE FOR PERIOD	MCI/SEC	8.06E-07	2.15E-07	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	Negligible	Negligible	
4. GROSS ALPHA RADIOACTIVITY	CI	6.57E-08	1.77E-07	
D. TRITIUM				
1. TOTAL RELEASE	CI	1.50E 02	5.68E 01	1.50E 01
2. AVERAGE RELEASE RATE FOR PERIOD	MCI/SEC	1.93E 01	7.30E 00	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	N/A	N/A	

INSTALLATION=REAVER VALLEY

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1978

GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	UNIT	QUARTER 3	QUARTER 4	EST. TOTAL ERROR, %
A. FISSION AND ACTIVATION GASES				
1. TOTAL RELEASE	CI	4.97E 01	2.20E 00	2.00E 01
2. AVERAGE RELEASE RATE FOR PERIOD	MCI/SEC	3.35E 01	1.50E 00	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	N/A	N/A	
B. IODINES				
1. TOTAL IODINE-131	CI	3.63E-04	0E0	1.50E 01
2. AVERAGE RELEASE RATE FOR PERIOD	MCI/SEC	4.70E-05	0E0	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	1.81E-02	N/A	
C. PARTICULATES				
1. PARTICULATES WITH HALF-LIVES > 8 DAYS	CI	8.32E-06	3.32E-6	2.00E 01
2. AVERAGE RELEASE RATE FOR PERIOD	MCI/SEC	1.10E-12	4.27E-7	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	N/A	N/A	
4. GROSS ALPHA RADIOACTIVITY	CI	1.87E-07	2.84E-07	
D. TRITIUM				
1. TOTAL RELEASE	CI	8.20E 01	8.72E 01	1.50E 01
2. AVERAGE RELEASE RATE FOR PERIOD	MCI/SEC	1.05E 01	1.12E 01	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	N/A	N/A	

INSTALLATION=HEAVER VALLEY

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1978

GAS EFFLUENTS ELEVATED RELEASE

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		HATCH MODE	
		QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2
FISSION GASES					
KR-85	CI	<u>2.00E-10</u>	<u>2.00E-10</u>	4.44E-01	7.42E-02
KR-85M	CI	<u>5.40E-08</u>	<u>5.40E-08</u>	5.40E-08	5.40E-08
KR-87	CI	<u>5.10E-08</u>	<u>5.10E-08</u>	5.10E-08	5.10E-08
KR-88	CI	<u>6.60E-08</u>	<u>6.60E-08</u>	1.17E-04	6.60E-08
XE-131M	CI			5.70E-01	2.25E-02
XE-133	CI	<u>1.30E-07</u>	<u>1.30E-07</u>	2.70E 01	3.33E 01
XE-133M	CI			1.41E-01	3.13E-01
XE-135	CI	<u>3.50E-08</u>	<u>3.50E-08</u>	6.80E-02	2.71E-01
XE-135M	CI	<u>5.40E-08</u>	<u>5.40E-08</u>	1.58E-05	5.40E-08
XE-138	CI	<u>4.20E-08</u>	<u>4.20E-08</u>	4.20E-08	4.20E-08
IODINES					
I-131	CI	<u>2.66E-04</u>	<u>7.33E-03</u>	4.00E-14	4.00E-14
I-133	CI	<u>2.54E-05</u>	<u>6.00E-05</u>	2.60E-14	2.60E-14
I-135	CI	<u>1.40E-15</u>	<u>1.40E-15</u>	1.40E-15	1.40E-15
PARTICULATES					
RA-LA-140	CI	<u>4.20E-17</u>	<u>4.20E-17</u>		
CS-134	CI	<u>1.70E-17</u>	<u>1.70E-17</u>		
CS-137	CI	<u>2.40E-17</u>	<u>2.40E-17</u>		
SR-89	CI	<u>8.00E-10</u>	<u>1.12E-08</u>		
SR-90	CI	<u>6.00E-10</u>	<u>4.20E-09</u>		

NOTE: Values underlined should be reported in $\mu\text{Ci/cc}$.

There should be a designation indicating that this

is a minimum detectable limit in units of $\mu\text{Ci/co}$.

Revised Page

These nuclides were not identified in the discharge.

INSTALLATION=BEAVER VALLEY

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1978

GAS EFFLUENTS ELEVATED RELEASE

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4
FSSION GASES					
KR-85	CI	2.00E-10	2.00E-10	1.95E-01	8.21E-01
KR-85M	CI	5.40E-08	5.40E-08	2.84E-06	1.57E-04
KR-87	CI	5.10E-08	5.10E-08	5.10E-08	5.10E-08
KR-88	CI	6.60E-08	6.60E-08	6.60E-08	6.60E-08
XE-131M	CI			5.40E-02	1.59E-02
XE-133	CI	1.30E-07	1.30E-07	3.69E 01	1.17E 01
XE-133M	CI			9.63E 02	9.64E-03
XE-135	CI	3.50E-08	3.50E-08	5.00E-04	3.13E-02
XE-135M	CI	5.40E-08	5.40E-08	5.40E-08	5.40E-08
XE-138	CI	4.20E-08	4.20E-08	4.20E-08	4.20E-08
IODINES					
I-131	CI	3.24E-05	4.00E-14	4.00E-14	4.00E-14
I-133	CI	2.60E-14	2.60E-14	2.60E-14	2.60E-14
I-135	CI	1.40E-15	1.40E-15	1.40E-15	1.40E-15
PARTICULATES					
BA-LA-140	CI	4.20E-17	4.20E-17		
CS-134	CI	1.70E-17	1.70E-17		
CS-137	CI	2.40E-17	2.40E-17		
SR-89	CI	3.60E-08	4.00E-9		
SR-90	CI	2.72E-08	2.80E-9		

INSTALLATION=BEAVER VALLEY

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1978

GAS EFFLUENTS GROUND RELEASE

NUCLIDES RELEASED UNIT QUARTER CONTINUOUS MODE QUARTER BATCH MODE QUARTER

FISSION GASES

KR-85	CI	2.00E-10	2.00E-10	0.00E 00	1.76E 02
KR-85M	CI	5.40E-08	5.40E-08	0.00E 00	5.40E-08
KR-87	CI	5.10E-08	5.10E-08	0.00E 00	5.10E-08
KR-88	CI	6.60E-08	6.60E-08	0.00E 00	6.60E-08
XF-133	CI	1.30E-07	1.30E-07	0.00E 00	1.00E 02
XF-135	CI	3.50E-08	3.50E-08	0.00E 00	1.25E-01
XF-135M	CI	5.40E-08	5.40E-08	0.00E 00	5.40E-08
XF-138	CI	4.20E-08	4.20E-08	0.00E 00	4.20E-08

IODINES

I-131	CI	4.90E-03	3.78E-03	0.00E 00	4.60E-04
I-133	CI	5.78E-05	3.11E-06	0.00E 00	7.20E-05
I-135	CI	1.40E-15	1.40E-15	0.00E 00	1.40E-15

PARTICULATES

SA-LA-140	CI	4.20E-17	4.20E-17	0.00E 00	
CS-134	CI	1.70E-17	1.70E-17	0.00E 00	
CS-137	CI	2.40E-17	2.40E-17	0.00E 00	
CD-89	CI	6.21E-06	1.03E-06	0.00E 00	
SR-90	CI	6.50E-08	6.20E-07	0.00E 00	

INSTALLATION=REAVER VALLEY

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1978

GAS EFFLUENTS GROUND RELEASE

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		QUARTER	QUARTER	QUARTER	QUARTER
		3	4	3	4
FISSION GASES					
KR-85	CI	2.00E-10	2.00E-10	2.00E-10	6.89E-02
KR-85M	CI	5.40E-08	5.40E-08	5.40E-08	5.40E-08
KR-87	CI	5.10E-08	5.10E-08	5.10E-08	5.10E-08
KR-88	CI	6.60E-08	6.60E-08	6.60E-08	6.60E-08
XE-133	CI	1.30E-07	1.30E-07	1.25E-01	8.38E-02
XE-135	CI	3.50E-08	3.50E-08	1.57E-02	3.50E-08
XE-135M	CI	5.40E-08	5.40E-08	5.40E-08	5.40E-08
XE-138	CI	4.20E-08	4.20E-08	4.20E-08	4.20E-08
IODINES					
I-131	CI	3.31E-04	4.00E-14	4.00E-14	4.00E-14
I-133	CI	2.60E-14	2.60E-14	2.60E-14	2.60E-14
I-135	CI	1.40E-15	1.40E-15	1.40E-15	1.40E-15
PARTICULATES					
CO-58	CI	5.30E-10	2.21E-09		
CO-60	CI		5.30E-09		
SR-89	CI	2.95E-06	3.05E-06		
SR-90	CI	5.30E-06	2.61E-07		

INSTALLATION=BEAVER VALLEY

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1978

LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		HATCH MODE	
		QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2
CS-134	CI	N/A	N/A	1.40E-02	1.12E-03
CS-137	CI	N/A	N/A	2.94E-02	3.11E-03
I-131	CI	N/A	N/A	1.23E-02	4.42E-03
SR-89	CI	N/A	N/A	1.03E-05	1.13E-05
SR-90	CI	N/A	N/A	4.75E-06	1.21E-06
CO-58	CI	N/A	N/A	1.00E-02	2.61E-02
CO-60	CI	N/A	N/A	5.01E-03	3.15E-03
CR-51	CI	N/A	N/A		1.32E-03
FE-59	CI	N/A	N/A	1.00E-06	5.57E-04
MN-54	CI	N/A	N/A	9.94E-04	3.33E-04
ZN-65	CI	N/A	N/A	1.20E-07	1.20E-07
RA-LA-140	CI	N/A	N/A	2.56E-04	1.53E-04
CE-141	CI	N/A	N/A	1.20E-07	1.20E-07
MO-99	CI	N/A	N/A	3.70E-07	3.70E-07
TC-99M	CI	N/A	N/A	6.40E-07	6.40E-07
ZR-NH-95	CI	N/A	N/A		3.41E-05
CS-136	CI	N/A	N/A	7.70E-04	
I-133	CI	N/A	N/A	1.21E-03	1.07E-03
NH-97	CI	N/A	N/A	6.82E-05	
XE-133M	CI	N/A	N/A	4.12E-04	
XE-133	CI	N/A	N/A	3.01E-03	1.32E-02
XE-135	CI	N/A	N/A	1.71E-02	5.81E-03

INSTALLATION=BEAVER VALLEY

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1978

LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		QUARTER	QUARTER	QUARTER	QUARTER
		3	4	3	4
CS-134	CI	N/A	N/A	4.27E-05	7.40E-08
CS-137	CI	N/A	N/A	1.47E-03	7.00E-08
I-131	CI	N/A	N/A	2.14E-03	3.20E-08
SR-89	CI	N/A	N/A	7.67E-05	
SR-90	CI	N/A	N/A	1.52E-05	
CO-58	CI	N/A	N/A	4.34E-02	2.62E-02
CO-60	CI	N/A	N/A	1.75E-02	4.14E-02
CR-51	CI	N/A	N/A	1.12E-02	
FE-59	CI	N/A	N/A	3.63E-04	1.00E-06
MN-54	CI	N/A	N/A	3.30E-04	2.36E-03
ZN-65	CI	N/A	N/A	1.20E-07	1.20E-07
HA-LA-140	CI	N/A	N/A		4.50E-07
CE-141	CI	N/A	N/A		1.20E-07
MO-99	CI	N/A	N/A	3.70E-07	3.70E-07
TC-99M	CI	N/A	N/A		6.40E-07
ZR-NB-95	CI	N/A	N/A	7.28E-04	2.24E-05
I-133	CI	N/A	N/A	1.75E-04	
XE-135	CI	N/A	N/A		1.00E-05

INSTALLATION=BEAVER VALLEY

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1978

LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

	UNIT	QUARTER 1	QUARTER 2	EST. TOTAL ERROR,%
A. FISSION AND ACTIVATION PRODUCTS				
1. TOTAL RELEASE (NOT INCLUDING TRITIUM, GASES, ALPHA)	CI	7.42E-02	4.12E-02	2.00E 01
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	MCI/ML	2.52E-08	2.53E-08	
3. PERCENT OF APPLICABLE LIMIT	%	7.42E-01	4.12E-01	
B. TRITIUM				
1. TOTAL RELEASE	CI	1.57E 02	1.27E 02	1.50E 01
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	MCI/ML	5.34E-05	7.78E-05	
3. PERCENT OF APPLICABLE LIMIT	%	1.78E 00	2.60E 00	
C. DISSOLVED AND ENTRAINED GASES				
1. TOTAL RELEASE	CI	2.05E-02	1.90E-02	2.70E 01
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	MCI/ML	6.97E-09	1.16E-08	
3. PERCENT OF APPLICABLE LIMIT	%	2.32E-01	3.87E-01	
D. GROSS ALPHA RADIOACTIVITY				
1. TOTAL RELEASE	CI	4.77E-06	1.07E-07	2.90E 01
E. VOLUME OF WASTE RELEASED (PRIOR TO DILUTION)				
	LITERS	3.88E 06	2.32E 06	5.00E 00
F. VOLUME OF DILUTION WATER USED DURING PERIOD				
	LITERS	2.94E 09	1.63E 09	1.00E 01

INSTALLATION=REAVER VALLEY

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1978

LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

	UNIT	QUARTER 3	QUARTER 4	EST. TOTAL ERROR, %
A. FISSION AND ACTIVATION PRODUCTS				
1. TOTAL RELEASE (NOT INCLUDING TRITIUM, GASES, ALPHA)	CI	7.73E-02	7.00E-02	2.00E 01
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	MCI/ML	5.68E-08	5.93E-08	
3. PERCENT OF APPLICABLE LIMIT	%	7.73E-01	7.00E-01	
B. TRITIUM				
1. TOTAL RELEASE	CI	3.84E 01	2.67E 01	1.50E 01
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	MCI/ML	2.82E-05	2.26E-05	
3. PERCENT OF APPLICABLE LIMIT	%	9.40E-01	7.53E-01	
C. DISSOLVED AND ENTRAINED GASES				
1. TOTAL RELEASE	CI	0E0	1.00E-05	2.70E 01
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	MCI/ML	0E0	8.50E-12	
3. PERCENT OF APPLICABLE LIMIT	%	N/A	N/A	
D. GROSS ALPHA RADIOACTIVITY				
1. TOTAL RELEASE	CI	8.62E-07	6.80E-07	2.90E 01
E. VOLUME OF WASTE RELEASED (PRIOR TO DILUTION)				
	LITERS	1.51E 06	9.33E 05	5.00E 00
F. VOLUME OF DILUTION WATER USED DURING PERIOD				
	LITERS	1.36E 09	1.18E 09	1.00E 01

INSTALLATION= REAVER VALLEY

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 197A
(JANUARY-JUNE)

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFF-SITE FOR BURIAL OR DISPOSAL (NOT IRRADIATED FUEL)
1. TYPE OF WASTE

UNIT	6-MONTH PERIOD	EST. TOTAL ERROR, %
A. SPENT RESINS, FILTER SLUDGES, EVAPORATOR BOTTOMS, ETC.	M3 9.02E 01	
	CI 1.04E 01	3.00E 01
B. DRY COMPRESSIBLE WASTE, CONTAMINATED EQUIPMENT, ETC.	M3 9.90E 01	
	CI 2.12E-01	3.00E 01
C. IRRADIATED COMPONENTS, CONTROL RODS, ETC.	M3	
	CI	
D. OTHER (DESCRIBE)	M3	

2. ESTIMATE OF MAJOR NUCLIDE COMPOSITION (BY TYPE OF WASTE)

	%	
A		
CO-58	2.90E 01	
CO-60	2.00E 01	
CS-137	1.00E 01	
B		
CQ-58	2.90E 01	
CO-60	2.00E 01	
CS-137	1.00E 01	

3. SOLID WASTE DISPOSITION-

NUMBER OF SHIPMENTS	MODE OF TRANSPORTATION	DESTINATION
12	TRUCK	BARNWELL S.C.

4. IRRADIATED FUEL SHIPMENTS (DISPOSITION)

NUMBER OF SHIPMENTS	MODE OF TRANSPORTATION	DESTINATION
0		

INSTALLATION= HAEVER VALLEY

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 1978
(JULY-DECEMBER)

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (NOT IRRADIATED FUEL)		6-MONTH PERIOD	EST. TOTAL ERROR, %
1. TYPE OF WASTE	UNIT		
A. SPENT RESINS, FILTER SLUDGES, EVAPORATOR BOTTOMS, ETC.	M3	8.92E 01	
B. DRY COMPRESSIBLE WASTE, CONTAMINATED EQUIPMENT, ETC.	CI	2.13E 02	3.00E 01
C. IRRADIATED COMPONENTS, CONTROL RODS, ETC.	M3	1.61E 02	
D. OTHER (DESCRIBE)	CI	1.13E 00	3.00E 01
	M3		

2. ESTIMATE OF MAJOR NUCLIDE COMPOSITION (BY TYPE OF WASTE)

A	%
CO-58	4.70E 01
CO-60	4.00E 01
MN-54	2.00E 00
R	
CO-58	4.70E 01
CO-60	4.00E 01
MN-54	2.00E 00

3. SOLID WASTE DISPOSITION-

NUMBER OF SHIPMENTS	MODE OF TRANSPORTATION	DESTINATION
17	TRUCK	HARNWELL S.C.

B. IRRADIATED FUEL SHIPMENTS (DISPOSITION)

NUMBER OF SHIPMENTS	MODE OF TRANSPORTATION	DESTINATION
0		