

# ATTACHMENT A (Page 1 of 5)

## EFFLUENT & WASTE DISPOSABLE SEMI-ANNUAL REPORT

### GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

Period: July through December

1996

A. FISSION & ACTIVATION GASES	UNIT	THIRD QUARTER	FOURTH QUARTER	Est.Total Error %
1. Total Release	ci	3.60E00	9.16E00	12.4
2. Average release rate for the period	μCi/sec	4.53E-01	1.15E00	
3. *Percent of ODCM limit Chimney & Stack	%	1.52E-03 6.71E-05	3.63E-03 1.64E-04	

B. IODINE				
1. Total Iodine-131	ci	5.72E-05	1.01E-04	40.0
2. Average release rate for the period	μCi/sec	7.19E-06	1.27E-05	

C. PARTICULATES				
1. Particulates with half-lives >8 days	ci	9.07E-04	7.81E-04	39.1
2. Average release rate for the period	μCi/sec	1.14E-04	9.83E-05	
3. Gross alpha radioactivity	ci	<LLD	<LLD	

D. TRITIUM				
1. Total Release	ci	8.77E00	1.41E+01	8.0
2. Average release rate for the period	μCi/sec	1.10E00	1.77E00	

E. Iodine 131 & 133, Tritium & Particulate				
1. Percent of ODCM limit Chimney & Stack	%	1.40E-01	1.03E-01	

\* NOBLE GAS GAMMA/NOBLE GAS BETA DOSE LIMITS

9703030167 970226  
PDR ADOCK 05000254  
R PDR

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MAIN CHIMNEY GASEOUS EFFLUENTS  
CONTINUOUS MODE

BATCH MODE

NUCLIDES RELEASED 1. Fission gases	UNIT	THIRD QUARTER	FOURTH QUARTER	THIRD QUARTER	FOURTH QUARTER
Kr-85	Ci	<LLD	<LLD	NA	NA
Kr-85m	Ci	2.35E-01	5.10E-01	NA	NA
Kr-87	Ci	1.07E-01	2.37E-01	NA	NA
Kr-88	Ci	1.98E-01	4.25E-01	NA	NA
Xe-133	Ci	1.54E-01	8.45E-01	NA	NA
Xe-135	Ci	8.85E-02	1.61E-01	NA	NA
Xe-135m	Ci	4.81E-01	1.19E00	NA	NA
Xe-138	Ci	2.01E00	4.88E00	NA	NA
Ar-41	Ci	3.27E-01	9.08E-01	NA	NA
Total for Period	Ci	3.60E00	9.16E00	NA	NA
NUCLIDES RELEASED 2. Iodines	UNIT	THIRD QUARTER	FOURTH QUARTER	THIRD QUARTER	FOURTH QUARTER
I-131	Ci	5.72E-05	1.01E-04	NA	NA
I-133	Ci	6.2E-04	9.22E-04	NA	NA
I-135	Ci	<LLD	<LLD	NA	NA
Total for period	Ci	6.81E-04	1.02E-03	NA	NA
NUCLIDES RELEASED 3. Particulates	UNIT	THIRD QUARTER	FOURTH QUARTER	THIRD QUARTER	FOURTH QUARTER
Sr-89*	Ci	7.22E-05	7.17E-05	NA	NA
Sr-90	Ci	<LLD	<LLD	NA	NA
Cs-134	Ci	<LLD	<LLD	NA	NA
Cs-137	Ci	<LLD	<LLD	NA	NA
Ba-140	Ci	<LLD	5.60E-05	NA	NA
La-140	Ci	<LLD	<LLD	NA	NA
Cr-51	Ci	<LLD	<LLD	NA	NA
Mn-54	Ci	<LLD	<LLD	NA	NA
Co-58	Ci	<LLD	<LLD	NA	NA
Co-60	Ci	1.72E-04	9.84E-05	NA	NA
Mo-99	Ci	<LLD	<LLD	NA	NA
Ag-110m	Ci	1.14E-05	<LLD	NA	NA
I-131	Ci	<LLD	<LLD	NA	NA
I-133	Ci	7.66E-05	<LLD	NA	NA
Total for Period	Ci	3.32E-04	2.26E-04	NA	NA

\*Projected data based on previous six months available data.

# ATTACHMENT A (Page 3 of 5) EFFLUENT & WASTE DISPOSABLE SEMI-ANNUAL REPORT

REACTOR VENTILATION GASEOUS EFFLUENTS  
CONTINUOUS MODE

BATCH MODE

NUCLIDES RELEASED 1. Fission gases	UNIT	THIRD QUARTER	FOURTH QUARTER	THIRD QUARTER	FOURTH QUARTER
Kr-85	ci	<LLD	<LLD	NA	NA
Kr-85m	ci	<LLD	<LLD	NA	NA
Kr-87	ci	<LLD	<LLD	NA	NA
Kr-88	ci	<LLD	<LLD	NA	NA
Xe-133	ci	<LLD	<LLD	NA	NA
Xe-135	ci	<LLD	<LLD	NA	NA
Xe-135m	ci	<LLD	<LLD	NA	NA
Xe-138	ci	<LLD	<LLD	NA	NA
Total for Period	ci	<LLD	<LLD	NA	NA
NUCLIDES RELEASED 2. Iodines	UNIT	THIRD QUARTER	FOURTH QUARTER	THIRD QUARTER	FOURTH QUARTER
I-131	ci	<LLD	<LLD	NA	NA
I-133	ci	<LLD	5.39E-05	NA	NA
I-135	ci	<LLD	<LLD	NA	NA
Total for period	ci	<LLD	5.39E-05	NA	NA
NUCLIDES RELEASED 3. Particulates	UNIT	THIRD QUARTER	FOURTH QUARTER	THIRD QUARTER	FOURTH QUARTER
Sr-89*	ci	8.40E-06	5.60E-06	NA	NA
Sr-90*	ci	<LLD	<LLD	NA	NA
Cs-134	ci	<LLD	<LLD	NA	NA
Cs-137	ci	5.53E-06	7.57E-06	NA	NA
Ba-140	ci	<LLD	<LLD	NA	NA
La-140	ci	<LLD	<LLD	NA	NA
Cr-51	ci	<LLD	<LLD	NA	NA
Mn-54	ci	<LLD	<LLD	NA	NA
Co-58	ci	<LLD	<LLD	NA	NA
Co-60	ci	5.61E-04	5.25E-04	NA	NA
Mo-99	ci	<LLD	1.71E-05	NA	NA
Ag-110m	ci	<LLD	<LLD	NA	NA
I-131	ci	<LLD	<LLD	NA	NA
I-133	ci	<LLD	<LLD	NA	NA
Total for Period	ci	5.75E-04	5.55E-04	NA	NA

\*Projected data based on previous six months available data.

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### EFFLUENT & WASTE DISPOSABLE SEMI-ANNUAL REPORT

#### LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

A. FISSION & ACTIVATION GASES	UNIT	THIRD QUARTER	FOURTH QUARTER	Est.Total Error %
1. Total Release (not including tritium, gases & alpha)	Ci	2.86E-03	1.80E-03	5.6
2. Average diluted concentration during batch discharges for the period	μCi/mL	3.01E-10	1.90E-10	
3. Percent of applicable limit*	%	6.72E-03 3.18E-03	2.29E-03 9.44E-04	
4. Maximum diluted concentration during batch discharges	μCi/mL	2.70E-09	4.94E-10	
B. TRITIUM				
1. Total Release	Ci	3.33E00	6.32E00	4.0
2. Average diluted concentration during batch discharges for the period	μCi/mL	3.50E-07	6.66E-07	
3. Percent of applicable limit	%	1.17E-02	2.22E-02	
C. DISSOLVED & ENTRAINED GASES				
1. Total Release	Ci	1.60E-04	<LLD	5.6
2. Average diluted concentration during batch discharges for the period	μCi/mL	1.68E-11	<LLD	
3. Percent of applicable limit	%	8.40E-06	NA	
D. GROSS ALPHA ACTIVITY				
1. Total Release	Ci	<LLD	<LLD	NA
2. Average diluted concentration during batch discharges for the period	μCi/mL	<LLD	<LLD	
E. VOLUME OF WASTE RELEASED (prior to dilution)	Liters	1.46E+06	1.31E+06	
F. VOLUME OF DILUTION WATER USED DURING BATCH DISCHARGES	Liters	9.51E+09	9.49E+09	
G. TOTAL VOLUME OF DILUTION WATER USED DURING PERIOD (quarter)	Liters	3.55E+11	3.86E+11	

\* Whole Body/Crgan (ODCM)

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## EFFLUENT & WASTE DISPOSABLE SEMI-ANNUAL REPORT

### LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		THIRD QUARTER	FOURTH QUARTER	THIRD QUARTER	FOURTH QUARTER
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	<LLD	<LLD	7.75E-05	2.51E-05
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	1.58E-03	4.01E-04
I-131	Ci	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	<LLD	<LLD	1.11E-03	1.10E-03
Co-58	Ci	<LLD	<LLD	<LLD	<LLD
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD
Mn-54	Ci	<LLD	<LLD	<LLD	1.55E-05
Cr-51	Ci	<LLD	<LLD	<LLD	1.31E-04
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD
Ba-140	Ci	<LLD	<LLD	<LLD	<LLD
La-140	Ci	<LLD	<LLD	<LLD	<LLD
Fe-55	Ci	<LLD	<LLD	9.29E-05	1.30E-04
Unidentified	Ci	<LLD	<LLD	<LLD	<LLD
Total for Period (above)	Ci	<LLD	<LLD	2.86E-03	1.80E-03
Xe-133	Ci	<LLD	<LLD	8.79E-05	<LLD
Xe-135	Ci	<LLD	<LLD	7.19E-05	<LLD

Prepared by:  Date: 2/3/97

Approved by: Paul A. Behem Date: 2/26/97



July-September 1996  
196-33 ft. DIFFERENTIAL TEMPERATURE

SPEED CLASS	WIND DIRECTION CLASSES																TOTAL	STABILITY CLASSES							TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		EU	MU	SU	N	SS	MS	ES	
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
3 SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					
- N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				
1 SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			
W MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.05	.00	.00	.19	.19							
MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05	.05							
1 SU	.00	.05	.00	.05	.00	.00	.00	.00	.05	.05	.05	.14	.10	.05	.00	.53		.53							
- N	.14	.19	.10	.39	.48	.24	.43	.63	.48	.24	.19	.82	.53	.68	.39	.05	5.99		5.99						
3 SS	.39	.39	.48	.48	.68	.63	.63	.53	.63	.43	.82	.68	1.06	1.35	.63	.43	10.24		10.24						
MS	.57	.66	1.01	.81	1.01	1.75	.42	.61	.91	.61	.52	.32	.96	1.21	1.01	.81	13.18				13.18				
ES	.31	.70	.76	1.55	2.11	2.90	.76	.81	.76	.53	.53	.48	.59	.53	.48	.42	14.20					14.20			
EU	.19	.14	.05	.05	.05	.00	.14	.39	.72	.48	.63	1.16	1.06	1.26	.43	6.76	6.76								
MU	.14	.10	.10	.05	.19	.05	.14	.19	.10	.39	.29	.19	.24	.24	.34	.24	2.99	2.99							
3 SU	.10	.24	.29	.19	.19	.39	.29	.34	.24	.53	.34	.43	.34	.24	.19	.43	4.78	4.78							
- N	.29	.34	.92	1.50	1.30	1.40	.92	1.06	.48	.97	1.16	1.21	1.01	.92	1.06	.68	15.21		15.21						
7 SS	.72	.10	.19	.48	.77	.92	1.16	.82	.58	1.01	1.69	1.16	1.74	1.59	1.40	1.06	15.40				15.40				
MS	.00	.00	.29	.05	.05	.43	.10	.05	.00	.05	.14	.00	.19	.19	.24	.14	1.93				1.93				
ES	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05				.05				
EU	.24	.29	.53	.00	.00	.00	.00	.00	.24	.19	.05	.10	.72	.58	1.01	3.96	3.96								
MU	.10	.00	.14	.00	.14	.00	.00	.10	.00	.00	.00	.00	.14	.14	.14	.92	.92								
8 SU	.14	.05	.00	.00	.05	.14	.00	.00	.05	.00	.05	.10	.19</												

July-September 1996  
196-33 ft. DIFFERENTIAL TEMPERATURE

SPEED CLASS	WIND DIRECTION CLASSES						WIND DIRECTION CLASSES											STABILITY CLASSES							
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
1 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
9 SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
2 SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
4 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
TOT	3.53	3.44	5.10	5.74	7.22	9.72	4.84	5.29	4.85	5.83	7.04	6.20	8.50	9.27	8.29	5.91	100.77	10.91	3.96	6.42	23.71	26.41	15.11	14.24	100.77

### Wind Direction by Stability

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-STABILITY CLASSES-
.43	.43	.58	.05	.05	.00	.00	.14	.39	.97	.68	.68	1.40	1.83	1.83	1.45	10.91	Extremely Unstable
.24	.10	.24	.05	.34	.05	.14	.19	.19	.39	.29	.19	.29	.39	.48	.39	3.96	Moderately Unstable
.24	.34	.29	.24	.24	.53	.29	.34	.29	.58	.43	.58	.68	.43	.43	.48	6.42	Slightly Unstable
.63	.72	1.21	2.03	1.93	2.12	1.35	1.69	1.11	1.26	1.79	2.12	1.59	1.74	1.69	.72	23.71	Neutral
1.11	.48	.72	.97	1.50	1.88	1.79	1.45	1.21	1.45	2.66	1.83	2.80	2.95	2.12	1.50	26.41	Slightly Stable
.57	.66	1.30	.86	1.06	2.18	.51	.66	.91	.66	.66	.32	1.15	1.40	1.25	.96	15.11	Moderately Stable
.31	.70	.76	1.55	2.11	2.95	.76	.81	.76	.53	.53	.48	.59	.53	.48	.42	14.24	Extremely Stable

### Wind Direction by Wind Speed

[illegible]

CECo QUAD CITIES STATION  
296 ft. WIND SPEED and WIND DIRECTION

July-September 1996  
296-33 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2086  
VALUES ARE PERCENT OCCURRENCE

SPEED CLASS	WIND DIRECTION CLASSES																STABILITY CLASSES								
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					
MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				
C SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			
A N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
L SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
N MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
																								.00	
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				
MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			
1 SU	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05				
- N	.14	.00	.05	.14	.05	.10	.19	.24	.19	.14	.05	.24	.05	.29	.34	.00	2.21			.05	2.21				
3 SS	.05	.05	.00	.19	.00	.10	.05	.00	.05	.00	.10	.00	.00	.00	.10	.10	.77				.77				
MS	.08	.08	.16	.23	.23	.13	.08	.08	.08	.13	.02	.02	.02	.18	.18	.02	1.73					1.73			
ES	.19	.08	.02	.19	.24	.02	.02	.02	.02	.02	.13	.02	.08	.13	.02	.02	1.25						1.25		
																								5.99	
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.05	.05							
MU	.00	.05	.14	.19	.10	.10	.10	.00	.05	.10	.05	.05	.05	.10	.10	.19	1.34	1.34							
4 SU	.29	.19	.19	.10	.34	.34	.34	.19	.05	.34	.19	.38	.53	.53	.48	.19	4.46	4.46							
- N	.14	.29	.34	.67	.58	.48	.62	.81	.34	.43	.67	.53	.77	.43	.43	.34	7.86	7.86							
7 SS	.38	.29	.24	.24	.53	.10	.29	.24	.14	.10	.14	.00	.14	.34	.43	.48	4.07	4.07							
MS	.19	.19	.24	.34	.43	.48	.29	.24	.10	.14	.05	.34	.53	.14	.19	.24	4.12					4.12			
ES	.24	.10	.29	.10	.19	.10	.67	.10	.29	.24	.38	.29	.34	.10	.14	.05	3.60						3.60		
																								25.50	
EU	.05	.05	.00	.00	.00	.00	.00	.05	.14	.05	.00	.10	.10	.10	.34	.34	1.29	1.29							
MU	.10	.14	.10	.00	.10	.10	.00	.19	.29	.62	.14	.14	.29	.19	.53	.05	2.97	2.97							
8 SU	.10	.14	.14	.10	.05	.10	.34	.14	.19	.29	.00	.14	.29	.19	.29	.19	2.68	2.68							
- N	.34	.10	.29	.10	.48	.72	.58	.62	.14	.67	.53	.58	.53	.53	.72	.72	8.63	8.63							
1 SS	.77	.34	.38	.48	.34	.62	.34	.77	.43	.53	.58	1.20	.72	.53	.77	1.05	9.83	9.83							
2 MS	.48	.14	.72	.38	.43	.34	.48	.58	.72	.43	.14	.19	.34	.10	.58	.48	6.52					6.52			
ES	.00	.00	.05	.29	.10	.72	.48	.53	.48	.38	.38	.10	.05	.05	.14	.00	3.74						3.74		
																								35.67	
EU	.24	.14	.43	.00	.00	.00	.00	.00	.00	.29	.05	.14	.05	.38	.29	.62	2.64	2.64							
1 MU	.05	.10	.14	.00	.00	.05	.00	.00	.05	.10	.00	.05	.24	.34	.24	.34	1.68	1.68							
3 SU	.10	.05	.10	.05	.14	.14	.05	.00	.14	.10	.00	.10	.14	.14	.38	.29	1.92	1.92							
- N	.29	.34	.43	.53	.19	.72	.43	.00	.62	.43	.62	.43	.72	.53	.77	.29	7.33	7.33							
1 SS	.67	.48	.34	.14	.24	.53	.72	.72	.53	1.05	.81	.72	.81	1.68	.77	.81	11.03	11.03							
8 MS	.05	.05	.34	.14	.29	.38	.72	.34	.62	.53	.14	.24	.05	.00	.05	.43	4.36					4.36			
ES	.00	.00	.00	.00	.00	.05	.24	.14	.24	.00	.00	.00	.00	.10	.00	.05	.81						.81		
																								29.77	



CECO QUAD CITIES STATION  
296 ft. WIND SPEED and WIND DIRECTION

July-September 1996  
296-33 ft. DIFFERENTIAL TEMPERATURE

SPEED CLASS	WIND DIRECTION CLASSES																STABILITY CLASSES								
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.00	.00	.24	.24							
MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.05	.00	.14		.14						
9 SU	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.19	.05	.00	.38			.38					
N	.05	.00	.05	.00	.00	.43	.00	.00	.14	.10	.05	.10	.10	.14	.14	.00	1.29				1.29				
2 SS	.00	.00	.00	.00	.00	.05	.24	.19	.24	.05	.29	.00	.10	.00	.00	.10	1.25					1.25			
4 MS	.00	.00	.00	.00	.00	.10	.10	.00	.19	.00	.10	.00	.00	.00	.00	.00	.48						.48		
ES	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05						.05		
																									3.84
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
6 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00						
T SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			.00					
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				.00				
2 SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00			
4 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						.00		
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						.00		
																							.00		.00
TOT	5.01	3.37	5.19	5.64	5.02	6.77	7.34	6.19	6.52	7.29	5.67	6.18	7.05	7.65	8.50	7.38	100.77	4.22	6.14	9.49	27.33	26.94	17.21	9.44	100.77

Wind Direction by Stability

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-STABILITY CLASSES-	
.29	.19	.43	.00	.00	.00	.00	.05	.14	.34	.05	.29	.14	.72	.62	.96	4.22	Extremely Unstable	
.14	.29	.38	.19	.19	.24	.10	.19	.38	.86	.24	.24	.58	.62	.91	.59	6.14	Moderately Unstable	
.53	.38	.43	.29	.53	.38	.72	.34	.38	.72	.19	.67	1.01	1.05	1.20	.67	9.49	Slightly Unstable	
.96	.72	1.15	2.44	1.29	2.44	1.82	1.68	1.44	1.77	1.92	1.87	2.16	1.92	2.40	1.34	27.33	Neutral	
1.87	1.15	.96	1.05	1.10	1.39	1.63	1.92	1.39	1.73	1.92	1.92	1.77	2.54	2.06	2.54	26.94	Slightly Stable	
.79	.46	1.47	1.09	1.38	1.42	1.66	1.23	1.71	1.23	.46	.79	.93	.42	.99	1.17	17.21	Moderately Stable	
.43	.17	.36	.57	.53	.89	1.41	.79	1.08	.65	.90	.41	.46	.37	.31	.12	9.44	Extremely Stable	

Wind Direction by Wind Speed

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-WIND SPEED CLASSES-	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	CALM	
.45	.20	.25	.80	.52	.34	.34	.34	.34	.30	.30	.29	.15	.60	.63	.14	5.99	0.9 - 3.5 mph	
1.25	1.10	1.44	1.63	2.16	1.39	2.30	1.58	.96	1.34	1.49	1.63	2.35	1.63	1.77	1.49	25.50	3.6 - 7.5 mph	
1.82	.91	1.68	2.35	1.49	2.59	2.21	2.88	2.40	2.97	1.77	2.44	2.30	1.68	3.36	2.83	35.67	7.6 - 12.5 mph	
1.39	1.15	1.77	.86	.86	1.87	2.16	1.20	2.21	2.49	1.63	1.68	2.01	3.16	2.49	2.83	29.77	12.6 - 18.5 mph	
.10	.00	.05	.00	.00	.58	.34	.19	.62	.19	.48	.14	.24	.58	.24	.10	3.84	18.6 - 24.5 mph	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	> 24.5 mph	

October-December 1996  
196-33 ft. DIFFERENTIAL TEMPERATURE

SPEED CLASS	WIND DIRECTION CLASSES																STABILITY CLASSES								TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
C SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00				
A N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			.00			
L SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				.00		
M MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00	
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00	
																									.00
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
1 SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05			.05					
- N	.14	.09	.27	.32	.27	.27	.50	.18	.18	.23	.27	.41	.54	.27	.41	.09	4.45				4.45				
3 SS	.25	.30	.57	.25	.53	.75	.85	.75	.39	.39	.30	.39	.71	.43	.25	.25	7.36					7.36			
MS	.07	.07	.44	.58	.76	.53	.62	.81	.44	.25	.12	.07	.21	.12	.02	.21	5.31						5.31		
ES	.02	.11	.11	.21	.90	.94	.34	.34	.07	.11	.07	.02	.25	.30	.07	.02	3.91							3.91	
																									21.07
EU	.05	.05	.18	.00	.00	.00	.18	.41	.91	.23	.18	.41	.23	.18	.00	3.00	3.00								
MU	.05	.09	.14	.05	.05	.00	.14	.05	.00	.05	.09	.09	.00	.05	.00	.82	.82								
4 SU	.14	.14	.09	.18	.05	.18	.00	.09	.18	.09	.14	.32	.18	.14	.14	2.13			2.13						
- N	1.41	.91	2.13	1.77	1.73	1.09	1.45	1.73	.50	.41	.68	1.41	3.04	4.04	2.09	.86	25.25				25.25				
7 SS	.23	.32	.45	.54	1.00	1.91	1.23	1.63	1.23	1.32	.64	.77	2.27	1.00	.50	.14	15.17					15.17			
MS	.09	.05	.09	.14	.18	.50	.41	.36	.09	.05	.14	.00	.00	.00	.05	.00	2.13						2.13		
ES	.00	.05	.00	.00	.00	.86	.00	.00	.00	.00	.00	.00	.00	.00	.00	.91							.91		49.41
EU	.00	.05	.05	.00	.09	.05	.32	.14																	

October-December 1996  
196-33 ft. DIFFERENTIAL TEMPERATURE

SPEED CLASS	WIND DIRECTION CLASSES																STABILITY CLASSES								
	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL	
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
1 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
9 SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.18	.00	.00	.00	.23	.00	.00	.00	.23	.00	.00	.00	.00	
2 SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
4 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
																								.23	
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
6 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
7 SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
2 SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
4 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
																								.00	
TOT	3.89	2.57	5.53	4.58	6.36	8.68	7.90	7.95	4.57	4.98	3.02	5.48	14.84	12.93	5.16	2.66	101.09	6.40	1.63	3.91	50.18	26.70	7.45	4.81	101.09

### Wind Direction by Stability

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-STABILITY CLASSES-
.09	.09	.23	.00	.09	.05	.32	.32	.41	1.50	.41	.32	1.23	.91	.36	.09	6.40	Extremely Unstable
.05	.14	.14	.05	.09	.05	.09	.14	.05	.00	.09	.14	.18	.36	.05	.05	1.63	Moderately Unstable
.18	.18	.09	.18	.18	.27	.05	.32	.23	.09	.09	.23	1.09	.36	.23	.14	3.91	Slightly Unstable
2.86	1.27	3.36	2.41	2.54	2.41	2.86	2.41	1.23	.95	1.09	3.45	8.67	9.26	3.63	1.77	50.18	Neutral
.52	.61	1.07	1.02	1.62	3.07	3.21	3.25	2.07	2.02	1.02	1.25	3.21	1.61	.75	.39	26.70	Slightly Stable
.16	.11	.53	.71	.94	1.03	1.03	1.17	.53	.30	.25	.07	.21	.12	.07	.21	7.45	Moderately Stable
.02	.16	.11	.21	.90	1.81	.34	.34	.07	.11	.07	.02	.25	.30	.07	.02	4.81	Extremely Stable

### Wind Direction by Wind Speed

[illegible]



CECo QUAD CITIES STATION  
296 ft. WIND SPEED and WIND DIRECTION

October-December 1996  
296-33 ft. DIFFERENTIAL TEMPERATURE

SPEED CLASS	WIND DIRECTION CLASSES																STABILITY CLASSES								
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05	.10	.10								
1 MU	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05	.00	.00	.00	.19	.05	.00	.33		.33						
9 SU	.05	.00	.00	.00	.00	.00	.14	.05	.00	.00	.00	.00	.14	.33	.05	.10	.86			.86					
- N	.19	.00	.24	.38	.00	.24	.38	.48	.57	.67	.00	.10	2.24	2.86	.90	.14	9.38				9.38				
2 SS	.00	.00	.00	.10	.00	.24	.67	1.09	.71	.38	.00	.05	.24	.14	.00	.00	3.62					3.62			
4 MS	.00	.00	.00	.00	.00	.10	.24	.00	.10	.05	.00	.00	.00	.00	.00	.00	.48					.48			
ES	.00	.00	.00	.00	.00	.00	.19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19						.19		14.95
EU	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
6 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05		.05						
T SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.14			.14					
N	.00	.00	.05	.00	.00	.14	.05	.24	.19	.00	.00	.14	.86	.81	.00	.00	2.48				2.48				
2 SS	.00	.00	.00	.00	.00	.05	.00	.29	.29	.19	.10	.00	.00	.00	.00	.00	.90					.90			
4 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00			
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						.00		3.57
TOT	3.36	2.74	4.55	4.21	3.46	4.95	7.50	7.60	8.92	8.31	3.64	2.74	12.45	11.88	10.45	3.64	100.38	1.19	2.90	4.47	55.74	26.84	7.04	2.19	100.38

Wind Direction by Stability

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-STABILITY CLASSES-
.00	.00	.05	.00	.00	.00	.05	.00	.10	.62	.24	.00	.05	.05	.00	.05	1.19	Extremely Unstable
.05	.10	.19	.00	.05	.00	.19	.10	.14	.62	.14	.14	.33	.43	.43	.00	2.90	Moderately Unstable
.05	.24	.24	.14	.00	.19	.29	.38	.33	.33	.19	.14	.62	.76	.48	.10	4.47	Slightly Unstable
2.62	1.81	3.00	2.57	2.52	1.90	2.43	3.00	2.76	1.95	1.14	1.76	9.00	8.57	8.28	2.43	55.74	Neutral
.45	.55	.88	.93	.75	2.09	3.02	3.13	4.02	3.40	1.50	.40	2.27	1.55	1.02	.88	26.84	Slightly Stable
.14	.00	.10	.38	.14	.76	1.00	.81	1.29	.95	.38	.29	.19	.33	.14	.14	7.04	Moderately Stable
.05	.05	.10	.19	.00	.00	.52	.19	.29	.43	.05	.00	.00	.19	.10	.05	2.19	Extremely Stable

Wind Direction by Wind Speed

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-WIND SPEED CLASSES-
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	CALM
.07	.02	.07	.07	.17	.24	.12	.27	.02	.12	.07	.12	.22	.21	.07	.17	2.05	0.9 - 3.5 mph
.57	.43	.76	1.09	.57	1.05	.76	.67	.76	.67	.67	.57	1.05	.67	.81	.57	11.66	3.6 - 7.5 mph
1.09	1.48	1.71	1.43	1.95	.86	1.57	1.86	2.19	1.62	.86	.57	1.95	2.38	4.57	1.09	27.18	7.6 - 12.5 mph
1.38	.81	1.71	1.14	.76	2.05	3.33	2.67	4.09	4.52	1.95	1.19	5.76	4.09	4.00	1.52	40.98	12.6 - 18.5 mph
.24	.00	.24	.48	.00	.57	1.67	1.62	1.38	1.19	.00	.14	2.62	3.52	1.00	.29	14.95	18.6 - 24.5 mph
.00	.00	.05	.00	.00	.19	.05	.52	.48	.19	.10	.14	.86	1.00	.00	.00	3.57	> 24.5 mph

## Solid Waste Shipped Offsite for Disposal

\*\* During Period From 07/01/96 to 12/31/96 \*\*

Waste Stream : Resins, Filters, &amp; Evap Bottoms

RADMAN Waste Type(s):

PR-D-NA COND 215  
PR-D-NA RWCU 120  
BR-D-NA NSRT 215  
PR-D-NA RWCU 120 \*  
BR-D-NA-DEC 120  
PR-D-NA COND 179  
CF-D-NA 215 FEXM \*  
BR-D-NA NSRT 170  
CF-D-NA 120 MTIF \*  
PR-D-NA COND 170  
PR-D-NA COND 120

Waste Class	Volume Ft <sup>3</sup>	M <sup>3</sup>	Curies Shipped
A	1354.9	38.3	1.53E+03
B	120.3	3.4	4.80E+02
C	.0	.0	0.00E+00
All	1475.2	41.7	2.01E+03

\*-Combined Waste Type Shipment, Major Volume Waste Type Shown



Solid Waste Shipped Offsite for Disposal

\*\* During Period From 07/01/96 to 12/31/96 \*\*

Waste Stream : Dry Active Waste

RADMAN Waste Type(s):

DAW-U-NA 8x8x20  
 DAW-C-NA 55 DRUM  
 DAW-U-NA 8x8x40  
 DAW-U-NA ALARON  
 CF-D-NA FG Box  
 DAW-U-NA B25 Box  
 DAW-U-NA OVRPAK \*  
 DAW-U-NA 55 Drum  
 DAW-U-NA OIL PKS  
 DAW-U-NA B25  
 DAW-U-NA BOX  
 DAW-U-NA FG Box

Waste Class	Volume Ft^3	M^3	Curies Shipped
A	35851.9	1014.6	4.56E+00
B	.0	.0	0.00E+00
C	.0	.0	0.00E+00
All	35851.9	1014.6	4.56E+00

\*-Combined Waste Type Shipment, Major Volume Waste Type Shown

Solid Waste Shipped Offsite for Disposal

\*\* During Period From 07/01/96 to 12/31/96 \*\*

Waste Stream : Irradiated Components

RADMAN Waste Type(s):

IC-D-NA TNRAM

IC-D-NA TNRAMINS

IC-D-NA 41 VL's

Waste Class	Volume Ft^3	M^3	Curies Shipped
A	.0	.0	0.00E+00
B	14.6	.4	4.43E+03
C	367.2	10.4	4.50E+04
All	381.8	10.8	4.94E+04

\*-Combined Waste Type Shipment, Major Volume Waste Type Shown

Solid Waste Shipped Offsite for Disposal

\*\* During Period From 07/01/96 to 12/31/96 \*\*

Waste Stream : Other Waste

RADMAN Waste Type(s):

None Selected.

Waste Class	Volume Ft^3	M^3	Curies Shipped
A	.0	.0	0.00E+00
B	.0	.0	0.00E+00
C	.0	.0	0.00E+00
All	.0	.0	0.00E+00

\*-Combined Waste Type Shipment, Major Volume Waste Type Shown

## Solid Waste Shipped Offsite for Disposal

\*\* During Period From 07/01/96 to 12/31/96 \*\*

Waste Stream : Sum of All 4 Categories

RADMAN Waste Type(s):

DAW-U-NA 8x8x20  
 DAW-C-NA 55 DRUM  
 PR-D-NA COND 215  
 DAW-U-NA 8x8x40  
 DAW-U-NA ALARON  
 PR-D-NA RWCU 120  
 CF-D-NA FG Box  
 BR-D-NA NSRT 215  
 DAW-U-NA B25 Box  
 PR-D-NA RWCU 120 \*  
 BR-D-NA-DEC 120  
 PR-D-NA COND 179  
 CF-D-NA 215 FEXM \*  
 DAW-U-NA OVRPAK \*  
 DAW-U-NA 55 Drum  
 BR-D-NA NSRT 170  
 CF-D-NA 120 MTIF \*  
 PR-D-NA COND 170  
 PR-D-NA COND 120  
 DAW-U-NA OIL PKS  
 DAW-U-NA B25  
 DAW-U-NA BOX  
 DAW-U-NA FG Box  
 IC-D-NA TNRAM  
 IC-D-NA TNRAMINS  
 IC-D-NA 41 VL's

Waste Class	Volume		Curies Shipped
	Ft^3	M^3	
A	37206.8	1053.0	1.54E+03
B	134.9	3.8	4.91E+03
C	367.2	10.4	4.50E+04
All	37708.9	1067.2	5.14E+04

\*-Combined Waste Type Shipment, Major Volume Waste type shown

\*\* Estimates of Major Nuclides by Waste Class and Stream \*\*  
Waste Stream: Resins, Filters, & Evap Bottoms with 0 % Cutoff.

Waste Class	Nuclide Name	Percent Abundance	Curies
-----	-----	-----	-----
A	Co-60	72.008%	1.10E+03
	Fe-55	15.797%	2.42E+02
	Mn-54	9.621%	1.48E+02
	Cs-137	1.083%	1.66E+01
	Zn-65	.808%	1.24E+01
	Ni-63	.570%	8.74E+00
	Co-58	.088%	1.35E+00
	C-14	.058%	8.88E-01
	Ag-110m	.027%	4.18E-01
	Sr-90	.003%	5.21E-02
	H-3	.002%	3.47E-02
	Pu-241	.001%	2.23E-02
	Sr-89	.001%	1.66E-02
	Ce-144	.000%	3.03E-03
	Am-241	.000%	6.99E-04
	Cm243/44	.000%	6.58E-04
	Pu-238	.000%	5.17E-04
	Pu239/40	.000%	1.37E-04
	Cm-242	.000%	1.35E-04
	I-129	.000%	0.00E+00
	Tc-99	.000%	0.00E+00
	Nb-94	.000%	0.00E+00
	Ni-59	.000%	0.00E+00

\*\* Estimates of Major Nuclides by Waste Class and Stream \*\*  
 Waste Stream: Resins, Filters, & Evap Bottoms with 0 % Cutoff.

Waste Class	Nuclide Name	Percent Abundance	Curies
-----	-----	-----	-----
B	Co-60	72.500%	3.48E+02
	Fe-55	14.854%	7.13E+01
	Mn-54	10.292%	4.94E+01
	Zn-65	1.596%	7.66E+00
	Cs-137	.469%	2.25E+00
	Ni-63	.308%	1.48E+00
	Sr-90	.016%	7.67E-02
	Pu-241	.006%	2.67E-02
	C-14	.004%	1.71E-02
	H-3	.001%	5.71E-03
	Am-241	.000%	1.22E-03
	Cm-243/44	.000%	1.15E-03
	Pu-238	.000%	9.04E-04
	Pu-239/40	.000%	4.08E-04
	Cm-242	.000%	8.96E-05
	I-129	.000%	0.00E+00
	Tc-99	.000%	0.00E+00
	Nb-94	.000%	0.00E+00
	Ni-59	.000%	0.00E+00



\*\* Estimates of Major Nuclides by Waste Class and Stream \*\*  
Waste Stream: Resins, Filters, & Evap Bottoms with 0 % Cutoff.

Waste Class	Nuclide Name	Percent Abundance	Curies
-----	-----	-----	-----
All	Co-60	72.125%	1.45E+03
	Fe-55	15.572%	3.14E+02
	Mn-54	9.781%	1.97E+02
	Zn-65	.996%	2.00E+01
	Cs-137	.936%	1.89E+01
	Ni-63	.508%	1.02E+01
	Co-58	.067%	1.35E+00
	C-14	.045%	9.05E-01
	Ag-110m	.021%	4.18E-01
	Sr-90	.006%	1.29E-01
	Pu-241	.002%	4.90E-02
	H-3	.002%	4.04E-02
	Sr-89	.001%	1.66E-02
	Ce-144	.000%	3.03E-03
	Am-241	.000%	1.92E-03
	Cm243/44	.000%	1.81E-03
	Pu-238	.000%	1.42E-03
	Pu239/40	.000%	5.45E-04
	Cm-242	.000%	2.24E-04
	I-129	.000%	0.00E+00
	Tc-99	.000%	0.00E+00
	Nb-94	.000%	0.00E+00
	Ni-59	.000%	0.00E+00

\*\* Estimates of Major Nuclides by Waste Class and Stream \*\*  
Waste Stream: Dry Active Waste with 0 % Cutoff.

Waste Class	Nuclide Name	Percent Abundance	Curies
-----	-----	-----	-----
A	Co-60	53.147%	2.43E+00
	Fe-55	36.000%	1.64E+00
	Cs-137	3.853%	1.76E-01
	Ni-63	2.662%	1.22E-01
	Mn-54	2.589%	1.18E-01
	Ce-144	.916%	4.18E-02
	Pu-241	.453%	2.07E-02
	C-14	.349%	1.59E-02
	H-3	.130%	5.92E-03
	Cm243/44	.005%	2.35E-04
	Am-241	.003%	1.38E-04
	Pu-238	.002%	1.01E-04
	Sr-90	.002%	7.96E-05
	Sr-89	.001%	5.09E-05
	Pu239/40	.000%	8.18E-07
	Cm-242	.000%	8.05E-07
	I-129	.000%	0.00E+00
	Tc-99	.000%	0.00E+00
	Nb-94	.000%	0.00E+00
	Ni-59	.000%	0.00E+00

\*\* Estimates of Major Nuclides by Waste Class and Stream \*\*  
Waste Stream: Dry Active Waste with 0 % Cutoff.

Waste Class	Nuclide Name	Percent Abundance	Curies
-----	-----	-----	-----
All	Co-60	53.147%	2.43E+00
	Fe-55	36.000%	1.64E+00
	Cs-137	3.853%	1.76E-01
	Ni-63	2.662%	1.22E-01
	Mn-54	2.589%	1.18E-01
	Ce-144	.916%	4.18E-02
	Pu-241	.453%	2.07E-02
	C-14	.349%	1.59E-02
	H-3	.130%	5.92E-03
	Cm243/44	.005%	2.35E-04
	Am-241	.003%	1.38E-04
	Pu-238	.002%	1.01E-04
	Sr-90	.002%	7.96E-05
	Sr-89	.001%	5.09E-05
	Pu239/40	.000%	8.18E-07
	Cm-242	.000%	8.05E-07
	I-129	.000%	0.00E+00
	Tc-99	.000%	0.00E+00
	Nb-94	.000%	0.00E+00
	Ni-59	.000%	0.00E+00

\*\* Estimates of Major Nuclides by Waste Class and Stream \*\*

Waste Stream: Irradiated Components

with 0 % Cutoff.

Waste Class	Nuclide Name	Percent Abundance	Curies
-----	-----	-----	-----
B	Fe-55	48.533%	2.15E+03
	Co-60	46.275%	2.05E+03
	Ni-63	2.844%	1.26E+02
	Mn-54	1.968%	8.72E+01
	Cr-51	.184%	8.15E+00
	Co-58	.065%	2.86E+00
	Ni-59	.016%	6.87E-01
	C-14	.004%	1.66E-01
	H-3	.000%	5.08E-03
	Nb-94	.000%	3.30E-03
	Tc-99	.000%	6.62E-04
	Fe-59	.000%	2.55E-05
	Pu-241	.000%	1.05E-05
	Am-241	.000%	8.93E-07
	Cm243/44	.000%	5.83E-07
	Pu-238	.000%	3.17E-07
	Cm-242	.000%	1.71E-07
	Pu239/40	.000%	1.59E-07
	Cs-137	.000%	0.00E+00
	I-129	.000%	0.00E+00
	Sr-90	.000%	0.00E+00

\*\* Estimates of Major Nuclides by Waste Class and Stream \*\*

Waste Stream: Irradiated Components

with 0 % Cutoff.

Waste Class	Nuclide Name	Percent Abundance	Curies
-----	-----	-----	-----
C	Fe-55	49.936%	2.24E+04
	Co-60	44.963%	2.02E+04
	Ni-63	2.640%	1.19E+03
	Mn-54	2.360%	1.06E+03
	Cr-51	.098%	4.40E+01
	Co-58	.056%	2.53E+01
	Ni-59	.015%	6.53E+00
	C-14	.004%	1.61E+00
	Ce-144	.001%	2.57E-01
	Pu-241	.000%	2.09E-01
	Cs-137	.000%	1.33E-01
	H-3	.000%	1.12E-01
	Nb-94	.000%	3.78E-02
	Cm-242	.000%	3.44E-02
	Pu-238	.000%	1.26E-02
	Cm243/44	.000%	5.53E-03
	Tc-99	.000%	5.38E-03
	Am-241	.000%	7.31E-04
	Pu239/40	.000%	5.57E-04
	I-129	.000%	2.42E-05
	Am-243	.000%	1.31E-05
	Np-237	.000%	1.47E-06
	Pu-242	.000%	1.10E-06
	Sr-90	.000%	0.00E+00

\*\* Estimates of Major Nuclides by Waste Class and Stream \*\*  
 Waste Stream: Irradiated Components with 0 % Cutoff.

Waste Class	Nuclide Name	Percent Abundance	Curies
-----	-----	-----	-----
All	Fe-55	49.810%	2.46E+04
	Co-60	45.080%	2.23E+04
	Ni-63	2.658%	1.31E+03
	Mn-54	2.325%	1.15E+03
	Cr-51	.106%	5.21E+01
	Co-58	.057%	2.81E+01
	Ni-59	.015%	7.21E+00
	C-14	.004%	1.77E+00
	Ce-144	.001%	2.57E-01
	Pu-241	.000%	2.09E-01
	Cs-137	.000%	1.33E-01
	H-3	.000%	1.17E-01
	Nb-94	.000%	4.11E-02
	Cm-242	.000%	3.44E-02
	Pu-238	.000%	1.26E-02
	Tc-99	.000%	6.04E-03
	Cm243/44	.000%	5.53E-03
	Am-241	.000%	7.32E-04
	Pu239/40	.000%	5.57E-04
	Fe-59	.000%	2.55E-05
	I-129	.000%	2.42E-05
	Am-243	.000%	1.31E-05
	Np-237	.000%	1.47E-06
	Pu-242	.000%	1.10E-06
	Sr-90	.000%	0.00E+00



\*\* Estimates of Major Nuclides by Waste Class and Stream \*\*

Waste Stream:Sum of All 4 Categories

with 0 % Cutoff.

Waste Class	Nuclide Name	Percent Abundance	Curies
-----	-----	-----	-----
A	Co-60	71.952%	1.11E+03
	Fe-55	15.857%	2.44E+02
	Mn-54	9.600%	1.48E+02
	Cs-137	1.091%	1.68E+01
	Zn-65	.805%	1.24E+01
	Ni-63	.577%	8.87E+00
	Co-58	.088%	1.35E+00
	C-14	.059%	9.04E-01
	Ag-110m	.027%	4.18E-01
	Sr-90	.003%	5.22E-02
	Ce-144	.003%	4.48E-02
	Pu-241	.003%	4.30E-02
	H-3	.003%	4.06E-02
	Sr-89	.001%	1.67E-02
	Cm243/44	.000%	8.93E-04
	Am-241	.000%	8.37E-04
	Pu-238	.000%	6.18E-04
	Pu239/40	.000%	1.38E-04
	Cm-242	.000%	1.35E-04
	I-129	.000%	0.00E+00
	Tc-99	.000%	0.00E+00
	Nb-94	.000%	0.00E+00
	Ni-59	.000%	0.00E+00

\*\* Estimates of Major Nuclides by Waste Class and Stream \*\*

Waste Stream: Sum of All 4 Categories

with 0 % Cutoff.

Waste Class	Nuclide Name	Percent Abundance	Curies
-----	-----	-----	-----
B	Co-60	48.839%	2.40E+03
	Fe-55	45.240%	2.22E+03
	Mn-54	2.782%	1.37E+02
	Ni-63	2.596%	1.27E+02
	Cr-51	.166%	8.15E+00
	Zn-65	.156%	7.66E+00
	Co-58	.058%	2.86E+00
	Cs-137	.046%	2.25E+00
	Ni-59	.014%	6.87E-01
	C-14	.004%	1.83E-01
	Sr-90	.002%	7.67E-02
	Pu-241	.001%	2.67E-02
	H-3	.000%	1.08E-02
	Nb-94	.000%	3.30E-03
	Am-241	.000%	1.22E-03
	Cm243/44	.000%	1.15E-03
	Pu-238	.000%	9.04E-04
	Tc-99	.000%	6.62E-04
	Pu239/40	.000%	4.08E-04
	Cm-242	.000%	8.98E-05
	Fe-59	.000%	2.55E-05
	I-129	.000%	0.00E+00

\*\* Estimates of Major Nuclides by Waste Class and Stream \*\*  
Waste Stream: Sum of All 4 Categories with 0 % Cutoff.

Waste Class	Nuclide Name	Percent Abundance	Curies
-----	-----	-----	-----
C	Fe-55	49.936%	2.24E+04
	Co-60	44.963%	2.02E+04
	Ni-63	2.640%	1.19E+03
	Mn-54	2.360%	1.06E+03
	Cr-51	.098%	4.40E+01
	Co-58	.056%	2.53E+01
	Ni-59	.015%	6.53E+00
	C-14	.004%	1.61E+00
	Ce-144	.001%	2.57E-01
	Pu-241	.000%	2.09E-01
	Cs-137	.000%	1.33E-01
	H-3	.000%	1.12E-01
	Nb-94	.000%	3.78E-02
	Cm-242	.000%	3.44E-02
	Pu-238	.000%	1.26E-02
	Cm243/44	.000%	5.53E-03
	Tc-99	.000%	5.38E-03
	Am-241	.000%	7.31E-04
	Pu239/40	.000%	5.57E-04
	I-129	.000%	2.42E-05
	Am-243	.000%	1.31E-05
	Np-237	.000%	1.47E-06
	Pu-242	.000%	1.10E-06
	Sr-90	.000%	0.00E+00

\*\* Estimates of Major Nuclides by Waste Class and Stream \*\*

Waste Stream:Sum of All 4 Categories

with 0 % Cutoff.

Waste Class	Nuclide Name	Percent Abundance	Curies
All	Fe-55	48.468%	2.49E+04
	Co-60	46.140%	2.37E+04
	Mn-54	2.617%	1.35E+03
	Ni-63	2.574%	1.32E+03
	Cr-51	.101%	5.21E+01
	Co-58	.057%	2.95E+01
	Zn-65	.039%	2.00E+01
	Cs-137	.037%	1.92E+01
	Ni-59	.014%	7.21E+00
	C-14	.005%	2.69E+00
	Ag-110m	.001%	4.18E-01
	Ce-144	.001%	3.02E-01
	Pu-241	.001%	2.78E-01
	H-3	.000%	1.63E-01
	Sr-90	.000%	1.29E-01
	Nb-94	.000%	4.11E-02
	Cm-242	.000%	3.46E-02
	Sr-89	.000%	1.67E-02
	Pu-238	.000%	1.41E-02
	Cm243/44	.000%	7.57E-03
	Tc-99	.000%	6.04E-03
	Am-241	.000%	2.79E-03
	Pu239/40	.000%	1.10E-03
	Fe-59	.000%	2.55E-05
	I-129	.000%	2.42E-05
	Am-243	.000%	1.31E-05
	Np-237	.000%	1.47E-06
	Pu-242	.000%	1.10E-06

\*\*\* Solid Waste Disposition Summary \*\*\*  
During Period From 07/01/96 through 12/31/96

Number of Shipments	Mode of Transportation	Destination
18	TRUCK	Barnwell
12	TRUCK	Richland
1 SEG	TRUCK	Beatty
11	TRUCK	Other