

Table 5.2-2

AIRBORNE IODINE-131* AND GROSS ALPHA AND BETA IN AIR PARTICULATES
Indicator Stations

Week Ending	ON-SITE D-16 STATION 1 A		ON-SITE D-17 STATION 2 B		ON-SITE STATION 3 C		
	Volume (m ³)	Gross β (10 ⁻² pCi/m ³)	Volume (m ³)	Gross β (10 ⁻² pCi/m ³)	Volume (m ³)	Gross α (10 ⁻³ pCi/m ³)	Gross β (10 ⁻² pCi/m ³)
1/07/77	325	10 ± 2	325	12 ± 2	325	<5	9 ± 2
1/15/77	280	8 ± 2	280	11 ± 2	280	-	7 ± 1
1/22/77	290	6 ± 1	290	7 ± 1	290	-	7 ± 1
1/30/77	325	6 ± 1	325	6 ± 1	325	-	3 ± 1
2/05/77	245	4 ± 1	245	4 ± 2	245	<5	4 ± 1
2/12/77	285	8 ± 1	280	11 ± 1	280	-	9 ± 1
2/19/77	285	6 ± 1	285	6 ± 1	285	-	4 ± 1
2/26/77	280	6 ± 1	285	7 ± 1	285	-	4 ± 1
3/05/77	285	6 ± 1	285	6 ± 1	285	<5	7 ± 1
3/12/77	285	12 ± 2	285	13 ± 2	285	-	14 ± 2
3/19/77	285	9 ± 2	280	10 ± 2	280	-	9 ± 2
3/26/77	280	9 ± 1	280	10 ± 1	280	-	7 ± 1
4/02/77	290	19 ± 3	295	19 ± 5	290	2 ± 1	19 ± 3
4/09/77	285	13 ± 2	285	14 ± 2	285	-	10 ± 2
4/16/77	285	37 ± 5	285	36 ± 5	285	-	30 ± 5
4/23/77	285	35 ± 5	285	34 ± 5	285	-	27 ± 4
4/30/77	285	19 ± 3	285	27 ± 4	285	-	23 ± 4
5/07/77	290	54 ± 5	290	49 ± 5	290	<5	43 ± 2
5/14/77	280	45 ± 7	280	47 ± 7	280	-	44 ± 7
5/21/77	285	66 ± 10	280	72 ± 10	285	-	55 ± 8
5/28/77	285	66 ± 10	290	49 ± 7	285	-	50 ± 8
6/04/77	285	55 ± 8	275	45 ± 7	285	<5	52 ± 8
6/12/77	330	48 ± 7	325	51 ± 8	330	-	43 ± 6
6/18/77	245	39 ± 6	245	45 ± 7	245	-	31 ± 4(a)
6/26/77	330	38 ± 6	330	30 ± 4	330	-	34 ± 5

*Iodine-131 is sampled alternate weeks. Activity is < 0.03 pCi/m³ unless otherwise specified. Data reported as "<" are at the 99% confidence level. All other data are at the 95% confidence level, all based on counting errors.

(a) I-131 = .07 ± .02 pCi/m³. Confirmed by decay studies and gamma isotopic analysis.

Dresden Additional Information for Table 5.0-2, 5.0-3, 5.0-4
5.0-5

1. Air Samplers

<u>Location</u>	<u>Distance (miles)</u>	<u>Direction (o)</u>
a. Onsite Station #1	0.6	300
b. Onsite Station #2	0.3	50
c. Onsite Station #3	0.4	180
d. Collins Road	0.9	260
e. Bennitt Farm	0.9	60
f. Pheasant Trail	0.9	140
g. Clay Products	2.0	180
h. Prairie Park	4.0	230
i. Coal City	7.5	190
j. Goose Lake Village	3.8	210
k. Morris	8.0	250
l. Lisbon	10.0	310
m. Minooka	4.5	5
n. Channahon	3.5	40
o. Joliet	12.5	60
p. Elmwood	8.0	80
q. Wilmington	8.0	130

2. TLD

Same as 1

3. Milk

<u>Location</u>	<u>Distance</u>	<u>Direction</u>
a. Davidson Farm	6	10
b. Mather Farm	16	40
c. Dorin Farm	7	220

4. Fish

<u>Location</u>	<u>Distance</u>	<u>Direction</u>
a. Dresden Lock & Dam	0.5	270

5. Surface Water

<u>Location</u>	<u>Distance</u>	<u>Direction</u>
a. Illinois River at E.J.E. R.R. Bridge	1	270

6. Cooling Water Sample

<u>Location</u>	<u>Distance</u>	<u>Direction</u>
a. Inlet-Unit 1		At Station
b. Discharge		
1) Unit 1		At Station
2) Unit 2/3		

7. Sediment

<u>Location</u>	<u>Distance</u>	<u>Direction</u>
a. Dresden Lock and Dam	0.5	270

TABLE 3.2-3

DRESDEN 2/3 NUCLEAR POWER STATION
 DOSES RESULTING FROM EXPOSURE
 TO RADIOACTIVITY DISCHARGED IN LIQUID WASTE
 DECEMBER 1977 AND JANUARY TO DECEMBER 1977

PERIOD	DOSE BY PATHWAY (MREM)									
	INGESTION		SHORELINE		SWIMMING		BOATING			
	WHOLE BODY	GI-LLI	THYROID	BONE	SKIN	WHOLE BODY	SKIN	WHOLE BODY	WHOLE BODY	BOATING
THIS MONTH	.001	.001	.004	.001	.000	.000	0.000	0.000	0.000	0.000
LAST 3 MONTHS	.001	.001	.004	.001	.000	.000	0.000	0.000	0.000	0.000
LAST 6 MONTHS	.001	.001	.004	.001	.000	.000	0.000	0.000	0.000	0.000
SINCE JANUARY	.001	.001	.004	.001	.000	.000	0.000	0.000	0.000	0.000

ORGAN	TOTAL ORGAN DOSE SINCE JANUARY		PERCENT OF MAXIMUM
	TOTAL DOSE	MAXIMUM ALLOWABLE	
WHOLE BODY	.001	500	.000
GI-LLI	.001	1500	.000
THYROID	.004	1500	.000
BONE	.001	500	.000
SKIN	.000	3000	.000

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1978

DOCKET NOS.: 50 - 10

FACILITY: DESERET NUCLEAR POWER STATION - UNIT 1

		UNITS	JAN	FEB	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
1. Gaseous Effluents										
1. Gross Radioactivity Releases		curies								
a) Total Release			3.7E+04	7.3E+04	7.4E+04	8.3E+04	5.7E+04	8.9E+04	3.9E05	
b) Maximum Release Rate		µCi/sec	3.2E+04	4.6E+04	4.0E+04	3.9E+04	4.0E+04	4.2E+04	4.6E04	
c) Isotopes Released										
Kr-85m		curies	2.4E02	1.1E03	2.2E03	2.2E03	1.3E03	1.1E03	8.1E03	
Kr-87		curies	1.3E03	5.9E03	9.6E03	6.1E03	4.8E03	6.5E03	3.4E04	
Kr-88		curies	5.0E03	3.7E03	7.1E03	6.6E03	4.1E03	4.7E03	2.7E04	
Xe-133		curies	1.2E02	9.6E02	2.0E03	4.6E03	1.4E03	1.1E03	1.0E04	
Xe-135		curies	1.6E03	7.4E03	1.3E04	1.4E04	7.6E03	8.0E03	5.2E04	
Xe-135m		curies	2.3E03	9.8E03	1.6E04	1.0E04	2.2E03	1.2E04	5.2E04	
Xe-138		curies	1.0E04	4.4E04	2.4E04	3.9E04	3.6E04	5.6E04	2.1E05	
d) Percent of Chimney Limit		%	1.09	5.37	5.10	5.75	3.81	6.13	4.45	
e) Average Release Rate		µCi/sec	6.2E+03	3.0E+04	2.7E+04	3.2E+04	2.1E+04	3.4E+04	2.5E04	
2. Iodine Releases										
a) Isotopes Released										
I-131		curies	1.2E-02	7.4E-02	7.3E-02	1.3E-01	7.0E-02	1.3E-01	4.9E-01	
I-133		curies	6.9E-02	4.9E-01	4.6E-01	5.6E-01	7.7E-01	9.1E-01	3.3E+00	
I-135		curies	6.9E-01	2.1E-01	6.8E-01	5.6E-01	1.2E+00	1.4E+00	4.6E+00	
b) Percent of Chimney Limit		%	0.19	1.28	1.14	2.04	1.09	2.04	1.31	
c) Average Release Rate		µCi/sec	4.5E-03	3.1E-02	2.7E-02	4.9E-02	2.6E-02	4.9E-02	3.1E-02	

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: DRESDEN NUCLEAR POWER STATION - UNIT 1

DOCKET NOS.: 50-10

YEAR: 1978

I. Gaseous Effluents (continued)	UNITS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
3. Particulate Releases	milli-curies								
a) Gross Radioactivity (Bq)		71.36	96.51	218.41	199.39	119.34	83.53	788.54	
b) Gross Alpha Radioactivity	mCi								
c) Isotopes Released	mCi								
Cr-51	uCi	-	-	-	-	-	-	-	
Sr-90	uCi	0.03	-	0.33	0.16	-	0.01	0.53	
Co-58	mCi	1.06	6.00	8.47	2.53	2.05	0.35	20.49	
Co-60	mCi	1.59	3.78	4.96	2.53	1.62	4.05	18.53	
Sr-89	mCi	48.33	42.25	116.74	88.79	69.12	49.27	414.50	
Sr-90	mCi	0.16	1.23	2.88	3.37	0.64	1.86	10.14	
Tr-95	mCi	0.28	-	-	-	-	0.10	0.38	
Sb-92	mCi	0.29	-	-	-	-	0.06	0.35	
Ru-103 / Ag-10m	mCi	0.16	-	-	0.08	-	-	0.16	0.08
I-131	mCi	1.71	6.45	8.32	14.59	2.38	0.60	34.05	
Cs-134 / Cs-136	mCi	0.97	0.78	1.92	2.91	2.11	0.10	8.79	
Cs-137	mCi	2.95	1.86	5.44	6.34	4.11	19.71	40.41	
Ba-140	mCi	13.18	33.36	67.16	76.11	36.72	7.33	233.86	
Co-141	mCi	0.29	0.80	1.05	0.90	0.29	0.06	3.39	
C-144	mCi	0.36	-	-	-	-	-	0.36	
d) Percent of chimney limit	%	1.11	1.66	3.40	3.21	1.86	1.34	2.10	
e) Average release rate	uCi/sec	2.7E-02	4.0 E-02	8.2 E-02	7.7 E-02	4.5 E-02	3.2 E-02	5.0E-02	
4. Sum of Iodines & Particulates									
a) Percent of Chimney Limit	%	1.30	2.94	4.53	5.24	2.95	3.38	3.41	
5. Gaseous Tritium									
a) Total Release	curies	9.9E+00	2.7 E + 00	6.2 E + 00	6.5 E 00	4.8 E + 00	8.1E + 00	3.8 E + 01	
b) Average Release Rate	uCi/sec	3.7 E +00	1.1 E + 00	2.3 E + 00	2.5 E 00	1.8 E + 00	3.1E + 00	2.4 E + 00	

POOR ORIGINAL

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1978

DOCKET NOS.: 50-237, 50-249

UTILITY: Dresden Nuclear Power Station-Units 2/3

	UNITS	JAN	FEB	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
I. Gaseous Effluents									
1. Gross Radioactivity Releases									
a) Total Release	curies	4.1E+03	3.6E+03	1.8E+03	9.9E+02	9.4E+03	3.5E+03	2.3E+04	6.60.1.f. (1)
2/3 chimney	uCi/sec	6.6E+03	3.1E+03	2.4E+03	9.1E+02	1.5E+04	4.6E+03	1.5E+04	6.60.1.f. (2)
b) Maximum Release Rate									6.60.1.f. (4)
c) Isotopes Released									
Kr-85m	curies	2.0E02	1.4E01	---	---	2.7E+02	2.5E+01	5.1E+02	
Kr-87	curies	---	4.3E01	---	---	6.4E+02	8.4E+01	7.7E+02	
Kr-88	curies	---	4.3E01	---	---	3.2E+02	7.7E+01	4.4E+02	
Xe-133	curies	---	9.4E01	---	---	1.9E+02	3.5E+01	3.2E+02	
Xe-135	curies	1.1E03	6.4E02	1.8E03	9.9E+02	1.1E+03	3.3E+02	6.0E+03	
Xe-135m	curies	---	9.8E02	---	---	8.5E+01	1.1E+02	1.2E+03	
Xe-133	curies	2.8E03	1.8E03	---	---	6.8E+03	2.8E+03	1.4E+04	
2. Chimney Iodine Releases									
d) Percent of Chimney Limit	%	0.17	0.17	0.09	0.05	0.41	0.15	0.16	6.60.1.f. (3)
e) Average Release Rate	uCi/sec	1.5E+03	1.5E+03	6.6E+02	4.6E+02	3.5E+03	1.3E+03	1.5E+03	
a) Isotopes Released									
I-131	curies	4.5E-02	6.3E-02	2.2E-02	9.1E-03	2.5E-02	4.8E-02	2.1E-01	
I-133	curies	2.7E-01	6.3E-01	5.9E-02	7.7E-02	3.1E-01	3.9E-01	1.7E+00	
I-135	curies	4.5E01	9.7E-01	1.5E-02	2.3E-01	3.8E-01	7.1E-01	4.7E+01	
b) Percent of Chimney Limit	%	0.39	0.63	0.22	0.10	0.30	0.43	0.31	6.60.1.f. (3)
c) Average Release Rate	uCi/sec	1.7E-02	2.6E-02	8.1E-03	3.5E-03	9.4E-03	1.8E-02	3.3E-02	

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station - Unit 2/3

DOCKET NOS.: 50-237, 50-249

YEAR: 1978

I. Gaseous Effluents(continued)	UNITS	JAN	FEB	MAR	APR	MAY	JUN	6 MO. TOTAL	TECH. SPEC. REP.
3. Chimney Particulate Release									
a) Gross Radioactivity(A-Y)	milli-curios	185.09	274.47	92.95	55.70	97.02	162.87	868.10	6.6D.1.f.(1)
b) Gross Alpha Radioactivity	mCi								
c) Isotopes Released									6.6D.1.f.(1)
Cr-51	mCi	1.67	-	-	-	-	-	1.67	
Co-57	mCi	0.06	0.05	0.80	1.18	0.09	0.70	2.88	
Co-58	mCi	-	-	-	-	-	0.24	0.24	
Co-60	mCi	2.07	5.00	4.15	8.80	1.43	9.71	31.16	
Sr-90 / Zr-95	mCi	82.18	75.92	36.59	15.92	33.87	24.97	269.45	
Sr-90 / Nb-95	mCi	0.19	0.25	0.20	0.11	0.17	0.16	1.08	
I-131	mCi	8.75	69.41	3.66	1.93	2.12	6.45	92.32	
Cs-134	mCi	-	-	-	0.55	-	-	0.55	
Cs-137	mCi	0.96	0.69	0.44	2.72	0.08	1.66	6.55	
Ba-140	mCi	87.47	121.45	47.11	23.47	59.26	117.89	456.65	
Ce-141	mCi	0.72	1.40	-	-	-	-	2.12	
Ce-144	mCi	1.02	-	-	-	-	-	1.02	
Ru-103	mCi	-	0.30	-	0.28	-	-	0.58	
d) Percent of Chimney Limit	%	1.61	2.70	0.93	0.61	0.90	1.47	1.29	6.6D.1.f.(3)
e) Average Release Rate	uCi/sec	6.9 E-02	1.1 E-01	3.5 E-02	2.1 E-02	3.6 E-02	6.3 E-02	5.6 E-02	
4. Vent Stack Iodine Release									6.6D.1.f.(1)
a) Isotopes Released									
I-131	curies	2.1 E-03	1.1 E-02	3.4 E-03	1.0E-03	3.4E-03	5.3E-03	2.6E-02	
I-133	curies	8.9E-03	4.0E-02	5.4E-03	4.2 E-03	3.0E-02	2.6E-02	1.1 E-01	
I-135	curies	4.4E-03	5.5E-02	-	-	4.2E-02	-	1.0 E-01	
b) Percent of Vent Stack Limit	%	0.65	3.76	1.05	0.32	1.05	1.70	1.39	6.6D.1.f.(3)
c) Average Release Rate	uCi/sec	7.8E-04	4.5E-03	1.3E-03	3.9E-04	1.3E-03	2.0E-03	1.7E-03	

POOR ORIGINAL

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station - Unit 2/3

DOCKET NOS.: 50-237, 50-249

YEAR: 1978

I. Gaseous Effluents (Continued)	UNITS	JAN	FEB	MAR	APR	MAY	JUN	6 MO. TOTAL	TECH. SPEC. REF.
5. Vent Stack Particulate Release	milli-								
(a) Gross Radioactivity (α + β + γ)	curies	25.72	28.02	41.63	40.58	28.96	31.37	196.28	
(b) Gross Alpha Radioactivity	mCi								6.6D.1.f.(1)
(c) Isotopes Released									
Cr-51	mCi	1.73	3.16	5.32	4.37	2.01	5.64	22.23	6.6D.1.f.(1)
Mn-54	mCi	1.86	0.34	2.85	2.69	1.13	1.94	10.81	
Co-58	mCi	0.40	0.19	0.91	0.45	0.64	0.45	3.04	
Fe-59	mCi	0.53	-	0.11	0.29	-	0.20	1.13	
Co-60	mCi	6.18	3.56	18.24	25.57	8.76	11.68	73.99	
Zn-65	mCi	-	-	-	-	-	-	-	
Sr-90	mCi	3.02	3.60	0.44	0.44	1.15	0.26	8.91	
Sr-90	mCi	0.02	0.03	0.04	0.05	0.11	0.03	0.28	
Zr-95	mCi	0.29	0.10	0.51	0.03	-	0.13	1.06	
Nb-95	mCi	0.40	0.04	0.47	0.32	0.27	0.13	1.63	
Ru-103	mCi	0.62	0.11	0.67	0.25	0.33	0.16	2.14	
(continued on next page)									
(d) Percent Vent Stack Limit	%	8.00	9.65	12.95	13.05	9.01	10.08	10.46	6.6D.1.f.(3)
(e) Average Release Rate	uCi/sec	9.6 E-03	1.2E-02	1.6E-02	1.6E-02	1.1E-02	1.2E-02	1.3E-02	
6. Sum of Iodine and Particulate									
a) Percent of Chimney Limit	%	1.99	3.32	1.16	0.71	1.20	1.90	1.60	6.6D.1.f.(3)
b) Percent of Vent Stack Limit	%	8.65	13.41	14.01	13.37	10.06	11.78	11.84	
7. Gaseous Iodine									
a) Release	mbq/day	1.4E+01	3.4E+01	1.0E+01	1.3+01	9.1E+00	1.7E+01	9.7E+01	
b) Average Release Rate	mCi/sec	5.3E+00	1.4E+01	3.9E+00	5.0E+00	3.4E+00	6.7E+00	6.2E+00	
c) Percent of Chimney Limit	%	NA	NA	NA	NA	NA	NA	NA	

POOR ORIGINAL

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1978

50-337, 50-769

DOCKET NOS.:

PLANT: BREIDEN NUCLEAR POWER STATION UNITS 2/3

I. Gaseous Effluents (continued)		UNITS	JAN	FEB	MAR	APR	MAY	JUN	6 MO. TOTAL	TECH. SPEC. REF.
5. Vent Stack Particulate										
(c) - Isotopes released										
	AP-110m	mCi	.05	-	-	-	0.07	-	0.12	
	Sb-124	mCi	-	-	-	-	-	-	-	
	I-131	mCi	2.95	4.83	2.28	1.40	7.77	5.17	24.40	
	Cs-137	mCi	0.33	0.16	0.52	0.57	0.45	0.28	2.31	
	Cs-136	mCi	-	-	-	-	-	-	-	
	Cs-137	mCi	0.33	0.25	0.89	1.61	1.37	0.75	5.20	
	Ba-140	mCi	3.43	5.55	2.99	1.08	2.88	1.93	17.86	
	La-140	mCi	3.28	6.00	3.40	0.89	2.02	2.53	18.12	
	Ce-141	mCi	0.30	0.10	0.56	0.06	-	0.09	1.11	
	Ce-144	mCi	-	-	1.43	0.51	-	-	1.94	

POOR ORIGINAL

REPORT OF RADIOACTIVE EFFLUENTS

1978

YEAR: 1978

DOCKET NOS.: 50-237, 50-249

E.GILLY: Dresden Nuclear Power Station-Units 2/3

	UNITS	JAN	FEB	MARCH	APRIL	MAY	6 MO. TOTAL	TECH. SPEC. RE.
I. Gaseous Effluents (continued)								
8. Gross Radioactivity Release Units 2/3 Vent Stack								
a) Total Release	curies	4.3E+01	1.1E+02	3.9E+01	1.3E+01	4.6E+01	3.0E+02	6.60.1.f.(1)
b) Maximum Release Rate	uCi/sec	1.6E+01	8.9E+01	1.9E+01	1.4E+01	4.3E+01	8.9E+01	6.60.1.f.(2)
c) Isotopes Released								6.60.1.f.(4)
Kr-85m	curies	---	---	---				
Kr-87	curies	---	---	---				
Kr-88	curies	---	---	---				
Xe-133	curies	5.9E00	4.3E01	3.5E01	1.3E+01	4.6E+01	8.4E+01	
Xe-135	curies	3.7E01	6.7E01	4.2E00		5.2E+01	2.2E+02	
Xe-135m	curies	---	---	---				
Xe-138	curies	---	---	---				
d) Percent of Vent Stack Limit	%	0.02	0.05	0.02	0.01	0.02	0.02	6.60.1.f.(3)
e) Average Release Rate	uCi/sec	1.6E+01	4.5E+01	1.5E+01	5.0E+00	1.7E+01	1.9E+01	

POOR ORIGINAL

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: BREEDER NUCLEAR POWER STATION - UNIT 1

DOCKET NOS.: 50-10

YEAR: 1978

II. Liquid Effluents	UNITS	JAN	FEB	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF
1. Gross Radioactivity ($\beta\gamma$)									
a) Total Release	Curies	2.3E-02	2.5E-02	6.6E-02	8.3E-02	3.3E-02	1.2E-02	2.4E-01	
b) Average Concentration Released	uci/ml	1.0E-09	1.3E-09	3.0E-09	7.7E-08	1.2E-09	4.5E-10	1.7E-09	6.6D.1.e.(1)
c) Maximum Concentration Released	uci/ml	2.9E-08	2.1E-08	3.0E-08	4.5E-08	2.4E-08	2.6E-08	4.5E-08	6.6D.1.e.(4)
d) Percent of Tech Spec Limit	%	1.0	1.3	3.0	77.0	1.2	0.45	1.7	6.6D.1.e.(5)
based on average conc. released									6.6D.1.e.(6)
2. Tritium									
a) Total Release	Curies	2.8E-03	1.2E-03	1.7E-03	8.6E-03	3.8E-04	5.7E-03	2.0E-02	6.6D.1.e.(8)
b) Average Concentration Released	uci/ml	1.3E-10	6.0E-11	7.7E-11	7.0E-11	1.4E-11	2.2E-10	1.5E-10	
c) Percent of Tech Spec Limit	%	NA	NA	NA	NA	NA	NA	NA	
3. Dissolved Noble Gases									
a) Total Release	Curies	NONE	NONE	NONE	NONE	NONE	NONE	NONE	
b) Average Concentration Released	uci/ml	---	---	---	---	---	---	---	
c) Percent of Tech Spec Limit	%	---	---	---	---	---	---	---	
4. Gross Alpha Radioactivity									
a) Total Release	Curies	2.5E-05	1.5E-05	7.0E-05	1.3E-02	3.8E-05	1.8E-05	1.3E-02	
b) Average Concentration Released	uci/ml	1.1E-12	7.8E-13	3.2E-12	5.4E-10	1.4E-12	7.0E-13	9.3E-11	
5. Volume of Liquid Waste to Discharge Canal	Liters	1.3E+05	1.4E+05	3.9E+05	3.3E+05	1.5E+05	1.0E+05	1.2E+06	6.6D.1.e.(2)
6. Volume of Dilution Water	Liters	2.2E+10	2.0E+10	2.2E+10	2.4E+10	2.7E+10	2.6E+10	1.4E+11	6.6D.1.e.(3)

POOR ORIGINAL

REPORT OF RADIOACTIVE EFFLUENTS

YEAR: 1978

DOCKET NOS.: 50-10

FACILITY: Dresden Nuclear Power Station - Unit 1

II. Liquid Effluents (continued)		JAN	FEB	MAR	APR	MAY	JUN	6 MO. TOTAL	TECH. SEC. R.F.
7. Isotopes Released	UNITS								
	milli-curies	22.46	24.55	65.50	83.40	33.47	11.86	241.24	
Mn-54	mCi	1.49	1.35	7.14	8.61	3.55	0.99	23.13	
Co-58	mCi	0.41	0.78	1.23	1.33	0.55	1.12	5.42	
Fe-59	mCi	0.30	-	-	2.58	0.82	-	3.70	
Co-60	mCi	13.67	17.53	54.27	60.22	25.12	7.65	178.46	
Zn-65	mCi	-	-	-	-	-	-	-	
Sr-89	mCi	0.10	1.44	0.25	0.24	0.03	0.18	2.24	
Sr-90	mCi	0.06	0.18	0.05	0.05	0.03	0.04	0.41	
Zr-95	mCi	0.41	-	-	1.46	0.23	-	2.10	
Nb-95	mCi	0.40	-	-	1.16	0.33	0.32	2.21	
Ru-103	mCi	0.10	-	-	1.81	0.27	-	2.18	
I-131	mCi	-	-	-	-	-	-	-	
Cs-134	mCi	0.53	0.53	0.52	0.69	0.27	0.51	3.05	
Cs-137	mCi	2.38	1.48	1.63	1.46	0.95	1.05	8.95	
Ba-140	mCi	0.27	-	0.19	-	-	-	0.46	
La-140	mCi	0.14	-	0.22	-	-	-	0.36	
Ce-141	mCi	-	0.29	-	0.56	0.73	-	1.18	
Ce-144	mCi	0.95	0.97	-	1.51	0.85	-	4.28	
Cr-51	mCi	1.25	-	-	1.72	-	-	2.97	
Ag-110m	mCi	-	-	-	-	0.11	-	0.11	
Sb-124	mCi	-	-	-	-	0.03	-	0.03	

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: BUREAU NUCLEAR POWER STATION - UNIT 2/3

DOCKET NOS.: 50-237, 50-240

YEAR: 1978

11. Liquid Effluents	UNITS	JAN	FEB	MARCH	APRIL	MAY	JUNE	6 MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity (β - γ)									
a) Total Release	Curies	1.3E-01	1.2E-01	0	9.4E-02	4.4E-02	0	3.9E-01	
b) Average Concentration Released	uci/ml	1.5E-09	6.7E-09	0	7.5E-09	2.2E-09	0	2.9E-09	
c) Maximum Concentration Released	uci/ml	2.5E-08	2.7E-08	0	5.4E-08	6.0E-08	0	6.0E-08	
d) Percent of Tech Spec Limit based on average conc. released	%	1.5	6.7	0	7.5	2.2	0	2.9	
2. Tritium									
a) Total Release	Curies	3.1E+00	4.9E+00	0	6.9E+00	4.1E+00	0	1.9E+01	
b) Average Concentration Released	uci/ml	3.6E-08	2.7E-07	0	5.3E-07	2.0E-07	0	1.4E-07	
c) Percent of Tech Spec Limit	%	NA	NA	NA	NA	NA	NA	NA	
3. Dissolved Noble Gases									
a) Total Release	Curies	None	None	None	None	None	NONE	NONE	
b) Average Concentration Released	uci/ml	---	---	---	---	---	---	---	
c) Percent of Tech Spec Limit	%	---	---	---	---	---	---	---	
4. Gross Alpha Radioactivity									
a) Total Release	Curies	1.3E-04	8.5E-05	0	2.1E-03	1.1E-04	0	2.4E-03	
b) Average Concentration Released	uci/ml	1.6E-12	4.7E-12	0	1.7E-10	5.4E-12	0	1.7E-11	
5. Volume of Liquid Waste to Discharge Canal	Liters	7.4E+05	6.7E+05	0	1.2E+06	7.7E+05	0	3.4E+06	
6. Volume of Dilution Water	Liters	8.5E+10	1.8E+10	0	1.3E+10	2.0E+10	0	1.4E+11	

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Bechtel Diablo Power Station - Unit 2/3

DOCKET NOS.: 50-27, 20-21C

YEAR: 1978

II. Liquid Effluents (continued)		JAN	FEB	MAR	APR	MAY	JUN	6 MO. TOTAL	TECH. SPEC. REF.
7. Isotopes Released	UNITS			NO DISCHARGE			NO DISCHARGE		
Cr-51	mCi	176.01	121.24	-	94.00	43.90	-	385.15	
Mn-54	mCi	90.79	-	-	-	-	-	90.79	
Co-58	mCi	1.45	0.48	-	8.33	5.61	-	15.87	
Fe-59	mCi	-	-	-	3.26	0.43	-	3.69	
Co-60	mCi	-	3.24	-	-	-	-	3.24	
Zn-65	mCi	14.44	9.75	-	54.14	32.57	-	110.90	
Sr-89	mCi	-	-	-	-	-	-	-	
Sr-90	mCi	0.24	97.42	-	0.21	0.02	-	97.89	
Zr-95	mCi	0.20	1.94	-	1.39	0.09	-	3.62	
Nb-95	mCi	-	-	-	5.42	-	-	5.42	
Ru-103	mCi	-	-	-	3.69	0.89	-	4.58	
I-131	mCi	3.40	2.17	-	3.26	0.74	-	9.57	
Cs-134	mCi	-	4.34	-	-	-	-	4.34	
Cs-137	mCi	4.14	1.90	-	1.11	-	-	7.15	
Ba-140	mCi	-	-	-	13.19	0.47	-	13.66	
La-140	mCi	-	-	-	-	-	-	-	
Ce-141	mCi	-	-	-	-	-	-	-	
Ce-144	mCi	11.35	-	-	-	-	-	11.35	
		-	-	-	-	3.08	-	3.08	

POOR ORIGINAL

DRESDEN NUCLEAR POWER STATION

SOLID WASTE DISPOSITION

YEAR 1978

MONTH	NUMBER OF SHIPMENTS	MODE OF TRANSPORTATION	DESTINATION
JANUARY	13	Motor Freight (Exclusive use only)	Sheffield Nuclear Center
	1	Motor Freight (Exclusive use only)	Barnwell So. Carolina
FEBRUARY	23	Motor Freight (Exclusive use only)	Sheffield Nuclear Center
MARCH	32	Motor Freight (Exclusive use only)	Sheffield Nuclear Center
	4	Motor Freight (Exclusive use only)	Barnwell So. Carolina
APRIL	5	Exclusive use vehicle	Sheffield Nuclear Center
	7	Exclusive use vehicle	Barnwell So. Carolina
MAY	21	Exclusive use vehicle	Barnwell So. Carolina
JUNE	22	Exclusive use vehicle	Barnwell So. Carolina

09/01/78

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1978 THROUGH JUNE 30, 1978. W/ATT ERRATA FOR PREVIOUSLY SUBMITTED ENVIRON
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