REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station-Units 2/3 DOCKET NOS.: 50-237, 50-249 YEAR: 1979

I. Gaseous Effluents	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity Releases									
a) Total Release 2/3 chimney	curies	3657.3	3480.0	3103.6	4825.6	2079.2	1625.0	18770.7	6.6D.1.f. (1)
b) Maximum Release Rate (daily grab sample)	uCi/sec	3.8E+03	1.8E+03	2.3E+03	2.7E+03	2.8E+03	1.2E+03	3.8E+03	6.6D.1.f. (2)
c) Isotopes Released									6.6D.1.f. (4)
Kr-85m	curies	66.9	71.7	45.3	73.8	67.8	51.8	377.3	
Kr-87	curies	86.7	137.1	105.5	98.9	94.0	47.8	570.0	
Kr-88	curies	186.9	122.5	105.5	213.8	211.5	150.3	990.5	
Xe-133	curies	77.9	91.2	54.6	164.6	75.7	54.3	518.3	
Xe-135	curies	503.3	435.7	361.9	617.2	546.6	470.9	2935.6	
Xe-135m	curies	434.1	361.2	374.9	428.0	211.2	140.9	1950.3	
Xe-138	curies	2301.5	2260.6	2055.9	3229.3	872.4	709.0	11428.7	
d) Percent of Chimney Limit	%	0.15	0.15	0.13	0.22	0.09	0.07	0.13	6.6D.1.f. (3)
e) Average Release Rate	uCi/sec	1.4E+03	1.3E+03	1.2E+03	1.8E+03	8.0E+02	6.1E+02	1.2E+03	
2. Chimney Iodine Releases									6.6D.1.f. (1)
a) Isotopes Released									
I-131	curies	1.6E-01	1.6E-01	1.4E-01	1.1E-01	1.5E-01	1.2E-01	8.4E-01	
I-133	curies	1.3E00	1.2E00	1.2E-01	7.9E-01	1.8E00	1.2E00	6.4E00	
I-135	curies	2.3E00	2.1E00	2.1E-01	5.6E00	3.1E00	1.6E00	1.5E+01	
b) Percent of Chimney Limit	%	1.39	1.35	1.25	1.06	1.41	1.08	1.23	6.6D.1.f. (3)
c) Average Release Rate	uCi/sec	5.9E-02	5.8E-02	5.2E-02	4.3E-02	6.0E-02	4.5E-02	5.3E-02	

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REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station - Unit 2/3 DOCKET NOS.: 50-237, 50-249 YEAR: 1979

I. Gaseous Effluents(continued)	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
3. Chimney Particulate Release a) Gross Radioactivity(β-γ)	milli-curies	722.16	631.28	589.48	568.29	608.64	451.29	3571.14	6.6D.1.f.(1)
b) Gross Alpha Radioactivity	mCi								
c) Isotopes Released									6.6D.1.f.(1)
Cr-51	mCi	---	---	---	---	---	2.93	2.93	
Mn-54	mCi	3.11	1.52	0.59	0.91	0.61	1.94	8.68	
Co-58	mCi	---	---	---	---	---	0.81	0.81	
Co-60	mCi	30.69	7.26	4.95	3.24	14.24	4.06	64.44	
Sr-89	mCi	387.22	389.94	214.10	154.29	209.07	157.50	1512.12	
Sr-90	mCi	1.37	0.88	0.94	0.68	0.91	0.68	5.46	
I-131	mCi	51.92	32.39	58.24	30.86	57.70	22.20	253.31	
Cs-134/Cs-136	mCi	1.23/---	---/1.07	---/---	---/---	---/---	---/---	1.23/1.07	
Cs-137	mCi	2.24	3.85	2.71	6.59	11.75	3.16	30.30	
Ba-140	mCi	240.84	191.66	282.60	371.72	309.43	243.43	1639.68	
Ce-141	mCi	3.54	2.08	22.28	---	4.93	3.43	36.26	
Zr-95/Nb-95	mCi	---/---	---/---	---/---	---/---	---/---	4.92/4.42	4.92/4.42	
Ru-103	mCi	---	0.63	3.07	---	---	1.81	5.51	
d) Percent of Chimney Limit	%	6.31	5.51	5.37	5.27	5.48	3.99	5.22	6.6D.1.f.(3)
e) Average Release Rate	uCi/sec	2.7E-01	2.4E-01	2.3E-01	2.1E-01	2.3E-01	1.7E-01	2.2E-01	
4. Vent Stack Iodine Release									6.6D.1.f.(1)
a) Isotopes Released									
I-131	curies	1.8E-02	1.3E-02	2.2E-02	1.2E-02	1.7E-02	2.0E-02	1.0E-01	
I-133	curies	5.2E-02	5.4E-02	2.5E-02	5.5E-02	8.0E-02	1.1E-01	3.8E-01	
I-135	curies	1.4E-01	1.0E-01	4.1E-02	7.2E-02	1.6E-01	2.8E-01	7.9E-01	
b) Percent of Vent Stack Limit	%	5.56	4.04	6.94	3.72	5.49	6.18	5.24	6.6D.1.f.(3)
c) Average Release Rate	uCi/sec	6.7E-03	4.9E-03	8.3E-03	4.5E-03	6.6E-03	7.4E-03	6.3E-03	

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station - Unit 2/3 DOCKET NOS.: 50-237, 50-249 YEAR: 1979

I. Gaseous Effluents (Continued)	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
5. Vent Stack Particulate Release (a) Gross Radioactivity (B-γ)	millicuries	60.11	33.08	35.29	35.57	63.65	52.12	279.82	
(b) Gross Alpha Radioactivity	mCi								6.6D.1.f.(1)
(c) Isotopes Released									
Cr-51	mCi	7.55	1.06	2.51	2.01	1.60	2.02	16.75	6.6D.1.f(1)
Mn-54	mCi	2.70	0.95	0.75	2.09	1.81	1.36	9.66	
Co-58	mCi	0.57	0.23	0.50	0.68	0.78	0.69	3.45	
Fe-59	mCi	0.73	---	0.23	0.58	0.72	0.47	2.73	
Co-60	mCi	14.22	6.55	5.86	9.96	7.81	11.86	56.26	
Zn-65	mCi	---	---	0.12	0.18	0.22	0.22	0.74	
Sr-89	mCi	1.52	4.21	3.41	1.48	2.14	4.97	17.73	
Sr-90	mCi	0.06	0.27	0.39	0.17	0.24	0.57	1.70	
Zr-95	mCi	0.54	---	0.28	1.20	1.75	0.48	4.25	
Nb-95	mCi	0.39	1.69	0.46	1.38	2.32	0.59	6.83	
Ru-103	mCi	0.44	---	0.37	1.16	1.47	0.16	3.60	
(continued on next page)									
(d) Percent Vent Stack Limit	%	18.70	10.30	11.34	11.07	20.46	16.22	14.67	6.6D.1.f.(3)
(e) Average Release Rate	uCi/sec	2.2E-02	1.2E-02	1.4E-02	1.3E-02	2.5E-02	1.9E-02	1.8E-02	
6. Sum of Iodine and Particulate									
a) Percent of Chimney Limit	%	7.70	6.86	6.63	6.33	6.89	5.07	6.45	6.6D.1.f.(3)
b) Percent of Vent Stack Limit	%	24.26	14.34	18.29	14.79	25.95	22.40	19.92	
7. Gaseous Tritium									
a) Release	curies	9.1E+00	6.4E+00	1.1E+01	2.7E+01	5.3E+01	3.8E+01	1.4E+02	
b) Average Release Rate	uCi/sec	3.4E+00	2.4E+00	4.3E+00	1.0E+01	2.0E+01	1.4E+01	9.1E00	
c) Percent Tech Spec Limit	%	NA	NA	NA	NA	NA	NA	NA	

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: DRESDEN NUCLEAR POWER STATION-UNITS 2/3 DOCKET NOS.: 50-237, 50-249 YEAR: 1979

I. Gaseous Effluents (continued)	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REP.
5: Vent Stack Particulate									
(c) Isotopes released									
Ag-110m	mCi	---	---	---	---	---	---	---	
Sb-124	mCi	---	---	---	0.02	---	---	0.02	
I-131	mCi	16.62	7.02	6.27	6.23	16.98	7.95	61.07	
Cs-134	mCi	1.10	0.41	0.05	0.44	0.56	0.58	3.14	
Cs-136	mCi	0.26	0.26	0.55	---	0.30	---	1.37	
Cs-137	mCi	1.70	0.70	0.96	0.83	1.25	1.51	6.95	
Ba-140	mCi	5.62	4.57	5.34	2.41	11.93	8.65	38.52	
La-140	mCi	5.77	4.96	6.28	2.85	8.65	9.18	37.69	
Ce-141	mCi	0.32	0.20	0.57	1.25	2.02	0.48	4.84	
Ce-144	mCi	---	---	0.39	0.65	1.10	0.38	2.52	

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station-Units 2/3 DOCKET NOS.: 50-237, 50-249 YEAR: 1979

I. Gaseous Effluents (continued)	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REP.
8. Gross Radioactivity Release Units 2/3 Vent Stack									
a) Total Release	curies	371.03	289.20	224.84	179.26	280.15	165.11	1509.59	6.6D.1.f.(1)
b) Maximum Release Rate (daily grab sample)	uCi/sec	1.8E+02	1.2E+02	1.2E+02	9.1E+01	1.7E+02	1.7E+02	1.8E+02	6.6D.1.f. (2)
c) Isotopes Released									6.6D.1.f. (4)
Kr-85m	curies	1.88	3.23	2.05	1.97	---	---	9.13	
Kr-87	curies	---	---	---	---	11.74	---	11.74	
Kr-88	curies	---	---	---	---	---	---	---	
Xe-133	curies	12.70	6.45	17.72	6.37	11.29	6.11	60.64	
Xe-135	curies	213.70	136.10	78.69	64.58	144.68	98.79	736.54	
Xe-135m	curies	142.75	143.42	126.38	106.34	112.44	60.21	691.54	
Xe-138	curies	---	---	---	---	---	---	---	
d) Percent of Vent Stack Limit	%	0.15	0.12	0.10	0.07	0.12	0.07	0.11	6.6D.1.f. (3)
e) Average Release Rate	uCi/sec	1.4E+02	1.1E+02	8.7E+01	6.7E+01	1.1E+02	6.2E+01	9.5E+01	

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: DRESDEN NUCLEAR POWER STATION - UNIT 2/3 DOCKET NOS.: 50-237, 50-249 YEAR: 1979

II. Liquid Effluents	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity (β-γ)									
a) Total Release (2/3 Radwaste)	Curies	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	
b) Average Concentration Released	uci/ml								
c) Maximum Concentration Released	uci/ml								
d) Percent of Tech Spec Limit	%								
based on average conc. released									
2. Tritium									
a) Total Release	Curies								
b) Average Concentration Released	uci/ml								
c) Percent of Tech Spec Limit	%								
3. Dissolved Noble Gases									
a) Total Release	Curies								
b) Average Concentration Released	uci/ml								
c) Percent of Tech Spec Limit	%								
4. Gross Alpha Radioactivity									
a) Total Release	Curies								
b) Average Concentration Released	uci/ml								
5. Volume of Liquid Waste to Discharge Canal	Liters								
6. Volume of Dilution Water	Liters								

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station - Unit 2/3 DOCKET NOS.: 50-237, 50-249 YEAR: 1979

II. Liquid Effluents (continued)	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REP.
7. Isotopes Released	millicuries	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	
Cr-51	mCi								
Mn-54	mCi								
Co-58	mCi								
Fe-59	mCi								
Co-60	mCi								
Zn-65	mCi								
Sr-89	mCi								
Sr-90	mCi								
Zr-95	mCi								
Nb-95	mCi								
Ru-103	mCi								
I-131	mCi								
Cs-134	mCi								
Cs-137	mCi								
Ba-140	mCi								
La-140	mCi								
Ce-141	mCi								
Ce-144	mCi								

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station - Unit 2/3 DOCKET NOS.: 50-237, 50-249 YEAR: 1979

II. Liquid Effluents (continued)	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REP.
8. Gross Radioactivity ($\beta \cdot \gamma$) LPCI Service H_2O Heat Exchanger									
a) Total Release	Milli-Curies	9.31	2.88	11.17	21.78	8.42	19.40	72.96	
b) Average Concentration Released*	uci/ml	5.5E-11	1.7E-11	6.6E-11	1.6E-10	6.5E-11	1.4E-10	7.9E-11	
c) Maximum Concentration Released*	uci/ml	8.6E-07	4.5E-07	1.0E-06	1.6E-06	1.5E-06	1.8E-06	1.8E-06	
d) Percent of Tech Spec Limit based on average conc released	%	0.06	0.02	0.07	0.16	0.07	0.14	0.08	
9. Tritium									
a) Total Release	Curies	2.3E-01	4.0E-02	7.0E-02	1.0E-01	5.8E-02	4.9E-02	5.5E-01	
b) Average Concentration Released	uci/ml	1.4E-09	2.3E-10	4.1E-10	7.1E-10	4.4E-10	3.5E-10	5.9E-10	
c) Percent of Tech Spec Limit	%	NA	NA	NA	NA	NA	NA	NA	
10. 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	%	---	---	---	---	---	---	---	
11. Gross Alpha Radioactivity									
a) Total Release	Curies	3.0E-06	1.3E-06	2.6E-06	6.1E-06	4.0E-06	1.4E-05	3.1E-05	
b) Average Concentration Released	uci/ml	1.8E-14	7.6E-15	1.5E-14	4.4E-14	3.1E-14	1.0E-13	3.4E-14	
12. Volume of Liquid Waste to Discharge Canal	Liters	3.0E+05	2.8E+05	1.6E+05	2.8E+05	3.9E+05	2.1E+05	1.6E+06	
13. Volume of Dilution Water	Liters	1.7E+11	1.7E+11	1.7E+11	1.4E+11	1.3E+11	1.4E+11	9.2E+11	

*Prior to dilution by 1275 acre cooling lake and subsequent discharge to Illinois River.

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station - Unit 2/3 DOCKET NOS.: 50-237, 50-249 YEAR: 1979

II. Liquid Effluents (continued)	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REP.
14. Isotopes Released (LPCI Service H_2O Heat Exchanger)	Milli-Curies	9.31	2.88	11.17	21.78	8.42	19.40	72.96	
Mn-54	mCi	4.06	0.63	2.31	3.96	1.26	2.50	14.72	
Co-58	mCi	0.48	0.12	0.56	0.89	0.19	0.51	2.75	
Co-60	mCi	4.11	1.40	7.74	16.14	6.46	15.24	51.09	
Sr-89	mCi	0.17	0.19	0.16	0.12	0.18	0.16	0.98	
Sr-90	mCi	0.01	0.01	0.01	0.02	0.02	0.01	0.08	
Cs-134	mCi	0.17	0.05	0.18	0.30	0.18	0.46	1.34	
Cs-137	mCi	0.31	0.48	0.21	0.35	0.13	0.52	2.00	

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station DOCKET NOS.: 50-10, 50-237, 50-549 YEAR: 1979

I. Solid Waste Shipped Offsite For Burial or Disposal	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
1. Spent Resins, Filter Sludges, Evaporator Bottoms, etc.		48.6	58.8	26.3	5.4	1.5	9.4	150.0	
a) Quantity Shipped	cubic meters	32.1	321.6	40.1	9.9	1.5	7.3	412.5	6.5.D.g.(1)
b) Radioactivity	curies								6.5.D.g.(2)
2. Dry compressible waste,									
contaminated equipment, etc.									
a) Quantity Shipped	cubic meters	10.9	189.2	31.5	1.4	0	1.5	234.5	6.5.D.g.(1)
b) Radioactivity	curies	1.2	6.5	3.1	1.0	0	5.1	16.9	6.5.D.g.(2)
II. Solid Waste Shipped Offsite For									
Burial or Disposal (Processed by									
contractor)									
1. Spent Resins, Filter Sludges,									
evaporator bottoms, etc.									
a) Quantity Shipped	cubic meters	0	0	0	0	0	0	0	6.5.D.g.(1)
b) Radioactivity	curies	0	0	0	0	0	0	0	6.5.D.g.(2)
2. Dry Compressible Waste,									
contaminated equipment, etc.									
a) Quantity	cubic meters	0	0	0	0	0	0	0	6.5.D.g.(1)
b) Radioactivity	curies	0	0	0	0	0	0	0	6.5.D.g.(2)

DRESDEN NUCLEAR POWER STATION

SOLID WASTE DISPOSITION

YEAR 1979

MONTH	NUMBER OF SHIPMENTS	MODE OF TRANSPORTATION	DESTINATION
JULY	12	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
JULY	1	Motor Freight (Exclusive Use Only)	Richland, Wash.
AUGUST	26	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
AUGUST	5	Motor Freight (Exclusive Use Only)	Beatty, NV
AUGUST	3	Motor Freight (Exclusive Use Only)	Richland, Wash.
SEPTEMBER	11	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
SEPTEMBER	1	Motor Freight (Exclusive Use Only)	Richland, Wash.
OCTOBER	3	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
NOVEMBER	1	Motor Freight (Exclusive Use Only)	Barnwell, S.C.
DECEMBER	4	Motor Freight (Exclusive Use Only)	Barnwell, S.C.

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: DRESDEN NUCLEAR POWER STATION - UNIT 1 DOCKET NOS.: 50 - 10 YEAR: 1979

I. Gaseous Effluents	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity Releases									
a) Total Release	curies	72.1	<LLD	<LLD	86.4	12.8	6.2	177.5	
b) Maximum Release Rate (daily grab sample)	uCi/sec	4.2E+02	---	---	1.0E+01	1.2E+02	7.2E+01	4.2E+02	
c) Isotopes Released									
Kr-85m	curies	---	---	---	---	---	---	---	
Kr-87	curies	---	---	---	---	---	---	---	
Kr-88	curies	---	---	---	---	---	---	---	
Xe-133	curies	72.1	---	---	86.4	12.8	6.2	177.5	
Xe-135	curies	---	---	---	---	---	---	---	
Xe-135m	curies	---	---	---	---	---	---	---	
Xe-138	curies	---	---	---	---	---	---	---	
d) Percent of Chimney Limit	%	0.01	---	---	0.01	0.01	0.01	0.01	
e) Average Release Rate	uCi/sec	2.7E+01	---	---	3.2E-01	4.9E+00	2.3E+00	1.1E+01	
2. Iodine Releases									
a) Isotopes Released									
I-131	curies	2.7E-04	2.7E-04	2.6E-04	2.9E-04	3.4E-04	3.5E-04	1.8E-03	
I-133	curies	---	---	---	---	---	---	---	
I-135	curies	---	---	---	---	---	---	---	
b) Percent of Chimney Limit	%	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
c) Average Release Rate	uCi/sec	1.0E-04	1.0E-04	1.0E-04	1.1E-04	1.3E-04	1.3E-04	1.1E-04	

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: DRESDEN NUCLEAR POWER STATION - UNIT 1 DOCKET NOS.: 50-10 YEAR: 1979

I. Gaseous Effluents (continued)	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
3. Particulate Releases a) Gross Radioactivity ($\beta\gamma$)	millicuries	4.49	1.52	0.83	0.92	2.22	1.48	11.46	
b) Gross Alpha Radioactivity	mCi								
c) Isotopes Released	mCi								
Cr-51	mCi	---	---	---	---	---	---	---	
Mn-54	mCi	0.65	0.11	0.03	0.02	0.21	0.06	1.08	
Co-58	mCi	---	---	---	---	---	---	---	
Co-60	mCi	1.90	0.84	0.58	0.35	0.33	0.74	4.74	
Sr-89	mCi	0.25	0.19	0.03	0.04	0.10	0.05	0.66	
Sr-90	mCi	0.18	0.04	0.01	0.01	0.03	0.01	0.28	
Zr-95	mCi	---	---	---	---	---	---	---	
Nb-95	mCi	---	---	---	---	---	---	---	
Ru-103	mCi	---	---	---	---	---	---	---	
I-131	mCi	---	---	---	---	---	---	---	
Cs-134	mCi	0.47	0.10	0.09	0.28	0.36	0.12	1.42	
Cs-137	mCi	1.04	0.24	0.09	0.22	1.19	0.50	3.28	
Ba-140	mCi	---	---	---	---	---	---	---	
Ce-141	mCi	---	---	---	---	---	---	---	
Ce-144	mCi	---	---	---	---	---	---	---	
d) Percent of chimney limit	%	0.07	0.02	0.01	0.01	0.04	0.02	0.03	
e) Average release rate	uCi/sec	1.7E-03	5.7E-04	3.2E-04	3.4E-04	8.6E-04	5.5E-04	7.2E-04	
4. Sum of Iodines & Particulates									
a) Percent of Chimney Limit	%	0.07	0.03	0.02	0.02	0.04	0.03	0.03	
5. Gaseous Tritium									
a) Total Release	curies	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	<LLD	
b) Average Release Rate	uCi/sec	---	---	---	---	---	---	---	

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: DRESDEN NUCLEAR POWER STATION - UNIT 1 DOCKET NOS.: 50-10 YEAR: 1979

II. Liquid Effluents	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
1. Gross Radioactivity (β-γ)									
a) Total Release	Curies	2.5E-04	2.7E-03	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	3.0E-03	
b) Average Concentration Released	uci/ml	1.2E-11	9.8E-11					6.0E-11	6.6D.1.e.(1)
c) Maximum Concentration Released	uci/ml	5.0E-09	2.2E-08					2.2E-08	6.6D.1.e.(4)
d) Percent of Tech Spec Limit	%	0.01	0.10					0.06	6.6D.1.e.(5)
based on average conc. released									6.6D.1.e.(6)
2. Tritium									
a) Total Release	Curies	3.8E-05	1.6E-04					2.0E-04	6.6D.1.e.(8)
b) Average Concentration Released	uci/ml	1.7E-12	5.8E-12					4.0E-12	
c) Percent of Tech Spec Limit	%								
3. Dissolved Noble Gases									
a) Total Release	Curies	NONE	NONE					NONE	
b) Average Concentration Released	uci/ml	---	---					---	
c) Percent of Tech Spec Limit	%	---	---					---	
4. Gross Alpha Radioactivity									
a) Total Release	Curies	1.2E-07	2.4E-06					2.5E-06	
b) Average Concentration Released	uci/ml	5.5E-15	8.7E-14					5.0E-14	
5. Volume of Liquid Waste to Discharge Canal	Liters	6.3E+03	2.7E+04					3.3E+04	6.6D.1.e.(2)
6. Volume of Dilution Water	Liters	2.2E+10	2.8E+10					5.0E+10	6.6D.1.e.(3)

REPORT OF RADIOACTIVE EFFLUENTS

FACILITY: Dresden Nuclear Power Station Unit 1 DOCKET NOS.: 50 - 10 YEAR: 1979

II. Liquid Effluents (continued)	UNITS	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	6 MO. TOTAL	TECH. SPEC. REF.
7. Isotopes Released	milli curies	0.25	2.69	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	NO DISCHARGE	2.94	
Mn-54	mCi	0.01	0.08					0.09	
Co-58	mCi	---	---					---	
Fe-59	mCi	---	---					---	
Co-60	mCi	0.04	0.77					0.81	
Zn-65	mCi	---	---					---	
Sr-89	mCi	0.15	1.38					1.53	
Sr-90	mCi	0.01	0.07					0.08	
Zr-95	mCi	---	---					---	
Nb-95	mCi	---	---					---	
Ru-103	mCi	---	---					---	
I-131	mCi	---	---					---	
Cs-134	mCi	0.01	0.08					0.09	
Cs-137	mCi	0.03	0.31					0.34	
Ba-140	mCi	---	---					---	
La-140	mCi	---	---					---	
Ce-141	mCi	---	---					---	
Ce-144	mCi	---	---					---	

DRESDEN Station

1979 Report of Occupational Personnel Radiation Doses*
Commonwealth Edison Company

Station Employes

Job Function	Reactor Operations & Surveillance # of People/Man-Rem	Routine Maint. # of People/Man-Rem	Inservice Inspection # of People/Man-Rem	Waste Processing # of People/Man-Rem	Refueling # of People/Man-Rem	Total by Job Function # of People/Man-Rem
Maintenance	17/25.1	189/765.8	1/0.5	1/2.0	7/10.4	215/803.8
Operating	127/106.9	12/17.7	5/7.1	19/28.4	30/63.3	193/223.4
Health Physics	4/6.5	14/23.3	4/6.5	23/37.3	12/19.6	57/93.2
Supervision	52/11.6	92/80.9	—	—	5/10.0	149/102.5
Engineering	134/64.9	39/7.2	51/9.5	7/1.3	23/4.3	253/87.3
Company Employes other than Station Employes						
Special Maintenance	—	219/48.9	—	—	—	219/48.9
Engineering	270/10.1	—	—	—	—	270/10.1
Contract Workers						
Routine Maintenance	—	2074/642.9	366/113.5	—	—	2440/756.[illegible]

*Reported in accordance with U.S. NRC Regulatory Guide 1.16 (Rev. 4), 1975.