

Commonwealth Edison Company
Dresden Generating Station
6900 South Dresden Road
Morris, IL 60450
Tel 815/912-2920

ComEd

February 20, 1995

RLBLTR 95-0015

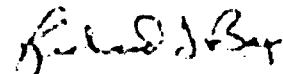
To: Mr. John B. Martin
Administrator
U.S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Subject: Dresden Nuclear Power Station
Radioactive Effluent Report
NRC Dockets 50-10, 50-237, 50-249

Enclosed is the Radioactive Effluent Report for July through December, 1994 for Dresden Nuclear Power Station.

A copy of this report will be furnished to the NRC Resident Inspector.

Sincerely Yours,



Richard L. Bax
Unit 2 Station Manager
Dresden Station

RLB/KS/jpb

Enclosure

cc: K. Schwab
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DRESDEN NUCLEAR POWER STATION DOCKET NOS. 50-10, 50-237, 50-249 REGULATORY LIMITS

Gaseous Effluents - Dose

This Specification is provided to ensure that the dose at the unrestricted area boundary from gaseous effluents from the units on site will be within the annual dose limits of 10 CFR Part 20 for unrestricted areas. The annual dose limits are the doses associated with the concentrations of 10 CFR Part 20, Appendix B, Table II. These limits provide reasonable assurance that radioactive material discharged in gaseous effluents will not result in the exposure of an individual in an unrestricted area to annual average concentrations exceeding the limits specified in Appendix B, Table II of 10 CFR Part 20 (10 CFR Part 20.106(b)). The specified release rate limits restrict, at all times, the corresponding gamma and beta dose rates above background to an individual at or beyond the unrestricted area boundary to less than or equal to 500 mrem/year to the total body or to less than or equal to 3000 mrem/year to the skin. These release rate limits also restrict, at all times, the corresponding thyroid dose rate above background to a child via the inhalation pathway to less than or equal to 1500 mrem/year. For purposes of calculating doses resulting from airborne releases, the main chimney is considered to be an elevated release point and the reactor building vent stack is considered to be a mixed mode release point.

Dose, Noble Gases

This Specification is provided to implement the requirements of Sections II.B, III.A and IV.A of Appendix I, 10 CFR Part 50. The Limiting Conditions For Operation implement the guides set forth in Section II.3 of Appendix I. The statements provide the required operating flexibility and at the same time implement the guides set forth in Section IV.A of Appendix I to assure that the releases of radioactive material in gaseous effluents will be kept "as low as is reasonably achievable." The Surveillance Requirements implement the requirements in Section III.A of Appendix I that conformance with the guides of Appendix I is to be shown by calculational procedures based on models and data such that the actual exposure of an individual through the appropriate pathways is unlikely to be substantially underestimated. The dose calculations established in the ODCM for calculating the doses due to the actual release rates of radioactive noble gases in gaseous effluents will be consistent with the methodology provided in Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I," Revision 1, October 1977 and Regulatory Guide 1.111, "Methods for Estimating Atmospheric Transport and Dispersion of Gaseous Effluents in Routine Releases from Light-Water Cooled Reactors," Revision 1, July 1977. The ODCM equations provide for determining the air doses at the unrestricted boundary based upon the historical average atmospheric conditions. NUREG-0133 provides methods for dose calculations consistent with Regulatory Guides 1.109 and 1.111.

Dose, Radioiodines, Radioactive Material in Particulate Form and Radionuclides Other than Noble Gases

This specification is provided to implement the requirements of Sections II.C, III.A and IV.A of Appendix I, 10 CFR Part 50. The Limiting Conditions for Operation are the guides set forth in Section II.C of Appendix I. The statements provide the required operating flexibility and at the same time implement the guides set forth in Section IV.A of Appendix I to assure that the releases of radioactive materials in gaseous effluents will be kept "as low as reasonably achievable." The ODCM calculational methods specified in the surveillance requirements implement the requirements in Section III.A of Appendix I that conformance with the guides of Appendix I be shown by calculational procedures based on models and data such that the actual exposure of an individual through appropriate pathways is unlikely to be substantially underestimated. The ODCM calculational methods approved by NRC for calculating the doses due to the actual release rates of the subject materials are required to be consistent with the methodology provided in Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I", Revision 1, October 1977 and Regulatory Guide 1.111, "Methods for Estimating Atmospheric Transport and Dispersion of Gaseous Effluents in Routine Releases from Light-Water-Cooled Reactors," Revision 1, July 1977. These equations also provide for determining the actual doses based upon the historical average atmospheric conditions. The release rate specifications for radioiodines, radioactive material in particulate form and radionuclides other than noble gases are dependent on the existing radionuclide pathways to man, in the unrestricted area. The pathways which were examined in the development of these specifications were: 1) individual inhalation of airborne radionuclides, 2) deposition of radionuclides onto green leafy vegetation with subsequent consumption by man and 3) deposition onto grassy areas where milk animals graze with consumption of the milk by man.

Gaseous Waste Treatment

The OPERABILITY of the gaseous waste treatment which reduces amounts or concentrations of radioactive materials ensures that the system will be available for use whenever gaseous effluents require treatment prior to release to the environment. The requirement that the appropriate portions of this system be operable when specified provides reasonable assurance that the releases of radioactive materials in gaseous effluents will be kept "as low as reasonably achievable". This specification implements the requirements of 10 CFR Part 50.36a, General Design Criterion 60 of Appendix A to 10 CFR Part 50, and design objective Section II.D of Appendix I to 10 CFR Part 50.

LIQUID EFFLUENTS

Concentration

This specification is provided to ensure the concentration of radioactive materials released in liquid waste effluents from the site to unrestricted areas will be less than the concentration levels specified in 10 CFR Part 20, Appendix B, Table II, Column 2. The concentration limit for noble gases, MPC in air (submersion), was converted to an equivalent concentration in water using the International Commission on Radiological Protection (ICRP) Publication 2.

Dose

This specification is provided to implement the requirements of Sections II.A, III.A and IV.A of Appendix I, 10 CFR Part 50. The Limiting Condition for Operation implements the guides set forth in Section II.A of Appendix I. The statements provide the required operating flexibility and at the same time implement the guides set forth in Section IV.A of Appendix I to assure that the releases of radioactive material in liquid effluents will be kept "as low as reasonably achievable". The dose calculations in the ODCM implement the requirements in Section III.A of Appendix I that conformance with the guides of Appendix I be shown by calculational procedures based on models and data such that the actual exposure of an individual through appropriate pathways is unlikely to be substantially underestimated. The equations specified in the ODCM for calculating the doses due to the actual release rates of radioactive materials in liquid effluents will be consistent with the methodology provided in Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I", Revision 1, October 1977 and Regulatory Guide 1.113, "Estimating Aquatic Dispersion of Effluents from Accidental and Routine Reactor Releases for the Purpose of Implementing Appendix I", April 1977. NUREG-0113 provides methods for dose calculations with Reg Guide 1.109 and 1.113.

Liquid Waste Treatment

The operability of the liquid radwaste treatment system ensures that this system will be available for use whenever liquid effluents require treatment prior to release to the environment. The requirement that the appropriate portions of this system be used when specified provides assurance that the releases of radioactive materials in liquid effluents will be kept "as low as reasonably achievable". This specification implements the requirements of 10 CFR Part 50 and design objective Section II.D of Appendix I to 10 CFR Part 50.

DRESDEN NUCLEAR POWER STATION DOCKET NOS. 50-10, 50-237, 50-249
MAXIMUM PERMISSIBLE CONCENTRATIONS (MPC)

The concentration of radioactive materials released in gaseous and liquid effluents from the site to unrestricted areas will be less than the concentration levels specified in 10 CFR Part 20, Appendix B, Table II, Columns 1 and 2. The concentration limit for noble gases, MPC in air (submersion), was converted to an equivalent concentration in water using the International Commission on Radiological Protection (ICRP) Publication 2.

MAXIMUM PERMISSIBLE CONCENTRATION OF DISSOLVED
OR ENTRAINED NOBLE GASES RELEASED FROM
THE SITE TO UNRESTRICTED AREAS
IN LIQUID WASTE

<u>NUCLIDE</u>	<u>MPC(uCi/ml)*</u>
Kr-85m	2.0E-04
Kr-85	5.0E-04
Kr-87	4.0E-05
Kr-88	9.0E-05
Ar-41	7.0E-05
Xe-131m	7.0E-04
Xe-133m	5.0E-04
Xe-133	6.0E-04
Xe-135m	2.0E-04
Xe-135	2.0E-04

- * Computed from Equation 20 of ICRP Publication 2 (1959),
adjusted for infinite cloud submersion in water, and
 $R = 0.01$ rem/week, density = 1.0 g/cc and $P_w/P_t = 1.0$.

AVERAGE ENERGY

The average energy of fission and activation gases was calculated for the gaseous effluents released from the site. The average energy is based on the percentage of each fission gas nuclide present and its average energy per disintegration (E in MeV/dis) for gamma and beta emissions separately.

$$\bar{E}_G = 2.48E-01 \text{ MeV/dis}$$

$$\bar{E}_B = 3.17E-01 \text{ MeV/dis}$$

EQUIPMENT OUT-OF SERVICE

The Unit 2 Service Water Monitor was out of service from August 19, 1994 to present due to system modifications. The Unit 3 Service Water Monitor was out of service from August 14, 1994 to December 27, 1994 also due to system modifications. During this time the service water was monitored by Technical Specification required once per 12 hour grab samples.

MEASUREMENTS AND APPROXIMATIONS

- A. Fission and activation gases: The D-1 Chimney, D2/3 Chimney, and D2/3 Reactor Building Vent are sampled weekly via a grab sample. The samples are analyzed for specific isotopes present in the release using a Hyper-Pure Germanium (HP Ge) Spectrometry System. Tritium is sampled monthly via a grab sample on the D-1 Chimney, D2/3 Chimney, and D2/3 Reactor Building Vent and analyzed using a Liquid Scintillation Counter. Krypton-85 is estimated in the D2/3 Chimney using a recoil or non-recoil calculation using the fission per second plot and the sum of Kr-85m, Kr-87, Kr-88, Xe-133, Xe-135, and Xe 138 activities present in Reactor Off-Gas.
- B. Iodine and Particulate: Iodine and particulate samples from the D-1 Chimney, D2/3 Chimney and the D2/3 Reactor Building Vent are collected for a maximum seven day period. These samples are analyzed for specific nuclides present in the release using a HP Ge spectrometry system. When iodine or particulate samples are not used for reporting the release rate due to management decision that the sample may not be representative, an average of the preceding sample and the following sample is used to calculate the release. A monthly composite of the particulate samples is sent to a vendor to be analyzed for Fe-55, Sr-89, Sr-90, and Gross Alpha activity.
- C. Liquid Effluents: Analyzed for specific isotopes present in the release using a HP Ge spectrometry system. A composite of all batches for the month is sent to a vendor to be analyzed for Sr-89, Sr-90, Fe-55, H-3, and Gross Alpha activity. A sample of each Containment Cooling Service Water (CCSW) system is analyzed each month for specific isotopes present in the release using a HP Ge spectrometry system. A sample of each CCSW system is sent each month to a vendor to be analyzed for Sr-89, Sr-90, Fe-55, H-3, and Gross Alpha activity.
- D. Estimation of Overall Errors: The methods used for estimating overall errors associated with radioactivity measurements vary with discharge path and form of isotopes. Factors that contribute to the error include such items as calibration of counting equipment, counting statistics, sampling error, discharge volume, and flow rate monitors.
- E. Estimation of Vendor Supplied Data: The vendor analyzed data for Sr-89, Sr-90, Fe-55, H-3, and Gross Alpha were estimated, where applicable, for November and December using October data. All CCSW vendor data were estimated using June composite data, and the August H-3 values for Radwaste were estimated using July values. A corrected Effluent Report will be submitted after the data is available and compiled.

DRESDEN NUCLEAR POWER STATION
 UNITS 1, 2 AND 3 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
July Through December 1994

GASEOUS EFFLUENTS

Docket Numbers: 50-10/50-237/50-249

SUMMATION OF ALL RELEASES

TYPE OF RELEASE		UNITS	3rd QUARTER	4th QUARTER	EST. TOTAL ERROR, %
A. FISSION AND ACTIVATION GASES					
1.	Total Release	Ci	1.03E-04	3.80	7.31
2.	Average Release Rate for Period	μCi/sec	1.30E-05	4.78E-01	
3.	Percent of Technical Specification Limit	%	*	*	
B. IODINES					
1.	Total Iodine-131	Ci	2.89E-05	1.07E-04	21.6
2.	Average Release Rate of I-131 for Period	μCi/sec	3.64E-06	1.35E-05	
3.	Percent of Technical Specification Limit	%	*	*	
4.	Total Iodine-131, Iodine-133, and Iodine-135	Ci	2.78E-04	8.41E-04	
C. PARTICULATES					
1.	Particulates with half-lives > 8 days	Ci	4.31E-03	1.19E-03	34.1
2.	Average Release Rate for Period	μCi/sec	5.42E-04	1.50E-04	
3.	Percent of Technical Specification Limit	%	*	*	
4.	Gross Alpha Radioactivity	Ci	1.91E-06	1.52E-05	
D. TRITIUM					
1.	Total Release	Ci	5.61E-01	2.71E-01	7.89
2.	Average Release Rate for Period	μCi/sec	7.06E-02	3.41E-02	
3.	Percent of Technical Specification Limit	%	*	*	

* The information is contained in the Radiological Impact on Man section of the report. Total airborne release data is provided which includes fission and activation gases, iodines, particulates, and tritium.

DRESDEN NUCLEAR POWER STATION
 UNITS 1, 2 AND 3 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
July Through December 1994

GASEOUS EFFLUENTS

Docket Numbers: 50-10/50-237/50-249

SUMMATION OF ALL RELEASES

1.	FISSION GASES	<u>LLD</u>	(uCi/cc)
	Xe-138		1.22E-07
	Xe-135m		6.43E-08
	Kr-87		3.64E-08
	Kr-88		3.90E-08
	Kr-85m		1.11E-08
	Kr-85		2.99E-06
	Xe-135		9.36E-09
	Xe-133		3.10E-08
	Ar-41		3.21E-08
	Xe133m		8.44E-08
2.	IODINES	<u>LLD</u>	(uCi/cc)
	I-131		4.80E-13
	I-133		7.86E-13
	I-135		6.03E-12
3.	PARTICULATES	<u>LLD</u>	(uCi/cc)
	Sr-89		2.75E-14
	Sr-90		1.11E-14
	Cr-51		3.67E-12
	Mn-54		8.08E-13
	Co-58		5.94E-13
	Fe-55		4.02E-14
	Fe-59		1.23E-12
	Co-60		1.25E-12
	Zr-95		8.70E-13
	Nb-95		4.94E-13
	Mo-99		4.16E-13
	Ru-103		3.63E-13
	Ag-110m		4.33E-13
	Sb-124		4.03E-13
	I-131		5.19E-13
	Cs-134		4.94E-13
	Cs-136		5.63E-13
	Cs-137		5.32E-12
	Ba-140		1.95E-12
	La-140		2.32E-12
	Ce-141		4.85E-13
	Ce-144		2.24E-12
	Zn-65		1.49E-12
	Ba-133		4.81E-13
	Sb-125		9.32E-13
	Others:		
	H-3		7.46E-07
	Gross Alpha		1.20E-15

DRESDEN NUCLEAR POWER STATION
UNIT 1 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
July Through December 1994

D1 Chimney

Gaseous Effluents
Ground Level Releases
Semi-Elevated Releases
Elevated Releases

Docket Number: 50-10

XX

		CONTINUOUS MODE		BATCH MODE	
NUCLIDES RELEASED	UNIT	3rd QUARTER	4 th QUARTER	3rd QUARTER	4th QUARTER
FISSION GASES					
Xe-138	Ci	*	*		
Xe-135m	Ci	*	*		
Kr-87	Ci	*	*		
Kr-88	Ci	*	*		
Kr-85m	Ci	*	*		
Kr-85	Ci	*	*		
Xe-135	Ci	*	*		
Xe-133	Ci	*	*		
TOTAL	Ci			NONE	NONE
IODINES					
I-131	Ci	*	*		
I-133	Ci	*	*		
I-135	Ci	*	*		
TOTAL	Ci			NONE	NONE
PARTICULATES					
Sr-89	Ci	*	*		
Sr-90	Ci	*	*		
Cr-51	Ci	*	*		
Mn-54	Ci	4.24E-06	7.17E-06		
Co-58	Ci	*	*		
Fe-59	Ci	*	*		
Co-60	Ci	*	3.20E-06		
Zr-95	Ci	*	*		
Nb-95	Ci	*	*		
Mo-99	Ci	*	*		
Ru-103	Ci	*	*		
Ag-110m	Ci	*	*		
Sb-124	Ci	*	*		
I-131	Ci	*	*		
Cs-134	Ci	*	*		
Cs-136	Ci	*	*		
Cs-137	Ci	1.81E-06	3.91E-06		
Ba-140	Ci	*	*		
La-140	Ci	*	*		
Ce-141	Ci	*	*		
Ce-144	Ci	*	*		
Zn-65	Ci	*	*		
Ba-133	Ci	*	*		
Sb-125	Ci	*	*		
Fe-55	Ci	*	5.05E-06		
TOTAL	Ci	6.05E-06	1.93E-05	NONE	NONE

* The activity of this nuclide is less than the LLD listed on the appropriate table.

DRESDEN NUCLEAR POWER STATION
UNIT 1 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
July Through September 1994

D1 Chimney

Gaseous Effluents
Ground Level Releases
Semi-Elevated Releases
Elevated Releases

Docket Number: 50-10

XX

CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	JULY	AUGUST	SEPTEMBER	3rd QUARTER TOTAL
FISSION GASES					
Xe-138	Ci	*	*	*	*
Xe-135m	Ci	*	*	*	*
Kr-87	Ci	*	*	*	*
Kr-88	Ci	*	*	*	*
Kr-85m	Ci	*	*	*	*
Kr-85	Ci	*	*	*	*
Xe-135	Ci	*	*	*	*
Xe-133	Ci	*	*	*	*
TOTAL	Ci				
IODINES					
I-131	Ci	*	*	*	*
I-133	Ci	*	*	*	*
I-135	Ci	*	*	*	*
TOTAL	Ci				
PARTICULATES					
Sr-89	Ci	*	*	*	*
Sr-90	Ci	*	*	*	*
Cr-51	Ci	*	*	*	*
Mn-54	Ci	*	4.24E-06	*	4.24E-06
Co-58	Ci	*	*	*	*
Fe-59	Ci	*	*	*	*
Co-60	Ci	*	*	*	*
Zr-95	Ci	*	*	*	*
Nb-95	Ci	*	*	*	*
Mo-99	Ci	*	*	*	*
Ru-103	Ci	*	*	*	*
Ag-110m	Ci	*	*	*	*
Sb-124	Ci	*	*	*	*
I-131	Ci	*	*	*	*
Cs-134	Ci	*	*	*	*
Cs-136	Ci	*	*	*	*
Cs-137	Ci	*	*	1.81E-06	1.81E-06
Ba-140	Ci	*	*	*	*
La-140	Ci	*	*	*	*
Ce-141	Ci	*	*	*	*
Ce-144	Ci	*	*	*	*
Zn-65	Ci	*	*	*	*
Ba-133	Ci	*	*	*	*
Sb-125	Ci	*	*	*	*
Fe-55	Ci	*	*	*	*
TOTAL	Ci		4.24E-06	1.81E-06	6.05E-06

* The activity of this nuclide is less than the LLD listed on the appropriate table.

DRESDEN NUCLEAR POWER STATION
UNIT 1 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
October Through December 1994

D1 Chimney

Gaseous Effluents
Ground Level Releases
Semi-Elevated Releases
Elevated Releases

Docket Number: 50-10

XX

CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	OCTOBER	NOVEMBER	DECEMBER	4th QUARTER TOTAL
FISSION GASES					
Xe-138	Ci	*	*	*	*
Xe-135m	Ci	*	*	*	*
Kr-87	Ci	*	*	*	*
Kr-88	Ci	*	*	*	*
Kr-85m	Ci	*	*	*	*
Kr-85	Ci	*	*	*	*
Xe-135	Ci	*	*	*	*
Xe-133	Ci	*	*	*	*
TOTAL	Ci				
IODINES					
I-131	Ci	*	*	*	*
I-133	Ci	*	*	*	*
I-135	Ci	*	*	*	*
TOTAL	Ci				
PARTICULATES					
Sr-89	Ci	*	*	*	*
Sr-90	Ci	*	*	*	*
Cr-51	Ci	*	*	*	*
Mn-54	Ci	2.71E-06	3.3E-06	1.16E-06	7.17E-06
Co-58	Ci	*	*	*	*
Fe-59	Ci	*	*	*	*
Co-60	Ci	1.84E-06	1.36E-06	*	3.20E-06
Zr-95	Ci	*	*	*	*
Nb-95	Ci	*	*	*	*
Mo-99	Ci	*	*	*	*
Ru-103	Ci	*	*	*	*
Ag-110m	Ci	*	*	*	*
Sb-124	Ci	*	*	*	*
I-131	Ci	*	*	*	*
Cs-134	Ci	*	*	*	*
Cs-136	Ci	*	*	*	*
Cs-137	Ci	6.61E-07	3.01E-07	2.95E-06	3.91E-06
Ba-140	Ci	*	*	*	*
La-140	Ci	*	*	*	*
Ce-141	Ci	*	*	*	*
Ce-144	Ci	*	*	*	*
Zn-65	Ci	*	*	*	*
Ba-133	Ci	*	*	*	*
Sb-125	Ci	*	*	*	*
Fe-55	Ci	1.03E-06	1.94E-06	2.08E-06	5.05E-06
TOTAL	Ci	6.24E-06	6.90E-06	6.19E-06	1.93E-05

* The activity of this nuclide is less than the LLD listed on the appropriate table.

DRESDEN NUCLEAR POWER STATION
UNITS 2 AND 3 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
July Through December 1994

D2/3 Chimney

Gaseous Effluents
Ground Level Releases
Semi-Elevated Releases
Elevated Releases

Docket Numbers: 50-237/50-249

XX

CONTINUOUS MODE

BATCH MODE

NUCLIDES RELEASED	UNIT	3rd QUARTER	4th QUARTER	3rd QUARTER	4th QUARTER
FISSION GASES					
Xe-138	Ci	*	*		
Xe-135m	Ci	*	*		
Kr-87	Ci	*	*		
Kr-88	Ci	*	*		
Kr-85m	Ci	*	*		
Kr-85	Ci	1.03E-04	7.56E-04		
Xe-135	Ci	*	3.80		
Xe-133	Ci	*	*		
TOTAL	Ci	1.03E-04	3.80	NONE	NONE
IODINES					
I-131	Ci	2.59E-05	1.03E-04		
I-133	Ci	2.04E-04	6.85E-04		
I-135	Ci	*	*		
TOTAL	Ci	2.30E-04	7.88E-04	NONE	NONE
PARTICULATES					
Sr-89	Ci	1.76E-05	*		
Sr-90	Ci	*	*		
Cr-51	Ci	6.46E-05	*		
Mn-54	Ci	7.18E-05	6.47E-05		
Co-58	Ci	*	*		
Fe-59	Ci	*	*		
Co-60	Ci	*	1.78E-04		
Zr-95	Ci	*	*		
Nb-95	Ci	*	*		
Mo-99	Ci	*	*		
Ru-103	Ci	*	*		
Ag-110m	Ci	*	*		
Sb-124	Ci	*	*		
I-131	Ci	*	*		
Cs-134	Ci	*	*		
Cs-136	Ci	*	*		
Cs-137	Ci	*	3.61E-05		
Ba-140	Ci	*	*		
La-140	Ci	*	*		
Ce-141	Ci	*	*		
Ce-144	Ci	*	*		
Zn-65	Ci	*	*		
Ba-133	Ci	*	*		
Sb-125	Ci	*	*		
Fe-55	Ci	2.02E-03	6.21E-05		
TOTAL	Ci	2.18E-03	3.41E-04	NONE	NONE

* The activity of this nuclide is less than the LLD listed on the appropriate table.

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D2/3 Chimney

Gaseous Effluents
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 Semi-Elevated Releases
 Elevated Releases

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CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	JULY	AUGUST	SEPTEMBER	3rd QUARTER TOTAL
FISSION GASES					
Xe-138	Ci	*	*	*	*
Xe-135m	Ci	*	*	*	*
Kr-87	Ci	*	*	*	*
Kr-88	Ci	*	*	*	*
Kr-85m	Ci	*	*	*	*
Kr-85	Ci	5.36E-05	4.93E-05	*	1.03E-04
Xe-135	Ci	*	*	*	*
Xe-133	Ci	*	*	*	*
TOTAL	Ci	5.36E-05	4.93E-05		1.03E-04
IODINES					
I-131	Ci	2.33E-05	2.61E-06	*	2.59E-05
I-133	Ci	1.91E-04	1.29E-05	*	2.04E-04
I-135	Ci	*	*	*	*
TOTAL	Ci	2.14E-04	1.55E-05		2.30E-04
PARTICULATES					
Sr-89	Ci	1.37E-05	3.91E-06	*	1.76E-05
Sr-90	Ci	*	*	*	*
Cr-51	Ci	*	6.46E-05	*	6.46E-05
Mn-54	Ci	2.16E-05	1.90E-05	3.12E-05	7.18E-05
Co-58	Ci	*	*	*	*
Fe-59	Ci	*	*	*	*
Co-60	Ci	*	*	*	*
Zr-95	Ci	*	*	*	*
Nb-95	Ci	*	*	*	*
Mo-99	Ci	*	*	*	*
Ru-103	Ci	*	*	*	*
Ag-110m	Ci	*	*	*	*
Sb-124	Ci	*	*	*	*
I-131	Ci	*	*	*	*
Cs-134	Ci	*	*	*	*
Cs-136	Ci	*	*	*	*
Cs-137	Ci	*	*	*	*
Ba-140	Ci	*	*	*	*
La-140	Ci	*	*	*	*
Ce-141	Ci	*	*	*	*
Ce-144	Ci	*	*	*	*
Zn-65	Ci	*	*	*	*
Ba-133	Ci	*	*	*	*
Sb-125	Ci	*	*	*	*
Fe-55	Ci	1.95E-03	3.77E-05	3.70E-05	2.03E-03
TOTAL	Ci	1.99E-03	1.25E-04	6.82E-05	2.18E-03

* The activity of this nuclide is less than the LLD listed on the appropriate table.

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CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	OCTOBER	NOVEMBER	DECEMBER	4th QUARTER TOTAL
FISSION GASES					
Xe-138	Ci	*	*	*	*
Xe-135m	Ci	*	*	*	*
Kr-87	Ci	*	*	*	*
Kr-88	Ci	*	*	*	*
Kr-85m	Ci	*	*	*	*
Kr-85	Ci	*	1.07E-04	6.49E-04	7.56E-04
Xe-135	Ci	*	1.23	2.57	3.80
Xe-133	Ci	*	*	*	*
TOTAL	Ci		1.23	2.57	3.80
IODINES					
I-131	Ci	*	1.69E-05	8.65E-05	1.03E-04
I-133	Ci	*	2.10E-04	4.75E-04	6.85E-04
I-135	Ci	*	*	*	*
TOTAL	Ci		2.26E-04	5.62E-04	7.88E-04
PARTICULATES					
Sr-89	Ci	*	*	*	*
Sr-90	Ci	*	*	*	*
Cr-51	Ci	*	*	*	*
Mn-54	Ci	2.24E-05	3.81E-05	4.19E-06	6.47E-05
Co-58	Ci	*	*	*	*
Fe-59	Ci	*	*	*	*
Co-60	Ci	1.09E-04	3.31E-05	3.61E-05	1.78E-04
Zr-95	Ci	*	*	*	*
Nb-95	Ci	*	*	*	*
Mo-99	Ci	*	*	*	*
Ru-103	Ci	*	*	*	*
Ag-110m	Ci	*	*	*	*
Sb-124	Ci	*	*	*	*
I-131	Ci	*	*	*	*
Cs-134	Ci	*	*	*	*
Cs-136	Ci	*	*	*	*
Cs-137	Ci	3.02E-05	5.86E-06	*	3.61E-05
Ba-140	Ci	*	*	*	*
La-140	Ci	*	*	*	*
Ce-141	Ci	*	*	*	*
Ce-144	Ci	*	*	*	*
Zn-65	Ci	*	*	*	*
Ba-133	Ci	*	*	*	*
Sb-125	Ci	*	*	*	*
Fe-55	Ci	3.06E-05	1.53E-05	1.62E-05	6.21E-05
TOTAL	Ci	1.92E-04	9.24E-05	5.65E-05	3.41E-04

* The activity of this nuclide is less than the LLD listed on the appropriate table.

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CONTINUOUS MODE

BATCH MODE

NUCLIDES RELEASED	UNIT	3rd QUARTER	4 th QUARTER	3rd QUARTER	4th QUARTER
FISSION GASES					
Xe-138	Ci	*	*		
Xe-135m	Ci	*	*		
Kr-87	Ci	*	*		
Kr-88	Ci	*	*		
Kr-85m	Ci	*	*		
Kr-85	Ci	*	*		
Xe-135	Ci	*	*		
Xe-133	Ci	*	*		
TOTAL	Ci			NONE	NONE
IODINES					
I-131	Ci	2.96E-06	4.14E-06		
I-133	Ci	4.52E-05	4.90E-05		
I-135	Ci	*	*		
TOTAL	Ci	4.82E-05	5.31E-05	NONE	NONE
PARTICULATES					
Sr-89	Ci	2.52E-06	*		
Sr-90	Ci	*	*		
Cr-51	Ci	2.92E-04	*		
Mn-54	Ci	1.51E-04	1.51E-04		
Co-58	Ci	1.09E-04	1.52E-05		
Fe-59	Ci	4.98E-05	*		
Co-60	Ci	4.77E-04	4.39E-04		
Zr-95	Ci	*	*		
Nb-95	Ci	*	*		
Mo-99	Ci	*	*		
Ru-103	Ci	*	*		
Ag-110m	Ci	*	*		
Sb-124	Ci	*	*		
I-131	Ci	*	*		
Cs-134	Ci	*	*		
Cs-136	Ci	*	*		
Cs-137	Ci	*	6.05E-06		
Ba-140	Ci	*	*		
La-140	Ci	*	*		
Ce-141	Ci	*	*		
Ce-144	Ci	*	*		
Zn-65	Ci	*	*		
Ba-133	Ci	*	*		
Sb-125	Ci	*	*		
Fe-55	Ci	1.04E-03	2.15E-04		
TOTAL	Ci	2.12E-03	8.27E-04	NONE	NONE

* The activity of this nuclide is less than the LLD listed on the appropriate table.

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CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	JULY	AUGUST	SEPTEMBER	3rd QUARTER TOTAL
FISSION GASES					
Xe-138	Ci	*	*	*	*
Xe-135m	Ci	*	*	*	*
Kr-87	Ci	*	*	*	*
Kr-88	Ci	*	*	*	*
Kr-85m	Ci	*	*	*	*
Kr-85	Ci	*	*	*	*
Xe-135	Ci	*	*	*	*
Xe-133	Ci	*	*	*	*
TOTAL	Ci				
IODINES					
I-131	Ci	2.96E-06	*	*	2.96E-06
I-133	Ci	4.52E-05	*	*	4.52E-05
I-135	Ci	*	*	*	*
TOTAL	Ci	4.82E-05			4.82E-05
PARTICULATES					
Sr-89	Ci	1.91E-06	6.08E-07	*	2.52E-06
Sr-90	Ci	*	*	*	*
Cr-51	Ci	1.84E-04	1.08E-04	*	2.92E-04
Mn-54	Ci	1.18E-04	3.30E-05	*	1.51E-04
Co-58	Ci	7.69E-05	3.17E-05	*	1.09E-04
Fe-59	Ci	3.88E-05	1.10E-05	*	4.98E-05
Co-60	Ci	3.22E-04	1.32E-04	2.30E-05	4.77E-04
Zr-95	Ci	*	*	*	*
Nb-95	Ci	*	*	*	*
Mo-99	Ci	*	*	*	*
Ru-103	Ci	*	*	*	*
Ag-110m	Ci	*	*	*	*
Sb-124	Ci	*	*	*	*
I-131	Ci	*	*	*	*
Cs-134	Ci	*	*	*	*
Cs-136	Ci	*	*	*	*
Cs-137	Ci	*	*	*	*
Ba-140	Ci	*	*	*	*
La-140	Ci	*	*	*	*
Ce-141	Ci	*	*	*	*
Ce-144	Ci	*	*	*	*
Zn-65	Ci	*	*	*	*
Ba-133	Ci	*	*	*	*
Sb-125	Ci	*	*	*	*
Fe-55	Ci	4.59E-04	3.70E-04	2.09E-04	1.04E-03
TOTAL	Ci	1.20E-03	6.86E-04	2.32E-04	2.12E-03

* The activity of this nuclide is less than the LLD listed on the appropriate table.

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CONTINUOUS MODE

NUCLIDES RELEASED	UNIT	OCTOBER	NOVEMBER	DECEMBER	4th QUARTER TOTAL
FISSION GASES					
Xe-138	Ci	*	*	*	*
Xe-135m	Ci	*	*	*	*
Kr-87	Ci	*	*	*	*
Kr-88	Ci	*	*	*	*
Kr-85m	Ci	*	*	*	*
Kr-85	Ci	*	*	*	*
Xe-135	Ci	*	*	*	*
Xe-133	Ci	*	*	*	*
TOTAL	Ci				
IODINES					
I-131	Ci	*	*	4.14E-06	4.14E-06
I-133	Ci	*	*	4.90E-05	4.90E-05
I-135	Ci	*	*	*	*
TOTAL	Ci			5.31E-05	5.31E-05
PARTICULATES					
Sr-89	Ci	*	*	*	*
Sr-90	Ci	*	*	*	*
Cr-51	Ci	*	*	*	*
Mn-54	Ci	1.87E-05	1.21E-05	1.20E-04	1.51E-04
Co-58	Ci	*	*	1.52E-05	1.52E-05
Fe-59	Ci	*	*	*	*
Co-60	Ci	2.02E-05	5.83E-05	3.61E-04	4.40E-04
Zr-95	Ci	*	*	*	*
Nb-95	Ci	*	*	*	*
Mo-99	Ci	*	*	*	*
Ru-103	Ci	*	*	*	*
Ag-110m	Ci	*	*	*	*
Sb-124	Ci	*	*	*	*
I-131	Ci	*	*	*	*
Cs-134	Ci	*	*	*	*
Cs-136	Ci	*	*	*	*
Cs-137	Ci	*	*	6.05E-06	6.05E-06
Ba-140	Ci	*	*	*	*
La-140	Ci	*	*	*	*
Ce-141	Ci	*	*	*	*
Ce-144	Ci	*	*	*	*
Zn-65	Ci	*	*	*	*
Ba-133	Ci	*	*	*	*
Sb-125	Ci	*	*	*	*
Fe-55	Ci	7.59E-05	6.64E-05	7.30E-05	2.15E-04
TOTAL	Ci	1.15E-04	1.37E-04	5.75E-04	8.27E-04

* The activity of this nuclide is less than the LLD listed on the appropriate table.

DRESDEN NUCLEAR POWER STATION
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LIQUID EFFLUENTS

SUMMATION OF ALL RELEASES

Docket Numbers: 50-10/50-237/50-249

		<u>UNITS</u>	<u>3rd QUARTER</u>	<u>4th QUARTER</u>	<u>EST. TOTAL ERROR, %</u>
A. FISSION AND ACTIVATION PRODUCTS					
1.	Total Release (not including tritium, gases, alpha)	Ci	8.30E-03	2.19E-02	10.6
2.	Average Diluted Conc. During Period	μCi/mL	1.83E-09	2.38E-08	
3.	Percent of Applicable Limit	%	*	*	
B. TRITIUM					
1.	Total Release	Ci	2.43E+00	1.93E+00	11.4
2.	Average Diluted Conc. During Period	μCi/mL	5.36E-07	2.10E-06	
3.	Percent of Applicable Limit	%	*	*	
C. DISSOLVED AND ENTRAINED GASES					
1.	Total Release	Ci	<LLD	<LLD	5.58
2.	Average Diluted Conc. During Period	μCi/mL	<LLD	<LLD	
3.	Percent of Applicable Limit	%	*	*	
GROSS ALPHA RADIOACTIVITY					
1.	Total Release	Ci	<LLD	<LLD	15.1
E. VOLUME OF WASTE RELEASED (prior to dilution)					
		Liters	3.09E+06	4.15E+06	5.00
F. VOLUME OF DILUTION WATER USED DURING PERIOD					
		Liters	4.53E+09	9.16E+08	5.00

* The information is contained in the Radiological Impact on Man section of this report. Total liquid release data is provided which includes fission and activation products, tritium, and dissolved and entrained gases.

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TABLE OF LOWER LIMITS OF DETECTABILITY
 FOR LIQUID EFFLUENTS

NUCLIDE	LLD	(uCi/mL)
Sr-89		1.09E-07*
Sr-90		5.82E-08
Mn-54		9.43E-08
Co-58		9.24E-08
Fe-59		2.04E-07
Co-60		1.46E-07
Zn-65		2.28E-07
Sb-124		7.61E-08
I-131		9.38E-08
Cs-134		7.63E-08
Cs-137		9.32E-08
Ba-140		2.85E-07
La-140		1.73E-07
Ce-141		1.43E-07
Xe-133		2.95E-07
Xe-135		1.03E-07
Cr-51		6.98E-07
Fe-55		4.74E-08
Cs-138		4.91E-04
H-3		1.04E-06
Gross Alpha		1.18E-08
Zr-95		1.59E-07
Kr-87		4.53E-06
Kr-88		1.16E-06
I-135		8.37E-07
I-132		5.91E-07
Ag-110m		8.37E-08
Ba-133		1.18E-07
Ce-144		4.39E-07
Cs-136		9.34E-08
I-133		1.12E-07
I-134		1.26E-05
Kr-85		2.37E-05
Mo-99		9.55E-08
Nb-95		1.02E-07
Np-239		2.77E-07
Ru-103		7.18E-08
Sb-125		2.10E-07
Xe-131m		3.20E-06
Xe-133m		6.81E-07
Xe-138		3.60E-06

* This value reflects the MDA for one sample analysis, all other MDAs were below 2.46E-09 μ Ci/mL.

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Radwaste LIQUID EFFLUENTS

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1. Number of Batch Releases: 28
2. Total Time Period for Batch Releases: $8.34\text{E}+03$ min
3. Maximum Time Period for a Batch Release: $3.48\text{E}+02$ min
4. Average Time Period for Batch Releases: $2.98\text{E}+02$ min
5. Minimum Time Period for a Batch Release: $9.00\text{E}+00$ min
6. Average Stream Flow During Periods of Release of Effluent into a Flowing Stream: $6.13\text{E}+05$ L/min

CONTINUOUS MODE				BATCH MODE	
NUCLIDES RELEASED	UNIT	3rd QUARTER	4th QUARTER	3rd QUARTER	4th QUARTER TOTAL
Sr-89	Ci			*	6.74E-04
Sr-90	Ci			6.06E-06	*
Mn-54	Ci			7.31E-04	2.72E-03
Co-58	Ci			*	*
Fe-59	Ci			*	2.74E-05
Co-60	Ci			2.63E-03	6.84E-03
Zn-65	Ci			*	*
Ru-103	Ci			*	*
Ag-110m	Ci			*	*
Sb-124	Ci			*	*
I-131	Ci			*	*
Cs-134	Ci			*	*
Cs-137	Ci			9.42E-04	1.60E-03
Ba-140	Ci			*	*
La-140	Ci			*	*
Ce-141	Ci			*	*
Cs-138	Ci			*	*
Fe-55	Ci			3.97E-03	1.00E-02
Zr-95	Ci			*	*
I-132	Ci			*	*
I-134	Ci			*	*
Bi-214	Ci			*	*
(above) Total For Period	Ci	NONE	NONE	8.28E-03	2.19E-02
Xe-133	Ci			*	*
Xe-135	Ci			*	*

* The activity of this nuclide is less than the LLD listed on the appropriate table.

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Radwaste LIQUID EFFLUENTS

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BATCH MODE

NUCLIDES RELEASED	UNIT	JULY	AUGUST	SEPTEMBER	3rd QUARTER TOTAL
Sr-89	Ci	*	*	*	*
Sr-90	Ci	2.15E-06	2.92E-06	9.88E-07	6.06E-06
Mn-54	Ci	2.79E-04	3.52E-04	9.96E-05	7.31E-04
Co-58	Ci	*	*	*	*
Fe-59	Ci	*	*	*	*
Co-60	Ci	9.17E-04	1.36E-03	3.52E-04	2.63E-03
Zn-65	Ci	*	*	*	*
Ru-103	Ci	*	*	*	*
Ag-110m	Ci	*	*	*	*
Sb-124	Ci	*	*	*	*
I-131	Ci	*	*	*	*
Cs-134	Ci	*	*	*	*
Cs-137	Ci	1.85E-04	6.32E-04	1.25E-04	9.42E-04
Ba-140	Ci	*	*	*	*
La-140	Ci	*	*	*	*
Ce-141	Ci	*	*	*	*
Cs-138	Ci	*	*	*	*
Fe-55	Ci	5.22E-04	2.54E-03	9.06E-04	3.97E-03
Zr-95	Ci	*	*	*	*
I-132	Ci	*	*	*	*
I-134	Ci	*	*	*	*
Bi-214	Ci	*	*	*	*
(above) Total For Period	Ci	1.91E-03	4.89E-03	1.48E-03	8.28E-03
Xe-133	Ci	*	*	*	*
Xe-135	Ci	*	*	*	*

* The activity of this nuclide is less than the LLD listed on the appropriate table.

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Radwaste LIQUID EFFLUENTS

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BATCH MODE

NUCLIDES RELEASED	UNIT	OCTOBER	NOVEMBER	DECEMBER	4th QUARTER
Sr-89	Ci	9.02E-05	1.74E-04	4.10E-04	6.74E-04
Sr-90	Ci	*	*	*	*
Mn-54	Ci	5.12E-04	8.92E-05	2.12E-03	2.72E-03
Co-58	Ci	*	*	*	*
Fe-59	Ci	*	*	2.74E-05	2.74E-05
Co-60	Ci	1.37E-03	2.50E-04	5.22E-03	6.84E-03
Zn-65	Ci	*	*	*	*
Ru-103	Ci	*	*	*	*
Ag-110m	Ci	*	*	*	*
Sb-124	Ci	*	*	*	*
I-131	Ci	*	*	*	*
Cs-134	Ci	*	*	*	*
Cs-137	Ci	2.78E-04	1.88E-04	1.13E-03	1.60E-03
Ba-140	Ci	*	*	*	*
La-140	Ci	*	*	*	*
Ce-141	Ci	*	*	*	*
Cs-138	Ci	*	*	*	*
Fe-55	Ci	1.34E-03	2.58E-03	6.08E-03	1.00E-02
Zr-95	Ci	*	*	*	*
I-132	Ci	*	*	*	*
I-134	Ci	*	*	*	*
Bi-214	Ci	*	*	*	*
(above) Total For Period	Ci	3.59E-03	3.28E-03	1.50E-02	2.19E-02
Xe-133	Ci	*	*	*	*
Xe-135	Ci	*	*	*	*

* The activity of this nuclide is less than the LLD listed on the appropriate table.

DRESDEN NUCLEAR POWER STATION
 UNITS 1, 2 AND 3 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
July Through December 1994

CCSW LIQUID EFFLUENTS

Docket Numbers: 50-237/50-249

1. Number of Batch Releases: 7
2. Total Time Period for Batch Releases: 8.68 min
3. Maximum Time Period for a Batch Release: 1.24E+00 min
4. Average Time Period for Batch Releases: 1.24E min
5. Minimum Time Period for a Batch Release: 1.24E min
6. Average Stream Flow During Periods of Release of Effluent into a Flowing Stream: 1.42E+06 L/min

CONTINUOUS MODE

BATCH MODE

NUCLIDES RELEASED	UNIT	3rd QUARTER	4th QUARTER	3rd QUARTER	4th QUARTER
Sr-89	Ci			*	*
Sr-90	Ci			*	*
Mn-54	Ci			*	*
Co-58	Ci			*	*
Fe-59	Ci			*	*
Co-60	Ci			*	*
Zn-65	Ci			*	*
Sb-122	Ci			*	*
Sb-124	Ci			*	*
I-131	Ci			*	*
I-132	Ci			*	*
I-135	Ci			*	*
Cs-134	Ci			*	*
Cs-137	Ci			1.55E-05	1.15E-06
Ba-140	Ci			*	*
La-140	Ci			*	*
Cs-138	Ci			*	*
Fe-55	Ci			*	*
Ba-133	Ci			*	*
(above)					
Total For Period	Ci	NONE	NONE	1.55E-05	1.15E-06
Xe-133	Ci			*	*
Xe-138	Ci			*	*

* The activity of this nuclide is less than the LLD listed on the appropriate table.

DRESDEN NUCLEAR POWER STATION
 UNITS 1, 2 AND 3 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
July Through September 1994

CCSW LIQUID EFFLUENTS

Docket Numbers: 50-237/50-249

BATCH MODE

NUCLIDES RELEASED	UNIT	JULY	AUGUST	SEPTEMBER	3rd QUARTER TOTAL
Sr-89	Ci	*	*	*	*
Sr-90	Ci	*	*	*	*
Mn-54	Ci	*	*	*	*
Co-58	Ci	*	*	*	*
Fe-59	Ci	*	*	*	*
Co-60	Ci	*	*	*	*
Zn-65	Ci	*	*	*	*
Sb-122	Ci	*	*	*	*
Sb-124	Ci	*	*	*	*
I-131	Ci	*	*	*	*
I-132	Ci	*	*	*	*
I-135	Ci	*	*	*	*
Cs-134	Ci	*	*	*	*
Cs-137	Ci	5.57E-06	6.43E-06	3.50E-06	1.55E-05
Ba-140	Ci	*	*	*	*
La-140	Ci	*	*	*	*
Cs-138	Ci	*	*	*	*
Fe-55	Ci	*	*	*	*
Ba-133	Ci	*	*	*	*
(above) Total For Period	Ci	5.57E-06	6.43E-06	3.50E-06	1.55E-05
Xe-133	Ci	*	*	*	*
Xe-138	Ci	*	*	*	*

* The activity of this nuclide is less than the LLD listed on the appropriate table.

DRESDEN NUCLEAR POWER STATION
 UNITS 1, 2 AND 3 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
October Through December 1994

CCSW LIQUID EFFLUENTS

Docket Numbers: 50-237/50-249

BATCH MODE

NUCLIDES RELEASED	UNIT	OCTOBER	NOVEMBER	DECEMBER	4th QUARTER TOTAL
Sr-89	Ci	*	*	*	*
Sr-90	Ci	*	*	*	*
Mn-54	Ci	*	*	*	*
Co-58	Ci	*	*	*	*
Fe-59	Ci	*	*	*	*
Co-60	Ci	*	*	*	*
Zn-65	Ci	*	*	*	*
Sb-122	Ci	*	*	*	*
Sb-124	Ci	*	*	*	*
I-131	Ci	*	*	*	*
I-132	Ci	*	*	*	*
I-135	Ci	*	*	*	*
Cs-134	Ci	*	*	*	*
Cs-137	Ci	*	1.15E-06	*	1.15E-06
Ba-140	Ci	*	*	*	*
La-140	Ci	*	*	*	*
Cs-138	Ci	*	*	*	*
Fe-55	Ci	*	*	*	*
Ba-133	Ci	*	*	*	*
(above) Total For Period	Ci	*	1.15E-06	*	1.15E-06
Xe-133	Ci	*	*	*	*
Xe-138	Ci	*	*	*	*

* The activity of this nuclide is less than the LLD listed on the appropriate table.

DRESDEN NUCLEAR POWER STATION
UNITS 1, 2 AND 3 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
July Through December 1994

Docket Numbers: 50-10/50-237/50-249

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (NOT IRRADIATED FUEL)				Est. Total Error,
1.	Type of Waste	Unit	6-month period	
a.	Spent resins, filter sludges, evaporator bottoms, etc.	m3	None	
		Ci	None	
b.	Dry compressible waste, contaminated equipment, etc.	m3	None	
		Ci	None	
c.	Irradiated components, control rods, etc.	m3	None	
		Ci	None	
d.	Other (describe)	m3	None	
		Ci	None	
2.	Estimate of Major Nuclide Composition (by type of waste)			

3. Solid Waste Disposition

NUMBER OF SHIPMENTS

MODE OF TRANSPORTATION

DESTINATION

None

B. IRRADIATED FUEL SHIPMENTS (Disposition)

NUMBER OF SHIPMENTS

MODE OF TRANSPORTATION

DESTINATION

None

DRESDEN NUCLEAR POWER STATION
 UNITS 1, 2 AND 3 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
July Through December 1994

ABNORMAL RELEASES *

A. LIQUID

1.	Number of Releases:	43
2.	Total Activity Releases:	2.11E-01 Ci

B. GASEOUS

1.	Number of Releases:	0
2.	Total Activity Releases:	0

TOTAL		0
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- A.1 In June, 1994, elevated tritium levels were discovered in the on-site storm sewers. The highest level at the last point prior to discharge into the Unit 1 intake canal was 33,000 pCi/L on September 1, 1994 (3rd Quarter) and 3,600 pCi/L on November 30, 1994 (4th Quarter). The total activity released is based on an estimated typical discharge flow of 10 gallons per minute and the highest tritium level for each quarter. No other isotopes were found in the samples. Various storm sewer locations on-site are now periodically analyzed for tritium.

3rd Quarter	H-3	1.65E-01 Ci
4th Quarter	H-3	1.81E-02 Ci

In September of 1994, tritium was identified during the excavation of a suspected leaking line. A total of 1.28E+05 gallons (41 releases) of tritiated water was discharged into the Unit 2/3 discharge canal from October 3, 1994 to November 14, 1994. No other isotopes were found in the sample.

H-3 2.79E-02 Ci

- A.3 In December of 1994 approximately 2000 gallons of sludge were spilled to the ground due to operational problems at the Sewage Treatment Facility. The sludge has historically been radioactive due to a concentration of isotopes over time.

Mn-54	5.95E-10 Ci
Co-60	2.71E-09 Ci

* These releases are not included in the Liquid Effluents Summation of all Releases Table

RADIOLOGICAL IMPACT ON MAN

DRESDEN STATION UNIT ONE

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 INFANT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MRAD)	()	()	()	()	()
BETA AIR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MRAD)	()	()	()	()	()
TOT. BODY	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MREM)	()	()	()	()	()
SKIN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MREM)	()	()	()	()	()
ORGAN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MREM)	()	()	()	()	()

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10CFR 50 APP. I
 INFANT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT ONE

ACTUAL 1994

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
CHILD RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MRAD)	()	()	()	()	()
BETA AIR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MRAD)	()	()	()	()	()
TOT. BODY	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MREM)	()	()	()	()	()
SKIN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MREM)	()	()	()	()	()
ORGAN	5.10E-06	6.19E-06	4.01E-06	4.36E-06	1.97E-05
(MREM)	(S)	(S)	(S)	(S)	(S)

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THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10CFR 50 APP. I
CHILD RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00

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RESULTS BASED UPON:

ODCM ANNEX REVISION 1.0 JANUARY 1994
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT ONE

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 TEENAGER RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MRAD)	()	()	()	()	()
BETA AIR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MRAD)	()	()	()	()	()
TOT. BODY	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MREM)	()	()	()	()	()
SKIN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MREM)	()	()	()	()	()
ORGAN	4.22E-06	5.12E-06	3.32E-06	3.60E-06	1.63E-05
(MREM)	(S)	(S)	(S)	(S)	(S)

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 THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10CFR 50 APP. I
 TEENAGER RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00

LIVER LIVER LIVER LIVER LIVER
 RESULTS BASED UPON:
 ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT ONE

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 ADULT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	0.00E+00 ()	0.00E+00 ()	0.00E+00 ()	0.00E+00 ()	0.00E+00 ()
BETA AIR (MRAD)	0.00E+00 ()	0.00E+00 ()	0.00E+00 ()	0.00E+00 ()	0.00E+00 ()
TOT. BODY (MREM)	0.00E+00 ()	0.00E+00 ()	0.00E+00 ()	0.00E+00 ()	0.00E+00 ()
SKIN (MREM)	0.00E+00 ()	0.00E+00 ()	0.00E+00 ()	0.00E+00 ()	0.00E+00 ()
ORGAN (MREM)	7.07E-06 (S)	8.56E-06 (S)	5.54E-06 (S)	5.98E-06 (S)	2.72E-05 (S)

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 THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10CFR 50 APP. I
 ADULT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00

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RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT TWO

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 INFANT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	8.31E-06	1.15E-11	6.38E-12	1.14E-06	9.45E-06
(MRAD)	(N)	(N)	(N)	(N)	(N)
BETA AIR	1.72E-06	1.74E-10	9.65E-11	2.13E-07	1.94E-06
(MRAD)	(E)	(E)	(E)	(E)	(E)
TOT. BODY	6.25E-06	4.51E-11	2.51E-11	8.58E-07	7.10E-06
(MREM)	(N)	(WSW)	(WSW)	(N)	(N)
SKIN	7.62E-06	1.26E-10	7.00E-11	1.04E-06	8.66E-06
(MREM)	(N)	(E)	(E)	(N)	(N)
ORGAN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MREM)	()	()	()	()	()

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10CFR 50 APP. I
 INFANT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT TWO

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 CHILD RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	8.31E-06 (N)	1.15E-11 (N)	6.38E-12 (N)	1.14E-06 (N)	9.45E-06 (N)
BETA AIR (MRAD)	1.72E-06 (E)	1.74E-10 (E)	9.65E-11 (E)	2.13E-07 (E)	1.94E-06 (E)
TOT. BODY (MREM)	6.25E-06 (N)	4.51E-11 (WSW)	2.51E-11 (WSW)	8.58E-07 (N)	7.10E-06 (N)
SKIN (MREM)	7.62E-06 (N)	1.26E-10 (E)	7.00E-11 (E)	1.04E-06 (N)	8.66E-06 (N)
ORGAN (MREM)	1.65E-04 (NNW)	3.87E-04 (NNW)	1.29E-04 (NNW)	1.51E-05 (NNW)	6.96E-04 (NNW)

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 THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10CFR 50 APP. I CHILD RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.00	0.01	0.00	0.00	15.0	0.00

LIVER LIVER LIVER GI_LLI LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT TWO

ACTUAL 1994

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
TEENAGER RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	8.31E-06	1.15E-11	6.38E-12	1.14E-06	9.45E-06
(MRAD)	(N)	(N)	(N)	(N)	(N)
BETA AIR	1.72E-06	1.74E-10	9.65E-11	2.13E-07	1.94E-06
(MRAD)	(E)	(E)	(E)	(E)	(E)
TOT. BODY	6.25E-06	4.51E-11	2.51E-11	8.58E-07	7.10E-06
(MREM)	(N)	(WSW)	(WSW)	(N)	(N)
SKIN	7.62E-06	1.26E-10	7.00E-11	1.04E-06	8.66E-06
(MREM)	(N)	(E)	(E)	(N)	(N)
ORGAN	1.46E-04	3.98E-04	1.47E-04	1.70E-05	7.08E-04
(MREM)	(NNW)	(NNW)	(NNW)	(NNW)	(NNW)

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THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10CFR 50 APP. I TEENAGER RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.00	0.01	0.00	0.00	15.0	0.00

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RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT TWO

ACTUAL 1994

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
ADULT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	8.31E-06	1.15E-11	6.38E-12	1.14E-06	9.45E-06
(MRAD)	(N)	(N)	(N)	(N)	(N)
BETA AIR	1.72E-06	1.74E-10	9.65E-11	2.13E-07	1.94E-06
(MRAD)	(E)	(E)	(E)	(E)	(E)
TOT. BODY	6.25E-06	4.51E-11	2.51E-11	8.58E-07	7.10E-06
(MREM)	(N)	(WSW)	(WSW)	(N)	(N)
SKIN	7.62E-06	1.26E-10	7.00E-11	1.04E-06	8.66E-06
(MREM)	(N)	(E)	(E)	(N)	(N)
ORGAN	2.48E-04	6.93E-04	2.58E-04	2.98E-05	1.23E-03
(MREM)	(NNW)	(NNW)	(NNW)	(NNW)	(NNW)

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THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10CFR 50 APP. I ADULT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.00	0.01	0.00	0.00	15.0	0.01

GI_LLI GI_LLI GI_LLI GI_LLI GI_LLI

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT THREE

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 INFANT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	8.64E-06	0.00E+00	0.00E+00	2.27E-05	3.13E-05
(MRAD)	(N)	()	()	(N)	(N)
BETA AIR	1.85E-06	0.00E+00	0.00E+00	4.24E-06	6.09E-06
(MRAD)	(E)	()	()	(E)	(E)
TOT. BODY	6.50E-06	0.00E+00	0.00E+00	1.71E-05	2.36E-05
(MREM)	(N)	()	()	(N)	(N)
SKIN	7.93E-06	0.00E+00	0.00E+00	2.07E-05	2.87E-05
(MREM)	(N)	()	()	(N)	(N)
ORGAN	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
(MREM)	()	()	()	()	()

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10CFR 50 APP. I
 INFANT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT THREE

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 CHILD RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	8.64E-06	0.00E+00	0.00E+00	2.27E-05	3.13E-05
(MRAD)	(N)	()	()	(N)	(N)
BETA AIR	1.85E-06	0.00E+00	0.00E+00	4.24E-06	6.09E-06
(MRAD)	(E)	()	()	(E)	(E)
TOT. BODY	6.50E-06	0.00E+00	0.00E+00	1.71E-05	2.36E-05
(MREM)	(N)	()	()	(N)	(N)
SKIN	7.93E-06	0.00E+00	0.00E+00	2.07E-05	2.87E-05
(MREM)	(N)	()	()	(N)	(N)
ORGAN	5.91E-04	0.00E+00	1.40E-05	7.62E-05	6.66E-04
(MREM)	(NNW)	()	(NNW)	(NNW)	(NNW)

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 THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10CFR 50 APP. I
 CHILD RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.01	0.00	0.00	0.00	15.0	0.00

LIVER LIVER GI_LLI LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT THREE

ACTUAL 1994
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 TEENAGER RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	8.64E-06 (N)	0.00E+00 ()	0.00E+00 ()	2.27E-05 (N)	3.13E-05 (N)
BETA AIR (MRAD)	1.85E-06 (E)	0.00E+00 ()	0.00E+00 ()	4.24E-06 (E)	6.09E-06 (E)
TOT. BODY (MREM)	6.50E-06 (N)	0.00E+00 ()	0.00E+00 ()	1.71E-05 (N)	2.36E-05 (N)
SKIN (MREM)	7.93E-06 (N)	0.00E+00 ()	0.00E+00 ()	2.07E-05 (N)	2.87E-05 (N)
ORGAN (MREM)	5.17E-04 (NNW)	0.00E+00 ()	1.10E-05 (NNW)	9.63E-05 (NNW)	6.24E-04 (NNW)

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 THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10CFR 50 APP. I
 TEENAGER RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.01	0.00	0.00	0.00	15.0	0.00

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 RESULTS BASED UPON:
 ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT THREE

ACTUAL 1994

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95

ADULT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	8.64E-06 (N)	0.00E+00 ()	0.00E+00 ()	2.27E-05 (N)	3.13E-05 (N)
BETA AIR (MRAD)	1.85E-06 (E)	0.00E+00 ()	0.00E+00 ()	4.24E-06 (E)	6.09E-06 (E)
TOT. BODY (MREM)	6.50E-06 (N)	0.00E+00 ()	0.00E+00 ()	1.71E-05 (N)	2.36E-05 (N)
SKIN (MREM)	7.93E-06 (N)	0.00E+00 ()	0.00E+00 ()	2.07E-05 (N)	2.87E-05 (N)
ORGAN (MREM)	8.78E-04 (NNW)	0.00E+00 ()	1.87E-05 (NNW)	1.71E-04 (NNW)	1.07E-03 (NNW)

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THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10CFR 50 APP. I ADULT RECEPTOR

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
GAMMA AIR (MRAD)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
BETA AIR (MRAD)	10.0	0.00	0.00	0.00	0.00	20.0	0.00
TOT. BODY (MREM)	2.5	0.00	0.00	0.00	0.00	5.0	0.00
SKIN (MREM)	7.5	0.00	0.00	0.00	0.00	15.0	0.00
ORGAN (MREM)	7.5	0.01	0.00	0.00	0.00	15.0	0.01

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RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT ONE

ACTUAL 1994
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	0.00E+00	1.74E-07	0.00E+00	0.00E+00	1.74E-07
INTERNAL ORGAN	0.00E+00	2.16E-06	0.00E+00	0.00E+00	2.16E-06
		LIVER			LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.00	0.00	0.00	0.00	3.0	0.00
CRIT. ORGAN (MREM)	5.0	0.00	0.00	0.00	0.00	10.0	0.00

LIVER

LIVER

RESULTS BASED UPON:

ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT ONE

1994 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	0.00E+00	1.74E-07	0.00E+00	0.00E+00	1.74E-07
BODY					
INTERNAL	0.00E+00	2.16E-06	0.00E+00	0.00E+00	2.16E-06
ORGAN					
		LIVER			LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL	4.0 MREM	0.000
BODY		
INTERNAL	4.0 MREM	0.000
ORGAN		

LIVER

* THIS CALCULATION OF DOSE IS BASED ON TECHNIQUES DESCRIBED IN THE
 COMMONWEALTH EDISON OFFSITE DOSE CALCULATION MANUAL. THESE TECHNIQUES DIFFER
 FROM THOSE DESCRIBED IN 40 CFR 141.

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT ONE

ACTUAL 1994
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	0.00E+00	1.23E-05	0.00E+00	0.00E+00	1.23E-05
INTERNAL ORGAN	0.00E+00	8.70E-05	0.00E+00	0.00E+00	8.70E-05
		BONE			BONE

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.00	0.00	0.00	0.00	3.0	0.00
INT. ORGAN (MREM)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
			BONE				BONE

RESULTS BASED UPON:

ODCM ANNEX REVISION	1.0	JANUARY 1994
ODCM SOFTWARE VERSION	1.1	January 1995
ODCM DATABASE VERSION	1.1	January 1995

DRESDEN STATION UNIT ONE

1994 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	0.00E+00	2.68E-07	0.00E+00	0.00E+00	2.68E-07
BODY					
INTERNAL	0.00E+00	1.76E-06	0.00E+00	0.00E+00	1.76E-06
ORGAN					
		BONE			BONE

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL	4.0 MREM	0.000
BODY		
INTERNAL	4.0 MREM	0.000
ORGAN		

BONE

* THIS CALCULATION OF DOSE IS BASED ON TECHNIQUES DESCRIBED IN THE
 COMMONWEALTH EDISON OFFSITE DOSE CALCULATION MANUAL. THESE TECHNIQUES DIFFER
 FROM THOSE DESCRIBED IN 40 CFR 141.

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT ONE

ACTUAL 1994

MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	0.00E+00	3.11E-05	0.00E+00	0.00E+00	3.11E-05
INTERNAL ORGAN	0.00E+00	8.93E-05	0.00E+00	0.00E+00	8.93E-05
		LIVER			LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.00	0.00	0.00	0.00	3.0	0.00
CRIT. ORGAN (MREM)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
			LIVER				LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT ONE

1994 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	0.00E+00	2.87E-07	0.00E+00	0.00E+00	2.87E-07
BODY					
INTERNAL	0.00E+00	8.05E-07	0.00E+00	0.00E+00	8.05E-07
ORGAN					
		LIVER			LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL	4.0 MREM	0.000
BODY		
INTERNAL	4.0 MREM	0.000
ORGAN		

LIVER

* THIS CALCULATION OF DOSE IS BASED ON TECHNIQUES DESCRIBED IN THE
 COMMONWEALTH EDISON OFFSITE DOSE CALCULATION MANUAL. THESE TECHNIQUES DIFFER
 FROM THOSE DESCRIBED IN 40 CFR 141.

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT ONE

ACTUAL 1994
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	0.00E+00	5.71E-05	0.00E+00	0.00E+00	5.71E-05
INTERNAL ORGAN	0.00E+00	8.71E-05	0.00E+00	0.00E+00	8.71E-05
		LIVER			LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.00	0.00	0.00	0.00	3.0	0.00
CRIT. ORGAN (MREM)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
			LIVER				LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT ONE

1994 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	0.00E+00	5.58E-07	0.00E+00	0.00E+00	5.58E-07
BODY					
INTERNAL	0.00E+00	8.42E-07	0.00E+00	0.00E+00	8.42E-07
ORGAN					
		LIVER			LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL	4.0 MREM	0.000
BODY		
INTERNAL	4.0 MREM	0.000
ORGAN		
		LIVER

* THIS CALCULATION OF DOSE IS BASED ON TECHNIQUES DESCRIBED IN THE
 COMMONWEALTH EDISON OFFSITE DOSE CALCULATION MANUAL. THESE TECHNIQUES DIFFER
 FROM THOSE DESCRIBED IN 40 CFR 141.

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT TWO

ACTUAL 1994
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.71E-05	1.24E-05	8.54E-06	9.24E-06	4.73E-05
INTERNAL ORGAN	2.54E-05	1.68E-05	1.35E-05	2.54E-05	7.35E-05
	LIVER	LIVER	LIVER	BONE	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.00	0.00	0.00	0.00	3.0	0.00
CRIT. ORGAN (MREM)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
		LIVER	LIVER	LIVER	BONE		LIVER

RESULTS BASED UPON:
 ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT TWO

1994 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	1.71E-05	1.24E-05	8.54E-06	9.24E-06	4.73E-05
BODY					
INTERNAL	2.54E-05	1.68E-05	1.35E-05	2.54E-05	7.35E-05
ORGAN					
	LIVER	LIVER	LIVER	BONE	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL	4.0 MREM	0.001
BODY		
INTERNAL	4.0 MREM	0.002
ORGAN		

LIVER

* THIS CALCULATION OF DOSE IS BASED ON TECHNIQUES DESCRIBED IN THE
 COMMONWEALTH EDISON OFFSITE DOSE CALCULATION MANUAL. THESE TECHNIQUES DIFFER
 FROM THOSE DESCRIBED IN 40 CFR 141.

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT TWO

ACTUAL 1994
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	6.94E-05	4.60E-05	4.22E-05	6.77E-05	2.25E-04
INTERNAL ORGAN	3.68E-04	2.28E-04	2.33E-04	4.18E-04	1.25E-03
	LIVER	BONE	BONE	BONE	BONE

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.00	0.00	0.00	0.00	3.0	0.01
CRIT. ORGAN (MREM)	5.0	0.01	0.00	0.00	0.01	10.0	0.01
		LIVER	BONE	BONE	BONE		BONE

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT TWO

1994 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	1.76E-05	1.29E-05	8.92E-06	9.55E-06	4.89E-05
BODY					
INTERNAL	2.34E-05	1.56E-05	1.23E-05	2.23E-05	6.67E-05
ORGAN					
	LIVER	LIVER	LIVER	BONE	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL	4.0 MREM	0.001
BODY		
INTERNAL	4.0 MREM	0.002
ORGAN		

LIVER

* THIS CALCULATION OF DOSE IS BASED ON TECHNIQUES DESCRIBED IN THE
 COMMONWEALTH EDISON OFFSITE DOSE CALCULATION MANUAL. THESE TECHNIQUES DIFFER
 FROM THOSE DESCRIBED IN 40 CFR 141.

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT TWO

ACTUAL 1994

MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.40E-04	8.79E-05	8.75E-05	1.47E-04	4.63E-04
INTERNAL ORGAN	3.85E-04	2.37E-04	2.41E-04	4.13E-04	1.28E-03
	LIVER	LIVER	LIVER	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.01	0.01	0.01	0.01	3.0	0.02
INTERNAL ORGAN (MREM)	5.0	0.01	0.00	0.00	0.01	10.0	0.01
		LIVER	LIVER	LIVER	LIVER		LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT TWO

1994 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *

PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	9.72E-06	6.95E-06	4.94E-06	5.33E-06	2.69E-05
BODY					
INTERNAL	1.19E-05	7.93E-06	6.18E-06	8.17E-06	3.37E-05
ORGAN					
	LIVER	GI_LLI	LIVER	GI_LLI	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL	4.0 MREM	0.001
BODY		
INTERNAL	4.0 MREM	0.001
ORGAN		

LIVER

* THIS CALCULATION OF DOSE IS BASED ON TECHNIQUES DESCRIBED IN THE COMMONWEALTH EDISON OFFSITE DOSE CALCULATION MANUAL. THESE TECHNIQUES DIFFER FROM THOSE DESCRIBED IN 40 CFR 141.

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT TWO

ACTUAL 1994
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	2.53E-04	1.57E-04	1.58E-04	2.65E-04	8.33E-04
BODY					
INTERNAL	3.80E-04	2.34E-04	2.37E-04	4.05E-04	1.26E-03
ORGAN					
	LIVER	LIVER	LIVER	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.02	0.01	0.01	0.02	3.0	0.03
CRIT. ORGAN (MREM)	5.0	0.01	0.00	0.00	0.01	10.0	0.01
		LIVER	LIVER	LIVER	LIVER		LIVER

RESULTS BASED UPON:

ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT TWO

1994 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	1.43E-05	1.01E-05	7.29E-06	7.91E-06	3.96E-05
BODY					
INTERNAL	1.55E-05	1.16E-05	7.86E-06	1.22E-05	4.56E-05
ORGAN					
	LIVER	GI_LLI	LIVER	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL	4.0 MREM	0.001
BODY		
INTERNAL	4.0 MREM	0.001
ORGAN		

GI_LLI

* THIS CALCULATION OF DOSE IS BASED ON TECHNIQUES DESCRIBED IN THE
 COMMONWEALTH EDISON OFFSITE DOSE CALCULATION MANUAL. THESE TECHNIQUES DIFFER
 FROM THOSE DESCRIBED IN 40 CFR 141.

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT THREE

ACTUAL 1994
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	2.82E-05	1.55E-05	1.02E-05	9.24E-06	6.32E-05
INTERNAL ORGAN	4.06E-05	2.05E-05	1.54E-05	2.54E-05	9.43E-05
	LIVER	LIVER	LIVER	BONE	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.00	0.00	0.00	0.00	3.0	0.00
CRIT. ORGAN (MREM)	5.0	0.00	0.00	0.00	0.00	10.0	0.00
		LIVER	LIVER	LIVER	BONE		LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT THREE

1994 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	2.82E-05	1.55E-05	1.02E-05	9.24E-06	6.32E-05
BODY					
INTERNAL	4.06E-05	2.05E-05	1.54E-05	2.54E-05	9.43E-05
ORGAN					
	LIVER	LIVER	LIVER	BONE	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL	4.0 MREM	0.002
BODY		
INTERNAL	4.0 MREM	0.002
ORGAN		

LIVER

* THIS CALCULATION OF DOSE IS BASED ON TECHNIQUES DESCRIBED IN THE
 COMMONWEALTH EDISON OFFSITE DOSE CALCULATION MANUAL. THESE TECHNIQUES DIFFER
 FROM THOSE DESCRIBED IN 40 CFR 141.

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
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 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT THREE

ACTUAL 1994
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	1.07E-04	5.42E-05	4.56E-05	6.76E-05	2.75E-04
BODY					
INTERNAL	5.56E-04	2.62E-04	2.45E-04	4.18E-04	1.48E-03
ORGAN					
	LIVER	LIVER	BONE	BONE	BONE

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.01	0.00	0.00	0.00	3.0	0.01
CRIT. ORGAN (MREM)	5.0	0.01	0.01	0.00	0.01	10.0	0.01
		LIVER	LIVER	BONE	BONE		BONE

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT THREE

1994 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	2.89E-05	1.60E-05	1.06E-05	9.54E-06	6.51E-05
BODY					
INTERNAL	3.77E-05	1.90E-05	1.40E-05	2.23E-05	8.63E-05
ORGAN					
	LIVER	LIVER	LIVER	BONE	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL	4.0 MREM	0.002
BODY		
INTERNAL	4.0 MREM	0.002
ORGAN		

LIVER

* THIS CALCULATION OF DOSE IS BASED ON TECHNIQUES DESCRIBED IN THE
 COMMONWEALTH EDISON OFFSITE DOSE CALCULATION MANUAL. THESE TECHNIQUES DIFFER
 FROM THOSE DESCRIBED IN 40 CFR 141.

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
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DRESDEN STATION UNIT THREE

ACTUAL 1994

MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	2.13E-04	1.02E-04	9.24E-05	1.47E-04	5.54E-04
INTERNAL ORGAN	5.82E-04	2.74E-04	2.53E-04	4.12E-04	1.52E-03
	LIVER	LIVER	LIVER	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.01	0.01	0.01	0.01	3.0	0.02
CRIT. ORGAN (MREM)	5.0	0.01	0.01	0.01	0.01	10.0	0.02
	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT THREE

1994 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	1.59E-05	8.61E-06	5.82E-06	5.33E-06	3.57E-05
BODY					
INTERNAL	1.92E-05	9.85E-06	7.09E-06	8.17E-06	4.37E-05
ORGAN					
	LIVER	GI_LLI	LIVER	GI_LLI	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL	4.0 MREM	0.001
BODY		
INTERNAL	4.0 MREM	0.001
ORGAN		

LIVER

* THIS CALCULATION OF DOSE IS BASED ON TECHNIQUES DESCRIBED IN THE
 COMMONWEALTH EDISON OFFSITE DOSE CALCULATION MANUAL. THESE TECHNIQUES DIFFER
 FROM THOSE DESCRIBED IN 40 CFR 141.

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
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DRESDEN STATION UNIT THREE

ACTUAL 1994

MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	3.83E-04	1.81E-04	1.66E-04	2.65E-04	9.95E-04
BODY					
INTERNAL	5.74E-04	2.71E-04	2.50E-04	4.04E-04	1.50E-03
ORGAN					
	LIVER	LIVER	LIVER	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 10 CFR 50 APP. I

----- % OF APP I. -----

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
TOTAL BODY (MREM)	1.5	0.03	0.01	0.01	0.02	3.0	0.03
CRIT. ORGAN (MREM)	5.0	0.01	0.01	0.00	0.01	10.0	0.01
		LIVER	LIVER	LIVER	LIVER		LIVER

RESULTS BASED UPON:

ODCM ANNEX REVISION 1.0 JANUARY 1994
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

DRESDEN STATION UNIT THREE

1994 ANNUAL REPORT
 PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
 PERIOD OF RELEASE - 01/01/94 TO 12/31/94 CALCULATED 02/21/95
 ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	2.34E-05	1.24E-05	8.54E-06	7.91E-06	5.23E-05
INTERNAL ORGAN	2.51E-05	1.44E-05	9.27E-06	1.22E-05	5.96E-05
	LIVER	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1994

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY	4.0 MREM	0.001
INTERNAL ORGAN	4.0 MREM	0.001

GI_LLI

* THIS CALCULATION OF DOSE IS BASED ON TECHNIQUES DESCRIBED IN THE
 COMMONWEALTH EDISON OFFSITE DOSE CALCULATION MANUAL. THESE TECHNIQUES DIFFER
 FROM THOSE DESCRIBED IN 40 CFR 141.

RESULTS BASED UPON: ODCM ANNEX REVISION 1.0 JANUARY 1994
 ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

METEOROLOGICAL DATA

July 1994 - September 1994
150-35 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	NNW		EU	MU	SU	N	SS	MS	ES	
C	EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
A	MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
L	SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
M	N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
W	SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
E	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	
1	EU	.05	.14	.09	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.41	.41							
3	MU	.05	.00	.00	.00	.09	.05	.00	.00	.00	.00	.00	.00	.00	.00	.18	.18							
-	SU	.05	.05	.00	.05	.05	.00	.05	.05	.05	.00	.00	.00	.00	.00	.32	.32							
N	N	.23	.09	.09	.32	.09	.23	.18	.14	.18	.27	.14	.50	.50	.27	.23	3.62							
3	SS	.41	.50	.27	.41	.82	.59	.36	.59	.50	.45	.59	.36	.45	.45	.36	.45	7.56						
MS	MS	.18	.18	.23	.18	.72	.77	.32	.41	.77	.91	.77	.82	.91	.95	.86	.86	9.83						
ES	ES	.14	.05	.05	.05	.09	.14	.14	.36	.32	.50	.14	.23	.27	.41	.41	.45	3.71						
																							25.63	
4	EU	.77	.86	.77	.27	.27	.23	.23	.14	.09	.05	.32	.23	.09	.14	.14	.59	5.16						
7	MU	.00	.18	.18	.14	.14	.05	.05	.00	.05	.18	.05	.23	.05	.18	.18	.23	1.86						
-	SU	.00	.09	.05	.00	.05	.18	.18	.14	.45	.27	.14	.50	.36	.27	.23	.09	2.99						
N	N	.18	.27	1.04	.68	.54	.50	.86	.91	.82	.59	.91	.77	1.49	.95	.68	.27	11.46						
7	SS	.41	.63	.68	.41	1.18	3.35	1.54	1.72	1.81	1.45	1.40	.77	.91	.91	1.45	1.22	19.84						
MS	MS	.00	.00	.05	.05	.05	1.36	.72	.68	.50	.68	1.13	.27	.27	.50	.27	.23	6.75						
ES	ES	.00	.00	.00	.00	.05	.36	.09	.00	.05	.18	.32	.05	.00	.00	.00	.14	1.22						
																							49.28	
8	EU	.09	.09	.09	.00	.14	.09	.05	.00	.23	.72	.59	.36	.00	.05	.59	.41	3.49						
1	MU	.00	.00	.00	.00	.00	.05	.00	.00	.27	.54	.27	.23	.05	.23	.05	.05	1.72						

July 1994 - September 1994
150-35 ft. DIFFERENTIAL TEMPERATURE

Wind Direction by Stability

Wind Direction by Wind Speed

[illegible]

July-September 1994
300-35 ft. DIFFERENTIAL TEMPERATURE

[illegible]

July-September 1994
300-35 ft. DIFFERENTIAL TEMPERATURE

Wind Direction by Stability

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	C A L M
.14	.23	.05	.32	.27	.45	.09	.27	.18	.14	.18	.32	.36	.18	.18	.05	3.40	1.0 - 3.5 mph
.68	.95	.91	1.09	1.31	.72	1.63	1.22	1.36	1.18	1.13	1.68	1.45	1.27	1.00	.95	18.52	3.6 - 7.5 mph
1.54	1.40	2.08	1.22	1.36	1.22	2.54	2.63	2.90	3.40	2.90	3.85	3.13	2.63	2.58	1.27	36.64	7.6 - 12.5 mph
2.04	1.49	.45	.05	.82	1.81	2.85	2.40	3.17	4.21	4.48	2.85	1.59	1.45	2.81	2.22	34.69	12.6 - 18.5 mph
.41	.14	.09	.00	.09	.05	.23	.23	1.04	1.86	1.13	.27	.36	.18	.14	.23	6.43	18.6 - 24.5 mph
.00	.05	.00	.00	.00	.00	.05	.05	.05	.14	.00	.00	.00	.00	.00	.00	.32	> 24.5 mph

October-December 1994
150-35 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
C A L M ES	EU	.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						
	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				
	SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				.00			
	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
1 - 3 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					
	SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00					
	N	.09	.14	.23	.09	.09	.09	.09	.09	.00	.23	.05	.05	.00	.09	.18	1.59				.00				
	SS	.64	.86	.64	.59	.36	.32	.32	.32	.14	.14	.18	.18	.18	.23	.55	.36	6.00							
	MS	.23	.09	.18	.27	.41	.14	.09	.14	.09	.23	.14	.05	.45	.27	.23	.45	3.45							
ES	.18	.09	.18	.14	.09	.05	.05	.09	.23	.23	.18	.00	.18	.14	.32	.14	2.27						2.27		
																									13.32
4 - 7 MS ES	EU	.00	.05	.32	.18	.23	.09	.09	.00	.05	.00	.00	.05	.05	.27	.14	1.50	1.50							
	MU	.05	.09	.00	.09	.05	.05	.09	.09	.00	.05	.00	.05	.09	.05	.09	.05	.86		.86					
	SU	.00	.00	.00	.05	.05	.09	.09	.05	.00	.00	.00	.00	.05	.05	.00	.41			.41					
	N	.64	.86	.45	.50	.86	.73	.45	.23	.36	.36	.18	.09	.23	.41	1.00	1.09	8.45				8.45			
	SS	1.05	.64	1.64	2.32	2.18	1.50	.59	.91	.91	1.00	.45	.59	2.09	1.18	1.95	1.59	20.59					20.59		
	MS	.18	.45	.14	.00	.23	1.73	.45	.41	.27	.18	.23	.18	.55	.05	.32	.36	5.73						5.73	
ES	.00	.00	.00	.00	.09	.68	.05	.00	.05	.09	.45	.05	.00	.05	.05	.14	1.68						1.68		
																									39.23
8 - 1 2 ES	EU	.00	.00	.09	.27	.82	.14	.23	.05	.00															

CECo DRESDEN STATION
35 ft. WIND SPEED and WIND DIRECTION

October-December 1994
150-35 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	EU	MU	SU	N	SS	MS	ES		
EU	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.05	.05	.00	.00	.00	.00	.18	.18							
1 MU	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.05	.00	.00	.00	.00	.14	.14							
9 SU	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.00	.00			.09						
- N	.00	.00	.00	.00	.00	.00	.00	.00	.14	.27	.09	.64	.18	.00	.00	.00	1.32			1.32					
2 SS	.00	.00	.00	.00	.00	.00	.09	.00	.18	.00	.27	.09	.00	.00	.05	.00	.68				.68				
4 MS	.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			
																							2.41		
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							
T SU	.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	.23	.00	.00	.00	.00	.27			.27					
2 SS	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05	.00	.00	.00	.00	.00	.09				.09				
4 MS	.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			
																							.36		

TOT 3.36 3.86 6.32 5.05 7.77 8.68 4.55 6.59 8.55 8.68 4.59 3.55 7.77 6.36 8.45 5.86 100.00 6.36 2.05 1.95 26.68 49.18 9.77 4.00 100.00

Wind Direction by Stability

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-STABILITY CLASSES-
.00	.05	.41	.45	1.09	.32	.36	.09	.41	.23	.18	.27	.55	.86	.86	.23	6.36	Extremely Unstable
.05	.09	.00	.09	.18	.18	.14	.09	.09	.09	.14	.27	.23	.18	.09	.14	2.05	Moderately Unstable
.00	.00	.09	.09	.18	.18	.18	.14	.23	.23	.00	.09	.05	.23	.23	.05	1.95	Slightly Unstable
.95	1.36	1.18	.73	1.95	2.09	1.00	2.09	2.27	2.36	1.32	1.23	1.27	1.95	2.91	2.00	26.68	Neutral
1.77	1.73	4.14	3.27	3.55	3.23	2.18	3.55	4.68	5.00	1.82	1.32	4.50	2.64	3.45	2.36	49.18	Slightly Stable
.41	.55	.32	.27	.64	1.95	.59	.55	.59	.45	.50	.27	1.00	.32	.55	.82	9.77	Moderately Stable
.18	.09	.18	.14	.18	.73	.09	.09	.27	.32	.64	.09	.18	.18	.36	.27	4.00	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
1.14	1.18	1.23	1.09	.95	.59	.55	.64	.55	.59	.73	.27	.86	.64	1.18	1.14	13.32	1.0 - 3.5 mph
1.91	2.09	2.55	3.14	3.68	4.86	1.82	1.68	1.64	1.68	1.32	.95	3.00	1.82	3.73	3.36	39.23	3.6 - 7.5 mph
.14	.45	2.05	.82	2.45	2.68	1.77	2.91	3.09	3.91	1.36	.77	2.23	2.82	3.05	.95	31.45	7.6 - 12.5 mph
.18	.14	.50	.00	.68	.55	.27	1.36	2.77	2.14	.68	.50	1.50	1.09	.45	.41	13.23	12.6 - 18.5 mph
.00	.00	.00	.00	.00	.00	.09	.00	.50	.36	.41	.82	.18	.00	.05	.00	2.41	18.6 - 24.5 mph
.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.09	.23	.00	.00	.00	.00	.36	> 24.5 mph

October-December 1994
300-35 ft. DIFFERENTIAL TEMPERATURE

SPEED CLASS	WIND DIRECTION CLASSES															STABILITY CLASSES									
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	WW	WNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
C	EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
A	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	.00	.00	.00	.00	.00					
3	N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				
5	SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				
7	MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			
9	ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			
																									.00
1	EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					
3	MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				
5	SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				
7	N	.05	.05	.09	.14	.09	.05	.05	.05	.09	.05	.05	.05	.05	.05	.14	1.01								
9	SS	.05	.00	.05	.05	.05	.05	.05	.09	.00	.00	.05	.05	.05	.00	.00	.50								
11	MS	.05	.00	.09	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18								
13	ES	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05	.05	.09	.00	.09	.00	.37								
																									2.06
1	EU	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05							
3	MU	.00	.00	.05	.05	.05	.00	.05	.00	.05	.00	.00	.00	.00	.00	.00	.23	.23							
5	SU	.00	.00	.09	.09	.00	.00	.09	.05	.00	.05	.00	.00	.00	.00	.09	.46	.46							
7	N	.27	.23	.14	.64	.32	.37	.18	.41	.27	.18	.14	.05	.14	.14	.27	.23	3.99							
9	SS	.32	.46	.37	.46	.23	.00	.46	.09	.23	.14	.23	.14	.09	.14	.23	.09	3.67							
11	MS	.05	.05	.14	.09	.00	.00	.09	.05	.18	.09	.09	.09	.14	.27	.00	.05	1.37							
13	ES	.05	.05	.00	.00	.00	.00	.00	.05	.23	.05	.09	.09	.00	.05	.00	.64								
																									10.40
1	EU	.00	.00	.05	.05	.23	.00	.05																	

CECo DRESDEN STATION
300 ft. WIND SPEED and WIND DIRECTION

October-December 1994
300-35 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	EU	MU	SU	N	SS	MS	ES		
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05								
1 MU	.00	.00	.00	.00	.00	.00	.00	.00	.18	.00	.05	.14	.27	.00	.05	.00	.69	.69							
9 SU	.00	.00	.00	.00	.09	.00	.00	.00	.27	.00	.00	.09	.09	.09	.00	.05	.69		.69						
- N	.05	.14	.27	.00	.60	.09	.05	.60	1.24	.92	.18	.14	.73	.87	.60	.00	6.46		6.46						
2 SS	.00	.05	.32	.00	.27	.64	.37	.92	1.33	2.66	.50	.23	1.05	.23	.18	.05	8.80			8.80					
4 MS	.00	.18	.05	.00	.00	.05	.23	.00	.00	.09	.09	.05	.14	.00	.05	.00	.92				.92				
ES	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05					.05			
																							17.64		
EU	.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	.05	.00	.00	.05	.00	.05	.00	.00	.14	.14							
T SU	.00	.00	.00	.00	.00	.00	.00	.00	.09	.09	.05	.05	.00	.05	.00	.00	.32		.32						
N	.18	.27	.05	.00	.23	.14	.05	.05	.41	.37	.32	.87	.27	.18	.27	.27	3.94			3.94					
2 SS	.00	.05	.14	.00	.00	.14	.27	.09	.82	.32	.27	.14	.09	.00	.00	.05	2.38				2.38				
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			
																							6.78		
TOT	3.99	5.09	6.00	5.22	7.15	5.96	5.41	6.65	9.30	10.27	4.77	4.08	7.15	6.78	8.07	4.12	100.00	.96	2.84	4.58	40.15	38.41	10.72	2.34	100.00

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	.09	.23	.32	.00	.14	.00	.00	.00	.00	.00	.05	.09	.05	.00	.96	Extremely Unstable
.00	.00	.09	.18	.55	.09	.14	.09	.32	.14	.05	.23	.37	.32	.27	.00	2.84	Moderately Unstable
.05	.00	.23	.14	.50	.37	.41	.18	.37	.18	.23	.41	.23	.60	.46	.23	4.58	Slightly Unstable
1.15	2.20	2.43	2.38	3.21	2.20	1.28	2.57	3.53	4.03	1.92	1.47	2.06	3.48	3.99	2.25	40.15	Neutral
1.88	1.56	2.43	2.06	1.92	2.66	2.20	2.61	4.08	5.00	1.92	1.28	3.48	1.65	2.38	1.28	38.41	Slightly Stable
.69	1.05	.60	.18	.60	.55	1.10	1.05	.82	.69	.55	.41	.78	.64	.64	.37	10.72	Moderately Stable
.23	.27	.14	.05	.05	.09	.14	.14	.18	.23	.09	.27	.18	.00	.27	.00	2.34	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
.14	.05	.23	.18	.23	.09	.09	.09	.18	.05	.09	.14	.14	.09	.14	.14	2.06	1.0 - 3.5 mph
.69	.78	.82	1.33	.60	.37	.87	.60	.73	.69	.55	.37	.46	.55	.55	.46	10.40	3.6 - 7.5 mph
2.02	1.92	1.74	2.52	2.20	1.65	1.37	1.37	.92	1.60	1.10	.73	1.42	1.51	3.25	2.11	27.45	7.6 - 12.5 mph
.92	1.65	2.38	1.19	2.93	2.80	2.11	2.89	3.07	3.48	1.56	1.10	2.43	3.16	2.98	1.01	35.66	12.6 - 18.5 mph
.05	.37	.64	.00	.96	.78	.64	1.56	3.02	3.67	.82	.64	2.34	1.19	.87	.09	17.64	18.6 - 24.5 mph
.18	.32	.18	.00	.23	.27	.32	.14	1.37	.78	.64	1.10	.37	.27	.27	.32	6.78	> 24.5 mph