Commonwealth Edison Company
Braidwood Generating Station
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ComEd

April 29, 1999

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555-0001

Braidwood Station, Units 1 and 2
Facility Operating License Nos. NPF-72 and NPF-77
NRC Docket Nos. STN 50-456 and STN 50-457

Subject: 1998 Radioactive Effluent Release Report

The attached document includes the Radioactive Effluent Release Report for Braidwood Station. This report is being submitted in accordance with 10CFR50.36a and Technical Specification 5.6.3, "Radioactive Effluent Release Report," and includes a summary of radiological liquid and gaseous effluents and solid waste released from the site from January 1998 through December 1998.

If you have any questions regarding this information, please contact Mr. T. W. Simpkin, Regulatory Assurance Manager, at (815) 458-2801, extension 2980.

Respectfully,

Timothy J. Tulon
Site Vice President
Braidwood Station

NRC/99022tjt doc

Attachment

cc: Regional Administrator – NRC Region III
NRC Senior Resident Inspector – Braidwood Station

APR 29 1999

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT

Supplemental Information

January - December 1998

Facility: BRAIDWOOD STATION

Licensee: COMMONWEALTH EDISON COMPANY

1. Regulatory Limits

a. For Noble Gases:

Dose Rate

1) Less than 500 mrem/year to the whole body.
2) Less than 3000 mrem/year to the skin.

Dose Gamma Radiation

1) Less than or equal to 5 mrad/quarter.
2) Less than or equal to 10 mrad/year.

Beta Radiation

1) Less than or equal to 10 mrad/quarter.
2) Less than or equal to 20 mrad/year.

b.,c. For Iodine-131, for Iodine-133, and for all radionuclides in particulate form with half-lives greater than 8 days.

Dose Rate

1) Less than 1500 mrem/year.

Dose

1) Less than or equal to 7.5 mrem/quarter.
2) Less than or equal to 15 mrem/year.

d. For Liquid

1) Less than or equal to 1.5 mrem to the whole body during any calendar quarter.
2) Less than or equal to 5 mrem to any organ during any calendar quarter.
3) Less than or equal to 3 mrem to the whole body during any calendar year.
4) Less than or equal to 10 mrem to any organ during any calendar year.

2. Maximum Permissible Concentration

a., b.,c., For fission and activation gases, iodines, and particulates with half-lives greater than 8 days, allowable release limits are calculated by solving equations 10.1 and 10.2 from the Offsite Dose Calculation Manual.

d. For liquid effluents, allowable release limits are calculated by solving equations 10.3 and 10.4 from the Offsite Dose Calculation Manual.

3. Average Energy

The average gamma energy for the Braidwood noble gas waste streams was 0.745 MeV for Unit 1 and 0.222 MeV for Unit 2. The average beta energy for Braidwood noble gas waste streams was 0.306 MeV for Unit 1 and 0.153 MeV for Unit 2.

4. Measurements and Approximations of Total Radioactivity

a. Fission and Activation Gases:
b. Iodines:
c. Particulates:

Containment batch releases are analyzed for noble gas and tritium before being discharged by gamma isotopic and scintillation, respectively. Gaseous decay tanks are analyzed for noble gas before being discharged by gamma isotopic. Released activity is calculated using volume of release, which is determined by change in tank or containment pressure.

The Auxiliary Building ventilation exhaust system is continually monitored for iodines and particulates. These samples are pulled every 7 days and analyzed by gamma isotopic. The particulate samples are also analyzed quarterly for gross alpha. Noble gas and tritium grab samples are pulled and analyzed weekly by gamma isotopic and scintillation, respectively. The average flow at the release points are used to calculate the curies released.

d. Liquid Effluents

The liquid release tanks are analyzed before discharge by gamma isotopic and for tritium. A representative portion of this sample is saved. This is composited, every 31 days, with other discharges that occurred and is analyzed for tritium and gross alpha. The batch composites are composited quarterly and sent to a vendor for Sr-89/90 and Fe-55 analysis. Circulating Water Blowdown, Condensate Polisher Sump and Waste Water Treatment are analyzed weekly by gamma isotopic and for tritium. These weekly samples are composited quarterly and sent to a vendor for Sr-89/90 and Fe-55 analysis.

The tank volumes and activities are used to calculate the curies released for the liquid release tanks. The total volume of water released and the activity is used to calculate the diluted activity released at the discharge point from batch discharges.

e. Less than the lower limit of detection (<LLD).

Samples are analyzed such that the Technical Specification LLD requirements are met. When a nuclide is not detected during the quarter then <LLD is reported.

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
GAS RELEASES
UNIT 1 (Docket Number 50-456)
SUMMATION OF ALL RELEASES

	Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
A. Fission and Activation Gas Releases						
1. Total Release Activity	Ci	1.83E-01	1.97E-01	1.38E-01	3.41E-02	**5.52E-01**
2. Average Release Rate	uCi/sec	2.35E-02	2.51E-02	1.74E-02	4.29E-03	**7.03E-02**
B. Iodine Releases						
1. Total I-131 Activity	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
2. Average Release Rate	uCi/sec	<LLD	<LLD	<LLD	<LLD	**<LLD**
C. Particulate (> 8 day half-life) Releases						
1. Gross Activity	Ci	2.38E-07	1.54E-06	8.46E-08	2.20E-07	**2.08E-06**
2. Average Release Rate	uCi/sec	3.06E-08	5.94E-07	1.06E-08	2.77E-08	**6.63E-07**
3. Gross Alpha Activity	Ci	<LLD	<LLD	<LLD	1.26E-08	**1.26E-08**
D. Tritium Releases						
1. Total Release Activity	Ci	2.01E+00	4.99E+00	3.79E+00	7.86E+00	**1.87E+01**
2. Average Release Rate	uCi/sec	2.58E-01	6.35E-01	4.77E-01	9.89E-01	**2.36E+00**
E. Sum of Iodine, Particulate (> 8 day half-life), and Tritium Releases.						
1. Total Release Activity	Ci	3.23E+00	9.74E+00	7.50E+00	1.55E+01	**3.60E+01**

Note: LLD Values are included in Appendix A of this report.

Note: % Limit Values are included in Appendix B of this report.

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
GAS RELEASES
UNIT 1 (Docket Number 50-456)
BATCH MODE

	Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
A. Particulate (> 8 day half-life) Releases						
Cr-51	Ci	*	*	*	*	*
Mn-54	Ci	*	*	*	*	*
Co-57	Ci	*	*	*	*	*
Co-58	Ci	*	*	*	*	*
Fe-59	Ci	*	*	*	*	*
Co-60	Ci	*	*	*	*	*
Br-82	Ci	*	*	*	*	*
Sr-89	Ci	*	*	*	*	*
Sr-90	Ci	*	*	*	*	*
Nb-95	Ci	*	*	*	*	*
Cs-134	Ci	*	*	*	*	*
Cs-137	Ci	*	*	*	*	*
Ba\La-140	Ci	*	*	*	*	*
Ce-144	Ci	*	*	*	*	*

* Value reported as Continuous Mode

B. Tritium Releases						
1. Total Release Activity	Ci	8.17E-01	2.63E-01	8.47E-02	2.53E-01	**1.42E+00**

C. Fission and Activation Gas Releases						
Ar-41	Ci	9.61E-02	1.09E-01	7.93E-02	2.55E-02	**3.10E-01**
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-85m	Ci	1.10E-04	<LLD	<LLD	<LLD	**1.10E-04**
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-88	Ci	<LLD	3.08E-04	<LLD	<LLD	**3.08E-04**
Xe-133	Ci	5.66E-02	5.52E-02	5.72E-02	2.46E-03	**1.71E-01**
Xe-133m	Ci	<LLD	<LLD	<LLD	2.08E-04	**2.08E-04**
Xe-135	Ci	2.20E-04	<LLD	1.40E-04	2.03E-04	**5.63E-04**
Xe-135m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**

D. Iodine Releases						
I-131	Ci	*	*	*	*	*
I-132	Ci	*	*	*	*	*
I-133	Ci	*	*	*	*	*
I-134	Ci	*	*	*	*	*
I-135	Ci	*	*	*	*	*

* Value reported as Continuous Mode

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
GAS RELEASES
UNIT 1 (Docket Number 50-456)
CONTINUOUS MODE

	Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
A. Particulate (> 8 day half-life) Releases*						
Cr-51	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Mn-54	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Co-57	Ci	<LLD	1.24E-06	<LLD	<LLD	**1.24E-06**
Co-58	Ci	<LLD	<LLD	7.22E-08	2.16E-07	**2.88E-07**
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Co-60	Ci	<LLD	<LLD	1.18E-08	<LLD	**1.18E-08**
Br-82	Ci	2.38E-07	2.95E-07	<LLD	<LLD	**5.33E-07**
Sr-89	Ci	<LLD	<LLD	6.16E-10	<LLD	**6.16E-10**
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Nb-95	Ci	<LLD	<LLD	<LLD	3.75E-09	**3.75E-09**
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ba\La-140	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
B. Tritium Releases						
1. Total Release Activity	Ci	1.19E+00	4.72E+00	3.71E+00	7.61E+00	**1.72E+01**
C. Fission and Activation Gas Releases						
Ar-41	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-85m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-133	Ci	2.98E-02	3.25E-02	1.54E-03	5.83E-03	**6.97E-02**
Xe-133m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-135	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-135m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
D. Iodine Releases*						
I-131	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-132	Ci	<LLD	<LLD	<LLD	6.42E-08	**6.42E-08**
I-133	Ci	<LLD	<LLD	<LLD	3.27E-07	**3.27E-07**
I-134	Ci	<LLD	7.38E-05	<LLD	<LLD	**7.38E-05**
I-135	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**

*No data from 11-19-98 0325 to 11-25-98 1340 due to missed sample.

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
GAS RELEASES
UNIT 2 (Docket Number 50-457)
SUMMATION OF ALL RELEASES

	Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
A. Fission and Activation Gas Releases						
1. Total Release Activity	Ci	3.75E-01	1.12E+00	3.39E-01	1.43E-01	**1.98E+00**
2. Average Release Rate	uCi/sec	4.82E-02	1.42E-01	4.26E-02	1.80E-02	**2.51E-01**
B. Iodine Releases						
1. Total I-131 Activity	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
2. Average Release Rate	uCi/sec	<LLD	<LLD	<LLD	<LLD	**<LLD**
C. Particulate (> 8 day half-life) Releases						
1. Gross Activity	Ci	<LLD	5.48E-06	<LLD	9.39E-08	**5.57E-06**
2. Average Release Rate	uCi/sec	<LLD	2.11E-06	<LLD	1.18E-08	**2.12E-06**
3. Gross Alpha Activity	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
D. Tritium Releases						
1. Total Release Activity	Ci	9.52E+00	2.46E+01	5.35E+01	6.38E+00	**9.40E+01**
2. Average Release Rate	uCi/sec	1.22E+00	3.13E+00	6.73E+00	8.03E-01	**1.19E+01**
E. Sum of Iodine, Particulate (> 8 day half-life), and Tritium Releases.						
1. Total Release Activity	Ci	9.52E+00	2.46E+01	5.35E+01	6.38E+00	**9.40E+01**

Note: LLD Values are included in Appendix A of this report.

Note: % Limit Values are included in Appendix B of this report.

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
GAS RELEASES
UNIT 2 (Docket Number 50-457)
BATCH MODE

	Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
A. Particulate (> 8 day half-life) Releases						
Cr-51	Ci	*	*	*	*	*
Mn-54	Ci	*	*	*	*	*
Co-57	Ci	*	*	*	*	*
Co-58	Ci	*	*	*	*	*
Fe-59	Ci	*	*	*	*	*
Co-60	Ci	*	*	*	*	*
Br-82	Ci	*	*	*	*	*
Sr-89	Ci	*	*	*	*	*
Sr-90	Ci	*	*	*	*	*
Nb-95	Ci	*	*	*	*	*
Cs-134	Ci	*	*	*	*	*
Cs-137	Ci	*	*	*	*	*
Ba\La-140	Ci	*	*	*	*	*
Ce-144	Ci	*	*	*	*	*

* Value reported as Continuous Mode

B. Tritium Releases						
1. Total Release Activity	Ci	7.65E-02	6.60E-02	4.04E-02	3.95E-02	**2.22E-01**
C. Fission and Activation Gas Releases						
Ar-41	Ci	5.97E-02	6.32E-02	6.88E-02	8.96E-02	**2.81E-01**
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-85m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-133	Ci	5.62E-02	4.53E-02	5.24E-02	5.10E-02	**2.05E-01**
Xe-133m	Ci	<LLD	<LLD	<LLD	2.08E-04	**2.08E-04**
Xe-135	Ci	4.63E-03	2.70E-03	1.96E-03	2.58E-03	**1.19E-02**
Xe-135m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
D. Iodine Releases						
I-131	*	*	*	*	*	*
I-132	*	*	*	*	*	*
I-133	*	*	*	*	*	*
I-134	*	*	*	*	*	*
I-135	*	*	*	*	*	*

* Value reported as Continuous Mode

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
GAS RELEASES
UNIT 2 (Docket Number 50-457)
CONTINUOUS MODE

	Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
A. Particulate (> 8 day half-life) Releases						
Cr-51	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Mn-54	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Co-57	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Co-60	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Br-82	Ci	<LLD	5.48E-06	<LLD	9.39E-08	**5.57E-06**
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ba\La-140	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
B. Tritium Releases						
1. Total Release Activity	Ci	9.44E+00	2.46E+01	5.35E+01	6.34E+00	**9.39E+01**
C. Fission and Activation Gas Releases						
Ar-41	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-85m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-133	Ci	2.55E-01	1.01E+00	2.16E-01	<LLD	**1.48E+00**
Xe-133m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-135	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-135m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
D. Iodine Releases						
I-131	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-132	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-133	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-134	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-135	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
LIQUID RELEASES
UNIT 1 (Docket Number 50-456)
SUMMATION OF ALL RELEASES

	Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
A. Fission and Activation Products						
1. Total Activity Released	Ci	1.30E-02	1.12E-02	6.15E-02	6.70E-02	**1.53E-01**
2. Average Concentration Released	uCi/ml	5.51E-09	6.36E-09	2.38E-08	2.92E-08	1.70E-08
B. Tritium						
1. Total Activity Released	Ci	1.85E+02	2.78E+02	4.00E+02	2.63E+02	**1.13E+03**
2. Average Concentration Released	uCi/ml	7.84E-05	1.58E-04	1.55E-04	1.15E-04	1.26E-04
3. % of Limit (1E-3 uCi/ml)	%	7.84E+00	1.58E+01	1.55E+01	1.15E+01	1.26E+01
C. Dissolved Noble Gases						
1. Total Activity Released	Ci	2.53E-03	1.18E-04	3.04E-03	1.09E-04	**5.80E-03**
2. Average Concentration Released	uCi/ml	1.07E-09	6.70E-11	1.18E-09	4.76E-11	6.45E-10
3. % of Limit (2E-4 uCi/ml)	%	5.35E-04	3.35E-05	5.90E-04	2.38E-05	3.23E-04
D. Gross Alpha						
1. Total Activity Released	Ci	<LLD	<LLD	<LLD	<LLD	**0.00E+00**
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	<LLD	0.00E+00
E. Volume of Releases						
1. Volume of Liquid Waste to Discharge	liters	1.19E+06	1.44E+06	2.60E+06	2.19E+06	**7.42E+06**
2. Volume of Dilution Water	liters	2.36E+09	1.76E+09	2.58E+09	2.29E+09	**8.99E+09**

Note: LLD Values are included in Appendix A of this report.

Note: % Limit Values are included in Appendix B of this report.

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
LIQUID RELEASES
UNIT 1 (Docket Number 50-456)
BATCH MODE

Nuclides From Batch Releases	Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
H-3	Ci	1.37E+02	2.15E+02	3.39E+02	1.88E+02	**8.79E+02**
Na-24	Ci	<LLD	<LLD	<LLD	1.36E-04	**1.36E-04**
Cr-51	Ci	1.91E-04	<LLD	4.15E-03	5.50E-03	**9.84E-03**
Mn-54	Ci	2.95E-04	4.01E-04	2.60E-04	8.95E-04	**1.85E-03**
Fe-55	Ci	2.86E-03	1.38E-03	3.52E-03	6.10E-03	**1.39E-02**
Co-57	Ci	2.46E-05	2.60E-05	7.40E-05	2.24E-05	**1.47E-04**
Co-58	Ci	3.44E-03	1.89E-03	4.61E-02	3.36E-02	**8.50E-02**
Fe-59	Ci	7.35E-05	<LLD	6.60E-04	6.40E-04	**1.37E-03**
Co-60	Ci	2.85E-03	4.92E-03	3.77E-03	2.03E-03	**1.36E-02**
Ni-65	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Br-82	Ci	<LLD	<LLD	2.46E-06	<LLD	**2.46E-06**
Kr-85	Ci	2.50E-03	<LLD	<LLD	<LLD	**2.50E-03**
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sr-92	Ci	1.04E-05	<LLD	1.73E-04	<LLD	**1.83E-04**
Nb-95	Ci	1.87E-04	7.20E-05	1.58E-04	5.40E-04	**9.57E-04**
Zr-95	Ci	5.30E-05	5.85E-06	9.30E-05	2.11E-04	**3.63E-04**
Zr-97	Ci	<LLD	9.80E-05	<LLD	<LLD	**9.80E-05**
Mo-99	Ci	<LLD	7.25E-06	<LLD	<LLD	**7.25E-06**
Tc-99m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ru-105	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ag-110m	Ci	2.17E-03	1.39E-05	3.06E-05	<LLD	**2.21E-03**
Sn-113	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sn-117m	Ci	<LLD	<LLD	5.90E-06	3.48E-04	**3.54E-04**
Sb-122	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sb-124	Ci	1.64E-05	2.42E-05	5.90E-05	5.10E-03	**5.20E-03**
Sb-125	Ci	6.95E-04	2.18E-03	2.46E-03	2.93E-03	**8.27E-03**
Te-125m	Ci	<LLD	<LLD	<LLD	6.90E-03	**6.90E-03**
Sb-126	Ci	<LLD	<LLD	<LLD	5.65E-06	**5.65E-06**
Xe-131m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-131	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-132	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Te-132	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-133	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-133	Ci	3.26E-05	1.18E-04	2.97E-03	1.09E-04	**3.23E-03**
Xe-133m	Ci	<LLD	<LLD	3.45E-05	<LLD	**3.45E-05**
Cs-134	Ci	8.20E-06	7.40E-06	3.25E-06	2.75E-05	**4.64E-05**
Xe-135	Ci	<LLD	<LLD	4.24E-05	<LLD	**4.24E-05**
Cs-137	Ci	7.40E-05	1.19E-04	1.50E-05	1.83E-03	**2.04E-03**
Ba\La-140	Ci	<LLD	<LLD	2.48E-06	<LLD	**2.48E-06**
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Hf-181	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
LIQUID RELEASES
UNIT 1 (Docket Number 50-456)
CONTINUOUS MODE

Nuclides From Continuous Releases	Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
H-3	Ci	4.81E+01	6.35E+01	6.05E+01	7.50E+01	**2.47E+02**
Na-24	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Cr-51	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Mn-54	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Co-57	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Co-60	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ni-65	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Br-82	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sr-92	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Zr-97	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Tc-99m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ru-105	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sn-113	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sn-117m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sb-122	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sb-124	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sb-125	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Te-125m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sb-126	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-131	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-132	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Te-132	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-133	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-133	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-133m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-135	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ba\La-140	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Hf-181	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
LIQUID RELEASES
UNIT 2 (Docket Number 50-457)
SUMMATION OF ALL RELEASES

	Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
A. Fission and Activation Products						
1. Total Activity Released	Ci	1.30E-02	1.12E-02	6.15E-02	6.70E-02	**1.53E-01**
2. Average Concentration Released	uCi/ml	5.51E-09	6.36E-09	2.38E-08	2.92E-08	1.70E-08
B. Tritium						
1. Total Activity Released	Ci	1.85E+02	2.78E+02	4.00E+02	2.63E+02	**1.13E+03**
2. Average Concentration Released	uCi/ml	7.84E-05	1.58E-04	1.55E-04	1.15E-04	1.26E-04
3. % of Limit (1E-3 uCi/ml)	%	7.84E+00	1.58E+01	1.55E+01	1.15E+01	1.26E+01
C. Dissolved Noble Gases						
1. Total Activity Released	Ci	2.53E-03	1.18E-04	3.04E-03	1.09E-04	**5.80E-03**
2. Average Concentration Released	uCi/ml	1.07E-09	6.70E-11	1.18E-09	4.76E-11	6.45E-10
3. % of Limit (2E-4 uCi/ml)	%	5.35E-04	3.35E-05	5.90E-04	2.38E-05	3.23E-04
D. Gross Alpha						
1. Total Activity Released	Ci	<LLD	<LLD	<LLD	<LLD	**0.00E+00**
2. Average Concentration Released	uCi/ml	<LLD	<LLD	<LLD	<LLD	0.00E+00
E. Volume of Releases						
1. Volume of Liquid Waste to Discharge	liters	1.19E+06	1.44E+06	2.60E+06	2.19E+06	**7.42E+06**
2. Volume of Dilution Water	liters	2.36E+09	1.76E+09	2.58E+09	2.29E+09	**8.99E+09**

Note: LLD Values are included in Appendix A of this report.

Note: % Limit Values are included in Appendix B of this report.

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
LIQUID RELEASES
UNIT 2 (Docket Number 50-457)
BATCH MODE

Nuclides From Batch Releases	Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
H-3	Ci	1.37E+02	2.15E+02	3.39E+02	1.88E+02	**8.79E+02**
Na-24	Ci	<LLD	<LLD	<LLD	1.36E-04	**1.36E-04**
Cr-51	Ci	1.91E-04	<LLD	4.15E-03	5.50E-03	**9.84E-03**
Mn-54	Ci	2.95E-04	4.01E-04	2.60E-04	8.95E-04	**1.85E-03**
Fe-55	Ci	2.86E-03	1.38E-03	3.52E-03	6.10E-03	**1.39E-02**
Co-57	Ci	2.46E-05	2.60E-05	7.40E-05	2.24E-05	**1.47E-04**
Co-58	Ci	3.44E-03	1.89E-03	4.61E-02	3.36E-02	**8.50E-02**
Fe-59	Ci	7.35E-05	<LLD	6.60E-04	6.40E-04	**1.37E-03**
Co-60	Ci	2.85E-03	4.92E-03	3.77E-03	2.03E-03	**1.36E-02**
Ni-65	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Br-82	Ci	<LLD	<LLD	2.46E-06	<LLD	**2.46E-06**
Kr-85	Ci	2.50E-03	<LLD	<LLD	<LLD	**2.50E-03**
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sr-92	Ci	1.04E-05	<LLD	1.73E-04	<LLD	**1.83E-04**
Nb-95	Ci	1.87E-04	7.20E-05	1.58E-04	5.40E-04	**9.57E-04**
Zr-95	Ci	5.30E-05	5.85E-06	9.30E-05	2.11E-04	**3.63E-04**
Zr-97	Ci	<LLD	9.80E-05	<LLD	<LLD	**9.80E-05**
Mo-99	Ci	<LLD	7.25E-06	<LLD	<LLD	**7.25E-06**
Tc-99m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ru-105	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ag-110m	Ci	2.17E-03	1.39E-05	3.06E-05	<LLD	**2.21E-03**
Sn-113	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sn-117m	Ci	<LLD	<LLD	5.90E-06	3.48E-04	**3.54E-04**
Sb-122	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sb-124	Ci	1.64E-05	2.42E-05	5.90E-05	5.10E-03	**5.20E-03**
Sb-125	Ci	6.95E-04	2.18E-03	2.46E-03	2.93E-03	**8.27E-03**
Te-125m	Ci	<LLD	<LLD	<LLD	6.90E-03	**6.90E-03**
Sb-126	Ci	<LLD	<LLD	<LLD	5.65E-06	**5.65E-06**
Xe-131m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-131	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-132	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Te-132	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-133	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-133	Ci	3.26E-05	1.18E-04	2.97E-03	1.09E-04	**3.23E-03**
Xe-133m	Ci	<LLD	<LLD	3.45E-05	<LLD	**3.45E-05**
Cs-134	Ci	8.20E-06	7.40E-06	3.25E-06	2.75E-05	**4.64E-05**
Xe-135	Ci	<LLD	<LLD	4.24E-05	<LLD	**4.24E-05**
Cs-137	Ci	7.40E-05	1.19E-04	1.50E-05	1.83E-03	**2.04E-03**
Ba\La-140	Ci	<LLD	<LLD	2.48E-06	<LLD	**2.48E-06**
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Hf-181	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
LIQUID RELEASES
UNIT 2 (Docket Number 50-457)
CONTINUOUS MODE

Nuclides From Continuous Releases	Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
H-3	Ci	4.81E+01	6.35E+01	6.05E+01	7.50E+01	**2.47E+02**
Na-24	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Cr-51	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Mn-54	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Fe-55	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Co-57	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Co-60	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ni-65	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Br-82	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sr-92	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Zr-97	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Tc-99m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ru-105	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sn-113	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sn-117m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sb-122	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sb-124	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sb-125	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Te-125m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Sb-126	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-131	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-132	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Te-132	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
I-133	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-133	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-133m	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Xe-135	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ba\La-140	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**
Hf-181	Ci	<LLD	<LLD	<LLD	<LLD	**<LLD**

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
SOLID RADIOACTIVE WASTE
UNIT 1 AND 2 COMBINED (Docket Numbers 50-456 and 50-457)

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL

1. Types of Waste

			1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Year Total
a	PROCESS WASTE	Total (m3)	4.72E+01	1.83E+01	4.67E+01	3.41E+00	1.16E+02
		Total(Ci)	1.27E+02	3.49E+01	1.38E+01	3.06E+01	2.06E+02
		Est. Total Error %	2.71E+00	3.04E+00	2.84E+00	3.27E+00	2.68E+00
b.	DRY ACTIVE WASTE	Total (m3)	7.25E+01	7.27E+01	2.25E+02	6.15E+02	9.85E+02
		Total (Ci)	1.30E-01	4.57E-01	4.40E-01	6.42E-01	1.67E+00
		Est. Total Error %	3.03E+00	2.82E+00	2.76E+00	N/A	2.54E+00

NOTE: Volume of Dry Active Waste is before vendor volume reduction.

2. Estimate of major nuclide composition (by type of waste)

a.

PROCESS WASTE		1st Qtr Ci	2nd Qtr Ci	3rd Qtr Ci	4th Qtr Ci	Year Total Ci	% Composition
	*Fe-55	3.98E+01	1.81E+01	5.71E+00	1.63E+01	7.99E+01	3.88E+01
	Co-58	4.67E+01	2.23E+00	3.73E+00	6.51E-01	5.33E+01	2.59E+01
	Co-60	1.19E+01	5.41E+00	1.84E+00	5.89E+00	2.50E+01	1.21E+01
	*Ni-63	9.99E+00	4.56E+00	1.78E+00	6.45E+00	2.28E+01	1.11E+01
	Mn-54	3.84E+00	1.68E+00	1.65E-01	2.74E-01	5.95E+00	2.89E+00
	H-3	1.96E-01	1.82E-01	1.31E-01	1.77E-01	6.86E-01	3.33E-01
	Nb-95	2.83E-01	1.58E-03	8.69E-04	1.25E-02	2.98E-01	1.45E-01
	Sb-122	3.11E-01	2.28E-02	1.43E-05	0.00E+00	3.34E-01	1.62E-01
	*C-14	3.39E-01	1.63E-01	1.26E-01	1.97E-01	8.25E-01	4.00E-01
	Sb-125	2.21E+00	1.20E+00	6.35E-02	1.25E-01	3.60E+00	1.75E+00
	Cs-137	6.12E+00	8.45E-01	1.05E-01	1.98E-01	7.27E+00	3.53E+00
	Cs-134	4.19E+00	2.94E-01	8.52E-02	9.16E-02	4.67E+00	2.26E+00
	Co-57	5.41E-01	1.59E-01	7.82-02	3.85E-02	8.17E-01	3.97E-01

*Activities based on 10CFR61 scaling factors.

b.

DRY ACTIVE WASTE	1st Qtr Ci	2nd Qtr Ci	3rd Qtr Ci	4th Qtr Ci	Year Total Ci	% Composition
*Fe-55	6.51E-02	1.89E-01	1.69E-01	1.73E-01	5.95E-01	3.57E+01
Co-58	2.02E-02	1.25E-01	1.31E-01	1.52E-01	4.28E-01	2.57E+01
Co-60	2.04E-02	5.79E-02	5.13E-02	5.45E-02	1.84E-01	1.10E+01
*Ni-63	1.74E-02	4.99E-02	4.41E-02	5.20E-02	1.63E-01	9.79E+00
Cs-137	2.45E-03	6.85E-03	6.56E-03	5.72E-03	2.16E-02	1.29E+00
Nb-95	2.00E-05	2.88E-04	3.74E-04	5.49E-02	5.56E-02	3.33E+00
Mn-54	1.02E-03	3.41E-03	4.21E-03	1.40E-02	2.26E-02	1.36+00
Cr-51	0.00E+00	0.00E+00	0.00E+00	1.19E-02	1.19E-02	7.15E-01
Zr-95	0.00E+00	0.00E+00	0.00E+00	2.90E-02	2.90E-02	1.74E+00
Cs-134	3.37E-04	1.01E-03	1.13E-03	1.81E-03	4.29E-03	2.57E-01
Sb-125	1.67E-03	4.87E-03	4.37E-03	4.22E-03	1.51E-02	9.06E-01
*C-14	5.54E-04	1.69E-03	1.48E-03	1.58E-03	5.30E-03	3.18E-01
Sn-113	0.00E+00	0.00E+00	0.00E+00	1.82E-03	1.82E-03	1.09E-01
Co-57	3.45E-04	1.18E-03	1.12E-03	1.42E-03	4.06E-03	2.43E-01
H-3	7.51E-04	1.66E-02	2.55E-02	8.15E-02	1.24E-01	7.45E+00
FE-59	0.00E+00	0.00E+00	0.00E+00	1.73E-03	1.73E-03	1.03E-01

*Activities based on 10CFR61 scaling factors.

Number of Shipments: 31

Mode of Transportation: Exclusive Use Vehicle

Destination: Chem Nuclear, Barnwell, South Carolina (10);
American Ecology Recycle Center, Oakridge, Tennessee (10);
GTS Duratek, Oak Ridge, Tennessee (8);
Envirocare of Utah, Clive Disposal Site, Utah (3).

B. IRRADIATED FUEL SHIPMENTS

No irradiated fuel shipments for January through December, 1998

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
SOLID RADIOACTIVE WASTE
UNIT 1 AND 2 COMBINED (Docket Numbers 50-456 and 50-457)

Shipment Number	Waste Class	Type of Container	Solidification Agent or Absorbent
RWS98-001	AU	Type A	None
RWS98-002	AU	Type A	None
RWS98-003	AU	STC	None
RWS98-004	AU	STC	None
RWS98-005	B	Type B	None
RWS98-006	AU	STC	None
RWS98-007	B	Type B	None
RWS98-008	AS	Type B	None
RWS98-009	AS	Type B	None
RWS98-010	AU	Type A	None
RWS98-011	AS	Type A	None
RWS98-012	AU	STC	None
RWS98-013	AU	STC	None
RWS98-014	AU	STC	None
RWS98-015	AU	STC	None
RWS98-016	AU	STC	None
RWS98-017		Not Used	
RWS98-018	AU	STC	None
RWS98-019	AS	Type A	None
RWS98-020	AU	STC	None
RWS98-021	AU	STC	None
RWS98-022	AU	STC	None
RWS98-023	AU	STC	None
RWS98-024	AU	STC	None
RWS98-025	AU	STC	None
RWS98-026	AU	STC	None
RWS98-027	AU	STC	None
RWS98-028	AU	STC	None
RWS98-029	AU	STC	None
RWS98-030	AU	STC	None
RWS98-031	C	Type B	None
RWS98-032	AU	STC	None

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
UNIT 1 AND 2 COMBINED (Docket Numbers 50-456 and 50-457)

1. There were no changes to the Braidwood Station Process Control Program in 1998.

2. There were no changes to the installed liquid, gaseous, or solid radwaste treatment systems in 1998.

3. There were no liquid holdup tanks or gas decay tanks which exceeded the limits addressed in the ODCM-RETS.

4. Pursuant to ODCM-RETS Section 12.6.2, the following is an explanation as to why the inoperability of liquid or gaseous effluent monitoring instrumentation was not corrected within the time specified in ODCM-RETS:

   a. No liquid or gaseous effluent monitoring instrumentation was inoperable longer than the time specified in ODCM-RETS.

5. Error in Measurement -

The following is an estimate of the errors associated with effluent monitoring and analysis. The estimate is calculated using the square root of the sum of the squares methodology.

A.	Gaseous Effluents	Est. Total Error %
1.	Fission and Activation Gas Releases	7.59
2.	Iodine Releases	33.2
3.	Particulates (>8 day half life) Releases	19.8
4.	Tritium Releases	8.07

B.	Liquid Effluents	Est. Total Error %
1.	Fission and Activation Products	2.64
2.	Tritium	5.85
3.	Dissolved Noble Gases	2.64
4.	Gross Alpha	14.7
5.	Volume of Liquid Waste to Discharge	2.0
6.	Volume of Dilution Water	1.5

6. The following is a summary of the 1998 Revisions to the Commonwealth Edison Company (ComEd) Offsite Dose Calculation Manual (ODCM).

Generic Revision

- No revision to this section in 1998.

Braidwood Station

- A summary of changes along with a copy of the entire ODCM was submitted in accordance with Technical Specification 5.5.1 under separate cover.
  Reference: Letter from R. M. Krich, Vice President – Regulatory Services, dated March 12, 1999, Subject: Offsite Dose Calculation Manual changes for 1998.

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
UNIT 1 AND 2 (Docket Numbers 50-456 and 50-457)

APPENDIX A

LLD Tables

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
UNIT 1 AND 2 (Docket Numbers 50-456 and 50-457)
LLD VALUES FOR GASEOUS RELEASES

Isotope	LLD (Ci/ml)
Alpha	7.00E-20
H-3	3.97E-14
Ar-41	1.52E-11
Cr-51	7.10E-18
Mn-54	5.87E-19
Co-58	2.06E-18
Fe-59	3.70E-18
Co-60	3.12E-18
Zn-65	5.23E-18
Br-82	1.74E-18
Kr-85	6.62E-10
Kr-85m	3.14E-12
Kr-87	8.82E-12
Kr-88	1.10E-11
Sr-89	2.60E-21
Sr-90	2.70E-22
Mo-99	9.11E-19
I-131	1.48E-18
I-132	2.54E-17
I-133	1.34E-18
Xe-133	8.45E-12
Xe-133m	2.72E-11
Cs-134	1.59E-18
I-135	1.10E-17
Xe-135	2.77E-12
Xe-135m	1.23E-11
Cs-137	6.30E-19
Xe-138	5.29E-11
Ba-La-140	1.34E-18
Ce-141	2.16E-18
Ce-144	7.87E-18

NOTE: LLD Value for total activity released is based on LLD values for Individual isotopes used in the calculation.

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
UNIT 1 AND 2 (Docket Numbers 50-456 and 50-457)
LLD VALUES FOR LIQUID RELEASES

Isotope	LLD (Ci/ml)
Alpha	4.25E-14
H-3	8.19E-12
Na-24	2.44E-14
Cr-51	3.94E-13
Mn-54	5.74E-14
Fe-55	5.00E-13
Co-57	4.01E-14
Co-58	7.22E-14
Fe-59	8.06E-14
Co-60	5.83E-14
Zn-65	1.00E-13
Br-82	8.84E-14
Kr-85	1.21E-11
Kr-87	1.41E-13
Kr-88	2.05E-13
Sr-89	5.00E-14
Sr-90	8.50E-15
Sr-92	9.67E-14
Nb-95	5.39E-14
Zr-95	1.18E-13
Zr-97	3.44E-14
Mo-99	1.74E-13
Tc-99m	4.27E-14
Ru-105	1.10E-13
Ag-110m	3.42E-14
Sn-113	1.99E-12
Sn-117m	4.24E-14
Sb-122	6.01E-14
Sb-124	4.76E-14
Sb-125	1.14E-14
Te-125m	1.60E-11
Sb-126	5.29E-14
I-131	6.14E-14
Xe-131m	2.14E-12
I-132	6.79E-14
Te-132	5.47E-14
I-133	4.37E-14
Xe-133	1.49E-13
Xe-133m	4.16E-13
Cs-134	6.05E-14
Xe-135	4.97E-14
Cs-137	3.34E-14
Xe-138	6.43E-12
Ba-La-140	1.64E-13
Ce-141	8.66E-14
Ce-144	2.81E-13
W-187	1.66E-13

NOTE: LLD Value for Total Activity Released is based on LLD Values for individual isotopes used in the calculation.

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BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
UNIT 1 AND 2 (Docket Numbers 50-456 and 50-457)

APPENDIX B

Supplemental Information

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
UNIT 1 (Docket Number 50-456)

GASEOUS EFFLUENTS
SUPPLEMENTAL RELEASE INFORMATION

A. Batch Release	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
1. Total Number of Batch Releases	40	45	49	37	**171**
2. Total Time Period for Batch Releases (minutes)	1690	1816	26427	56783	**86716**
3. Maximum Time Period for a Batch Release (minutes)	50	53	5193	16960	**16960**
4. Average Time Period for a Batch Release	42.3	40.4	539.3	1534.7	**507.1**
5. Minimum Time Period for a Batch Release (minutes)	22	23	24	30	**22**
B. Abnormal Releases					**0**
1. Number of Releases	0	0	0	0	**0**
2. Total Activity Released	0.00	0.00	0.00	0.00	**0.00**

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
UNIT 2 (Docket Number 50-457)

GASEOUS EFFLUENTS
SUPPLEMENTAL RELEASE INFORMATION

A. Batch Release	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
1. Total Number of Batch Releases	38	42	44	45	**169**
2. Total Time Period for Batch Releases (minutes)	1838	2849	3949	2091	**10727**
3. Maximum Time Period for a Batch Release (minutes)	99	720	1485	60	**1485**
4. Average Time Period for a Batch Release	48.4	67.8	89.8	46.5	**63.5**
5. Minimum Time Period for a Batch Release (minutes)	35	27	21	25	**21**
B. Abnormal Releases					**0**
1. Number of Releases	0	0	0	0	**0**
2. Total Activity Released	0.00	0.00	0.00	0.00	**0.00**

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
UNIT COMMON (Docket Number 50-456 and 50-457)

GASEOUS EFFLUENTS (WASTE GAS DECAY TANKS)
SUPPLEMENTAL RELEASE INFORMATION

A.	Batch Release	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
1.	Total Number of Batch Releases	0	0	3	6	**9**
2.	Total Time Period for Batch Releases (minutes)	0	0	335	346	**681**
3.	Maximum Time Period for a Batch Release (minutes)	0	0	159	91	**159**
4.	Average Time Period for a Batch Release	0	0	112	58	**76**
5.	Minimum Time Period for a Batch Release (minutes)	0	0	0	0	**0**
B.	Abnormal Releases					**0**
1.	Number of Releases	0	0	0	0	**0**
2.	Total Activity Released	0.00	0.00	0.00	0.00	**0.00**

BRAIDWOOD STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 1998
UNIT 1 AND 2 COMBINED (Docket Number 50-456)

LIQUID EFFLUENTS
SUPPLEMENTAL RELEASE INFORMATION

A. Batch Release	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	**Total**
1. Total Number of Batch Releases	27	35	59	50	**171**
2. Total Time Period for Batch Releases (minutes)	3414	3778	8123	12573	**27888**
3. Maximum Time Period for a Batch Release (minutes)	826	875	931	1498	**1498**
4. Average Time Period for a Batch Release	126.4	107.9	137.7	251.5	**163.1**
5. Minimum Time Period for a Batch Release (minutes)	164	146	151	186	**146**
6. Average Stream Flow During Periods of Release of Effluent into a Flowing Stream (liters/min)	2.03E+07	1.81E+07	6.68E+06	2.14E+06	**1.18E+07**

BRAIDWOOD STATION UNIT ONE

ACTUAL 1998
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
INFANT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	1.64E-05	1.86E-05	1.35E-05	7.00E-06	5.55E-05
(MRAD)	(N)	(N)	(N)	(N)	(N)
BETA AIR	1.48E-05	1.64E-05	1.17E-05	1.53E-05	5.83E-05
(MRAD)	(N)	(N)	(N)	(N)	(N)
TOT. BODY	1.23E-05	1.39E-05	1.01E-05	5.11E-06	4.15E-05
(MREM)	(N)	(N)	(N)	(N)	(N)
SKIN	2.32E-05	2.61E-05	1.89E-05	1.15E-05	7.97E-05
(MREM)	(N)	(N)	(N)	(N)	(N)
ORGAN	3.76E-04	9.35E-04	7.14E-04	1.47E-03	3.50E-03
(MREM)	(N)	(N)	(N)	(N)	(N)
	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	LUNG	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 10CFR 50 APP. I
INFANT RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		---------- % 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	0.01	0.01	0.02	15.0	0.02
		LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	LUNG	THYROID		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT ONE

ACTUAL 1998
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
CHILD RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	1.64E-05	1.86E-05	1.35E-05	7.00E-06	5.55E-05
(MRAD)	(N)	(N)	(N)	(N)	(N)
BETA AIR	1.48E-05	1.64E-05	1.17E-05	1.53E-05	5.83E-05
(MRAD)	(N)	(N)	(N)	(N)	(N)
TOT. BODY	1.23E-05	1.39E-05	1.01E-05	5.11E-06	4.15E-05
(MREM)	(N)	(N)	(N)	(N)	(N)
SKIN	2.32E-05	2.61E-05	1.89E-05	1.15E-05	7.97E-05
(MREM)	(N)	(N)	(N)	(N)	(N)
ORGAN	4.00E-04	1.64E-02	2.80E-02	3.99E-03	4.88E-02
(MREM)	(N)	(N)	(N)	(N)	(N)
	LIVER	THYROID	GI_LLI	THYROID	THYROID
	THYROID				
	KIDNEY				
	LUNG				
	GI_LLI				

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 10CFR 50 APP. I
CHILD RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		---------- % 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	0.22	0.37	0.05	15.0	0.33
		LIVER	THYROID	GI_LLI	THYROID		THYROID
		THYROID					
		KIDNEY					
		LUNG					
		GI_LLI					

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT ONE

ACTUAL 1998
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
TEENAGER RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	1.64E-05 (N)	1.86E-05 (N)	1.35E-05 (N)	7.00E-06 (N)	5.55E-05 (N)
BETA AIR (MRAD)	1.48E-05 (N)	1.64E-05 (N)	1.17E-05 (N)	1.53E-05 (N)	5.83E-05 (N)
TOT. BODY (MREM)	1.23E-05 (N)	1.39E-05 (N)	1.01E-05 (N)	5.11E-06 (N)	4.15E-05 (N)
SKIN (MREM)	2.32E-05 (N)	2.61E-05 (N)	1.89E-05 (N)	1.15E-05 (N)	7.97E-05 (N)
ORGAN (MREM)	3.14E-04 (N)	1.07E-02 (N)	1.82E-02 (N)	2.80E-03 (N)	3.20E-02 (N)
	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	GI_LLI	GI_LLI	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 10CFR 50 APP. I
TEENAGER RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		---------- % 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	0.14	0.24	0.04	15.0	0.21
		LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	GI_LLI	GI_LLI		THYROID

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT ONE

ACTUAL 1998
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
ADULT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	1.64E-05	1.86E-05	1.35E-05	7.00E-06	5.55E-05
(MRAD)	(N)	(N)	(N)	(N)	(N)
BETA AIR	1.48E-05	1.64E-05	1.17E-05	1.53E-05	5.83E-05
(MRAD)	(N)	(N)	(N)	(N)	(N)
TOT. BODY	1.23E-05	1.39E-05	1.01E-05	5.11E-06	4.15E-05
(MREM)	(N)	(N)	(N)	(N)	(N)
SKIN	2.32E-05	2.61E-05	1.89E-05	1.15E-05	7.97E-05
(MREM)	(N)	(N)	(N)	(N)	(N)
ORGAN	4.08E-04	9.51E-03	1.60E-02	2.69E-03	2.86E-02
(MREM)	(NE)	(N)	(N)	(N)	(N)
	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 10CFR 50 APP. I
ADULT RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		---------- % 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	0.13	0.21	0.04	15.0	0.19
		LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	GI_LLI	GI_LLI		GI_LLI

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

ACTUAL 1998
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
INFANT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	1.27E-05	1.98E-05	1.37E-05	1.53E-05	6.16E-05
(MRAD)	(N)	(N)	(N)	(N)	(N)
BETA AIR	1.96E-05	4.85E-05	1.88E-05	1.35E-05	1.00E-04
(MRAD)	(N)	(N)	(N)	(N)	(N)
TOT. BODY	9.41E-06	1.44E-05	1.02E-05	1.15E-05	4.55E-05
(MREM)	(N)	(N)	(N)	(N)	(N)
SKIN	1.95E-05	3.36E-05	2.05E-05	2.16E-05	9.53E-05
(MREM)	(N)	(N)	(N)	(N)	(N)
ORGAN	1.78E-03	4.62E-03	1.01E-02	1.20E-03	1.77E-02
(MREM)	(N)	(N)	(N)	(N)	(N)
	LIVER	LIVER	LIVER	LIVER	LIVER
	THYROID	THYROID	THYROID	THYROID	THYROID
	KIDNEY	KIDNEY	KIDNEY	KIDNEY	KIDNEY
	LUNG	LUNG	LUNG	LUNG	LUNG
	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 10CFR 50 APP. I
INFANT RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		---------- % 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	0.02	0.06	0.13	0.02	15.0	0.12
		LIVER	LIVER	LIVER	LIVER		LIVER
		THYROID	THYROID	THYROID	THYROID		THYROID
		KIDNEY	KIDNEY	KIDNEY	KIDNEY		KIDNEY
		LUNG	LUNG	LUNG	LUNG		LUNG
		GI_LLI	GI_LLI	GI_LLI	GI_LLI		GI_LLI

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

ACTUAL 1998
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
CHILD RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	1.27E-05	1.98E-05	1.37E-05	1.53E-05	6.16E-05
(MRAD)	(N)	(N)	(N)	(N)	(N)
BETA AIR	1.96E-05	4.85E-05	1.88E-05	1.35E-05	1.00E-04
(MRAD)	(N)	(N)	(N)	(N)	(N)
TOT. BODY	9.41E-06	1.44E-05	1.02E-05	1.15E-05	4.55E-05
(MREM)	(N)	(N)	(N)	(N)	(N)
SKIN	1.95E-05	3.36E-05	2.05E-05	2.16E-05	9.53E-05
(MREM)	(N)	(N)	(N)	(N)	(N)
ORGAN	1.89E-03	1.57E-01	3.95E-01	3.28E-02	5.86E-01
(MREM)	(N)	(N)	(N)	(N)	(N)
	LIVER	LIVER	LIVER	LIVER	LIVER
	THYROID	THYROID	THYROID	THYROID	THYROID
	KIDNEY	KIDNEY	KIDNEY	KIDNEY	KIDNEY
	LUNG	LUNG	LUNG	LUNG	LUNG
	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 10CFR 50 APP. I
CHILD RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		---------- % 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	0.03	2.09	5.27	0.44	15.0	3.91
		LIVER	LIVER	LIVER	LIVER		LIVER
		THYROID	THYROID	THYROID	THYROID		THYROID
		KIDNEY	KIDNEY	KIDNEY	KIDNEY		KIDNEY
		LUNG	LUNG	LUNG	LUNG		LUNG
		GI_LLI	GI_LLI	GI_LLI	GI_LLI		GI_LLI

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

ACTUAL 1998
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
TEENAGER RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	1.27E-05	1.98E-05	1.37E-05	1.53E-05	6.16E-05
(MRAD)	(N)	(N)	(N)	(N)	(N)
BETA AIR	1.96E-05	4.85E-05	1.88E-05	1.35E-05	1.00E-04
(MRAD)	(N)	(N)	(N)	(N)	(N)
TOT. BODY	9.41E-06	1.44E-05	1.02E-05	1.15E-05	4.55E-05
(MREM)	(N)	(N)	(N)	(N)	(N)
SKIN	1.95E-05	3.36E-05	2.05E-05	2.16E-05	9.53E-05
(MREM)	(N)	(N)	(N)	(N)	(N)
ORGAN	1.49E-03	1.02E-01	2.56E-01	2.14E-02	3.81E-01
(MREM)	(N)	(N)	(N)	(N)	(N)
	LIVER	LIVER	LIVER	LIVER	LIVER
	THYROID	THYROID	THYROID	THYROID	THYROID
	KIDNEY	KIDNEY	KIDNEY	KIDNEY	KIDNEY
	LUNG	LUNG	LUNG	LUNG	LUNG
	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 10CFR 50 APP. I
TEENAGER RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		---------- % 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	0.02	1.36	3.42	0.28	15.0	2.54
		LIVER	LIVER	LIVER	LIVER		LIVER
		THYROID	THYROID	THYROID	THYROID		THYROID
		KIDNEY	KIDNEY	KIDNEY	KIDNEY		KIDNEY
		LUNG	LUNG	LUNG	LUNG		LUNG
		GI_LLI	GI_LLI	GI_LLI	GI_LLI		GI_LLI

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

ACTUAL 1998
MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
ADULT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR	1.27E-05	1.98E-05	1.37E-05	1.53E-05	6.16E-05
(MRAD)	(N)	(N)	(N)	(N)	(N)
BETA AIR	1.96E-05	4.85E-05	1.88E-05	1.35E-05	1.00E-04
(MRAD)	(N)	(N)	(N)	(N)	(N)
TOT. BODY	9.41E-06	1.44E-05	1.02E-05	1.15E-05	4.55E-05
(MREM)	(N)	(N)	(N)	(N)	(N)
SKIN	1.95E-05	3.36E-05	2.05E-05	2.16E-05	9.53E-05
(MREM)	(N)	(N)	(N)	(N)	(N)
ORGAN	1.93E-03	8.98E-02	2.26E-01	1.89E-02	3.36E-01
(MREM)	(NE)	(N)	(N)	(N)	(N)
	LIVER	LIVER	LIVER	LIVER	LIVER
	THYROID	THYROID	THYROID	THYROID	THYROID
	KIDNEY	KIDNEY	KIDNEY	KIDNEY	KIDNEY
	LUNG	LUNG	LUNG	LUNG	LUNG
	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 10CFR 50 APP. I
ADULT RECEPTOR

	QTRLY OBJ	1ST QTR JAN-MAR	2ND QTR APR-JUN	3RD QTR JUL-SEP	4TH QTR OCT-DEC	YRLY OBJ	% OF APP. I
		---------- % 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	0.03	1.20	3.01	0.25	15.0	2.24
		LIVER	LIVER	LIVER	LIVER		LIVER
		THYROID	THYROID	THYROID	THYROID		THYROID
		KIDNEY	KIDNEY	KIDNEY	KIDNEY		KIDNEY
		LUNG	LUNG	LUNG	LUNG		LUNG
		GI_LLI	GI_LLI	GI_LLI	GI_LLI		GI_LLI

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT ONE

ACTUAL 1998
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	2.12E-02	3.19E-02	4.58E-02	3.03E-02	1.29E-01
INTERNAL ORGAN	2.12E-02	3.19E-02	4.58E-02	3.06E-02	1.29E-01
	GI_LLI	GI_LLI	GI_LLI	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 10 CFR 50 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
		---------- % OF APP I. ----------					
TOTAL BODY (MREM)	1.5	1.41	2.12	3.06	2.02	3.0	4.31
CRIT. ORGAN(MREM)	5.0	0.42	0.64	0.92	0.61	10.0	1.29
		GI_LLI	GI_LLI	GI_LLI	LIVER		LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
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BRAIDWOOD STATION UNIT ONE

1998 ANNUAL REPORT
PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	2.12E-02	3.19E-02	4.58E-02	3.03E-02	1.29E-01
INTERNAL ORGAN	2.12E-02	3.19E-02	4.58E-02	3.06E-02	1.29E-01
	GI_LLI	GI_LLI	GI_LLI	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY	4.0 MREM	3.230
INTERNAL ORGAN	4.0 MREM	3.236
		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 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
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BRAIDWOOD STATION UNIT ONE

ACTUAL 1998
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	2.14E-02	3.22E-02	4.63E-02	3.09E-02	1.31E-01
INTERNAL ORGAN	2.16E-02	3.23E-02	4.66E-02	3.31E-02	1.33E-01
	GI_LLI	LIVER	GI_LLI	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 10 CFR 50 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
		---------- % OF APP I. ----------					
TOTAL BODY (MREM)	1.5	1.43	2.15	3.08	2.06	3.0	4.36
CRIT. ORGAN(MREM)	5.0	0.43	0.65	0.93	0.66	10.0	1.33
		GI_LLI	LIVER	GI_LLI	LIVER		LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
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BRAIDWOOD STATION UNIT ONE

1998 ANNUAL REPORT
PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	2.13E-02	3.21E-02	4.61E-02	3.05E-02	1.30E-01
INTERNAL ORGAN	2.14E-02	3.21E-02	4.63E-02	3.07E-02	1.30E-01
	GI_LLI	GI_LLI	GI_LLI	LIVER	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY	4.0 MREM	3.249
INTERNAL ORGAN	4.0 MREM	3.259
		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 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
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BRAIDWOOD STATION UNIT ONE

ACTUAL 1998
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.12E-02	1.69E-02	2.43E-02	1.69E-02	6.94E-02
INTERNAL ORGAN	1.18E-02	1.72E-02	2.51E-02	1.86E-02	7.18E-02
	GI_LLI	GI_LLI	GI_LLI	LIVER	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 10 CFR 50 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
		---------- % OF APP I. ----------					
TOTAL BODY (MREM)	1.5	0.75	1.13	1.62	1.13	3.0	2.31
CRIT. ORGAN(MREM)	5.0	0.24	0.34	0.50	0.37	10.0	0.72
		GI_LLI	GI_LLI	GI_LLI	LIVER		GI_LLI

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
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BRAIDWOOD STATION UNIT ONE

1998 ANNUAL REPORT
PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.11E-02	1.67E-02	2.40E-02	1.59E-02	6.78E-02
INTERNAL ORGAN	1.13E-02	1.68E-02	2.44E-02	1.62E-02	6.87E-02
	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY	4.0 MREM	1.696
INTERNAL ORGAN	4.0 MREM	1.718
		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 2 DECEMBER 1996
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BRAIDWOOD STATION UNIT ONE

ACTUAL 1998
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	8.16E-03	1.23E-02	1.75E-02	1.32E-02	5.11E-02
INTERNAL ORGAN	8.83E-03	1.25E-02	1.85E-02	1.40E-02	5.38E-02
	GI_LLI	GI_LLI	GI_LLI	LIVER	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 10 CFR 50 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
		---------- % OF APP I. ----------					
TOTAL BODY (MREM)	1.5	0.54	0.82	1.17	0.88	3.0	1.70
CRIT. ORGAN(MREM)	5.0	0.18	0.25	0.37	0.28	10.0	0.54
		GI_LLI	GI_LLI	GI_LLI	LIVER		GI_LLI

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
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BRAIDWOOD STATION UNIT ONE

1998 ANNUAL REPORT
PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	7.98E-03	1.20E-02	1.72E-02	1.14E-02	4.86E-02
INTERNAL ORGAN	8.09E-03	1.21E-02	1.76E-02	1.16E-02	4.94E-02
	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY	4.0 MREM	1.216
INTERNAL ORGAN	4.0 MREM	1.235
		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 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
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BRAIDWOOD STATION UNIT TWO

ACTUAL 1998
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	2.12E-02	3.19E-02	4.58E-02	3.03E-02	1.29E-01
INTERNAL ORGAN	2.12E-02	3.19E-02	4.58E-02	3.06E-02	1.29E-01
	GI_LLI	GI_LLI	GI_LLI	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 10 CFR 50 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
		---------- % OF APP I. ----------					
TOTAL BODY (MREM)	1.5	1.41	2.12	3.06	2.02	3.0	4.31
CRIT. ORGAN(MREM)	5.0	0.42	0.64	0.92	0.61	10.0	1.29
		GI_LLI	GI_LLI	GI_LLI	LIVER		LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
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BRAIDWOOD STATION UNIT TWO

1998 ANNUAL REPORT
PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	2.12E-02	3.19E-02	4.58E-02	3.03E-02	1.29E-01
INTERNAL ORGAN	2.12E-02	3.19E-02	4.58E-02	3.06E-02	1.29E-01
	GI_LLI	GI_LLI	GI_LLI	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY	4.0 MREM	3.230
INTERNAL ORGAN	4.0 MREM	3.236
		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 2 DECEMBER 1996
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BRAIDWOOD STATION UNIT TWO

ACTUAL 1998
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	2.14E-02	3.22E-02	4.63E-02	3.09E-02	1.31E-01
INTERNAL ORGAN	2.16E-02	3.23E-02	4.66E-02	3.31E-02	1.33E-01
	GI_LLI	LIVER	GI_LLI	LIVER	LIVER

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 10 CFR 50 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
		---------- % OF APP I. ----------					
TOTAL BODY (MREM)	1.5	1.43	2.15	3.08	2.06	3.0	4.36
CRIT. ORGAN(MREM)	5.0	0.43	0.65	0.93	0.66	10.0	1.33
		GI_LLI	LIVER	GI_LLI	LIVER		LIVER

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
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BRAIDWOOD STATION UNIT TWO

1998 ANNUAL REPORT
PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	2.13E-02	3.21E-02	4.61E-02	3.05E-02	1.30E-01
INTERNAL ORGAN	2.14E-02	3.21E-02	4.63E-02	3.07E-02	1.30E-01
	GI_LLI	GI_LLI	GI_LLI	LIVER	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY	4.0 MREM	3.249
INTERNAL ORGAN	4.0 MREM	3.259
		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 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

ACTUAL 1998
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.12E-02	1.69E-02	2.43E-02	1.69E-02	6.94E-02
INTERNAL ORGAN	1.18E-02	1.72E-02	2.51E-02	1.86E-02	7.18E-02
	GI_LLI	GI_LLI	GI_LLI	LIVER	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

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	0.75	1.13	1.62	1.13	3.0	2.31
CRIT. ORGAN(MREM)	5.0	0.24	0.34	0.50	0.37	10.0	0.72
		GI_LLI	GI_LLI	GI_LLI	LIVER		GI_LLI

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

1998 ANNUAL REPORT
PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.11E-02	1.67E-02	2.40E-02	1.59E-02	6.78E-02
INTERNAL ORGAN	1.13E-02	1.68E-02	2.44E-02	1.62E-02	6.87E-02
	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY	4.0 MREM	1.696
INTERNAL ORGAN	4.0 MREM	1.718
		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 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

ACTUAL 1998
MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	8.16E-03	1.23E-02	1.75E-02	1.32E-02	5.11E-02
INTERNAL ORGAN	8.83E-03	1.25E-02	1.85E-02	1.40E-02	5.38E-02
	GI_LLI	GI_LLI	GI_LLI	LIVER	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 10 CFR 50 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
		---------- % OF APP I. ----------					
TOTAL BODY (MREM)	1.5	0.54	0.82	1.17	0.88	3.0	1.70
CRIT. ORGAN(MREM)	5.0	0.18	0.25	0.37	0.28	10.0	0.54
		GI_LLI	GI_LLI	GI_LLI	LIVER		GI_LLI

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

1998 ANNUAL REPORT
PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
PERIOD OF RELEASE - 01/01/98 TO 12/31/98 CALCULATED 04/15/99
ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	7.98E-03	1.20E-02	1.72E-02	1.14E-02	4.86E-02
INTERNAL ORGAN	8.09E-03	1.21E-02	1.76E-02	1.16E-02	4.94E-02
	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1998

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY	4.0 MREM	1.216
INTERNAL ORGAN	4.0 MREM	1.235
		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 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT ONE

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/98 TO 12/31/98

CALCULATED 04/15/99

1. 10 CFR 20.1301 (a)(1) Compliance

Total Effective Dose Eqivalent,	mrem/yr	5.06E-02
10 CFR 20.1301 (a)(1) limit	mrem/yr	100.0
	% of limit	0.05

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	5.44E-03	1.37E-02	2.08E-02	1.06E-02	0.05

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT ONE

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/98 TO 12/31/98

CALCULATED 04/15/99

2. 10 CFR 20.1301 (d)/40 CFR 190 Compliance

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	4.15E-05		
	Skyshine	0.00E+00		
	Ground	4.46E-07		
	Total	4.19E-05	25.0	0.00
Organ Dose (CDE)	Thyroid	4.97E-02	75.0	0.07
	Gonads	5.06E-02	25.0	0.20
	Breast	4.98E-02	25.0	0.20
	Lung	4.98E-02	25.0	0.20
	Marrow	5.00E-02	25.0	0.20
	Bone	5.08E-02	25.0	0.20
	Remainder	5.14E-02	25.0	0.21
	CEDE	5.05E-02		
	TEDE	5.06E-02	100.0	0.05

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/98 TO 12/31/98

CALCULATED 04/15/99

1. 10 CFR 20.1301 (a)(1) Compliance

Total Effective Dose Eqivalent,	mrem/yr	2.42E-01
10 CFR 20.1301 (a)(1) limit	mrem/yr	100.0
	% of limit	0.24

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	6.57E-03	6.36E-02	1.51E-01	2.04E-02	0.24

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

BRAIDWOOD STATION UNIT TWO

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/98 TO 12/31/98

CALCULATED 04/15/99

2. 10 CFR 20.1301 (d)/40 CFR 190 Compliance

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	4.55E-05		
	Skyshine	0.00E+00		
	Ground	9.81E-08		
	Total	4.56E-05	25.0	0.00
Organ Dose (CDE)	Thyroid	2.41E-01	75.0	0.32
	Gonads	2.42E-01	25.0	0.97
	Breast	2.41E-01	25.0	0.96
	Lung	2.41E-01	25.0	0.96
	Marrow	2.41E-01	25.0	0.96
	Bone	2.42E-01	25.0	0.97
	Remainder	2.43E-01	25.0	0.97
	CEDE	2.42E-01		
	TEDE	2.42E-01	100.0	0.24

RESULTS BASED UPON: ODCM ANNEX REVISION 2 DECEMBER 1996
ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

ComEd BRAIDWOOD STATION
34 ft. WIND SPEED and WIND DIRECTION

January-March 1998
199-30 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2156
VALUES ARE PERCENT OCCURRENCE

SPEED		WIND DIRECTION CLASSES																STABILITY CLASSES							
CLASS		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
	EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
	MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00						
C	SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			.00					
A	N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				.00				
L	SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00			
M	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
	EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
	MU	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05		.05						
1	SU	.05	.00	.05	.00	.05	.05	.00	.00	.05	.05	.00	.05	.00	.00	.00	.00	.32			.32					
-	N	.32	.37	.56	.93	.79	.00	.09	.05	.00	.05	.05	.14	.46	1.07	.88	.32	6.08				6.08				
3	SS	.46	.74	.37	.70	.74	.28	.28	.00	.14	.09	.09	.32	.65	1.30	.70	.60	7.47					7.47			
	MS	.09	.23	.28	.60	.65	.19	.05	.09	.00	.05	.05	.05	.14	.46	.14	.05	3.11						3.11		
	ES	.00	.00	.00	.05	.09	.00	.05	.00	.00	.00	.05	.09	.19	.05	.00	.00	.56							.56	
																										17.58
	EU	.00	.09	.09	.00	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.37	.37							
	MU	.05	.05	.23	.09	.14	.14	.00	.00	.00	.19	.05	.05	.19	.14	.09	.00	1.39		1.39						
4	SU	.23	.00	.05	.23	.42	.09	.05	.14	.05	.09	.09	.19	.28	.37	.09	.14	2.50			2.50					
-	N	.42	.51	1.11	3.25	3.06	.97	.93	.88	.14	.19	1.11	2.09	3.90	1.86	1.81	.83	23.05				23.05				
7	SS	.70	.23	.32	.32	.79	1.30	1.16	.56	.14	.23	.23	.60	.79	.46	.56	.32	8.72					8.72			
	MS	.00	.00	.00	.00	.05	.37	.00	.00	.00	.00	.05	.14	.32	.00	.00	.05	.97						.97		
	ES	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.19							.19	
																										37.20
	EU	.05	.19	.14	.09	.00	.23	.00	.09	.09	.00	.00	.05	.00	.42	.32	.05	1.72	1.72							
	MU	.09	.14	.00	.14	.00	.05	.00	.09	.28	.05	.09	.00	.09	.32	.28	.09	1.72		1.72						
8	SU	.00	.19	.05	.14	.09	.05	.00	.23	.14	.09	.05	.09	.05	.23	.14	.19	1.72			1.72					
-	N	.65	2.27	1.21	1.07	.70	.74	.93	1.76	.51	.79	.74	.70	1.25	1.07	1.48	1.62	17.49				17.49				
1	SS	.19	.05	.00	.00	.00	.14	.42	.83	.79	.19	.14	.00	.00	.00	.00	.00	2.74					2.74			
2	MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.00	.00	.09						.09		
	ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00	
																										25.46
	EU	.00	.05	.00	.00	.00	.00	.09	.09	.23	.05	.00	.00	.00	.00	.00	.14	.65	.65							
1	MU	.00	.00	.00	.00	.00	.00	.19	.09	.05	.00	.23	.09	.00	.00	.00	.09	.74		.74						
3	SU	.09	.00	.05	.00	.00	.00	.09	.28	.05	.14	.09	.23	.05	.00	.05	.14	1.25			1.25					
-	N	.37	2.18	.23	.00	.00	.28	.46	.60	1.07	2.50	.56	.37	.51	.14	.19	.65	10.11				10.11				
1	SS	.19	1.16	.14	.00	.00	.00	.00	.19	.51	.05	.00	.05	.09	.00	.00	.00	2.37					2.37			
8	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	
																										15.12

ComEd BRAIDWOOD STATION
34 ft. WIND SPEED and WIND DIRECTION

January-March 1998
199-30 ft. DIFFERENTIAL TEMPERATURE

SPEED	WIND DIRECTION CLASSES																	STABILITY CLASSES							
CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.28	.00	.00	.00	.00	.00	.00	.28	.28							
1 MU	.00	.00	.00	.00	.00	.00	.00	.00	.05	.14	.00	.00	.00	.00	.00	.00	.19		.19						
9 SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.09			.09					
- N	.05	.05	.00	.00	.00	.00	.00	.00	.88	1.53	.09	.23	.00	.00	.00	.28	3.11				3.11				
2 SS	.05	.37	.00	.00	.00	.00	.00	.00	.09	.14	.00	.00	.00	.00	.00	.00	.65					.65			
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	
																									4.31
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00	.14	.14							
G MU	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.00	.00	.09		.09						
T SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05			.05					
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05				.05				
2 SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00			
4 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						.00		
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00	
																									.32
TOT	4.04	8.86	4.87	7.61	7.84	4.87	4.78	5.98	5.29	7.24	3.80	5.61	9.00	7.88	6.73	5.61	100.00	3.15	4.17	5.94	59.88	21.94	4.17	.74	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-
.05	.32	.23	.09	.14	.23	.09	.19	.32	.46	.00	.05	.00	.42	.32	.23	3.15	Extremely Unstable
.14	.19	.23	.23	.19	.19	.19	.19	.42	.42	.37	.14	.28	.46	.37	.19	4.17	Moderately Unstable
.37	.19	.19	.37	.56	.19	.14	.65	.28	.51	.23	.56	.37	.60	.28	.46	5.94	Slightly Unstable
1.81	5.38	3.11	5.24	4.55	1.99	2.41	3.29	2.60	5.10	2.55	3.53	6.12	4.13	4.36	3.71	59.88	Neutral
1.58	2.55	.83	1.02	1.53	1.72	1.86	1.58	1.67	.70	.46	.97	1.53	1.76	1.25	.93	21.94	Slightly Stable
.09	.23	.28	.60	.70	.56	.05	.09	.00	.05	.14	.19	.51	.46	.14	.09	4.17	Moderately Stable
.00	.00	.00	.05	.19	.00	.05	.00	.00	.00	.05	.19	.19	.05	.00	.00	.74	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	C A L M
.93	1.35	1.25	2.27	2.37	.51	.46	.14	.19	.23	.23	.65	1.44	2.88	1.72	.97	17.58	0.9 - 3.5 mph
1.39	.88	1.81	3.90	4.68	2.88	2.13	1.58	.32	.70	1.53	3.15	5.47	2.83	2.55	1.39	37.20	3.6 - 7.5 mph
.97	2.83	1.39	1.44	.79	1.21	1.35	3.01	1.81	1.11	1.07	.83	1.44	2.04	2.23	1.95	25.46	7.6 - 12.5 mph
.65	3.39	.42	.00	.00	.28	.83	1.25	1.90	2.74	.88	.74	.65	.14	.23	1.02	15.12	12.6 - 18.5 mph
.09	.42	.00	.00	.00	.00	.00	.00	1.02	2.18	.09	.23	.00	.00	.00	.28	4.31	18.6 - 24.5 mph
.00	.00	.00	.00	.00	.00	.00	.00	.05	.28	.00	.00	.00	.00	.00	.00	.32	> 24.5 mph

ComEd BRAIDWOOD STATION
34 ft. WIND SPEED and WIND DIRECTION

April-June 1998
199-30 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2182
VALUES ARE PERCENT OCCURRENCE

SPEED CLASS	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
	WIND DIRECTION CLASSES																	STABILITY CLASSES							
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						
C SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			.00					
A N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				.00				
L SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00			
M MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						.00		
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00	
																									.00
EU	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05							
MU	.00	.00	.00	.00	.05	.00	.00	.00	.05	.00	.05	.00	.00	.00	.00	.00	.14		.14						
1 SU	.00	.05	.05	.05	.00	.05	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.23			.23					
- N	.23	.50	.41	.41	.18	.09	.09	.05	.05	.00	.14	.05	.05	.32	.55	.23	3.35				3.35				
3 SS	.18	.18	.41	.60	.96	.60	.09	.09	.05	.09	.00	.14	.46	.87	.37	.14	5.22					5.22			
MS	.23	.18	.42	.51	.65	.42	.14	.05	.05	.18	.09	.37	.88	.88	.14	.23	5.41						5.41		
ES	.23	.27	.18	.37	.50	.27	.09	.05	.00	.00	.00	.18	.41	.41	.23	.05	3.25							3.25	
																									17.64
EU	.14	.09	.46	.32	.37	.23	.60	.69	.37	.05	.09	.23	.23	.37	.46	.14	4.81	4.81							
MU	.18	.09	.23	.09	.41	.18	.09	.18	.09	.00	.09	.14	.41	.23	.46	.09	2.98		2.98						
4 SU	.05	.23	.14	.14	.27	.14	.37	.00	.14	.00	.14	.18	.27	.32	.27	.18	2.84			2.84					
- N	1.51	1.97	2.25	2.29	1.33	1.19	.82	.32	.37	.41	.46	.64	.55	.73	.69	.64	16.18				16.18				
7 SS	.41	.69	.46	1.10	.92	1.70	1.24	1.65	.69	.96	.60	1.24	.82	.37	.32	.60	13.75					13.75			
MS	.05	.00	.09	.00	.05	.46	.14	.18	.09	.09	.00	.73	.23	.00	.14	.00	2.25						2.25		
ES	.05	.00	.00	.00	.09	.14	.00	.00	.00	.00	.00	.18	.05	.00	.00	.00	.50							.50	
																									43.31
EU	.27	.41	.41	.14	.05	.09	.23	.27	.23	.37	.32	.69	.64	.64	.55	.32	5.64	5.64							
MU	.14	.27	.27	.18	.09	.09	.00	.18	.09	.05	.09	.27	.18	.23	.37	.18	2.70		2.70						
8 SU	.09	.14	.18	.09	.00	.00	.14	.32	.18	.14	.23	.14	.05	.32	.27	.09	2.38			2.38					
- N	1.19	1.42	1.33	.46	.27	.82	1.10	.87	.96	1.05	1.24	.60	1.01	.32	.50	.96	14.12				14.12				
1 SS	.09	.14	.00	.00	.14	.32	.41	.46	1.01	1.92	.27	.27	.23	.05	.09	.18	5.59					5.59			
2 MS	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.00	.00	.00	.00	.00	.09						.09		
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00	
																									30.52
EU	.00	.09	.00	.00	.00	.00	.00	.37	.18	.32	.23	.09	.14	.32	.09	.09	1.92	1.92							
1 MU	.00	.05	.09	.00	.00	.00	.00	.05	.00	.18	.14	.14	.14	.00	.00	.00	.78		.78						
3 SU	.00	.14	.00	.00	.00	.05	.00	.05	.00	.05	.09	.05	.14	.00	.00	.00	.55			.55					
- N	.00	.46	.09	.00	.00	.00	.18	.92	.60	.64	.82	.23	.09	.05	.00	.09	4.17				4.17				
1 SS	.00	.05	.00	.00	.00	.00	.00	.00	.05	.27	.00	.09	.00	.00	.05	.05	.55					.55			
8 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	
																									7.97

ComEd BRAIDWOOD STATION
34 ft. WIND SPEED and WIND DIRECTION

April-June 1998
199-30 ft. DIFFERENTIAL TEMPERATURE

SPEED	WIND DIRECTION CLASSES																	STABILITY CLASSES							
CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
EU	.00	.00	.00	.00	.00	.00	.00	.14	.09	.00	.00	.00	.00	.00	.00	.00	.23	.23							
1 MU	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05		.05						
9 SU	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.05			.05					
- N	.00	.00	.00	.00	.00	.00	.00	.09	.09	.05	.00	.00	.00	.00	.00	.00	.23				.23				
2 SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00			
4 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						.00		
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00	
																									.55
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
G MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00						
T SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			.00					
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				.00				
2 SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00			
4 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						.00		
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00	
																									.00
TOT	5.04	7.43	7.47	6.74	6.33	6.83	5.73	7.10	5.50	6.88	5.09	6.65	6.97	6.42	5.55	4.26	100.00	12.65	6.65	6.05	38.04	25.11	7.75	3.76	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-
.41	.60	.87	.46	.41	.32	.82	1.51	.87	.73	.64	1.01	1.01	1.33	1.10	.55	12.65	Extremely Unstable
.32	.41	.60	.27	.55	.27	.09	.46	.23	.23	.37	.55	.73	.46	.82	.27	6.65	Moderately Unstable
.14	.55	.37	.27	.27	.23	.50	.37	.41	.18	.46	.37	.46	.64	.55	.27	6.05	Slightly Unstable
2.93	4.35	4.08	3.16	1.79	2.11	2.20	2.25	2.06	2.15	2.66	1.51	1.70	1.42	1.74	1.92	38.04	Neutral
.69	1.05	.87	1.70	2.02	2.61	1.74	2.20	1.79	3.25	.87	1.74	1.51	1.28	.82	.96	25.11	Slightly Stable
.28	.18	.51	.51	.69	.87	.28	.28	.14	.32	.09	1.10	1.11	.88	.28	.23	7.75	Moderately Stable
.27	.27	.18	.37	.60	.41	.09	.05	.00	.00	.00	.37	.46	.41	.23	.05	3.76	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	C A L M
.87	1.19	1.47	1.93	2.34	1.42	.41	.28	.23	.28	.28	.74	1.79	2.48	1.28	.64	17.64	0.9 - 3.5 mph
2.38	3.07	3.62	3.94	3.44	4.03	3.25	3.02	1.74	1.51	1.37	3.35	2.57	2.02	2.34	1.65	43.31	3.6 - 7.5 mph
1.79	2.38	2.20	.87	.55	1.33	1.88	2.15	2.47	3.57	2.15	1.97	2.11	1.56	1.79	1.74	30.52	7.6 - 12.5 mph
.00	.78	.18	.00	.00	.05	.18	1.37	.82	1.47	1.28	.60	.50	.37	.14	.23	7.97	12.6 - 18.5 mph
.00	.00	.00	.00	.00	.00	.00	.27	.23	.05	.00	.00	.00	.00	.00	.00	.55	18.6 - 24.5 mph
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	> 24.5 mph

ComEd BRAIDWOOD STATION
34 ft. WIND SPEED and WIND DIRECTION

July-September 1998
199-30 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2208
VALUES ARE PERCENT OCCURRENCE

SPEED	WIND DIRECTION CLASSES																	STABILITY CLASSES							
CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00						
C SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			.00					
A N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				.00				
L SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00			
M MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						.00		
ES	.00	.00	.09	.05	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23							.23	
																									.23
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	.05							
MU	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.00	.00	.00	.09		.09						
1 SU	.00	.00	.05	.14	.09	.05	.09	.05	.05	.05	.00	.00	.05	.00	.05	.00	.63			.63					
- N	.09	.32	.45	.45	.82	.27	.18	.09	.05	.09	.09	.23	.32	.23	.14	.09	3.89				3.89				
3 SS	.36	.41	1.18	1.59	1.36	.77	.27	.36	.05	.14	.14	.41	.59	.91	.59	.36	9.47					9.47			
MS	.73	.46	.64	.92	1.33	1.47	.60	.32	.14	.23	.18	.60	1.15	.96	.83	.46	11.01						11.01		
ES	.57	.28	.28	.52	1.08	.14	.14	.05	.05	.00	.05	.38	.38	.71	.47	.80	5.89							5.89	
																									31.02
EU	.18	.23	.32	.23	.36	.18	.27	.50	.54	.54	.54	.50	.45	.14	.14	.14	5.25	5.25							
MU	.32	.18	.27	.50	.23	.14	.41	.27	.41	.18	.27	.27	.68	.27	.32	.36	5.07		5.07						
4 SU	.09	.00	.41	.18	.27	.18	.23	.27	.09	.23	.23	.36	.36	.59	.32	.18	3.99			3.99					
- N	.32	1.00	1.04	1.13	.54	.91	1.09	1.86	.86	.36	.72	.95	.77	.63	1.04	1.04	14.27				14.27				
7 SS	.59	1.90	1.63	.27	.36	1.31	2.04	3.62	1.49	1.22	1.22	1.54	.63	.09	.68	.32	18.93					18.93			
MS	.54	.23	.00	.00	.09	.54	.63	.36	.09	.68	.45	1.31	.23	.05	.09	.14	5.43						5.43		
ES	.00	.00	.00	.00	.05	.14	.00	.05	.05	.00	.00	.23	.00	.00	.00	.09	.59							.59	
																									53.53
EU	.59	.36	.14	.00	.00	.00	.00	.05	.27	.36	.23	.59	.50	.50	.32	.27	4.17	4.17							
MU	.00	.14	.05	.00	.00	.00	.00	.05	.09	.27	.09	.32	.05	.09	.05	.09	1.27		1.27						
8 SU	.05	.09	.05	.00	.00	.00	.05	.05	.14	.18	.05	.36	.18	.05	.00	.18	1.40			1.40					
- N	.18	.36	.09	.00	.00	.05	.00	.23	.18	.41	1.49	.41	.23	.00	.14	.00	3.76				3.76				
1 SS	.00	.00	.00	.05	.00	.00	.00	.41	.32	1.45	.63	.14	.05	.00	.00	.18	3.22					3.22			
2 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.05	.00	.00	.00	.00	.14						.14		
ES	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05							.05	
																									13.99
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.32	.00	.00	.00	.00	.00	.32	.32							
1 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.00	.00	.00	.00	.00	.18		.18						
3 SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.00	.00	.00	.09			.09					
- N	.05	.00	.00	.00	.00	.00	.00	.00	.00	.23	.05	.05	.05	.00	.00	.00	.41				.41				
1 SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00	.14					.14			
8 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05						.05		
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00	
																									1.18

ComEd BRAIDWOOD STATION
34 ft. WIND SPEED and WIND DIRECTION

July-September 1998
199-30 ft. DIFFERENTIAL TEMPERATURE

SPEED	WIND DIRECTION CLASSES																	STABILITY CLASSES							
CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
1 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00						
9 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	.05	.00	.00	.00	.00	.00	.00	.05				.05				
2 SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00			
4 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						.00		
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00	
																									.05
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
G MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00						
T SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			.00					
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				.00				
2 SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00			
4 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						.00		
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00	
																									.00
TOT	4.65	5.95	6.68	6.01	6.67	6.14	5.99	8.66	4.89	6.93	6.98	8.72	6.64	5.25	5.15	4.70	100.00	9.78	6.61	6.11	22.37	31.75	16.62	6.75	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-
.77	.59	.45	.23	.36	.18	.27	.54	.82	.95	1.09	1.09	.95	.63	.45	.41	9.78	Extremely Unstable
.32	.32	.32	.50	.23	.14	.41	.36	.54	.45	.54	.59	.72	.36	.36	.45	6.61	Moderately Unstable
.14	.09	.50	.32	.36	.23	.36	.36	.27	.50	.27	.77	.59	.63	.36	.36	-6.11	Slightly Unstable
.63	1.68	1.59	1.59	1.36	1.22	1.27	2.17	1.09	1.13	2.36	1.63	1.36	.86	1.31	1.13	22.37	Neutral
.95	2.31	2.81	1.90	1.72	2.08	2.31	4.39	1.86	2.94	1.99	2.08	1.27	1.00	1.27	.86	31.75	Slightly Stable
1.28	.69	.64	.92	1.42	2.01	1.23	.68	.23	.95	.68	1.95	1.37	1.05	.92	.59	16.62	Moderately Stable
.57	.28	.37	.56	1.22	.28	.14	.14	.09	.00	.05	.60	.38	.71	.47	.89	6.75	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	.09	.05	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23	C A L M
1.75	1.47	2.60	3.61	4.68	2.70	1.28	.91	.37	.55	.46	1.61	2.47	2.80	2.07	1.71	31.02	0.9 - 3.5 mph
2.04	3.53	3.67	2.31	1.90	3.40	4.66	6.93	3.53	3.22	3.44	5.16	3.13	1.77	2.58	2.26	53.53	3.6 - 7.5 mph
.82	.95	.32	.05	.00	.05	.05	.82	1.00	2.72	2.54	1.86	1.00	.63	.50	.72	13.99	7.6 - 12.5 mph
.05	.00	.00	.00	.00	.00	.00	.00	.00	.41	.54	.09	.05	.05	.00	.00	1.18	12.6 - 18.5 mph
.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	18.6 - 24.5 mph
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	> 24.5 mph

ComEd BRAIDWOOD STATION
34 ft. WIND SPEED and WIND DIRECTION

October-December 1998
199-30 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2179
VALUES ARE PERCENT OCCURRENCE

SPEED	WIND DIRECTION CLASSES																	STABILITY CLASSES							
CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00						
C SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			.00					
A N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				.00				
L SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00			
M MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05						.05		
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00	
																									.05
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
MU	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05		.05						
1 SU	.00	.00	.00	.00	.05	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.09			.09					
- N	.32	.18	.18	.50	.41	.37	.05	.14	.05	.05	.18	.14	.00	.28	.09	.41	3.35				3.35				
3 SS	.14	.28	.32	.37	.73	.32	.14	.18	.00	.09	.09	.18	.14	.23	.41	.23	3.85					3.85			
MS	.09	.00	.05	.09	.41	.28	.28	.09	.09	.05	.05	.18	.50	1.19	.55	.05	3.95						3.95		
ES	.23	.05	.05	.05	.19	.09	.05	.00	.09	.05	.00	.09	.23	.42	.47	.28	2.34							2.34	
																									13.63
EU	.18	.00	.00	.00	.00	.00	.05	.05	.05	.05	.05	.00	.00	.00	.09	.05	.55	.55							
MU	.00	.05	.00	.00	.05	.00	.09	.00	.09	.23	.14	.09	.05	.18	.14	.09	1.19		1.19						
4 SU	.05	.05	.05	.00	.00	.00	.14	.37	.18	.14	.32	.14	.00	.05	.23	.05	1.74			1.74					
- N	.87	1.01	.92	1.93	.41	.96	.18	.28	.41	.32	.78	.83	1.01	1.33	1.61	2.25	15.10				15.10				
7 SS	.18	.28	.28	.32	.23	.73	.92	1.06	1.06	1.79	1.19	2.20	1.79	1.51	.96	.60	15.10					15.10			
MS	.18	.05	.00	.00	.05	.09	.00	.14	.14	.41	.41	1.70	1.79	.60	.14	.14	5.83						5.83		
ES	.05	.00	.00	.00	.14	.00	.00	.00	.00	.00	.00	1.01	.73	.18	.00	.00	2.11							2.11	
																									41.62
EU	.05	.00	.00	.00	.05	.18	.05	.09	.09	.09	.09	.18	.18	.32	.32	.18	1.88	1.88							
MU	.05	.00	.05	.00	.00	.00	.00	.05	.09	.09	.32	.32	.37	.18	.09	.00	1.61		1.61						
8 SU	.05	.00	.00	.00	.00	.09	.09	.09	.05	.14	.32	.14	.50	.37	.05	.00	1.88			1.88					
- N	.28	.18	.73	.73	.05	.69	.64	.64	.92	1.88	1.33	1.01	1.28	1.51	1.01	.73	13.63				13.63				
1 SS	.09	.14	.00	.00	.00	.00	.60	1.74	1.28	3.40	1.84	.41	.46	.73	.18	.23	11.11					11.11			
2 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.15	.18	.05	.00	.00	.00	.00	1.38						1.38		
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.00	.00	.00	.09							.09	
																									31.57
EU	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.09	.00	.09	.28	.28							
1 MU	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.05	.05	.32	.09	.00	.09	.69		.69						
3 SU	.00	.00	.00	.00	.00	.00	.00	.05	.09	.09	.05	.00	.14	.00	.00	.00	.41			.41					
- N	.05	.00	.60	.05	.00	.00	.18	.55	1.19	1.84	1.10	.46	.60	.14	.05	.73	7.53				7.53				
1 SS	.00	.05	.00	.00	.00	.00	.05	.18	.87	.78	.23	.05	.00	.05	.05	.05	2.34					2.34			
8 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	
																									11.24

ComEd BRAIDWOOD STATION
34 ft. WIND SPEED and WIND DIRECTION

October-December 1998
199-30 ft. DIFFERENTIAL TEMPERATURE

SPEED CLASS	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
	WIND DIRECTION CLASSES																	STABILITY CLASSES							
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
1 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05		.05						
9 SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05			.05					
- N	.00	.00	.00	.00	.00	.00	.00	.09	.18	.41	.32	.09	.09	.00	.00	.05	1.24				1.24				
2 SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.18	.00	.00	.00	.05	.32					.32			
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	
																									1.65
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
6 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00						
T SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.00	.00	.00	.09			.09					
N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00	.00	.00	.00	.14				.14				
2 SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00			
4 MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						.00		
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00	
																									.23
TOT	2.85	2.30	3.26	4.04	2.76	3.81	3.58	5.83	7.02	13.26	9.22	9.55	10.24	9.46	6.48	6.34	100.00	2.71	3.58	4.27	40.98	32.72	11.20	4.54	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-
.23	.00	.00	.00	.05	.18	.18	.14	.14	.14	.14	.18	.18	.41	.41	.32	2.71	Extremely Unstable
.05	.05	.09	.00	.05	.00	.09	.09	.23	.32	.50	.46	.78	.46	.23	.18	3.58	Moderately Unstable
.09	.05	.05	.00	.05	.09	.23	.50	.37	.50	.69	.28	.64	.41	.28	.05	4.27	Slightly Unstable
1.51	1.38	2.43	3.21	.87	2.02	1.06	1.70	2.75	4.50	3.85	2.52	2.98	3.26	2.75	4.18	40.98	Neutral
.41	.73	.60	.69	.96	1.06	1.70	3.17	3.21	6.10	3.40	3.03	2.39	2.52	1.61	1.15	32.72	Slightly Stable
.28	.05	.05	.09	.46	.37	.28	.23	.23	1.61	.64	1.93	2.29	1.79	.73	.18	11.20	Moderately Stable
.28	.05	.05	.05	.32	.09	.05	.00	.09	.09	.00	1.15	.97	.60	.47	.28	4.54	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	.05	.00	.05	C A L M
.78	.51	.64	1.01	1.79	1.06	.51	.41	.28	.23	.32	.60	.88	2.12	1.52	.97	13.63	0.9 - 3.5 mph
1.51	1.42	1.24	2.25	.87	1.79	1.38	1.88	1.93	2.94	2.89	5.97	5.37	3.85	3.17	3.17	41.62	3.6 - 7.5 mph
.50	.32	.78	.73	.09	.96	1.38	2.62	2.43	6.79	4.08	2.16	2.80	3.12	1.65	1.15	31.57	7.6 - 12.5 mph
.05	.05	.60	.05	.00	.00	.32	.83	2.20	2.71	1.42	.55	1.06	.37	.09	.96	11.24	12.6 - 18.5 mph
.00	.00	.00	.00	.00	.00	.00	.09	.18	.50	.37	.28	.14	.00	.00	.09	1.65	18.6 - 24.5 mph
.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.14	.00	.00	.00	.00	.00	.23	> 24.5 mph