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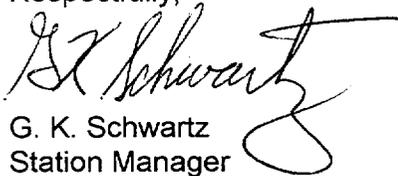
Braidwood Station, Units 1 and 2
Facility Operating License Nos. NPF-72 and NPF-77
NRC Docket Nos. STN 50-456 and STN 50-457

Subject: 2000 Radioactive Effluent Release Report

The attached document includes the Radioactive Effluent Release Report for Braidwood Station. This report is being submitted in accordance with 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 2000 through December 2000.

If you have any questions regarding this information, please contact Ms. A Ferko, Regulatory Assurance Manager, at (815) 458-2801, extension 2699.

Respectfully,



G. K. Schwartz
Station Manager
Braidwood Station

Attachment

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

IE48

bcc: Project Manager NRR - Braidwood Station
Nicholas Reynolds - Winston & Strawn
Director - Licensing - Midwest Regional Operating Group
Regulatory Assurance Manager - Braidwood Station
Manager, Licensing and Compliance - Braidwood and Byron Stations
Nuclear Licensing Administrator – Braidwood Station
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RADIOACTIVE EFFLUENT RELEASE REPORT

Supplemental Information

January - December 2000

Facility: BRAIDWOOD NUCLEAR POWER 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 0.817 MeV for Unit 1 and 0.729 MeV for Unit 2. The average beta energy for Braidwood noble gas waste streams was 0.328 MeV for Unit 1 and 0.304 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 normally 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 and Sr-89/90. 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 Offsite Dose Calculation Manual (ODCM) LLD requirements are met. When a nuclide is not detected during the quarter then <LLD is reported. During the third quarter of 2000, however, a contract vendor did not meet the required lower limits of detection required for Sr-89 in liquid samples. This deficiency is documented in the station's corrective actions program in condition report A2001-01061.

BRAIDWOOD NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 2000
GAS RELEASES
UNIT 1 (Docket Number 50-456)
SUMMATION OF ALL RELEASES

Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
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A. Fission and Activation Gas Releases

1. Total Release Activity	Ci	1.41E-01	1.46E-01	7.40E-02	8.45E-02	4.46E-01
2. Average Release Rate	uCi/sec	1.81E-02	1.86E-02	9.31E-03	1.01E-02	5.61E-02

B. Iodine Releases

1. Total I-131 Activity	Ci	5.04E-07	2.50E-07	<LLD	7.03E-06	7.78E-06
2. Average Release Rate	uCi/sec	6.48E-08	3.18E-08	<LLD	8.84E-07	9.81E-07

C. Particulate (> 8 day half-life) Releases

1. Gross Activity	Ci	1.12E-11	<LLD	1.16E-06	2.70E-05	2.82E-05
2. Average Release Rate	uCi/sec	1.44E-12	<LLD	1.46E-07	3.40E-06	3.55E-06
3. Gross Alpha Activity	Ci	<LLD	<LLD	3.74E-12	<LLD	3.74E-12

D. Tritium Releases

1. Total Release Activity	Ci	2.99E+00	9.17E+00	4.34E+00	7.74E-01	1.73E+01
2. Average Release Rate	uCi/sec	3.85E-01	1.17E+00	5.46E-01	9.75E-02	2.20E+00

**E. Sum of Iodine, Particulate (> 8 day half-life),
and Tritium Releases.**

1. Total Release Activity	Ci	5.28E+00	1.83E+01	8.57E+00	1.41E+00	3.36E+01
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Note: LLD Values are included in Appendix A of this report.

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

BRAIDWOOD NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 2000
GAS RELEASES
UNIT 1 (Docket Number 50-456)
BATCH MODE

Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
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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	*	*	*	*	*
Sr-89	Ci	*	*	*	*	*
Sr-90	Ci	*	*	*	*	*
Mo-99	Ci	*	*	*	*	*
Cs-134	Ci	*	*	*	*	*
Cs-137	Ci	*	*	*	*	*
Ba\La-140	Ci	*	*	*	*	*
Ce-141	Ci	*	*	*	*	*
Ce-144	Ci	*	*	*	*	*

* Value reported as Continuous Mode

B. Tritium Releases

1. Total Release Activity	Ci	7.32E-01	5.52E-02	1.13E-01	1.38E-01	1.04E+00
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C. Fission and Activation Gas Releases

Ar-41	Ci	8.36E-02	5.87E-02	6.64E-02	6.48E-02	2.74E-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-131m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	2.98E-02	1.02E-02	7.54E-03	6.34E-02	1.11E-01
Xe-133m	Ci	<LLD	<LLD	<LLD	1.15E-03	1.15E-03
Xe-135	Ci	3.36E-04	2.68E-04	<LLD	3.92E-03	4.52E-03
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 NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 2000
GAS RELEASES
UNIT 1 (Docket Number 50-456)
CONTINUOUS MODE

Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
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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	1.16E-06	<LLD	1.16E-06
Co-58	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	1.12E-11	<LLD	<LLD	<LLD	1.12E-11
Mo-99	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-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	1.80E-05	1.80E-05

B. Tritium Releases

1. Total Release Activity	Ci	2.26E+00	9.12E+00	4.23E+00	6.36E-01	1.62E+01
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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-131m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	2.69E-02	7.70E-02	<LLD	2.20E-03	1.06E-01
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	5.04E-07	2.50E-07	<LLD	7.03E-06	7.78E-06
I-132	Ci	<LLD	<LLD	<LLD	1.32E-04	1.32E-04
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 NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 2000
GAS RELEASES
UNIT 2 (Docket Number 50-457)
SUMMATION OF ALL RELEASES

Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
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A. Fission and Activation Gas Releases

1. Total Release Activity	Ci	1.01E-01	1.18E-01	1.31E-01	2.01E-01	5.51E-01
2. Average Release Rate	uCi/sec	1.30E-02	1.50E-02	1.65E-02	1.82E-02	6.27E-02

B. Iodine Releases

1. Total I-131 Activity	Ci	9.45E-06	<LLD	8.67E-08	1.44E-07	9.68E-06
2. Average Release Rate	uCi/sec	1.22E-06	<LLD	1.09E-08	1.81E-08	1.25E-06

C. Particulate (> 8 day half-life) Releases

1. Gross Activity	Ci	4.16E-11	<LLD	<LLD	6.68E-07	6.68E-07
2. Average Release Rate	uCi/sec	5.35E-12	<LLD	<LLD	8.40E-08	8.40E-08
3. Gross Alpha Activity	Ci	<LLD	2.50E-12	<LLD	<LLD	2.50E-12

D. Tritium Releases

1. Total Release Activity	Ci	9.49E+00	4.41E+00	2.82E+00	1.60E+00	1.83E+01
2. Average Release Rate	uCi/sec	1.22E+00	5.61E-01	3.56E-01	2.01E-01	2.34E+00

**E. Sum of Iodine, Particulate (> 8 day half-life),
and Tritium Releases.**

1. Total Release Activity	Ci	9.49E+00	4.41E+00	2.83E+00	1.60E+00	1.83E+01
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Note: LLD Values are included in Appendix A of this report.

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

BRAIDWOOD NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 2000
GAS RELEASES
UNIT 2 (Docket Number 50-457)
BATCH MODE

Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
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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	*	*	*	*	*
Sr-89	Ci	*	*	*	*	*
Sr-90	Ci	*	*	*	*	*
Mo-99	Ci	*	*	*	*	*
Cs-134	Ci	*	*	*	*	*
Cs-137	Ci	*	*	*	*	*
BaLa-140	Ci	*	*	*	*	*
Ce-141	Ci	*	*	*	*	*
Ce-144	Ci	*	*	*	*	*

* Value reported as Continuous Mode

B. Tritium Releases

1. Total Release Activity	Ci	3.21E-01	1.27E-01	5.21E-02	2.39E-02	5.24E-01
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C. Fission and Activation Gas Releases

Ar-41	Ci	5.81E-02	7.49E-02	8.37E-02	5.26E-02	2.69E-01
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85m	Ci	<LLD	<LLD	5.06E-05	<LLD	5.06E-05
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-131m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	4.08E-02	4.10E-02	4.60E-02	8.95E-02	2.17E-01
Xe-133m	Ci	<LLD	<LLD	<LLD	1.15E-03	1.15E-03
Xe-135	Ci	1.68E-03	1.35E-03	1.56E-03	7.53E-03	1.21E-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 NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 2000
GAS RELEASES
UNIT 2 (Docket Number 50-457)
CONTINUOUS MODE

Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
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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
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	4.16E-11	<LLD	<LLD	<LLD	4.16E-11
Mo-99	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-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

B. Tritium Releases

I. Total Release Activity	Ci	9.17E+00	4.28E+00	2.77E+00	1.58E+00	1.78E+01
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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-131m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	<LLD	2.55E-04	<LLD	5.01E-02	5.04E-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	9.45E-06	<LLD	8.67E-08	1.44E-07	9.68E-06
I-132	Ci	1.02E-04	<LLD	9.34E-06	<LLD	1.11E-04
I-133	Ci	<LLD	<LLD	1.17E-05	<LLD	1.17E-05
I-134	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

BRAIDWOOD NUCLEAR POWER STATION
 ANNUAL EFFLUENT REPORT FOR 2000
 LIQUID RELEASES
 UNIT 1 (Docket Number 50-456)
 SUMMATION OF ALL RELEASES

Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
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A. Fission and Activation Products

1. Total Activity Released	Ci	9.95E-01	6.10E-02	1.71E-02	3.83E-02	1.11E+00
2. Average Concentration Released	uCi/ml	3.68E-07	1.93E-08	5.77E-09	1.38E-08	9.56E-08

B. Tritium

1. Total Activity Released	Ci	3.48E+02	4.96E+02	2.69E+02	2.13E+02	1.33E+03
2. Average Concentration Released	uCi/ml	1.29E-04	1.57E-04	9.08E-05	7.66E-05	1.15E-04
3. % of Limit (1E-3 uCi/ml)	%	1.29E+01	1.57E+01	9.08E+00	7.66E+00	1.15E+01

C. Dissolved Noble Gases

1. Total Activity Released	Ci	7.05E-03	3.91E-04	2.86E-04	2.23E-03	9.96E-03
2. Average Concentration Released	uCi/ml	2.61E-09	1.24E-10	9.66E-11	8.02E-10	8.58E-10
3. % of Limit (2E-4 uCi/ml)	%	1.31E-03	6.20E-05	4.83E-05	4.01E-04	4.29E-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	2.38E+06	2.39E+06	2.08E+06	2.24E+06	9.09E+06
2. Volume of Dilution Water	liters	2.70E+09	3.16E+09	2.96E+09	2.78E+09	1.16E+10

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

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

BRAIDWOOD NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 2000
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	3.21E+02	2.52E+02	2.43E+02	1.76E+02	9.92E+02
Na-24	Ci	1.29E-05	2.40E-05	8.24E-06	<LLD	4.51E-05
Ar-41	Ci	<LLD	3.43E-06	<LLD	<LLD	3.43E-06
Cr-51	Ci	3.74E-04	2.53E-03	7.70E-05	5.10E-05	3.03E-03
Mn-54	Ci	7.77E-04	6.10E-04	1.61E-04	5.65E-04	2.11E-03
Fe-55	Ci	2.00E-03	5.70E-03	<LLD	<LLD^	7.70E-03
Co-57	Ci	3.46E-05	4.63E-05	9.30E-06	2.24E-05	1.13E-04
Co-58	Ci	6.87E-03	3.76E-02	5.13E-03	4.72E-03	5.43E-02
Fe-59	Ci	6.45E-05	2.40E-04	<LLD	6.35E-05	3.68E-04
Co-60	Ci	1.02E-02	4.63E-03	1.60E-03	2.52E-03	1.90E-02
Ni-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci	<LLD	<LLD	1.76E-05	<LLD	1.76E-05
As-76	Ci	5.45E-06	<LLD	<LLD	<LLD	5.45E-06
Kr-85	Ci	2.02E-03	<LLD	<LLD	<LLD	2.02E-03
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	4.73E-06	<LLD	<LLD	<LLD	4.73E-06
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD^	<LLD
Sr-90	Ci	*	<LLD	<LLD	<LLD^	<LLD
Nb-95	Ci	<LLD	1.22E-04	<LLD	1.34E-05	1.35E-04
Zr-95	Ci	<LLD	2.00E-05	1.01E-05	<LLD	3.01E-05
Nb-97	Ci	<LLD	8.81E-05	<LLD	<LLD	8.81E-05
Tc-99m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	6.62E-05	<LLD	<LLD	6.62E-05
Sn-117m	Ci	1.14E-03	6.85E-05	<LLD	<LLD	1.21E-03
Sb-122	Ci	3.10E-05	<LLD	7.30E-05	3.17E-05	1.36E-04
Te-123m	Ci	<LLD	8.94E-04	7.94E-05	2.82E-03	3.79E-03
Sb-124	Ci	2.69E-03	2.44E-03	2.21E-03	9.39E-04	8.28E-03
Sb-125	Ci	3.80E-03	5.82E-03	7.70E-03	2.49E-03	1.98E-02
Te-125m	Ci	<LLD	9.20E-04	<LLD	<LLD	9.20E-04
Sb-126	Ci	<LLD	9.70E-06	<LLD	<LLD	9.70E-06
Xe-131m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-131	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Te-132	Ci	1.41E-05	<LLD	<LLD	2.74E-06	1.68E-05
I-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	5.01E-03	3.88E-04	2.86E-04	2.13E-03	7.81E-03
Xe-133m	Ci	1.20E-05	<LLD	<LLD	<LLD	1.20E-05
Cs-134	Ci	2.80E-05	<LLD	3.11E-05	<LLD	5.91E-05
Xe-135	Ci	<LLD	<LLD	<LLD	1.00E-04	1.00E-04
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	2.71E-04	<LLD	<LLD	<LLD	2.71E-04
Cs-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba\La-140	Ci	9.35E-05	<LLD	<LLD	<LLD	9.35E-05
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

*Data to be submitted in an errata to this report.

^Fourth quarter data excludes October. October samples disposed of inadvertently. Incident documented in the corrective actions program, condition report A2000-04589.

BRAIDWOOD NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 2000
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	2.76E+01	2.44E+02	2.58E+01	3.71E+01	3.35E+02
Na-24	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ar-41	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	8.05E-03	<LLD	*	<LLD^	8.05E-03
Co-57	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	3.90E-05	<LLD	<LLD	3.90E-05
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	<LLD	<LLD	<LLD	2.69E-02	2.69E-02
Ni-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
As-76	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-87	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
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Nb-97	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Tc-99m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-117m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-122	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Te-123m	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
Xe-131m	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
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba\La-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

*Data to be submitted in an errata to this report.

^Fourth quarter data excludes October. October samples disposed of inadvertently. Incident documented in the corrective actions program, condition report A2000-04589.

BRAIDWOOD NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 2000
LIQUID RELEASES
UNIT 2 (Docket Number 50-457)
SUMMATION OF ALL RELEASES

Units	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
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A. Fission and Activation Products

1. Total Activity Released	Ci	9.95E-01	6.10E-02	1.71E-02	3.83E-02	1.11E+00
2. Average Concentration Released	uCi/ml	3.68E-07	1.93E-08	5.77E-09	1.38E-08	9.56E-08

B. Tritium

1. Total Activity Released	Ci	3.48E+02	4.96E+02	2.69E+02	2.13E+02	1.33E+03
2. Average Concentration Released	uCi/ml	1.29E-04	1.57E-04	9.08E-05	7.66E-05	1.15E-04
3. % of Limit (1E-3 uCi/ml)	%	1.29E+01	1.57E+01	9.08E+00	7.66E+00	1.15E+01

C. Dissolved Noble Gases

1. Total Activity Released	Ci	7.05E-03	3.91E-04	2.86E-04	2.23E-03	9.96E-03
2. Average Concentration Released	uCi/ml	2.61E-09	1.24E-10	9.66E-11	8.02E-10	8.58E-10
3. % of Limit (2E-4 uCi/ml)	%	1.31E-03	6.20E-05	4.83E-05	4.01E-04	4.29E-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	2.38E+06	2.39E+06	2.08E+06	2.24E+06	9.09E+06
2. Volume of Dilution Water	liters	2.70E+09	3.16E+09	2.96E+09	2.78E+09	1.16E+10

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

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

BRAIDWOOD NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 2000
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	3.21E+02	2.52E+02	2.43E+02	1.76E+02	9.92E+02
Na-24	Ci	1.29E-05	2.40E-05	8.24E-06	<LLD	4.51E-05
Ar-41	Ci	<LLD	3.43E-06	<LLD	<LLD	3.43E-06
Cr-51	Ci	3.74E-04	2.53E-03	7.70E-05	5.10E-05	3.03E-03
Mn-54	Ci	7.75E-04	6.10E-04	1.61E-04	5.65E-04	2.11E-03
Fe-55	Ci	2.00E-03	5.70E-03	<LLD	<LLD^	7.70E-03
Co-57	Ci	3.46E-05	4.63E-05	9.30E-06	2.24E-05	1.13E-04
Co-58	Ci	6.87E-03	3.76E-02	5.13E-03	4.72E-03	5.43E-02
Fe-59	Ci	6.45E-05	2.40E-04	<LLD	6.35E-05	3.68E-04
Co-60	Ci	1.02E-02	4.63E-03	1.60E-03	2.52E-03	1.90E-02
Ni-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci	<LLD	<LLD	1.76E-05	<LLD	1.76E-05
As-76	Ci	5.45E-06	<LLD	<LLD	<LLD	5.45E-06
Kr-85	Ci	2.02E-03	<LLD	<LLD	<LLD	2.02E-03
Kr-87	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-88	Ci	4.73E-06	<LLD	<LLD	<LLD	4.73E-06
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD^	<LLD
Sr-90	Ci	*	<LLD	<LLD	<LLD^	<LLD
Nb-95	Ci	<LLD	1.22E-04	<LLD	1.34E-05	1.35E-04
Zr-95	Ci	<LLD	2.00E-05	1.01E-05	<LLD	3.01E-05
Nb-97	Ci	<LLD	8.81E-05	<LLD	<LLD	8.81E-05
Tc-99m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	6.62E-05	<LLD	<LLD	6.62E-05
Sn-117m	Ci	1.14E-03	6.85E-05	<LLD	<LLD	1.21E-03
Sb-122	Ci	3.10E-05	<LLD	7.30E-05	3.17E-05	1.36E-04
Te-123m	Ci	<LLD	8.94E-04	7.94E-05	2.82E-03	3.79E-03
Sb-124	Ci	2.69E-03	2.44E-03	2.21E-03	9.39E-04	8.28E-03
Sb-125	Ci	3.80E-03	5.82E-03	7.70E-03	2.49E-03	1.98E-02
Te-125m	Ci	<LLD	9.20E-04	<LLD	<LLD	9.20E-04
Sb-126	Ci	<LLD	9.70E-06	<LLD	<LLD	9.70E-06
Xe-131m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
I-131	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Te-132	Ci	1.41E-05	<LLD	<LLD	2.74E-06	1.68E-05
I-133	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-133	Ci	5.01E-03	3.88E-04	2.86E-04	2.13E-03	7.81E-03
Xe-133m	Ci	1.20E-05	<LLD	<LLD	<LLD	1.20E-05
Cs-134	Ci	2.80E-05	<LLD	3.11E-05	<LLD	5.91E-05
Xe-135	Ci	<LLD	<LLD	<LLD	1.00E-04	1.00E-04
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	2.71E-04	<LLD	<LLD	<LLD	2.71E-04
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba\La-140	Ci	9.35E-05	<LLD	<LLD	<LLD	9.35E-05
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

*Data to be submitted in an errata to this report.

^Fourth quarter data excludes October. October samples disposed of inadvertently. Incident documented in the corrective actions program, condition report A2000-04589.

BRAIDWOOD NUCLEAR POWER STATION
ANNUAL EFFLUENT REPORT FOR 2000
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	2.76E+01	2.44E+02	2.58E+01	3.71E+01	3.35E+02
Na-24	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ar-41	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	8.05E-03	<LLD	*	<LLD [^]	8.05E-03
Co-57	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-58	Ci	<LLD	3.90E-05	<LLD	<LLD	3.90E-05
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	<LLD	<LLD	<LLD	2.69E-02	2.69E-02
Ni-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
As-76	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-85	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Kr-87	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
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Nb-97	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Tc-99m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sn-117m	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Sb-122	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Te-123m	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
Xe-131m	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
I-135	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Xe-138	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ba\La-140	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-141	Ci	<LLD	<LLD	<LLD	<LLD	<LLD
Ce-144	Ci	<LLD	<LLD	<LLD	<LLD	<LLD

*Data to be submitted in an errata to this report.

[^]Fourth quarter data excludes October. October samples disposed of inadvertently. Incident documented in the corrective actions program, condition report A2000-04589.

BRAIDWOOD NUCLEAR POWER STATION
 RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2000
 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

a. Process Waste	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Yr total
Total (m ³) =	12.69	82.37	5.87	93.7	194.63
Total (Ci) =	2.07E+02	2.82E+00	3.03E+00	3.02E+01	2.43E+02
% Error =	2.50E+01	2.50E+01	2.50E+01	2.50E+01	2.50E+01

b. Dry Active Waste	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Yr total
Total (m ³) =	0.00E+00	3.82E+01	7.65E+01	3.82E+01	152.9
Total (Ci) =	0.00E+00	1.95E-02	3.14E-01	2.80E-01	6.14E-01
% Error =		2.50E+01	2.50E+01	2.50E+01	2.50E+01

c. Other Waste	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Yr total
Total (m ³) =	0.00E+00	0.00E+00	3.62E+01	0.00E+00	36.2
Total (Ci) =	0.00E+00	0.00E+00	9.46E-03	0.00E+00	9.46E-03
% Error =			2.50E+01		2.50E+01

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	2nd Qtr	3rd Qtr	4th Qtr	Yr total	% Composition
Nuclide	Ci	Ci	Ci	Ci	Ci	
*Fe-55	8.77E+01	1.20E+00	3.87E-01	7.19E+00	9.65E+01	3.97E+01
*Ni-63	5.03E+01	6.68E-01	2.18E-01	7.95E+00	5.92E+01	2.44E+01
Co-60	4.32E+01	5.83E-01	1.89E-01	4.90E+00	4.89E+01	2.01E+01
Co-58	3.32E+00	1.57E-01	2.01E+00	8.87E+00	1.44E+01	5.91E+00
Mn-54	6.73E+00	3.67E-02	1.82E-02	2.91E-01	7.08E+00	2.91E+00
Cs-137	6.88E+00	3.01E-03	2.83E-02	1.50E-01	7.06E+00	2.91E+00
*C-14	2.58E+00	3.44E-02	1.13E-02	3.58E-01	2.99E+00	1.23E+00
Sb-125	2.58E+00	2.31E-02	5.53E-02	1.04E-01	2.77E+00	1.14E+00
Cs-134	1.36E+00	1.95E-04	9.88E-03	2.42E-03	1.37E+00	5.65E-01
Co-57	8.78E-01	8.84E-03	1.49E-02	9.77E-02	9.99E-01	4.11E-01
*Ni-59	5.96E-01	7.88E-03	2.57E-03	9.21E-02	6.99E-01	2.88E-01
Sb-124	5.21E-01	1.68E-02	1.48E-02	4.60E-04	5.53E-01	2.28E-01
H-3	3.01E-02	7.58E-02	6.77E-02	1.34E-01	3.08E-01	1.27E-01

*Activities based on 10CFR61 scaling factors

b. Dry Active Waste	Nuclide	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Yr total	% Composition
		Ci	Ci	Ci	Ci	Ci	
	*Fe-55	0.00E+00	8.06E-03	1.24E-01	1.01E-01	2.33E-01	3.80E+01
	*Ni-63	0.00E+00	4.32E-03	6.76E-02	6.87E-02	1.41E-01	2.29E+01
	Co-60	0.00E+00	3.84E-03	5.96E-02	5.39E-02	1.17E-01	1.91E+01
	Co-58	0.00E+00	1.98E-03	2.31E-02	2.94E-02	5.45E-02	8.88E+00
	H-3	0.00E+00	0.00E+00	2.27E-02	8.13E-03	3.08E-02	5.02E+00
	Mn-54	0.00E+00	3.57E-04	5.24E-03	5.07E-03	1.07E-02	1.74E+00
	*C-14	0.00E+00	2.22E-04	3.48E-03	3.03E-03	6.73E-03	1.10E+00
	Nb-95	0.00E+00	2.59E-04	2.24E-03	4.08E-03	6.58E-03	1.07E+00
	Sb-125	0.00E+00	1.41E-04	2.17E-03	1.98E-03	4.29E-03	6.99E-01
	Zr-95	0.00E+00	1.36E-04	1.54E-03	2.03E-03	3.71E-03	6.04E-01
	*Ni-59	0.00E+00	5.09E-05	7.98E-04	7.81E-04	1.63E-03	2.66E-01
	Cs-137	0.00E+00	4.35E-05	6.80E-04	6.09E-04	1.33E-03	2.17E-01
	Ag-110m	0.00E+00	3.48E-05	5.01E-04	4.95E-04	1.03E-03	1.68E-01
	Co-57	0.00E+00	2.94E-05	4.26E-04	4.17E-04	8.72E-04	1.42E-01

c. Other Waste	Nuclide	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Yr total	% Composition
		Ci	Ci	Ci	Ci	Ci	
	H-3	0.00E+00	0.00E+00	9.28E-03	0.00E+00	9.28E-03	9.81E+01
	*Fe-55	0.00E+00	0.00E+00	6.80E-05	0.00E+00	6.80E-05	7.19E-01
	*Ni-63	0.00E+00	0.00E+00	5.67E-05	0.00E+00	5.67E-05	5.99E-01
	Co-60	0.00E+00	0.00E+00	4.04E-05	0.00E+00	4.04E-05	4.27E-01

*Activities based on 10CFR61 scaling factors

Number of Shipments: 14

Mode of Transportation: Exclusive Use Vehicle

Destination: American Ecology Recycle Center, Oak Ridge, Tennessee (3);
 GTS Duratek, Oak Ridge, Tennessee (1);
 Allied Technology Group, Richland, Washington (5);
 Barnwell, Barnwell, South Carolina (3)
 Studsvik, Erwin, Tennessee (2)

B. IRRADIATED FUEL SHIPMENTS

No irradiated fuel shipments for January through December, 2000

BRAIDWOOD NUCLEAR POWER STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2000
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
RWS00-001	AU	STC	NONE
RWS00-002	B	NRC Type B	NONE
RWS00-003	B	NRC Type B	NONE
RWS00-004	AU	STC	NONE
RWS00-005	AU	STC	NONE
RWS00-006	AU	STC	NONE
RWS00-007	AU	DOT 7A Type A	NONE
RWS00-008	AU	STC	NONE
RWS00-009	AU	STC	NONE
RWS00-010	AU	STC	NONE
RWS00-011	AU	STC	NONE
RWS00-012	AU	STC	NONE
RWS00-013	C	STC	NONE
RWS00-014	AS	STC	NONE

BRAIDWOOD NUCLEAR POWER STATION
 RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2000
 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 2000.
2. There were no changes to the installed liquid, gaseous, or solid radwaste treatment systems in 2000.
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:

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.	<u>Gaseous Effluents</u>	<u>Est. Total Error %</u>
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.	<u>Liquid Effluents</u>	<u>Est. Total Error %</u>
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 2000 Revisions to the Commonwealth Edison Company (ComEd) Offsite Dose Calculation Manual (ODCM):

- Generic Section

There were no changes to the generic section in 2000.

- Site Specific Annexes

There were no changes to the site specific annexes in 2000.

Pursuant to Technical Specification 5.5.1, a copy of the entire ODCM is submitted as part of this report in Appendix C.

BRAIDWOOD NUCLEAR POWER STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2000
UNIT 1 AND 2 (Docket Numbers 50-456 and 50-457)

APPENDIX A

LLD Tables

BRAIDWOOD NUCLEAR POWER STATION
 RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2000
 UNIT 1 AND 2 (Docket Numbers 50-456 and 50-457)
 LLD VALUES FOR GASEOUS RELEASES

<u>Isotope</u>	<u>LLD (Ci/ml)</u>
Alpha	6.46E-22
H-3	5.00E-14
Ar-41	5.61E-14
Cr-51	1.36E-17
Mn-54	2.24E-18
Co-57	9.80E-19
Co-58	1.95E-18
Fe-59	3.64E-18
Co-60	3.14E-18
Kr-85	7.42E-12
Kr-85m	3.33E-14
Kr-87	5.81E-12
Kr-88	1.21E-11
Sr-89	3.69E-21
Sr-90	7.18E-21
Mo-99	1.40E-18
Sn-117m	1.12E-18
I-131	9.61E-19
Xe-131m	2.86E-13
I-132	9.53E-16
I-133	1.55E-18
Xe-133	9.86E-12
Xe-133m	2.56E-11
Cs-134	1.54E-18
I-134	1.34E-17
I-135	4.59E-17
Xe-135	2.82E-12
Xe-135m	1.24E-11
Cs-137	2.17E-18
Xe-138	4.19E-11
Ba-La-140	5.95E-18
Ce-141	2.22E-18
Ce-144	9.00E-18

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

BRAIDWOOD NUCLEAR POWER STATION
 RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2000
 UNIT 1 AND 2 (Docket Numbers 50-456 and 50-457)
 LLD VALUES FOR LIQUID RELEASES

<u>Isotope</u>	<u>LLD (Ci/ml)</u>
Alpha	5.92E-14
H-3	6.60E-12
Na-24	8.54E-14
Ar-41	1.25E-13
Cr-51	4.68E-13
Mn-54	7.80E-14
Fe-55	7.95E-13
Co-57	3.81E-14
Co-58	6.89E-14
Fe-59	1.45E-13
Co-60	7.90E-14
Ni-65	4.11E-13
Zn-65	1.31E-13
As-76	8.45E-14
Kr-85	8.76E-11
Kr-87	1.60E-13
Kr-88	2.03E-13
Sr-89 *	1.49E-13
Sr-90	4.20E-14
Nb-95	6.04E-14
Zr-95	1.09E-13
Nb-97	8.85E-14
Mo-99	2.77E-13
Tc-99m	3.55E-14
Ag-110m	4.43E-14
Sn-117m	4.54E-14
Sb-122	5.19E-14
Te-123m	1.00E-13
Sb-124	1.16E-14
Sb-125	1.38E-13
Te-125m	1.47E-11
Sb-126	6.20E-14
I-131	1.12E-13
Xe-131m	1.56E-12
Te-132	3.84E-14
I-133	5.47E-14
Xe-133	1.73E-13
Xe-133m	4.59E-13
Cs-134	5.28E-14
Xe-135	5.70E-14
Cs-137	5.24E-14
Cs-138	1.65E-13
Xe-138	1.60E-13
Ba-La-140	1.88E-13
Ce-141	1.08E-13
Ce-144	3.75E-13

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

* LLD value exceeded the ODCM required LLD of 5E-14 Ci/ml as discussed in the Supplemental Information, section 4.e of this report.

BRAIDWOOD NUCLEAR POWER STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2000
UNIT 1 AND 2 (Docket Numbers 50-456 and 50-457)

APPENDIX B

Supplemental Information

BRAIDWOOD NUCLEAR POWER STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2000
UNIT 1 AND 2 COMBINED (Docket Numbers 50-456 and 50-457)
BRAIDWOOD NUCLEAR POWER STATION

LIQUID EFFLUENTS
SUPPLEMENTAL RELEASE INFORMATION

A. Batch Release	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Total
1. Total Number of Batch Releases	58	57	49	53	217
2. Total Time Period for Batch Releases (minutes)	7223	10151	4303	9732	31409
3. Maximum Time Period for a Batch Release (minutes)	344	339	225	406	406
4. Average Time Period for a Batch Release	124.5	178.0	87.8	183.6	144.7
5. Minimum Time Period for a Batch Release (minutes)	25	53	48	48	25
6. Average Stream Flow During Periods of Release of Effluent into a Flowing Stream (liters/min)	3.71E+06	8.18E+06	6.95E+06	2.77E+06	N/A
B. Abnormal Releases					
1. Number of Releases	0	0	0	1	1
2. Total Activity Released (Ci)	0.00	0.00	0.00	1.05	1.05
3. Description					

The abnormal release was due to a vacuum breaker leak on the circulating water blowdown line which carries liquid effluent released from the liquid radwaste tanks to the river. Due to the vacuum breaker leak, some liquid effluent was discharged onto site property and migrated offsite into a ditch. This event is documented in the station's corrective actions program in Condition Report A2000-04281.

BRAIDWOOD NUCLEAR POWER STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2000
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	48	35	37	32	152
2. Total Time Period for Batch Releases (minutes)	10817	3119	1908	1580	17424
3. Maximum Time Period for a Batch Release (minutes)	4213	1652	297	61	4213
4. Average Time Period for a Batch Release	225.4	89.1	51.6	49.4	114.6
5. Minimum Time Period for a Batch Release (minutes)	30	29	19	30	19
B. Abnormal Releases					
1. Number of Releases	0	0	0	0	0
2. Total Activity Released	0.00	0.00	0.00	0.00	0.00

BRAIDWOOD NUCLEAR POWER STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2000
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	32	34	37	41	144
2. Total Time Period for Batch Releases (minutes)	1244	1343	1438	7898	11923
3. Maximum Time Period for a Batch Release (minutes)	48	47	51	2163	2163
4. Average Time Period for a Batch Release	38.9	39.5	38.9	192.6	82.8
5. Minimum Time Period for a Batch Release (minutes)	8	28	20	19	8
B. Abnormal Releases					
1. Number of Releases	0	0	0	0	0
2. Total Activity Released	0.00	0.00	0.00	0.00	0.00

BRAIDWOOD NUCLEAR POWER STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2000
UNIT COMMON (Docket Numbers 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	2	6	1	8	17
2. Total Time Period for Batch Releases (minutes)	242	885	70	988	2185
3. Maximum Time Period for a Batch Release (minutes)	125	228	70	265	265
4. Average Time Period for a Batch Release	121	147.5	70	123.5	128.5
5. Minimum Time Period for a Batch Release (minutes)	117	78	70	72	70
B. Abnormal Releases					
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 UNIT ONE

ACTUAL 2000

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 INFANT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	1.41E-05 (N)	1.04E-05 (N)	1.09E-05 (N)	1.13E-05 (N)	4.67E-05 (N)
BETA AIR (MRAD)	1.22E-05 (N)	1.04E-05 (N)	8.22E-06 (N)	1.07E-05 (N)	4.15E-05 (N)
TOT. BODY (MREM)	1.06E-05 (N)	7.75E-06 (N)	8.19E-06 (N)	8.49E-06 (N)	3.50E-05 (N)
SKIN (MREM)	1.98E-05 (N)	1.48E-05 (N)	1.50E-05 (N)	1.62E-05 (N)	6.59E-05 (N)
ORGAN (MREM)	5.60E-04 (N)	1.72E-03 (N)	8.17E-04 (N)	1.78E-04 (N)	3.28E-03 (N)
	THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	0.01	0.02	0.01	0.00	15.0	0.02
		THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	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 2000
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 CHILD RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	1.41E-05 (N)	1.04E-05 (N)	1.09E-05 (N)	1.13E-05 (N)	4.67E-05 (N)
BETA AIR (MRAD)	1.22E-05 (N)	1.04E-05 (N)	8.22E-06 (N)	1.07E-05 (N)	4.15E-05 (N)
TOT. BODY (MREM)	1.06E-05 (N)	7.75E-06 (N)	8.19E-06 (N)	8.49E-06 (N)	3.50E-05 (N)
SKIN (MREM)	1.98E-05 (N)	1.48E-05 (N)	1.50E-05 (N)	1.62E-05 (N)	6.59E-05 (N)
ORGAN (MREM)	5.95E-04 (N)	4.79E-02 (N)	3.21E-02 (N)	3.77E-03 (N)	8.44E-02 (N)
	THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	0.64	0.43	0.05	15.0	0.56
		THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	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 2000
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 TEENAGER RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	1.41E-05 (N)	1.04E-05 (N)	1.09E-05 (N)	1.13E-05 (N)	4.67E-05 (N)
BETA AIR (MRAD)	1.22E-05 (N)	1.04E-05 (N)	8.22E-06 (N)	1.07E-05 (N)	4.15E-05 (N)
TOT. BODY (MREM)	1.06E-05 (N)	7.75E-06 (N)	8.19E-06 (N)	8.49E-06 (N)	3.50E-05 (N)
SKIN (MREM)	1.98E-05 (N)	1.48E-05 (N)	1.50E-05 (N)	1.62E-05 (N)	6.59E-05 (N)
ORGAN (MREM)	4.68E-04 (N)	3.12E-02 (N)	2.08E-02 (N)	2.46E-03 (N)	5.50E-02 (N)
	THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	0.42	0.28	0.03	15.0	0.37
		THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	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 2000
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 ADULT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	1.41E-05 (N)	1.04E-05 (N)	1.09E-05 (N)	1.13E-05 (N)	4.67E-05 (N)
BETA AIR (MRAD)	1.22E-05 (N)	1.04E-05 (N)	8.22E-06 (N)	1.07E-05 (N)	4.15E-05 (N)
TOT. BODY (MREM)	1.06E-05 (N)	7.75E-06 (N)	8.19E-06 (N)	8.49E-06 (N)	3.50E-05 (N)
SKIN (MREM)	1.98E-05 (N)	1.48E-05 (N)	1.50E-05 (N)	1.62E-05 (N)	6.59E-05 (N)
ORGAN (MREM)	6.06E-04 (NE)	2.76E-02 (N)	1.83E-02 (N)	2.20E-03 (N)	4.86E-02 (N)
	THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	0.37	0.24	0.03	15.0	0.32
		THYROID	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	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 TWO

ACTUAL 2000
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 INFANT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	9.91E-06 (N)	1.26E-05 (N)	1.41E-05 (N)	1.02E-05 (N)	4.68E-05 (N)
BETA AIR (MRAD)	8.67E-06 (N)	1.07E-05 (N)	1.19E-05 (N)	1.24E-05 (N)	4.37E-05 (N)
TOT. BODY (MREM)	7.43E-06 (N)	9.48E-06 (N)	1.06E-05 (N)	7.57E-06 (N)	3.51E-05 (N)
SKIN (MREM)	1.40E-05 (N)	1.77E-05 (N)	1.98E-05 (N)	1.52E-05 (N)	6.66E-05 (N)
ORGAN (MREM)	1.78E-03 (N)	8.26E-04 (N)	5.35E-04 (N)	3.00E-04 (N)	3.44E-03 (N)
	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	0.02	0.01	0.01	0.00	15.0	0.02
		THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	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 TWO

ACTUAL 2000
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 CHILD RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	9.91E-06 (N)	1.26E-05 (N)	1.41E-05 (N)	1.02E-05 (N)	4.68E-05 (N)
BETA AIR (MRAD)	8.67E-06 (N)	1.07E-05 (N)	1.19E-05 (N)	1.24E-05 (N)	4.37E-05 (N)
TOT. BODY (MREM)	7.43E-06 (N)	9.48E-06 (N)	1.06E-05 (N)	7.57E-06 (N)	3.51E-05 (N)
SKIN (MREM)	1.40E-05 (N)	1.77E-05 (N)	1.98E-05 (N)	1.52E-05 (N)	6.66E-05 (N)
ORGAN (MREM)	1.89E-03 (N)	2.00E-02 (N)	2.09E-02 (N)	5.13E-04 (N)	4.33E-02 (N)
	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	0.03	0.27	0.28	0.01	15.0	0.29
		THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	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 TWO

ACTUAL 2000

MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES

PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
TEENAGER RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	9.91E-06 (N)	1.26E-05 (N)	1.41E-05 (N)	1.02E-05 (N)	4.68E-05 (N)
BETA AIR (MRAD)	8.67E-06 (N)	1.07E-05 (N)	1.19E-05 (N)	1.24E-05 (N)	4.37E-05 (N)
TOT. BODY (MREM)	7.43E-06 (N)	9.48E-06 (N)	1.06E-05 (N)	7.57E-06 (N)	3.51E-05 (N)
SKIN (MREM)	1.40E-05 (N)	1.77E-05 (N)	1.98E-05 (N)	1.52E-05 (N)	6.66E-05 (N)
ORGAN (MREM)	1.49E-03 (N)	1.31E-02 (N)	1.36E-02 (N)	3.76E-04 (N)	2.85E-02 (N)
	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	0.02	0.17	0.18	0.01	15.0	0.19
		THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	THYROID		THYROID

RESULTS BASED UPON:

ODCM ANNEX REVISION 2 DECEMBER 1996
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BRAIDWOOD STATION UNIT TWO

ACTUAL 2000
 MAXIMUM DOSES RESULTING FROM AIRBORNE RELEASES
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 ADULT RECEPTOR

TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
GAMMA AIR (MRAD)	9.91E-06 (N)	1.26E-05 (N)	1.41E-05 (N)	1.02E-05 (N)	4.68E-05 (N)
BETA AIR (MRAD)	8.67E-06 (N)	1.07E-05 (N)	1.19E-05 (N)	1.24E-05 (N)	4.37E-05 (N)
TOT. BODY (MREM)	7.43E-06 (N)	9.48E-06 (N)	1.06E-05 (N)	7.57E-06 (N)	3.51E-05 (N)
SKIN (MREM)	1.40E-05 (N)	1.77E-05 (N)	1.98E-05 (N)	1.52E-05 (N)	6.66E-05 (N)
ORGAN (MREM)	1.92E-03 (NE)	1.15E-02 (N)	1.20E-02 (N)	3.80E-04 (N)	2.55E-02 (N)
	THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	THYROID	THYROID

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	0.03	0.15	0.16	0.01	15.0	0.17
		THYROID	LIVER THYROID KIDNEY LUNG GI_LLI	THYROID	THYROID		THYROID

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 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	3.99E-02	5.68E-02	3.07E-02	2.45E-02	1.52E-01
INTERNAL ORGAN	3.99E-02	5.68E-02	3.07E-02	2.45E-02	1.52E-01
	LIVER	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	2.66	3.78	2.05	1.63	3.0	5.06
CRIT. ORGAN (MREM)	5.0	0.80	1.14	0.61	0.49	10.0	1.52
	LIVER	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI

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

2000 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *

PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY INTERNAL ORGAN	3.99E-02	5.68E-02	3.07E-02	2.45E-02	1.52E-01
	LIVER	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY INTERNAL ORGAN	4.0 MREM	3.797
	4.0 MREM	3.797

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 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	4.03E-02	5.73E-02	3.10E-02	2.48E-02	1.53E-01
INTERNAL ORGAN	4.06E-02	5.76E-02	3.10E-02	2.51E-02	1.54E-01
	LIVER	GI_LLI	LIVER	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	2.69	3.82	2.07	1.65	3.0	5.11
CRIT. ORGAN (MREM)	5.0	0.81	1.15	0.62	0.50	10.0	1.54
	LIVER	GI_LLI	LIVER	GI_LLI		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

2000 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *

PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY INTERNAL ORGAN	4.01E-02	5.71E-02	3.09E-02	2.46E-02	1.53E-01
	4.02E-02	5.72E-02	3.09E-02	2.49E-02	1.53E-01
	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY INTERNAL ORGAN	4.0 MREM	3.819
	4.0 MREM	3.831

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 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 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-02	3.00E-02	1.63E-02	1.30E-02	8.05E-02
INTERNAL ORGAN	2.15E-02	3.08E-02	1.63E-02	1.38E-02	8.23E-02
	LIVER	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	1.42	2.00	1.08	0.86	3.0	2.68
CRIT. ORGAN (MREM)	5.0	0.43	0.62	0.33	0.28	10.0	0.82
	LIVER	GI_LLI	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
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BRAIDWOOD STATION UNIT ONE

2000 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *

PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	2.09E-02	2.98E-02	1.61E-02	1.28E-02	7.97E-02
INTERNAL ORGAN	2.12E-02	3.01E-02	1.62E-02	1.34E-02	8.08E-02
	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY	4.0 MREM	1.992
INTERNAL ORGAN	4.0 MREM	2.021
		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 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.55E-02	2.17E-02	1.18E-02	9.35E-03	5.83E-02
INTERNAL ORGAN	1.56E-02	2.26E-02	1.18E-02	1.02E-02	6.02E-02
	LIVER	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	1.03	1.44	0.78	0.62	3.0	1.94
CRIT. ORGAN (MREM)	5.0	0.31	0.45	0.24	0.20	10.0	0.60
	LIVER	GI_LLI	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
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BRAIDWOOD STATION UNIT ONE

2000 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *

PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY INTERNAL ORGAN	1.50E-02	2.14E-02	1.16E-02	9.19E-03	5.71E-02
	1.52E-02	2.16E-02	1.16E-02	9.64E-03	5.81E-02
	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY INTERNAL ORGAN	4.0 MREM	1.428
	4.0 MREM	1.453

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 TWO

ACTUAL 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	3.99E-02	5.68E-02	3.07E-02	2.45E-02	1.52E-01
INTERNAL ORGAN	3.99E-02	5.68E-02	3.07E-02	2.45E-02	1.52E-01
	LIVER	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	2.66	3.78	2.05	1.63	3.0	5.06
CRIT. ORGAN (MREM)	5.0	0.80	1.14	0.61	0.49	10.0	1.52
	LIVER	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
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BRAIDWOOD STATION UNIT TWO

2000 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *

PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 INFANT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY INTERNAL ORGAN	3.99E-02	5.68E-02	3.07E-02	2.45E-02	1.52E-01
	LIVER	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY INTERNAL ORGAN	4.0 MREM	3.797
	4.0 MREM	3.797
		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 TWO

ACTUAL 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	4.03E-02	5.73E-02	3.10E-02	2.48E-02	1.53E-01
INTERNAL ORGAN	4.06E-02	5.76E-02	3.10E-02	2.51E-02	1.54E-01
	LIVER	GI_LLI	LIVER	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	2.69	3.82	2.07	1.65	3.0	5.11
CRIT. ORGAN (MREM)	5.0	0.81	1.15	0.62	0.50	10.0	1.54
	LIVER	GI_LLI	LIVER	GI_LLI		GI_LLI	

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

2000 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *

PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01

CHILD RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	4.01E-02	5.71E-02	3.09E-02	2.46E-02	1.53E-01
INTERNAL ORGAN	4.02E-02	5.72E-02	3.09E-02	2.49E-02	1.53E-01
	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY	4.0 MREM	3.819
INTERNAL ORGAN	4.0 MREM	3.831
		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 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 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-02	3.00E-02	1.63E-02	1.30E-02	8.05E-02
INTERNAL ORGAN	2.15E-02	3.08E-02	1.63E-02	1.38E-02	8.23E-02
	LIVER	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	1.42	2.00	1.08	0.86	3.0	2.68
CRIT. ORGAN (MREM)	5.0	0.43	0.62	0.33	0.28	10.0	0.82
	LIVER	GI_LLI	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

2000 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 TEENAGER RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY INTERNAL ORGAN	2.09E-02	2.98E-02	1.61E-02	1.28E-02	7.97E-02
	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY INTERNAL ORGAN	4.0 MREM	1.992
	4.0 MREM	2.021
		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 2000
 MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS
 PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
 ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY	1.55E-02	2.17E-02	1.18E-02	9.35E-03	5.83E-02
INTERNAL ORGAN	1.56E-02	2.26E-02	1.18E-02	1.02E-02	6.02E-02
	LIVER	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

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	1.03	1.44	0.78	0.62	3.0	1.94
CRIT. ORGAN (MREM)	5.0	0.31	0.45	0.24	0.20	10.0	0.60
	LIVER	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

2000 ANNUAL REPORT

PROJECTED DOSE AT NEAREST COMMUNITY WATER SYSTEM *

PERIOD OF RELEASE - 01/01/00 TO 12/31/00 CALCULATED 04/19/01
ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL BODY INTERNAL ORGAN	1.50E-02	2.14E-02	1.16E-02	9.19E-03	5.71E-02
	1.52E-02	2.16E-02	1.16E-02	9.64E-03	5.81E-02
	GI_LLI	GI_LLI	GI_LLI	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 2000

COMPLIANCE STATUS - 40 CFR 141

TYPE	ANNUAL LIMIT	% OF LIMIT
TOTAL BODY INTERNAL ORGAN	4.0 MREM	1.428
	4.0 MREM	1.453
		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 01/01/00 TO 12/31/00

CALCULATED 04/19/01

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

Total Effective Dose Equivalent, mrem/yr	<u>6.71E-02</u>
10 CFR 20.1301 (a) (1) limit	<u>100.0</u>
% of limit	<u>0.07</u>

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	1.02E-02	3.07E-02	1.86E-02	7.58E-03	0.07

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 01/01/00 TO 12/31/00

CALCULATED 04/19/01

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

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	<u>3.50E-05</u>		
	Skyshine	<u>0.00E+00</u>		
	Ground	<u>1.51E-06</u>		
	Total	<u>3.65E-05</u>	<u>25.0</u>	<u>0.00</u>
Organ Dose (CDE)	Thyroid	<u>6.65E-02</u>	<u>75.0</u>	<u>0.09</u>
	Gonads	<u>6.70E-02</u>	<u>25.0</u>	<u>0.27</u>
	Breast	<u>6.65E-02</u>	<u>25.0</u>	<u>0.27</u>
	Lung	<u>6.65E-02</u>	<u>25.0</u>	<u>0.27</u>
	Marrow	<u>6.67E-02</u>	<u>25.0</u>	<u>0.27</u>
	Bone	<u>6.76E-02</u>	<u>25.0</u>	<u>0.27</u>
	Remainder	<u>6.79E-02</u>	<u>25.0</u>	<u>0.27</u>
	CEDE	<u>6.71E-02</u>		
TEDE	<u>6.71E-02</u>	<u>100.0</u>	<u>0.07</u>	

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 01/01/00 TO 12/31/00

CALCULATED 04/19/01

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

Total Effective Dose Equivalent, mrem/yr	<u>5.31E-02</u>
10 CFR 20.1301 (a) (1) limit	<u>100.0</u>
% of limit	<u>0.05</u>

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	1.12E-02	2.07E-02	1.47E-02	6.58E-03	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 01/01/00 TO 12/31/00

CALCULATED 04/19/01

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

		Dose (mrem)	Limit (mrem)	% of Limit
Whole Body (DDE)	Plume	<u>3.51E-05</u>		
	Skyshine	<u>0.00E+00</u>		
	Ground	<u>1.28E-07</u>		
	Total	<u>3.52E-05</u>	<u>25.0</u>	<u>0.00</u>
Organ Dose (CDE)	Thyroid	<u>5.24E-02</u>	<u>75.0</u>	<u>0.07</u>
	Gonads	<u>5.30E-02</u>	<u>25.0</u>	<u>0.21</u>
	Breast	<u>5.25E-02</u>	<u>25.0</u>	<u>0.21</u>
	Lung	<u>5.25E-02</u>	<u>25.0</u>	<u>0.21</u>
	Marrow	<u>5.27E-02</u>	<u>25.0</u>	<u>0.21</u>
	Bone	<u>5.36E-02</u>	<u>25.0</u>	<u>0.21</u>
	Remainder	<u>5.39E-02</u>	<u>25.0</u>	<u>0.22</u>
	CEDE	<u>5.31E-02</u>		
TEDE	<u>5.31E-02</u>	<u>100.0</u>	<u>0.05</u>	

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

BRAIDWOOD NUCLEAR POWER STATION
RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2000
UNIT 1 AND 2 (Docket Numbers 50-456 and 50-457)

APPENDIX C

Offsite Dose Calculation Manual