

REVISED TABLE 3.2-1

BRAIDWOOD STATION UNIT ONE

ACTUAL 1995

MAXIMUM DOSES (MREM) RESULTING FROM AQUATIC EFFLUENTS

PERIOD OF RELEASE - 01/01/95 TO 12/31/95 CALCULATED 08/19/96

ADULT RECEPTOR

DOSE TYPE	1ST QUARTER JAN-MAR	2ND QUARTER APR-JUN	3RD QUARTER JUL-SEP	4TH QUARTER OCT-DEC	ANNUAL
TOTAL	1.34E-02	1.24E-02	1.39E-02	8.65E-03	4.84E-02
BODY					
INTERNAL	1.68E-02	1.25E-02	1.54E-02	1.78E-02	5.93E-02
ORGAN					
	LIVER	GI_LLI	LIVER	GI_LLI	GI_LLI

THIS IS A REPORT FOR THE CALENDAR YEAR 1995

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	0.90	0.83	0.93	0.58	3.0	1.61
CRIT. ORGAN(MREM)	5.0	0.34	0.25	0.31	0.36	10.0	0.59
		LIVER	GI_LLI	LIVER	GI_LLI		GI_LLI

RESULTS BASED UPON:

ODCM SOFTWARE VERSION 1.1 January 1995

ODCM DATABASE VERSION 1.1 January 1995

REVISED TABLE 3.2-1 (Continued)

BRAIDWOOD STATION UNIT TWO
 ACTUAL 1995
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		LIVER	GI_LLI	LIVER	GI_LLI		GI_LLI

RESULTS BASED UPON:

ODCM SOFTWARE VERSION 1.1 January 1995
 ODCM DATABASE VERSION 1.1 January 1995

REVISED TABLE 3.3-1

BRAIDWOOD STATION UNIT ONE

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/95 TO 12/31/95

CALCULATED 08/19/96

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

Total Effective Dose Equivalent, mrem/yr 3.49E-02

10 CFR 20.1301 (a)(1) limit mrem/yr 100.0

% of limit 0.03

Compliance Summary - 10CFR20

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	% of Limit
TEDE	9.18E-03	7.79E-03	9.60E-03	8.35E-03	0.03

RESULTS BASED UPON:

ODCM SOFTWARE VERSION 1.1 January 1995
ODCM DATABASE VERSION 1.1 January 1995

REVISED TABLE 3.3-1 (Continued)

BRAIDWOOD STATION UNIT TWO

10 CFR 20 COMPLIANCE ASSESSMENT

PERIOD OF ASSESSMENT 01/01/95 TO 12/31/95

CALCULATED 08/19/96

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

Total Effective Dose Equivalent, mrem/yr 4.65E-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	9.32E-03	7.76E-03	1.44E-02	1.50E-02	0.05

RESULTS BASED UPON:

ODCM SOFTWARE VERSION 1.1 January 1995

ODCM DATABASE VERSION 1.1 January 1995

Revised Section 3.2 Liquid Effluent Pathways

1994 .

The three principal pathways through the aquatic environment for potential doses to man from liquid waste are the ingestion of potable water, eating aquatic foods, and exposure while walking on the shoreline. Not all of these pathways are significant or applicable at a given time or station but a reasonable approximation of the dose can be made by adjusting the dose formula for season of the year or type and degree of use of the aquatic environment. NRC developed equations* were used to calculate the doses to the whole body, lower GI tracts, thyroid, bone, skin; specific parameters for use in the equations are given in the ComEd Offsite Dose Calculation Manual. The maximum whole body dose for the year was $4.16\text{E-}02$ mrem and no organ dose exceeded $5.02\text{E-}02$ mrem (Table 3.2-1).

1995

The three principal pathways through the aquatic environment for potential doses to man from liquid waste are the ingestion of potable water, eating aquatic foods, and exposure while walking on the shoreline. Not all of these pathways are significant or applicable at a given time or station but a reasonable approximation of the dose can be made by adjusting the dose formula for season of the year or type and degree of use of the aquatic environment. NRC developed equations* were used to calculate the doses to the whole body, lower GI tracts, thyroid, bone, skin; specific parameters for use in the equations are given in the ComEd Offsite Dose Calculation Manual. The maximum whole body dose for the year was $4.84\text{E-}02$ mrem and no organ dose exceeded $5.93\text{E-}02$ mrem (Table 3.2-1).

*Nuclear Regulatory Commission, Regulatory Guide 1.109 (Rev. 1).