



Entergy

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JAFP-10-0088
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U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

**Subject: Corrections to the 2004, 2005, 2006, 2007, and 2008 Annual
Radioactive Effluent Release Reports
Entergy Nuclear Operations, Inc.
James A. FitzPatrick Nuclear Power Plant
Docket No. 50-333
License No. DPR-59**

Dear Sir or Madam:

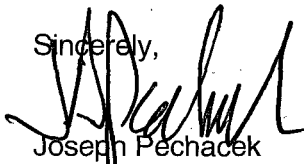
Enclosure 1 to this letter provides revisions to the 2004, 2005, 2006, 2007, and 2008 James A. FitzPatrick Nuclear Power Plant's (JAF) Annual Radioactive Effluent Release Reports. These corrections are based on application of a factor in the software that was not updated prior to the preparation of the reports.

Enclosure 1 includes a corrected Table 1A and corrected Addendum 1 Table 1, for each of the referenced years. The format used for the effluent data is outlined in Appendix B of Regulatory Guide 1.21, Revision 1. Distribution is in accordance with Regulatory Guide 10.1, Revision 4.

There are no commitments contained in this letter.

If you have any questions concerning the enclosed report corrections, please contact Laurie Rayle, Chemistry Manager, at (315) 349-6748.

Sincerely,


Joseph Pechacek
Licensing Manager - JAF

JP/LR/ewd

Enclosure: Corrected Tables

cc: next page

JE48
NRR

cc: Samuel Collins (USNRC Region 1 Administrator)
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Document Components:

001 JAFP-10-0088 with Enclosure

JAFP-10-0088

ENCLOSURE 1

**Corrected Tables
(11 Pages with Index)**

Enclosure 1 Index

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ENTERGY NUCLEAR OPERATIONS, INC.
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
 JANUARY 2004-DECEMBER 2004

**TABLE 1A
 GASEOUS EFFLUENTS--SUMMATION OF ALL RELEASES**

	<u>UNIT</u>	<u>QTR 1</u>	<u>QTR 2</u>	<u>QTR 3</u>	<u>QTR 4</u>	<u>EST TOTAL ERROR %</u>
A. FISSION AND ACTIVATION GASES						
1. Total Release	Ci	7.16E+01	1.24E+02	5.36E+02	2.34E+02	≤2.50E+01
2. Average release rate for period	μCi/sec	9.11E+00	1.58E+01	6.75E+01	2.94E+01	
3. Applicable ODCM Limit	%	*	*	*	*	
B. IODINE-131						
1. Total Iodine-131	Ci	3.75E-04	2.95E-04	3.25E-03	1.51E-03	≤2.50E+01
2. Average release rate for period	μCi/sec	4.77E-05	3.75E-05	4.10E-04	1.89E-04	
3. Applicable ODCM Limit	%	*	*	*	*	
C. PARTICULATES						
1. Particulates with half-lives >8 days	Ci	2.42E-04	2.23E-04	3.82E-04	6.24E-04	≤3.60E+01
2. Average release rate for period	μCi/sec	3.08E-05	2.84E-05	4.81E-05	7.85E-05	
3. Applicable ODCM Limit	%	*	*	*	*	
4. Gross alpha radioactivity	Ci	1.49E-07	4.75E-07	2.95E-07	1.00E-06	≤2.50E+01
D. TRITIUM						
1. Total Release	Ci	3.54E+00	3.71E+00	6.27E+00	3.57E+00	≤2.50E+01
2. Average release rate for period	μCi/sec	4.50E-01	4.72E-01	7.89E-01	4.49E-01	
3. Applicable ODCM Limit	%	*	*	*	*	
*E. PERCENT OF APPLICABLE ODCM LIMITS						
FISSION AND ACTIVATION GASES						
1. Quarterly gamma air dose limit	%	1.29E-02	4.42E-02	2.51E-01	1.54E-01	
2. Quarterly beta air dose limit	%	1.09E-03	5.18E-03	3.11E-02	2.06E-02	
3. Yearly gamma air dose limit	%	6.45E-03	2.21E-02	1.25E-01	7.71E-02	
4. Yearly beta air dose limit	%	5.43E-04	2.59E-03	1.55E-02	1.03E-02	
5. Whole body dose rate limit	%	2.43E-03	4.59E-03	2.68E-02	7.87E-02	
6. Skin dose rate limit	%	4.98E-04	1.08E-03	5.54E-03	1.78E-02	
HALOGENS, TRITIUM AND PARTICULATES WITH HALF-LIVES >8 DAYS						
7. Quarterly dose limit (organ)	%	7.15E-02	5.68E-02	5.85E-01	2.64E-01	
8. Yearly dose limit (organ)	%	3.58E-02	2.84E-02	2.93E-01	1.32E-01	
9. Organ dose rate limit	%	9.73E-05	3.15E-05	8.40E-04	8.40E-04	

ENTERGY NUCLEAR OPERATIONS, INC.
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
 JANUARY 2004-DECEMBER 2004

ADDENDUM 1 (continued)

**TABLE 1
 ANNUAL DOSE ASSESSMENT 2004**

A. LIQUIDS					
<u>QUARTER</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>ANNUAL</u>
	(a)	(a)	(a)	(a)	(a)
Organ (mrem)	1.02E-07	4.46E-07	4.83E-06	2.33E-06	7.71E-06
% of Limit	2.04E-06	8.92E-06	9.66E-05	4.66E-05	7.71E-05
	(b)	(b)	(b)	(b)	(b)
Whole Body (mrem)	1.02E-07	4.46E-07	4.83E-06	2.33E-06	7.71E-06
% of Limit	6.80E-06	2.97E-05	3.22E-04	1.55E-04	2.57E-04

(a) Dose to the Child Liver primarily by the potable water pathway.
 (b) Dose to the Child Whole Body primarily by the potable water pathway.

B. NOBLE GASES					
<u>QUARTER</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>ANNUAL</u>
Total Body (mrem/yr)	1.22E-02	2.29E-02	1.34E-01	3.93E-01	3.93E-01
% of Limit	2.43E-03	4.59E-03	2.68E-02	7.87E-02	7.87E-02
Skin (mrem/yr)	1.49E-02	3.25E-02	1.66E-01	5.33E-01	5.33E-01
% of Limit	4.94E-04	1.08E-03	5.54E-03	1.78E-02	1.78E-02
Gamma (mrad)	6.45E-04	2.21E-03	1.25E-02	7.71E-03	2.31E-02
% of Limit	1.29E-02	4.42E-02	2.51E-01	1.54E-01	2.31E-01
Beta (mrad)	1.09E-04	5.18E-04	3.11E-03	2.06E-03	5.80E-03
% of Limit	1.09E-03	5.18E-03	3.11E-02	2.06E-02	2.90E-02

ENTERGY NUCLEAR OPERATIONS, INC.
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
 JANUARY 2005-DECEMBER 2005

**TABLE 1A
 GASEOUS EFFLUENTS--SUMMATION OF ALL RELEASES**

	<u>UNIT</u>	<u>QTR 1</u>	<u>QTR 2</u>	<u>QTR 3</u>	<u>QTR 4</u>	<u>EST TOTAL ERROR %</u>
A. FISSION AND ACTIVATION GASES						
1. Total Release	Ci	1.13E+03	2.49E+02	2.22E+03	7.71E+02	≤2.50E+01
2. Average release rate for period	μCi/sec	1.44E+02	3.17E+01	2.79E+02	9.70E+01	
3. Applicable ODCM Limit	%	*	*	*	*	
B. IODINE-131						
1. Total Iodine-131	Ci	2.72E-03	7.85E-04	5.35E-03	4.93E-04	≤2.50E+01
2. Average release rate for period	μCi/sec	3.46E-04	9.99E-05	6.73E-04	6.21E-05	
3. Applicable ODCM Limit	%	*	*	*	*	
C. PARTICULATES						
1. Particulates with half-lives >8 days	Ci	6.52E-04	1.12E-03	9.94E-04	7.53E-04	≤3.60E+01
2. Average release rate for period	μCi/sec	8.29E-05	1.42E-04	1.25E-04	9.47E-05	
3. Applicable ODCM Limit	%	*	*	*	*	
4. Gross alpha radioactivity	Ci	3.14E-07	3.82E-07	4.40E-07	6.54E-07	≤2.50E+01
D. TRITIUM						
1. Total Release	Ci	3.81E+00	3.24E+00	4.54E+00	5.55E+00	≤2.50E+01
2. Average release rate for period	μCi/sec	4.84E-01	4.12E-01	5.71E-01	6.98E-01	
3. Applicable ODCM Limit	%	*	*	*	*	
- *E. PERCENT OF APPLICABLE ODCM LIMITS						
FISSION AND ACTIVATION GASES						
1. Quarterly gamma air dose limit	%	5.37E-01	1.54E-01	1.17E+00	4.38E-01	
2. Quarterly beta air dose limit	%	6.71E-02	3.42E-02	1.25E-01	1.07E-01	
3. Yearly gamma air dose limit	%	2.68E-01	7.71E-02	5.86E-01	2.19E-01	
4. Yearly beta air dose limit	%	3.36E-02	1.71E-02	6.25E-02	5.35E-02	
5. Whole body dose rate limit	%	1.41E-01	9.86E-03	8.79E-01	7.64E-02	
6. Skin dose rate limit	%	3.04E-02	2.57E-03	1.89E-01	2.75E-02	
HALOGENS, TRITIUM AND PARTICULATES WITH HALF-LIVES >8 DAYS						
7. Quarterly dose limit (organ)	%	3.69E-01	1.37E-01	7.25E-01	8.34E-02	
8. Yearly dose limit (organ)	%	1.84E-01	6.87E-02	3.63E-01	4.17E-02	
9. Organ dose rate limit	%	3.72E-04	6.29E-05	4.07E-04	6.08E-05	

ENTERGY NUCLEAR OPERATIONS, INC.
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
 JANUARY 2005-DECEMBER 2005

ADDENDUM 1 (continued)

**TABLE 1
 ANNUAL DOSE ASSESSMENT 2005**

A. LIQUIDS					
QUARTER	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>ANNUAL</u>
	(a)	(a)	(a)	(a)	(a)
Organ (mrem)	9.89E-07	1.23E-06	1.32E-05	1.39E-06	1.68E-05
% of Limit	1.98E-05	2.46E-05	2.63E-04	2.78E-05	1.68E-04
	(b)	(b)	(b)	(b)	(b)
Whole Body (mrem)	9.89E-07	1.23E-06	1.32E-05	1.39E-06	1.68E-05
% of Limit	6.60E-05	8.19E-05	8.78E-04	9.22E-05	5.59E-04

(a) Dose to the Child Liver primarily by the potable water pathway.

(b) Dose to the Child Whole Body primarily by the potable water pathway.

B. NOBLE GASES					
QUARTER	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>ANNUAL</u>
Total Body (mrem/yr)	7.03E-01	4.93E-02	4.39E+00	3.82E-01	4.39E+00
% of Limit	1.41E-01	9.86E-03	8.79E-01	7.64E-02	8.79E-01
Skin (mrem/yr)	9.12E-01	7.71E-02	5.67E+00	8.24E-01	5.67E+00
% of Limit	3.04E-02	2.57E-03	1.89E-01	2.75E-02	1.89E-01
Gamma (mrad)	2.68E-02	7.71E-03	5.86E-02	2.19E-02	1.15E-01
% of Limit	5.37E-01	1.54E-01	1.17E+00	4.38E-01	1.15E+00
Beta (mrad)	6.71E-03	3.42E-03	1.25E-02	1.07E-02	3.33E-02
% of Limit	6.71E-02	3.42E-02	1.25E-01	1.07E-01	1.67E-01

ENTERGY NUCLEAR OPERATIONS, INC.
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
 JANUARY 2006-DECEMBER 2006

TABLE 1A
GASEOUS EFFLUENTS--SUMMATION OF ALL RELEASES

	<u>UNIT</u>	<u>QTR 1</u>	<u>QTR 2</u>	<u>QTR 3</u>	<u>QTR 4</u>	<u>EST TOTAL ERROR %</u>
A. FISSION AND ACTIVATION GASES						
1. Total Release	Ci	4.14E+02	4.02E+02	3.87E+02	8.43E+01	≤2.50E+01
2. Average release rate for period	μCi/sec	5.27E+01	5.11E+01	4.86E+01	1.06E+01	
3. Applicable ODCM Limit	%	*	*	*	*	
B. IODINE-131						
1. Total Iodine-131	Ci	5.80E-04	5.84E-04	3.97E-04	2.21E-03	≤2.50E+01
2. Average release rate for period	μCi/sec	7.37E-05	7.43E-05	4.99E-05	2.78E-04	
3. Applicable ODCM Limit	%	*	*	*	*	
C. PARTICULATES						
1. Particulates with half-lives >8 days	Ci	4.82E-04	6.60E-04	5.93E-04	2.87E-04	≤3.60E+01
2. Average release rate for period	μCi/sec	6.14E-05	8.39E-05	7.46E-05	3.61E-05	
3. Applicable ODCM Limit	%	*	*	*	*	
4. Gross alpha radioactivity	Ci	4.52E-07	1.26E-07	3.88E-07	4.60E-07	≤2.50E+01
D. TRITIUM						
1. Total Release	Ci	3.99E+00	3.41E+00	4.48E+00	5.19E+00	≤2.50E+01
2. Average release rate for period	μCi/sec	5.07E-01	4.34E-01	5.64E-01	6.52E-01	
3. Applicable ODCM Limit	%	*	*	*	*	
*E. PERCENT OF APPLICABLE ODCM LIMITS						
FISSION AND ACTIVATION GASES						
1. Quarterly gamma air dose limit	%	2.39E-01	2.32E-01	2.41E-01	3.31E-02	
2. Quarterly beta air dose limit	%	2.12E-01	1.10E-01	7.34E-02	8.54E-03	
3. Yearly gamma air dose limit	%	1.19E-01	1.16E-01	1.20E-01	1.66E-02	
4. Yearly beta air dose limit	%	1.06E-01	5.48E-02	3.67E-02	4.27E-03	
5. Whole body dose rate limit	%	3.60E-02	5.50E-02	1.29E-02	1.24E-02	
6. Skin dose rate limit	%	1.03E-02	1.53E-02	4.70E-03	3.46E-03	
HALOGENS, TRITIUM AND PARTICULATES WITH HALF-LIVES >8 DAYS						
7. Quarterly dose limit (organ)	%	9.01E-02	9.28E-02	6.37E-02	3.72E-01	
8. Yearly dose limit (organ)	%	4.51E-02	4.64E-02	3.18E-02	1.86E-01	
9. Organ dose rate limit	%	5.00E-05	3.87E-05	2.01E-05	6.18E-04	

ENTERGY NUCLEAR OPERATIONS, INC.
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
 JANUARY 2006-DECEMBER 2006

ADDENDUM 1 (continued)

**TABLE 1
 ANNUAL DOSE ASSESSMENT 2006**

A. LIQUIDS

<u>QUARTER</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>ANNUAL</u>
	(a)	(a)	(a)	(a)	(a)
Organ (mrem)	1.29E-06	4.78E-06	2.80E-06	1.32E-05	2.21E-05
% of Limit	2.57E-05	9.57E-05	5.61E-05	2.63E-04	2.21E-04
	(b)	(b)	(b)	(b)	(b)
Whole Body (mrem)	1.29E-06	4.78E-06	2.80E-06	1.32E-05	2.21E-05
% of Limit	8.58E-05	3.19E-04	1.87E-04	8.50E-04	7.37E-04

(a) Dose to the Child Liver primarily by the potable water pathway.

(b) Dose to the Child Whole Body primarily by the potable water pathway.

B. NOBLE GASES

<u>QUARTER</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>ANNUAL</u>
Total Body (mrem/yr)	1.80E-01	2.75E-01	6.43E-02	6.20E-02	2.75E-01
% of Limit	3.60E-02	5.50E-02	1.29E-02	1.24E-02	5.50E-02
Skin (mrem/yr)	3.09E-01	4.60E-01	1.41E-01	1.04E-01	4.60E-01
% of Limit	1.03E-02	1.53E-02	4.70E-03	3.46E-03	1.53E-02
Gamma (mrad)	1.19E-02	1.16E-02	1.20E-02	1.66E-03	3.72E-02
% of Limit	2.39E-01	2.32E-01	2.41E-01	3.31E-02	3.72E-01
Beta (mrad)	2.12E-02	1.10E-02	7.34E-03	8.54E-04	4.03E-02
% of Limit	2.12E-01	1.10E-01	7.34E-02	8.54E-03	2.02E-01

ENTERGY NUCLEAR OPERATIONS, INC.
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
 JANUARY 2007-DECEMBER 2007

TABLE 1A
GASEOUS EFFLUENTS--SUMMATION OF ALL RELEASES

	<u>UNIT</u>	<u>QTR 1</u>	<u>QTR 2</u>	<u>QTR 3</u>	<u>QTR 4</u>	<u>EST TOTAL ERROR %</u>
A. FISSION AND ACTIVATION GASES						
1. Total Release	Ci	4.62E+01	2.67E+02	1.60E+02	1.50E+02	≤2.50E+01
2. Average release rate for period	μCi/sec	5.87E+00	3.40E+01	2.02E+01	1.89E+01	
3. Applicable ODCM Limit	%	*	*	*	*	
B. IODINE-131						
1. Total Iodine-131	Ci	2.04E-04	1.27E-03	9.26E-04	6.57E-04	≤2.50E+01
2. Average release rate for period	μCi/sec	2.59E-05	1.62E-04	1.17E-04	8.27E-05	
3. Applicable ODCM Limit	%	*	*	*	*	
C. PARTICULATES						
1. Particulates with half-lives >8 days	Ci	1.01E-04	1.30E-04	1.48E-04	7.72E-05	≤3.60E+01
2. Average release rate for period	μCi/sec	1.29E-05	1.65E-05	1.87E-05	9.71E-06	
3. Applicable ODCM Limit	%	*	*	*	*	
4. Gross alpha radioactivity	Ci	3.91E-07	3.83E-07	6.97E-07	3.71E-07	≤2.50E+01
D. TRITIUM						
1. Total Release	Ci	4.17E+00	3.11E+00	3.59E+00	3.09E+00	≤2.50E+01
2. Average release rate for period	μCi/sec	5.30E-01	3.97E-01	4.51E-01	3.89E-01	
3. Applicable ODCM Limit	%	*	*	*	*	
*E. PERCENT OF APPLICABLE ODCM LIMITS						
FISSION AND ACTIVATION GASES						
1. Quarterly gamma air dose limit	%	1.47E-02	1.16E-01	6.70E-02	6.70E-02	
2. Quarterly beta air dose limit	%	9.22E-04	9.76E-03	5.46E-03	4.91E-03	
3. Yearly gamma air dose limit	%	7.34E-03	5.80E-02	3.35E-02	3.35E-02	
4. Yearly beta air dose limit	%	4.61E-04	4.88E-03	2.73E-03	2.46E-03	
5. Whole body dose rate limit	%	1.97E-03	1.26E-01	3.25E-02	1.09E-01	
6. Skin dose rate limit	%	3.99E-04	2.75E-02	7.15E-03	2.18E-02	
HALOGENS, TRITIUM AND PARTICULATES WITH HALF-LIVES >8 DAYS						
7. Quarterly dose limit (organ)	%	3.92E-02	1.65E-01	1.19E-01	8.96E-02	
8. Yearly dose limit (organ)	%	1.96E-02	8.26E-02	5.97E-02	4.48E-02	
9. Organ dose rate limit	%	2.13E-05	5.27E-05	3.70E-05	2.71E-05	

ENTERGY NUCLEAR OPERATIONS, INC.
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
 JANUARY 2007-DECEMBER 2007

ADDENDUM 1 (continued)

**TABLE 1
 ANNUAL DOSE ASSESSMENT 2007**

A. LIQUIDS					
<u>QUARTER</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>ANNUAL</u>
	(a)	(a)	(a)	(a)	(a)
Organ (mrem)	4.58E-06	9.75E-06	2.38E-06	2.89E-06	1.96E-05
% of Limit	9.16E-05	1.95E-04	4.75E-05	5.78E-05	1.96E-04
	(b)	(b)	(b)	(b)	(b)
Whole Body (mrem)	4.58E-06	9.75E-06	2.38E-06	2.96E-06	1.98E-05
% of Limit	3.05E-04	6.50E-04	1.58E-04	1.97E-04	6.56E-04

(a) Dose to the Child Liver primarily by the potable water pathway.

(b) Dose to the Child Whole Body primarily by the potable water pathway.

B. NOBLE GASES					
<u>QUARTER</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>ANNUAL</u>
Total Body (mrem/yr)	9.84E-03	6.30E-01	1.62E-01	5.44E-01	6.30E-01
% of Limit	1.97E-03	1.26E-01	3.25E-02	1.09E-01	1.26E-01
Skin (mrem/yr)	1.20E-02	8.24E-01	2.15E-01	6.53E-01	8.24E-01
% of Limit	3.99E-04	2.75E-02	7.15E-03	2.18E-02	2.75E-02
Gamma (mrad)	7.34E-04	5.81E-03	3.35E-03	3.35E-03	1.32E-02
% of Limit	1.47E-02	1.16E-01	6.70E-02	6.70E-02	1.32E-01
Beta (mrad)	9.22E-05	9.76E-04	5.46E-04	4.91E-04	2.10E-03
% of Limit	9.22E-04	9.76E-03	5.46E-03	4.91E-03	1.05E-02

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TABLE 1A
GASEOUS EFFLUENTS--SUMMATION OF ALL RELEASES

	<u>UNIT</u>	<u>QTR 1</u>	<u>QTR 2</u>	<u>QTR 3</u>	<u>QTR 4</u>	<u>EST TOTAL ERROR %</u>
A. FISSION AND ACTIVATION GASES						
1. Total Release	Ci	2.90E+01	9.36E+01	5.33E+01	1.30E+01	≤2.50E+01
2. Average release rate for period	μCi/sec	3.68E+00	1.19E+01	6.70E+00	1.64E+00	
3. Applicable ODCM Limit	%	*	*	*	*	
B. IODINE-131						
1. Total Iodine-131	Ci	2.11E-04	2.05E-04	3.85E-04	1.55E-04	≤2.50E+01
2. Average release rate for period	μCi/sec	2.68E-05	2.60E-05	4.85E-05	1.95E-05	
3. Applicable ODCM Limit	%	*	*	*	*	
C. PARTICULATES						
1. Particulates with half-lives >8 days	Ci	3.69E-05	2.16E-05	1.10E-03	3.99E-05	≤3.60E+01
2. Average release rate for period	μCi/sec	4.96E-06	2.75E-06	1.38E-04	5.02E-06	
3. Applicable ODCM Limit	%	*	*	*	*	
4. Gross alpha radioactivity	Ci	9.31E-07	5.42E-07	5.56E-07	3.16E-07	≤2.50E+01
D. TRITIUM						
1. Total Release	Ci	2.93E+00	2.67E+00	4.13E+00	5.25E+00	≤2.50E+01
2. Average release rate for period	μCi/sec	3.73E-01	3.39E-01	5.19E-01	6.60E-01	
3. Applicable ODCM Limit	%	*	*	*	*	
*E. PERCENT OF APPLICABLE ODCM LIMITS						
FISSION AND ACTIVATION GASES						
1. Quarterly gamma air dose limit	%	8.55E-03	3.89E-02	8.95E-03	6.44E-03	
2. Quarterly beta air dose limit	%	5.15E-04	3.03E-03	1.02E-03	4.59E-04	
3. Yearly gamma air dose limit	%	4.28E-03	1.95E-02	4.48E-03	3.22E-03	
4. Yearly beta air dose limit	%	2.57E-04	1.52E-03	5.09E-04	2.29E-04	
5. Whole body dose rate limit	%	2.22E-03	8.24E-02	4.19E-03	8.35E-03	
6. Skin dose rate limit	%	4.48E-04	1.77E-02	9.82E-04	1.80E-03	
HALOGENS, TRITIUM AND PARTICULATES WITH HALF-LIVES >8 DAYS						
7. Quarterly dose limit (organ)	%	4.00E-02	3.55E-02	7.30E-02	2.37E-02	
8. Yearly dose limit (organ)	%	2.00E-02	1.78E-02	3.65E-02	1.19E-02	
9. Organ dose rate limit	%	1.97E-05	2.25E-05	5.89E-05	1.95E-05	

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ADDENDUM 1 (continued)

**TABLE 1
 ANNUAL DOSE ASSESSMENT 2008**

A. LIQUIDS					
<u>QUARTER</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>ANNUAL</u>
	(a)	(a)	(a)	(a)	(a)
Organ (mrem)	6.16E-06	3.04E-06	3.49E-06	3.58E-06	1.63E-05
% of Limit	1.23E-04	6.08E-05	6.99E-05	7.17E-05	1.63E-04
	(b)	(b)	(b)	(b)	(b)
Whole Body (mrem)	6.16E-06	3.04E-06	3.49E-06	3.58E-06	1.63E-05
% of Limit	4.11E-04	2.03E-04	2.33E-04	2.39E-04	5.43E-04

(a) Dose to the Child Liver primarily by the potable water pathway.

(b) Dose to the Child Whole Body primarily by the potable water pathway.

B. NOBLE GASES					
<u>QUARTER</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>ANNUAL</u>
Total Body (mrem/yr)	1.11E-02	4.12E-01	2.10E-02	4.18E-02	4.12E-01
% of Limit	2.22E-03	8.24E-02	4.19E-03	8.35E-03	8.24E-02
Skin (mrem/yr)	1.34E-02	5.31E-01	2.94E-02	5.39E-02	5.31E-01
% of Limit	4.48E-04	1.77E-02	9.82E-04	1.80E-03	1.77E-02
Gamma (mrad)	4.28E-04	1.95E-03	4.48E-04	3.22E-04	3.14E-03
% of Limit	8.55E-03	3.89E-02	8.95E-03	6.44E-03	3.14E-02
Beta (mrad)	5.15E-05	3.03E-04	1.02E-04	4.59E-05	5.02E-04
% of Limit	5.15E-04	3.03E-03	1.02E-03	4.59E-04	2.51E-03