



JAFP-23-0047  
August 30, 2023

United States Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, D.C. 20555-0001

James A. FitzPatrick Nuclear Power Plant  
Renewed Facility Operating License No. DPR-59  
NRC Docket No. 50-333

Subject: Correction to the 2022 Annual Radioactive Effluent Release Report

References: JAF letter, 2022 Annual Radioactive Effluent Release Report,  
JAFP-23-0023, dated April 27, 2023

Dear Sir or Madam:

This letter submits a correction to the James A. FitzPatrick Nuclear Power Plant's (JAF) Annual Radioactive Effluent Release Report, for the period of January 1, 2022 through December 31, 2022, previously submitted in the Referenced letter dated April 27, 2023. The change reflects a correction to the effluent pathway selected to calculate the report. The pathway selection only affected the 2022 period, and no other previous periods were affected.

The Reference Report was submitted in accordance with 10 CFR 50.36a and the Reporting Requirements of Technical Specifications Section 5.6.3 and Technical Requirements Manual Appendix H, Offsite Dose Calculation Manual (ODCM), Part 1 Section 6.2, Radioactive Effluent Release Report. The Enclosure to this letter, you will find the corrected Table 1A and Addendum 1 Table to the previously submitted report. Specifically, a replacement page 6 for percent of applicable ODCM limits for Halogens Tritium and Particulates with Half-Lives > 8 Days, and page 34 for Iodines and Particulates values.

There are no new regulatory commitments contained in this letter. If you have any questions concerning the enclosed report, please contact Mr. Kevin Fowler, Chemistry Manager, at (315) 326-2275.

Sincerely,

Mark R. Hawes  
Regulatory Assurance

MRH/KF/ts  
cc: next page

Enclosure: Corrected Page 6 and 34 of 2022 Annual Radioactive Effluent Release Report

cc:  
NRC Regional Administrator, Region I  
NRC Resident Inspector  
NRC Project Manager

Supervisor, Town of Scriba  
Route 8, Box 382  
Oswego, NY 13126

**JAFP-23-0047**

**Enclosure**

**Corrected Page 6 and 34 of 2022 Annual Radioactive Effluent Release Report**

**(2 Pages)**

CONSTELLATION FITZPATRICK, LLC  
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT  
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT  
 JANUARY 2022 - DECEMBER 2022

**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>
<b>A. FISSION AND ACTIVATION GASES</b>						
1. Total Release	Ci	2.09E+01	3.17E+01	4.83E+01	6.39E+00	≤2.50E+01
2. Average release rate for period	μCi/sec	2.68E+00	4.03E+00	6.08E+00	8.03E-01	
3. Percentage ODCM Limit	%	*	*	*	*	
<b>B. IODINE-131</b>						
1. Total Iodine-131	Ci	1.24E-04	1.48E-04	2.57E-04	6.01E-05	≤2.50E+01
2. Average release rate for period	μCi/sec	1.59E-05	1.88E-05	3.23E-05	7.56E-06	
3. Percentage ODCM Limit	%	*	*	*	*	
<b>C. PARTICULATES</b>						
1. Particulates with half-lives >8 days	Ci	3.92E-06	1.51E-05	1.15E-04	4.58E-05	≤3.60E+01
2. Average release rate for period	μCi/sec	5.04E-07	1.92E-06	1.45E-05	5.76E-06	
3. Percentage ODCM Limit	%	*	*	*	*	
4. Gross alpha radioactivity	Ci	2.38E-07	2.36E-07	2.06E-07	3.03E-07	≤2.50E+01
<b>D. TRITIUM</b>						
1. Total Release	Ci	5.26E+00	5.05E+00	1.48E+00	1.59E+00	≤2.50E+01
2. Average release rate for period	μCi/sec	6.76E-01	6.42E-01	1.86E-01	1.99E-01	
3. Percentage ODCM Limit	%	*	*	*	*	
<b>E. CARBON-14 (See Attachment 8)</b>						
<b>*F. PERCENT OF APPLICABLE ODCM LIMITS</b>						
<b>FISSION AND ACTIVATION GASES</b>	<u>UNIT</u>	<u>QTR 1</u>	<u>QTR 2</u>	<u>QTR 3</u>	<u>QTR 4</u>	
1. Quarterly gamma air dose limit	%	7.93E-03	1.42E-02	2.39E-02	4.19E-03	
2. Quarterly beta air dose limit	%	4.12E-04	7.08E-04	1.36E-03	1.82E-04	
3. Yearly gamma air dose limit	%	3.97E-03	1.11E-02	2.30E-02	2.51E-02	
4. Yearly beta air dose limit	%	2.06E-04	5.60E-04	1.24E-03	1.33E-03	
5. Whole body dose rate limit	%	3.08E-04	5.47E-04	9.10E-04	1.61E-04	
6. Skin dose rate limit	%	6.33E-05	1.12E-04	1.90E-04	3.30E-05	
<b>HALOGENS, TRITIUM AND PARTICULATES WITH HALF-LIVES &gt;8 DAYS</b>						
7. Quarterly dose limit (organ)	%	2.98E-02	3.35E-02	5.46E-02	5.21E-03	
8. Yearly dose limit (organ)	%	1.49E-02	3.17E-02	5.90E-02	6.16E-02	
9. Organ dose rate limit	%	5.73E-04	6.40E-04	1.06E-03	9.93E-05	

CONSTELLATION FITZPATRICK, LLC  
 JAMES A. FITZPATRICK NUCLEAR POWER PLANT  
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT  
 JANUARY 2022 - DECEMBER 2022

**ADDENDUM 1 (continued)**

**TABLE 1 (cont)**  
**ANNUAL DOSE ASSESSMENT 2022**

**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)	3.96E-03	5.63E-03	8.56E-03	1.80E-03	2.00E-02
% of Limit	7.92E-04	1.13E-03	1.71E-03	3.60E-04	3.99E-03
Skin (mrem/yr)	8.84E-03	6.93E-03	2.02E-02	4.01E-03	4.00E-02
% of Limit	2.95E-04	2.31E-04	6.72E-04	1.34E-04	1.33E-03
Gamma (mrad)	3.96E-04	7.09E-04	1.19E-03	2.11E-04	2.51E-03
% of Limit	6.92E-03	1.42E-02	2.38E-02	4.22E-03	2.51E-02
Beta (mrad)	4.12E-05	7.08E-05	1.36E-04	1.84E-05	2.67E-04
% of Limit	4.12E-04	7.08E-04	1.36E-03	1.84E-04	1.33E-03

**C. IODINES AND PARTICULATES**

<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)	2.24E-03	2.51E-03	4.10E-03	3.91E-04	9.24E-03
% of Limit	2.98E-02	3.35E-02	5.46E-02	5.21E-03	6.16E-02
	(a)	(a)	(a)	(a)	(a)
Organ Dose Rate (mrem/yr)	9.06E-03	1.28E-02	2.75E-02	8.42E-03	5.78E-02
% of Limit	6.04E-04	8.54E-04	1.83E-03	5.62E-04	3.85E-03

(a) Dose to the Child Thyroid.