



December 16, 2021
L-2021-243
10 CFR 50.36a(a)(2)

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555

Re: Turkey Point Unit 3 and Unit 4
Docket Nos. 50-250 and 50-251
Errata Corrections to FPL letter L-2021-043

References:

1. FPL Letter L-2021-043, "2020 Annual Radioactive Effluent Release Report", dated February 23, 2021.

A recent NRC review of the referenced report revealed numerical errors for certain values listed in the tables presented in the annual report.

The purpose of this letter is to provide errata corrections for updating the report pages which contain errata. The errors were mostly generated by rounding off and averaging values, as well as erroneously transcribing values from the calculation documents to the annual report. Reference 1 report pages 11, 12, 20, 23, 26, 32 have been updated.

Attachment 1 provides the updated pages with corrected numerical values highlighted, bolded, and underlined. Additionally, revision bars have been added to indicate the table entries which have been updated

Should there be any questions regarding this information, please contact Robert J. Hess, Licensing Manager at (305) 246-4112.

Sincerely,

A handwritten signature in blue ink, consisting of a stylized 'R' followed by a series of loops and a long horizontal line extending to the right.

Robert J. Hess
Licensing Manager
Turkey Point Nuclear Plant

SM

Attachments

cc: Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, Turkey Point Plant

L-2021-243
Attachment 1

Errata Corrections
2020 Annual Radioactive Effluent Release Report
Submitted in FPL letter L-2021-043

Revised Pages
Pages
11, 12, 20, 23,26,32

2020—Turkey Point Annual Radioactive Effluent Release Report

Table A-1, Gaseous Effluents - Summation of All Releases

Unit: 3
January 2020 through December 2020

Total Release	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
<u>A. Fission and Activation Gases</u>						
1. Total Release	Ci	1.42E-02	1.12E-02	2.72E-03	4.29E-03	3.24E-02
2. Average Release Rate for Period	uCi/s	1.81E-03	1.43E-03	3.42E-04	5.39E-04	1.03E-03
3. Percent of Limit	%	N/A	N/A	N/A	N/A	N/A
<u>B. Iodines and Halogens</u>						
1. Total Release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2. Average Release Rate for Period	uCi/s	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3. Percent of Limit	%	N/A	N/A	N/A	N/A	N/A
<u>C. Particulates</u>						
1. Total Release	Ci	0.00E+00	1.50E-05	1.03E-05	0.00E+00	2.53E-05
2. Average Release Rate for Period	uCi/s	0.00E+00	1.91E-06	1.30E-06	0.00E+00	8.01E-07
3. Percent of Limit	%	N/A	N/A	N/A	N/A	N/A
<u>D. Tritium</u>						
1. Total Release	Ci	1.41E+00	3.83E+00	2.23E+00	6.66E-01	8.13E+00
2. Average Release Rate for Period	uCi/s	1.79E-01	4.87E-01	2.80E-01	8.38E-02	2.57E-01
3. Percent of Limit	%	N/A	N/A	N/A	N/A	N/A
<u>E. Gross Alpha</u>						
1. Total Release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<u>F. Carbon-14</u>						
1. Total Release	Ci	1.68E+00	1.30E+00	1.71E+00	1.58E+00	6.28E+00
2. Average Release Rate for Period	uCi/s	2.14E-01	1.65E-01	2.16E-01	1.99E-01	1.98E-01
3. Percent of Limit	%	N/A	N/A	N/A	N/A	N/A

Table A-1E, Gaseous Effluents - Mixed Mode Release - Batch Mode

Unit: 3

January 2020 through December 2020

Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
<u>A. Fission and Activation Gases</u>						
Ar-41	Ci	1.38E-02	9.87E-06	0.00E+00	0.00E+00	1.38E-02
Xe-131m	Ci	0.00E+00	3.38E-05	0.00E+00	0.00E+00	3.38E-05
Xe-133m	Ci	0.00E+00	5.00E-05	8.76E-06	0.00E+00	5.88E-05
Xe-133	Ci	3.57E-04	1.11E-02	2.70E-03	4.28E-03	1.84E-02
Xe-135	Ci	0.00E+00	2.14E-05	1.24E-05	3.17E-06	3.69E-05
Total for Period	Ci	1.42E-02	1.12E-02	2.72E-03	4.28E-03	3.23E-02
<u>B. Iodines and Halogens</u>						
No Nuclides Found	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<u>C. Particulates</u>						
Co-58						
Cs-137	Ci	0.00E+00	1.48E-05	0.00E+00	0.00E+00	1.48E-05
Total for Period	Ci	0.00E+00	2.23E-07	0.00E+00	0.00E+00	2.23E-07
<u>D. Tritium</u>						
	Ci	0.00E+00	1.50E-05	0.00E+00	0.00E+00	1.50E-05
H-3	Ci	3.78E-02	1.46E-02	0.00E+00	0.00E+00	5.24E-02
<u>E. Gross Alpha</u>						
No Nuclides Found	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<u>F. Carbon-14</u>						
No Nuclides Found	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 5A and 5B - Liquid and Gas Batch Release Summary

Unit: 3

January 2020 through December 2020

A. Liquid Batch Release Totals	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Year Totals
1. Number of Batch Releases		51	51	52	58	212
2. Total duration of batch releases	min	4.99E+03	4.98E+03	5.12E+03	5.76E+03	2.08E+04
3. Maximum batch release duration	min	1.20E+02	1.12E+02	1.30E+02	1.24E+02	1.30E+02
4. Average batch release duration	min	9.78E+01	9.76E+01	9.84E+01	9.92E+01	9.83E+01
5. Minimum batch release duration	min	5.40E+01	4.50E+01	7.60E+01	5.60E+01	4.50E+01
B. Gas Batch Release Totals	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Year Totals
1. Number of Batch Releases		8	42	5	15	70
2. Total duration of batch releases	min	4.13E+04	1.58E+04	1.32E+02	4.28E+02	5.76E+04
3. Maximum batch release duration	min	4.10E+04	1.42E+03	3.00E+01	4.50E+01	4.10E+04
4. Average batch release duration	min	5.16E+03	3.76E+02	2.64E+01	2.85E+01	1.31E+03
5. Minimum batch release duration	min	3.00E+01	2.50E+01	2.40E+01	6.00E+00	6.00E+00

Table A-1, Gaseous Effluents - Summation of All Releases

Unit: 4
January 2020 through December 2020

Total Release	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
<u>A. Fission and Activation Gases</u>						
1. Total Release	Ci	3.572E-04	1.121E-02	2.720E-03	3.277E-02	4.706E-02
2. Average Release Rate for Period	uCi/s	4.543E-05	1.426E-03	3.422E-04	4.123E-03	1.488E-03
3. Percent of Limit	%	N/A	N/A	N/A	N/A	N/A
<u>B. Iodines and Halogens</u>						
1. Total Release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2. Average Release Rate for Period	uCi/s	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3. Percent of Limit	%	N/A	N/A	N/A	N/A	N/A
<u>C. Particulates</u>						
1. Total Release	Ci	0.000E+00	0.000E+00	1.032E-05	9.412E-05	1.044E-04
2. Average Release Rate for Period	uCi/s	0.000E+00	0.000E+00	1.298E-06	1.184E-05	3.303E-06
3. Percent of Limit	%	N/A	N/A	N/A	N/A	N/A
<u>D. Tritium</u>						
1. Total Release	Ci	6.817E-01	1.525E+00	1.285E-01	5.405E-01	2.876E+00
2. Average Release Rate for Period	uCi/s	8.671E-02	1.940E-01	1.616E-02	6.800E-02	9.095E-02
3. Percent of Limit	%	N/A	N/A	N/A	N/A	N/A
<u>E. Gross Alpha</u>						
1. Total Release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<u>F. Carbon-14</u>						
1. Total Release	Ci	1.750E+00	1.807E+00	1.478E+00	8.603E-01	5.890E+00
2. Average Release Rate for Period	uCi/s	<u>2.22E-01</u>	2.298E-01	1.859E-01	1.082E-01	<u>1.86E-01</u>
3. Percent of Limit	%	N/A	N/A	N/A	N/A	N/A

Table A-2: Liquid Effluents – Summation of all Releases

Unit: 4
January 2020 through December 2020

<u>Total Release</u>	<u>Units</u>	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>	<u>Annual</u>
<u>A. Fission and Activation Products</u>						
1. Total Release	Ci	1.34E-02	9.42E-03	2.13E-02	1.702E-02	6.107E-02
2. Average Concentration	uCi/mL	1.17E-09	1.07E-09	1.77E-09	1.371E-09	1.368E-09
<u>B. Tritium</u>						
1. Total Release	Ci	3.89E+02	8.86E+01	1.63E+02	1.099E+02	7.506E+02
2. Average Concentration	uCi/mL	3.41E-05	1.01E-05	1.36E-05	8.851E-06	1.681E-05
<u>C. Dissolved and Entrained Gases</u>						
1. Total Release	Ci	1.65E-06	0.00E+00	1.74E-04	6.53E-05	2.41E-04
2. Average Concentration	uCi/mL	1.44E-13	0.00E+00	1.45E-11	5.26E-12	4.98E-12
<u>D. Gross Alpha Activity</u>						
1. Total Release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2. Average Concentration	uCi/mL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<u>E. Liquid Release Volume</u>						
1. Total Release	Liters	6.77E+05	6.71E+05	6.90E+05	7.79E+05	2.82E+06
<u>F. Dilution Volume</u>						
1. Total Release	Liters	1.14E+10	8.79E+09	1.20E+10	1.24E+10	4.46E+10
<u>G. Average Stream Flow</u>						
1. Total Release	m ³ /s	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

2020 -- Turkey Point Annual Radioactive Effluent Release Report

Table 5A and 5B: Liquid and Gas Batch Release Summary

Unit: 4

January 2020 through December 2020

A. Liquid Batch Release Totals		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Year Totals
	Units					
1. Number of Batch Releases		51	51	52	58	212
2. Total duration of batch releases	min	4.99E+03	4.98E+03	5.12E+03	5.76E+03	2.08E+04
3. Maximum batch release duration	min	1.20E+02	1.12E+02	1.30E+02	1.24E+02	1.30E+02
4. Average batch release duration	min	9.78E+01	9.76E+01	9.84E+01	9.92E+01	9.83E+01
5. Minimum batch release duration	min	5.40E+01	4.50E+01	7.60E+01	5.60E+01	4.50E+01
B. Gas Batch Release Totals		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Year Totals
	Units					
1. Number of Batch Releases		7	21	5	41	74
2. Total duration of batch releases	min	2.430E+02	6.570E+02	1.320E+02	2.720E+04	2.823E+04
3. Maximum batch release duration	min	4.600E+01	4.000E+01	3.000E+01	9.853E+03	9.853E+03
4. Average batch release duration	min	3.471E+01	3.129E+01	2.640E+01	6.634E+02	1.890E+02
5. Minimum batch release duration	min	3.000E+01	2.500E+01	2.400E+01	6.000E+00	6.000E+00