

September 18, 2023

L-2023-127 10 CFR 50.36a

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

- Re: St. Lucie Units 1 and 2 Docket Nos. 50-335 and 50-389 <u>Correction to the 2022 Annual Radioactive Effluent Release Report</u>
- Reference: FPL letter L-2023-032 dated February 28, 2023: 2022 Annual Radioactive Effluent Release Report

By letter dated February 28, 2023 (Reference), Florida Power & Light submitted the 2022 Annual Radioactive Effluent Release Report (ARERR) for St. Lucie Units 1 and 2 pursuant to 10 CFR 50.36a(a)(2) and Technical Specification (TS) 6.9.1.7. The 2022 report provided information for the 12-month period beginning January 1, 2022 and ending December 31, 2022.

Dose calculation errors were found in the land use exposure pathways. Also, three effluent radiation monitors that had been out of service for greater than 30 days should have been reported in Section 2.5. These items have been corrected and are provided in this submittal. This corrected report replaces the St. Lucie 2022 ARERR report in its entirety.

If you have any questions regarding this submittal, please contact Kenneth Mack at 561-904-3635.

Sincerely,

Dianne Strand General Manager, Regulatory Affairs Florida Power & Light Company

Enclosure: Combined Annual Radioactive Effluent Release Report (2021)

cc: USNRC Regional Administrator, Region II USNRC Project Manager, St. Lucie Nuclear Plant USNRC Resident Inspector, St. Lucie Nuclear Plant

Florida Power & Light Company

ENCLOSURE

COMBINED ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

ST. LUCIE UNITS 1 AND 2

(59 pages follow)

FLORIDA POWER & LIGHT COMPANY ST. LUCIE UNITS 1 AND 2 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT JANUARY 1, 2022 THROUGH DECEMBER 31, 2022

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1.0 PROGRAM DESCRIPTION

Regulatory Limits

The Offsite Dose Calculation Manual (ODCM) Radiological Effluent Control limits applicable to the release of radioactive material in liquid and gaseous effluents are described in the following sections.

Fission and Activation Gases (Noble Gases)

The dose rate due to radioactive materials released in gaseous effluents, from the Site to areas at and beyond the Site boundary, shall be limited to less than or equal to 500 mrem/yr to the whole body and less than or equal to 3000 mrem/yr to the skin.

The air dose due to noble gases released in gaseous effluents from each Unit, to areas at and beyond the Site boundary, shall be limited to:

a. During any calendar quarter: Less than or equal to 5 mrad for gamma radiation and less than or equal to 10 mrad for beta radiation, and

b. During any calendar year: Less than or equal to 10 mrad for gamma radiation and less than or equal to 20 mrad for beta radiation.

Iodine-131, Iodine-133, Tritium, Carbon-14, and Radioactive Material in Particulate Form

The dose rate due to Iodine-131 (I-131), Iodine-133 (I-133), Tritium, and all radionuclides in particulate form with half-lives greater than 8 days, released in gaseous effluents from the Site to areas at and beyond the Site boundary, shall be limited to less than or equal to 1500 mrem/yr to any organ.

The dose to a MEMBER OF THE PUBLIC from I-131, I-133, Tritium, Carbon-14 (C-14), and all radionuclides in particulate form with half-lives greater than 8 days in gaseous effluents released from each Unit, to areas at and beyond the Site boundary, shall be limited to:

a. During any calendar quarter: Less than or equal to 7.5 mrem to any organ, and

b. During any calendar year: Less than or equal to 15 mrem to any organ.

Liquid Effluents

The concentration of radioactive material released in liquid effluents to unrestricted areas shall be limited to 10 times the concentrations specified in 10 CFR Part 20, Appendix B, Table 2, Column 2 for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall be limited to 2.0E-4 μ Ci/ml total activity. The dose or dose commitment to a MEMBER OF THE PUBLIC from radioactive materials in liquid effluents released from each Unit, to unrestricted areas, shall be limited to:

a. During any calendar quarter: Less than or equal to 1.5 mrem to the whole body and less than or equal to 5 mrem to any organ, and

b. During any calendar year: Less than or equal to 3 mRem to the whole body and less than or equal to 10 mrem to any organ.

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Total Dose

The annual (calendar year) dose or dose commitment to any MEMBER OF THE PUBLIC due to releases of radioactivity and to radiation from uranium fuel cycle sources shall be limited to less than or equal to 25 mrem to the whole body or any organ, except the thyroid which shall be limited to less than or equal to 75 mrem.

Effluent Concentration Limits Gaseous Effluents

For gaseous effluents, effluent concentration limits (ECL) values are not directly used in release rate calculations since the applicable limits are expressed in terms of dose rate at the Site boundary.

Liquid Effluents

The values specified in 10 CFR Part 20, Appendix B, Table 2, Column 2 are used as the ECL for liquid radioactive effluents released to unrestricted areas. A value of 2.0E-04 μ Ci/ml is used as the ECL for dissolved and entrained noble gases in liquid effluents.

Measurements and Approximations of Total Radioactivity

Measurements of total radioactivity in liquid and gaseous radioactive effluents were accomplished in accordance with the sampling and analysis requirements of Tables 4.11-1 and 4.11-2, respectively, of the St. Lucie ODCM. Estimates of errors are in accordance with Methodology Section 4.0.4 of the ODCM.

The estimate of errors associated with values reported are below:

	LIQ	JID	GASE	OUS
Error Topic	Avg %	<u>Max %</u>	Avg %	Max %
Release Point Mixing	2	5	NA	NA
Sampling	1	5	2	5
Sample Preparation	1	5	1	5
Sample Analysis	3	10	3	10
Release Volume	2	5	4	15
Total %	9	30	10	35
	(abov	ve values are	e examples of	nly)

The predictability of error for radioactive releases can only be applied to nuclides that are predominant in sample spectrums. Nuclides that are near background relative to the predominant nuclides in a given sample could easily have errors greater than the maximums listed above.

Liquid Radioactive Effluents

Each batch release was sampled and analyzed for gamma emitting radionuclides using gamma spectroscopy prior to release. Composite samples were analyzed monthly for tritium and gross alpha radioactivity in the onsite laboratory using liquid scintillation and air ion chamber counting techniques, respectively. Composite samples were analyzed quarterly for Strontium-89 (Sr-89), Strontium-90 (Sr-90), Iron-55 (Fe-55), Nickel-63 (Ni-63), and C-14 by a contract laboratory. The results of the composite analyses from the previous month or quarter were used to estimate the quantities of these radionuclides in liquid effluents during the current month or quarter. The total radioactivity in liquid effluent releases was determined from the measured and estimated concentrations of each radionuclide present and the total volume of the effluent released during periods of discharge.

Gaseous Radioactive Effluents

Each gaseous batch was sampled and analyzed for radioactivity prior to release. For releases from gas decay tanks, noble gas grab samples were analyzed for gamma emitting radionuclides using gamma spectroscopy. For releases from the reactor containment buildings, samples were taken of noble gas and tritium grab samples and analyzed for gamma emitting radionuclides prior to each release. The results of the analyses and the total volume of effluent released were used to determine the total amount of radioactivity released in the batch mode.

For continuous effluent release pathways, noble gas and tritium grab samples were collected and analyzed weekly for gamma emitting radionuclides by gamma spectroscopy and liquid scintillation counting techniques, respectively. Continuous release pathways were continuously sampled using radioiodine absorbers and particulate filters. The radioiodine absorbers and particulate filters were analyzed weekly for gamma emitting radionuclides using gamma spectroscopy. Results of the noble gas and tritium grab samples, radioiodine absorber, and particulate filter analyses from the current week along with the average effluent flow rate for the previous week were used to determine the total amount of radioactivity released in the continuous mode. The particulate filters were analyzed weekly for gross alpha activity in the onsite laboratory using the air ion chamber counting technique. Quarterly composites of particulate filters were analyzed for Sr-89 and Sr-90 by a contract laboratory.

Meteorological Monitoring Program

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In accordance with ODCM Administrative Control 3.11.2.6.b., a summary of hourly meteorological data collected during 2022 is retained onsite. This data is available for review by the NRC upon request. During 2022, the goal of 90% joint data recovery was met. Actual meteorological data collected during the year was used for the offsite dose calculations in this report.

Carbon-14 Dose Estimation

The estimate of C-14 released from the St. Lucie Nuclear Plant was derived from the EPRI document, "Estimation of Carbon-14 in Nuclear Power Plant Gaseous Effluents", Report 1021106, issued December 2010.

The Site-specific source term values used in the St. Lucie calculations were taken from the PWR Section, Page 4-28 of the report, and employed the proxy generation rate values for a Combustion Engineering reactor. The actual 2022 operating data for the units was employed for the calculations to derive the total curies released for each unit.

The total amount of C-14 released in 2022 from Unit 1 was 10.39 Ci, and the total amount of C-14 released in 2022 from Unit 2 was 11.07 Ci.

Per Regulatory Guide 1.21, Rev 2, Section 5.7, "Real exposure pathways are identified for routine discharges and direct radiation based on the results of the Land Use Census. Dose calculations should typically be performed based on real exposure pathways". Because the 2022 Land Use Census did not identify any land within 5 miles of Site that met the criteria of a garden per Technical Specification 3.12.2 listed in the ODCM, the highest dose exposure pathway from C-14 was calculated from the collection of citrus fruit at a grove 5 miles distant in the West sector. A "Child" consuming citrus produced at the grove located 5 miles in the West direction from Site would have received a total combined "Bone Dose" of 4.44E-02 mrem attributed to C-14.

Assessment of radiation dose from radioactive effluents to a MEMBER OF THE PUBLIC due to activities inside the Site boundary assumes the visitor to be a Lifeguard at Walton Rocks Beach Recreation Area, located 1 mile southeast of the site. Dose to the visitor on Site for calendar year 2022 was calculated to be 1.91E-08 mrem Total Body dose. See Section 3.4, Dose Assessments, for more detail.

Radiation dose from radioactive effluents to a MEMBER OF THE PUBLIC due to activities inside the Site boundary is a fraction of the 1 mrem annual whole-body dose received by the average US citizen from natural occurring C-14, primarily generated through cosmogenesis in the terrestrial biosphere (Reference: National Council of Radiation Protection Report 45, Natural Background Radiation in the United States).

All C-14 dose calculations are based on Regulatory Guide 1.109 values.

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2.0 SUPPLEMENTAL INFORMATION

2.1 Abnormal Releases or Abnormal Discharges

There was one abnormal (unplanned) release or discharge from the site during the report period.

 One abnormal (unplanned) gas decay tank discharge from the site occurred on December 24, 2022. Operations entered 1-AOP-06.04, Uncontrolled Release of Radioactive Gas, due to loss of 21 psig in a 12 hour period from the 1C Gas Decay Tank (GDT). As per the ODCM, if a Gas Decay Tank loses greater than 18 psig in 72 hours, AND the losses were determined to be to the Reactor Auxiliary Building Atmosphere, then declare the losses as an UNPLANNED RELEASE.

The 1C GDT Unplanned Release was accounted for using a separate Abnormal Gas Decay Release Permit, G-22-472B. AR #2444602 was generated to document the unplanned GDT release to the auxiliary building which was monitored by an operable plant vent radiation monitor on the plant vent stack. No additional leaks have been identified since its return to service.

Neledse Estimates Are As Fonemer							
Nuclide	uCi/cc concentration	uCi released					
Kr-85m	6.79E-07	6.72E+00					
Xe-133m	2.12E-05	2.10E+02					
Xe-135	9.18E-05	9.09E+02					
Xe-133m	8.55E-04	8.47E+03					

Release Estimates Are As Follows:

Maximum Infant Dose for NW Site Boundary:

	Total Body	Skin	Gamma Air	Beta Air
	(mRem)	(mRem)	(mRad)	(mRad)
Ì	2.128E-07	4,968E-07	2.441E-07	5.809E-07

2.2 Non-Routine Planned Discharges

No non-routine planned discharges occurred during the report period.

2.3 Radioactive Waste Treatment System Changes

No changes were made to the Radioactive Waste Treatment System during the report period.

2.4 Annual Land Use Census Changes

During 2022, no garden greater than 500 ft² was located within 5 miles of Site. Per Technical Specification 3.12.2 listed in the ODCM, C-200, Page 64, broad leaf vegetation (Brazilian Pepper) sampling was performed at the Site Boundary in the 2 sectors (WNW and NW) with the highest predicted D/Qs in lieu of the garden census. Controls for broad leaf vegetation sampling per ODCM Table 3.12-1, Part 4.b, including collection and analysis of control samples, were followed.

2.5 Effluent Monitoring System Inoperability

Three effluent radiation monitors were out of service for greater than 30 days during the report period:

- Unit 2 RM-26-90, Plant Vent Wide Range Gas Monitor (PV WRGM) was declared OOS on February 19, 2022, due to Loss of Communication and No Readings. ODCM change Revision 54 was completed on March 2, 2022, to allow substitution of the Plant Vent (Particulate, Iodine, Gas) PIG rad monitors for the Low Range Plant Vent WRGM (2-AOP-26.01). Sampling is only required if the 2A or 2B Plant Vent PIG monitors are in Alert. The PV WRGM is Currently Out of Service and Work Order 40817300 is tracking repairs.
- 2) RM-45-1, Steam Generator Blowdown Treatment Facility (SGBTF) Vent Rad Monitor was non-functional and declared out of service on 8/23/2021 due to particulate filter high pressure. As per the Offsite Dose Calculation Manual (ODCM), Table 3.3-13, no actions are required if SGBTF ventilation is secured. In the event SGBTF ventilation were to be placed in
- service, ODCM, Table 3.3-13 provides actions required to be performed.
 SGBTF ventilation fans are currently off. The SGBTF Rad Monitor is currently not in service.
- 3) Unit 1 Steam Jet Air Ejector (SJAE) Rad Monitor (RE-26-35) was declared out of service on June 9, 2022. The SJAE rad monitor pump was not running due to a broken wire. Work Order 40831683 was generated to track repairs. The SJAE Rad Monitor was returned to service on July 11, 2022.

2.6 Offsite Dose Calculation Manual Changes

Incorporated PCR 2362195 to include additional Effluent Radiation Monitors into Table 4.3-9, Radioactive Gaseous Effluent Monitoring Instrumentation, revised ACTION 51 to the action statement as written previously in the Technical Specifications, Table 3.3-6 of Unit 1 Technical Specifications, Amendment 206, and revised ACTION 55 in Table 3.3-13 due to addition of the 3.b) Noble Gas Activity Monitor High Range for Unit 2 in C-200 Revision 50.

2.7 Process Control Program Changes

No changes were made to the Process Control Program during the report period.

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2.8 Corrections to Previous Reports

No corrections to previous reports were made during this report period.

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AR 02419243 RIM-26-90 WRGM Indication has turned Magenta

Unit: 02

RIM-26-90 WRGM Indication has turned magenta and has no readings per Table 3.3-13 and Action 47. Established DS-30 for Chemistry to obtain grab samples every 8 hours and isotopic analysis within 24 hours.

South Pond Settling Basin Release Summary

Fourteen batch releases from the South Settling Basin to the Intake Canal to lower the water level due to periods of higher than normal rainfall occurred during the report period. All releases were analyzed according to the ODCM and Site procedural requirements and were found to have no detectable gamma, tritium, alpha, or hard-to-detect isotopes. The releases are summarized below.

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	202	2 South Po	nd Releases	
#	Sample Date		Volume (Gallons)	Quarter
1	1/20/22	L-22-011-B	2,998,910	Q1
2	3/11/22	L-22-014-B	4,268,084	
3	4/29/22	L-22-017-B	3,793,081	Q2
4	6/2/22	L-22-021-B	10,765,826	
5	6/10/22	L-22-031-B	1,838,911	
6	7/19/22	L-22-032-B	6,885,706	Q3
7	8/9/22	L-22-045-B	1,930,812	
8	9/10/22	L-22-055-B	3,547,049	
9	9/19/22	L-22-069-B	4,976,574	
10	9/26/22	L-22-070-B	5,408,411	
11	10/19/22	L-22-072-B	6,328,081	Q4
12	11/1/22	L-22-076-B	2,152,476	
13	11/8/22	L-22-077-B	2,439,148	
14	11/28/22	L-22-079-B	3,402,585	

2.10 Groundwater Protection Program

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No limits were exceeded for the St. Lucie Nuclear Site Groundwater Protection Program during the report period. The tritium results for the report period are contained in the table below.

Well ID	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
1MW001			<262									
1MW002			<244									
1MW003			<239									
1MW004			<182									
1MW005			350		1880							<23
2MW001		199			<211							<23
2MW002		244			1260							<22
2MW003		272			355							401
2MW004		<183			<204							<23
MW-15			352		382							234
MW-16	AAT ANS 10 MIL	<241			<219							337
MW-17	2630	2590	2370		4150					2040	4350	436
MW-18d	3120	2720	2440	· · · · · · · · · · · · · · · · · · ·	2230			esta sederar (2130	1560	150
MW-19	-		<179	State of the second	<218			See Constant				<23
MW-22d		<248			<216							<23
MW-26		<244			<211					.		<22
MW-3	A CONTRACTOR		513		262			• •				359
MW-30		<181			<211							<22
MW-31			324		233							<23
MW-32			279		<197			- Contraction		- Ballin (K. S. M.		252
MW-33		499			501							617
MW-4		WEINERS	<182		<227		and a second					<23
MW-5		<245			<216							<23
MW-6	7300	2670	2990		4820	7520	1470	5320	7870	245	1300	360
MW-7		<263	NORMAN		<213							<22
NB-MW-1		<261										
NB-MW-2		- LOI	<261				14.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					
PSLED-2		<258	-202									
RW-2		97319 LON	196		225							<23
RW-4		<242			<213							<23
RW-5		<248		distriction and	<208			0.000	The stand of the			<22
S-MW-1			<249									
S-MW-11			<259				No. COLLECTION	14-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				
S-MW-15D	<u>alegeore (en</u>		<245			1010100000000						
S-MW-16			<262									
S-MW-16i			<255									
s-MW-17			308									
S-MW-17	NUSACE CONTRACT		<259									
S-MW-19		Sources and the	<246					The pair of the		Mary and		
S-MW-4			<249									
S-MW-6	and a second second Second second		<260									
S-MW-7A		1838-1258 (Fill 1858-1858 (Fill	<200									

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	2022 St. Lucie Nuclear Plant Groundwater Protection Program Tritium Results (pCi/L)	

3.0 TABLES

3.1 Gaseous Effluents and Liquid Effluents

Monday, February 27, 2023 2:30:33PM Florida Power & Light St. Lucie Power Plant



Reg. Guide 1.21, Table 5A and 5B - Liquid and Gas Batch Release Summary

	Starting: 1-J	an-2022 Endir	ng: 31-Dec-20	22		
A. Liquid Batch Release Totals	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Year Totals
1. Number of Batch Releases		14	9	37	17	77
2. Total duration of batch releases	min	2.42E+04	3.03E+04	5.89E+04	4.02E+04	1.54E+05
3. Maximum batch release duration	min	8.67E+03	1.01E+04	7.77E+03	1.00E+04	1.01E+04
4. Average batch release duration	min	1.73E+03	3.37E+03	1.59E+03	2.36E+03	2.00E+03
5. Minimum batch release duration	min	5.52E+02	6.07E+02	4.18E+02	6.25E+02	4.18E+02
B. Gas Batch Release Totals	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Year Totals
1. Number of Batch Releases		64	59 -	63	48	234
2. Total duration of batch releases	min	2.73E+04	1.85E+04	4.74E+04	1.51E+04	1.08E+05
3. Maximum batch release duration	min	3.86E+03	6.00E+02	9.86E+03	1.83E+03	9.86E+03
4. Average batch release duration	min	4.26E+02	3.13E+02	7.53E+02	3.15E+02	4.63E+02
5. Minimum batch release duration	min	1.80E+01	3.00E+01	1.90E+01	2.60E+01	1.80E+01

Unit: Site



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Reg. Guide 1.21, Table 6A and 6B - Liquid and Gas Abnormal Release Summary

Unit: Site

A. Liquid Abnormal Release Totals	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Year Totals
1. Number of Abnormal Releases		0	0	0	0	0
2. Total Activity of abnormal releases	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
B. Gas Abnormal Release Totals	Units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Year Totals
1. Number of Abnormal Releases		0	0	0	1	1
2. Total Activity of abnormal releases	Ci	0.00E+00	0.00E+00	0.00E+00	9.59E-03	9.59E-03



Reg. Guide 1.21, Table 1A, Gaseous Effluents - Summation of All Releases

Unit: Site Starting: 1-Jan-2022 Ending: 31-Dec-2022

Total Release	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
A. Fission and Activation Gases						
1. Total Release	Ci	2.22E+01	7.45E+01	7.13E+00	7.39E-01	1.05E+02
 Average Release Rate for Period Percent of Limit 	uCi/s %	2.85E+00	9.48E+00	8.98E-01	9.29E-02	3.32E+00
B. Iodines and Halogens						
1. Total Release	Ci	2.16E-06	0.00E+00	2.42E-05	2.05E-07	2.66E-05
 Average Release Rate for Period Percent of Limit 	uCi/s %	2.78E-07	0.00E+00	3.05E-06	2.57E-08	8.43E-07
C. Particulates						
1. Total Release	Ci	0.00E+00	3.13E-07	4.10E-07	2.59E-06	3.32E-06
 Average Release Rate for Period Percent of Limit 	uCi/s %	0.00E+00	3.98E-08	5.15E-08	3.26E-07	1.05E-07
D. Tritium						
1. Total Release	Ci	6.32E+00	9.17E-01	3.86E+00	4.11E-01	1.15E+01
 Average Release Rate for Period Percent of Limit 	uCi/s %	8.12E-01	1.17E-01	4.86E-01	5.17E-02	3.65E-01
E. Gross Alpha						
1. Total Release	Ci	2.78E-08	0.00E+00	1.50E-09	1.97E-08	4.90E-08
F. Carbon-14						
1. Total Release	Ci	4.98E+00	5.48E+00	4.67E+00	5.40E+00	2.05E+01
2. Average Release Rate for Period 3. Percent of Limit	uCi/s %	6.41E-01	6.97E-01	5.87E-01	6.80E-01	6.51E-01

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Reg. Guide 1.21, Table 1A, Gaseous Effluents - Summation of All Releases

Unit: PSL1

Starting: 1-Jan-2022 Ending: 31-Dec-2022

Total Release	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual	Uncertainty
A. Fission and Activation Gases							
1. Total Release	Ci	2.05E+01	3.10E-01	4.17E+00	2.30E-01	2.52E+01	
2. Average Release Rate for Period 3. Percent of Limit	uCi/s %	2.64E+00	3.95E-02	5.24E-01	2.89E-02	7.99E-01	
B. Iodines and Halogens							
1. Total Release	Ci	1.21E-06	0.00E+00	2.42E-05	2.05E-07	2.56E-05	
 Average Release Rate for Period Percent of Limit 	uCi/s %	1.56E-07	0.00E+00	3.05E-06	2.57E-08	8.13E-07	
C. Particulates							
1. Total Release	Ci	0.00E+00	3.13E-07	4.10E-07	0.00E+00	7.23E-07	
 Average Release Rate for Period Percent of Limit 	uCi/s %	0.00E+00	3.98E-08	5.15E-08	0.00E+00	2.29E-08	
D. Tritium							
1. Total Release	Ci	2.92E+00	6.65E-01	3.55E+00	1.29E-01	7.26E+00	
 Average Release Rate for Period Percent of Limit 	uCi/s %	3.75E-01	8.46E-02	4,47E-01	1.62E-02	2.30E-01	
E. Gross Alpha							
1. Total Release	Ci	2.21E-08	0.00E+00	1.50E-09	1.66E-08	4.03E-08	
F. Carbon-14							
1. Total Release	Ci	2.76E+00	2.80E+00	1.96E+00	2.69E+00	1.02E+01	
 Average Release Rate for Period Percent of Limit 	uCi/s %	3.55E-01	3.57E-01 ⁻	2.46E-01	3.39E-01	3.24E-01	

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Reg. Guide 1.21, Table 1A, Gaseous Effluents - Summation of All Releases

Unit: PSL2

Total Release	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual	Uncertainty
A. Fission and Activation Gases							
1. Total Release	Ci	1.67E+00	7.42E+01	2.97E+00	5.09E-01	7.94E+01	
2. Average Release Rate for Period 3. Percent of Limit	uCi/s %	2.15E-01	9.44E+00	3.73E-01	6.40E-02	2.52E+00	
B. Iodines and Halogens							
1. Total Release	Ci	9.52E-07	0.00E+00	0.00E+00	0.00E+00	9.52E-07	
2. Average Release Rate for Period 3. Percent of Limit	uCi/s %	1.22E-07	0.00E+00	0.00E+00	0.00E+00	3.02E-08	
C. Particulates							
1. Total Release	Ci	0.00E+00	0.00E+00	0.00E+00	2.59E-06	2.59E-06	
 Average Release Rate for Period Percent of Limit 	uCi/s %	0.00E+00	0.00E+00	0.00E+00	3.26E-07	8.22E-08	
D. Tritium							
1. Total Release	Ci	3.40E+00	2.52E-01	3.13E-01	2.82E-01	4.24E+00	
 Average Release Rate for Period Percent of Limit 	uCi/s %	4.37E-01	3.20E-02	3.94E-02	3.54E-02	1.35E-01	
E. Gross Alpha	/						
1. Total Release	Ci	5.66E-09	0.00E+00	0.00E+00	3.13E-09	8.79E-09	
F. Carbon-14							
1. Total Release	Ci	2.23E+00	2.67E+00	2.71E+00	2.71E+00	1.03E+01	
 Average Release Rate for Period Percent of Limit 	uCi/s %	2.86E-01	3.40E-01	3.41E-01	3.41E-01	3.27E-01	



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Reg. Guide 1.21, Table 1B, Gaseous Effluents - Ground Level Release - Continuous Mode

Unit: Site Starting: 1-Jan-2022 Ending: 31-Dec-2022

				Continuous Mod	e	
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
A. Fission and Activation Gases		-			<u></u>	
Kr-85m	Ci	1,76E-01	0.00E+00	0.00E+00	1.94E-01	3.70E-01
Xe-127	Ci	0.00E+00	0.00E+00	2.10E-01	0.00E+00	2.10E-01
Xe-131m	Ci	0.00E+00	0.00E+00	1.08E+00	0.00E+00	1.08E+00
Xe-135	Ci	0.00E+00	0.00E+00	2.11E+00	0.00E+00	2.11E+00
Xe-133m	Ci	0.00E+00	1.28E+00	0.00E+00	0.00E+00	1.28E+00
Xe-133	Ci	1.76E+00	0.00E+00	2.87E+00	0.00E+00	4.63E+00
Xe-137	Ci	1.64E+01	0.00E+00	0.00E+00	0.00E+00	1.64E+01
Xe-138	Ci	2.94E+00	7.27E+01	0.00E+00	0.00E+00	7.56E+01
Total For Period	Ci	2.12E+01	7.40E+01	6.27E+00	1.94E-01	1.02E+02
B. Iodines and Halogens						
I-131	Ci	2.16E-06	0.00E+00	3.52E-06	2.05E-07	5.88E-06
I-133	Ci	0.00E+00	0.00E+00	2.06E-05	0.00E+00	2.06E-05
Total For Period	Ci	2.16E-06	0.00E+00	2.41E-05	2.05E-07	2.65E-05
C. Particulates						
Co-57	Ci	0.00E+00	3.13E-07	0.00E+00	0.00E+00	3.13E-07
Co-58	Ci	0.00E+00	0.00E+00	0.00E+00	1.76E-06	1.76E-06
Nb-95	Ci	0.00E+00	0.00E+00	2.76E-07	0.00E+00	2.76E-07
Ru-103	Ci	0.00E+00	0.00E+00	0.00E+00	8.28E-07	8.28E-07
Ce-144	Ci	0.00E+00	0.00E+00	4.39E-08	0.00E+00	4.39E-08
Total For Period	Ci	0.00E+00	3.13E-07	3.20E-07	2.59E-06	3.23E-06

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Reg. Guide 1.21, Table 1B, Gaseous Effluents - Ground Level Release - Continuous Mode

Unit:	Site
Starting: 1-Jan-2022	Ending: 31-Dec-2022

		Continuous Mode							
Nuclides Released D. Tritium	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual			
H-3	Ci	2.58E+00	0.00E+00	0.00E+00	0.00E+00	2.58E+00			
E. Gross Alpha									
G-Alpha	Ci	2.64E-08	0.00E+00	0.00E+00	1.97E-08	4.62E-08			
F. Carbon-14									
C-14	Ci	4.98E+00	5.48E+00	4.67E+00	5.40E+00	2.05E+01			

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Reg. Guide 1.21, Table 1B, Gaseous Effluents - Ground Level Release - Batch Mode

Unit: Site Starting: 1-Jan-2022 Ending: 31-Dec-2022

				Batch Mode		-
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
A. Fission and Activation Gases					- <u></u>	
Ar-41	Ci	5.29E-01	5.05E-01	4.93E-01	4.07E-01	1.93E+00
Kr-85m	Ci	4.64E-05	3.18E-05	1.86E-04	6.72E-06	2.71E-04
Kr-87	Ci	1.68E-04	0.00E+00	1.46E-04	0.00E+00	3.14E-04
Kr-88	Ci	8.69E-05	0.00E+00	1.79E-04	1.85E-04	4.51E-04
Kr-89	Ci	0.00E+00	0.00E+00	1.10E-02	0.00E+00	1.10E-02
Xe-131m	Ci	0.00E+00	0.00E+00	2.44E-04	0.00E+00	2.44E-04
Xe-135	Ci	2.08E-03	2.52E-03	6.69E-03	4.71E-03	1.60E-02
Xe-133m	Ci	7.75E-04	0.00E+00	6.92E-04	4.98E-04	1.97E-03
Xe-133	Ci	4.01E-01	6.34E-02	3.51E-01	1.32E-01	9.48E-01
Xe-135m	Ci	0.00E+00	0.00E+00	2.79E-04	3.76E-04	6.55E-04
Xe-138	Ci	3.19E-04	0.00E+00	0.00E+00	0.00E+00	3.19E-04
Total For Period	Ci	9.34E-01	5.70E-01	8.63E-01	5.45E-01	2.91E+00
B. Iodines and Halogens						
I-131	Ci	0.00E+00	0.00E+00	7.96E-08	0.00E+00	7.96E-08
C. Particulates						
Co-60	Ci	0.00E+00	0.00E+00	8.94E-08	0.00E+00	8.94E-08
D. Tritium						
H-3	Ci	3.74E+00	9.17E-01	3.86E+00	4.11E-01	8.93E+00
E. Gross Alpha						
G-Alpha	Ci	1.36E-09	0.00E+00	1.50E-09	0.00E+00	2.87E-09

If Not Detected, Nuclide is Not Reported. Zeroes in this table indicates that no radioactivity was present at detectable levels.

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Reg. Guide 1.21, Table 1B, Gaseous Effluents - Ground Level Release - Batch Mode

Unit:	Site
Starting: 1-Jan-2022	Ending: 31-Dec-2022

				Batch Mode		
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
F. Carbon-14						
No Nuclides Found	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00



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Reg. Guide 1.21, Table 1B, Gaseous Effluents - Ground Level Release - Continuous Mode

Unit: PSL1 Starting: 1-Jan-2022 Ending: 31-Dec-2022

		Continuous Mode					
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual	
A. Fission and Activation Gases		e Westminist of the left					
Xe-131m	Ci	0.00E+00	0.00E+00	1.08E+00	0.00E+00	1.08E+00	
Xe-135	Ci	0.00E+00	0.00E+00	1.04E+00	0.00E+00	1.04E+00	
Xe-137	Ci	1.64E+01	0.00E+00	0.00E+00	0.00E+00	1.64E+01	
Xe-133	Ci	8.84E-01	0.00E+00	1.48E+00	0.00E+00	2.36E+00	
Xe-138	Ci	2.94E+00	0.00E+00	0.00E+00	0.00E+00	2.94E+00	
Total For Period	Ci	2.02E+01	0.00E+00	3.59E+00	0.00E+00	2.38E+01	
B. Iodines and Halogens							
I-131	Ci	1.21E-06	0.00E+00	3.52E-06	2.05E-07	4.93E-06	
I-133	Ci	0.00E+00	0.00E+00	2.06E-05	0.00E+00	2.06E-05	
Total For Period	Ci	1.21E-06	0.00E+00	2.41E-05	2.05E-07	2.56E-05	
C. Particulates							
Co-57	Ci	0.00E+00	3.13E-07	0.00E+00	0.00E+00	3.13E-07	
Nb-95	Ci	0.00E+00	0.00E+00	2.76E-07	0.00E+00	2.76E-07	
Ce-144	Ci	0.00E+00	0.00E+00	4.39E-08	0.00E+00	4.39E-08	
Total For Period	Ci	0.00E+00	3.13E-07	3.20E-07	0.00E+00	6.33E-07	
D. Tritium							
H-3	Ci	2.58E+00	0.00E+00	0.00E+00	0.00E+00	2.58E+00	

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Reg. Guide 1.21, Table 1B, Gaseous Effluents - Ground Level Release - Continuous Mode

Unit: PSL1

Starting: 1-Jan-2022 Ending: 31-Dec-2022

		Continuous Mode							
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual			
E. Gross Alphä				••••••••••••••••••••••••••••••••••••••		************			
G-Alpha	Ci	2.21E-08	0.00E+00	0.00E+00	1.66E-08	3.88E-08			
F. Carbon-14									
C-14	Ci	2.76E+00	2.80E+00	1.96E+00	2.69E+00	1.02E+01			

Reg. Guide 1.21, Table 1B, Gaseous Effluents - Ground Level Release - Batch Mode

Unit: PSL1

Starting: 1-Jan-2022 Ending: 31-Dec-2022

				Batch Mode		
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
A. Fission and Activation Gases		• Version and a Middle Tool **********************************				4innan -
Ar-41	Ci	2.96E-01	2.90E-01	2.67E-01	1.79E-01	1.03E+00
Kr-85m	Ci	0.00E+00	0.00E+00	1.86E-04	6.72E-06	1.92E-04
Kr-87	Ci	0.00E+00	0.00E+00	1.46E-04	0.00E+00	1.46E-04
Kr-88	Ci	8.69E-05	0.00E+00	1.79E-04	0.00E+00	2.66E-04
Xe-131m	Ci	0.00E+00	0.00E+00	2,44E-04	0.00E+00	2.44E-04
Xe-135	Ci	1.74E-04	1.18E-04	5.22E-03	1.33E-03	6.85E-03
Xe-133m	Ci	5.28E-04	0.00E+00	6.92E-04	4.98E-04	1.72E-03
Xe-133	Ci	1.99E-02	2.02E-02	3.02E-01	4.90E-02	3.91E-01
Xe-135m	Ci	0.00E+00	0.00E+00	0.00E+00	3.76E-04	3.76E-04
Total For Period	Ci	3.16E-01	3.10E-01	5.75E-01	2.30E-01	1.43E+00
B. Iodines and Halogens						
I-131	Ci	0.00E+00	0.00E+00	7.96E-08	0.00E+00	7.96E-08
C. Particulates			•			
Co-60	Ci	0.00E+00	0.00E+00	8.94E-08	0.00E+00	8.94E-08
D. Tritium						
H-3	Ci	3.42E-01	6.65E-01	3.55E+00	1.29E-01	4.69E+00
E. Gross Alpha						
G-Alpha	Ci	0.00E+00	0.00E+00	1.50E-09	0.00E+00	1.50E-09
F. Carbon-14						
No Nuclides Found	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

If Not Detected, Nuclide is Not Reported. Zeroes in this table indicates that no radioactivity was present at detectable levels.

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Reg. Guide 1.21, Table 1B, Gaseous Effluents - Ground Level Release - Continuous Mode

Unit: PSL2 Starting: 1-Jan-2022 Ending: 31-Dec-2022

·		Continuous Mode					
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual	
A. Fission and Activation Gases							
Kr-85m	Ci	1.76E-01	0.00E+00	0.00E+00	1.94E-01	3.70E-01	
Xe-127	Ci	0.00E+00	0.00E+00	2.10E-01	0.00E+00	2.10E-01	
Xe-135	Ci	0.00E+00	0.00E+00	1.08E+00	0.00E+00	1.08E+00	
Xe-133m	Ci	0.00E+00	1.28E+00	0.00E+00	0.00E+00	1.28E+00	
Xe-133	Ci	8.77E-01	0.00E+00	1.39E+00	0.00E+00	2.27E+00	
Xe-138	Ci	0.00E+00	7.27E+01	0.00E+00	0.00E+00	7.27E+01	
Total For Period	Ci	1.05E+00	7.40E+01	2.68E+00	1.94E-01	7.79E+01	
B. Iodines and Halogens							
I-131	Ci	9.52E-07	0.00E+00	0.00E+00	0.00E+00	9.52E-07	
C. Particulates							
Co-58	Ci	0.00E+00	0.00E+00	0.00E+00	1.76E-06	1.76E-06	
Ru-103	Ci	0.00E+00	0.00E+00	0.00E+00	8.28E-07	8.28E-07	
Total For Period	Ci	0.00E+00	0.00E+00	0.00E+00	2.59E-06	2,59E-06	
D. Tritium	- 						
No Nuclides Found	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
E. Gross Alpha							
G-Alpha	Ci	4.29E-09	0.00E+00	0.00E+00	3.13E-09	7.42E-09	

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Florida Power & Light, St. Lucie Power Plant

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Reg. Guide 1.21, Table 1B, Gaseous Effluents - Ground Level Release - Continuous Mode

Unit: PSL2

Starting: 1-Jan-2022 Ending: 31-Dec-2022

				Continuous Mode	3	
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
F. Carbon-14						
C-14	Ci	2.23E+00	2.67E+00	2.71E+00	2.71E+00	1.03E+01

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If Not Detected, Nuclide is Not Reported. Zeroes in this table indicates that no radioactivity was present at detectable levels.

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Florida Power & Light, St. Lucie Power Plant

Reg. Guide 1.21, Table 1B, Gaseous Effluents - Ground Level Release - Batch Mode

Unit: PSL2

Starting: 1-Jan-2022 Ending: 31-Dec-2022

				Batch Mode		
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
A. Fission and Activation Gases			·			
Ar-41	Ci	2.34E-01	2.15E-01	2.26E-01	2.28E-01	9.02E-01
Kr-85m	Ci	4.64E-05	3.18E-05	0.00E+00	0.00E+00	7.82E-05
Kr-87	Ci	1.68E-04	0.00E+00	0.00E+00	0.00E+00	1.68E-04
Kr-88	Ci	0.00E+00	0.00E+00	0.00E+00	1.85E-04	1.85E-04
Kr-89	Ci	0.00E+00	0.00E+00	1.10E-02	0.00E+00	1.10E-02
Xe-135	Ci	1.91E-03	2.40E-03	1.47E-03	3.37E-03	9.14E-03
Xe-133m	Ci	2.47E-04	0.00E+00	0.00E+00	0.00E+00	2.47E-04
Xe-133	Ci	3.81E-01	4.32E-02	4.92E-02	8.34E-02	5.57E-01
Xe-135m	Ci	0.00E+00	0.00E+00	2.79E-04	0.00E+00	2.79E-04
Xe-138	Ci	3.19E-04	0.00E+00	0.00E+00	0.00E+00	3.19E-04
Total For Period	Ci	6.18E-01	2.60E-01	2.88E-01	3.15E-01	1.48E+00
B. Iodines and Halogens						
No Nuclides Found	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
C. Particulates						
No Nuclides Found	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
D. Tritium						
H-3	Ci	3.40E+00	2.52E-01	3.13E-01	2.82E-01	4,24E+00
E. Gross Alpha						
G-Alpha	Ci	1.36E-09	0.00E+00	0.00E+00	0.00E+00	1.36E-09

If Not Detected, Nuclide is Not Reported. Zeroes in this table indicates that no radioactivity was present at detectable levels.

User: admin

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Reg. Guide 1.21, Table 1B, Gaseous Effluents - Ground Level Release - Batch Mode

Unit: PSL2

Starting: 1-Jan-2022 Ending: 31-Dec-2022

·				Batch Mode		
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
F. Carbon-14						
No Nuclides Found	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00



Reg. Guide 1.21, Table 2A, Liquid Effluents - Summation of All Releases

Unit: Site

Total Release	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual	Uncertainty
A. Fission and Activation Products							
1. Total Release	Ci	1.12E-02	5.18E-03	2.04E-02	1.02E-02	4.70E-02	
2. Average Concentration	uCi/mL	1.57E-10	4.52E-11	1.16E-10	6.65E-11	9.12E-11	
3. Percent of Limit	%						
B. Tritium							
1. Total Release	Ci	2.49E+02	1.61E+02	2.88E+02	5.71E+01	7.55E+02	
2. Average Concentration	uCi/mL	3.51E-06	1.40E-06	1.64E-06	3.71E-07	1.47E-06	
3. Percent of Limit	%						
C. Dissolved and Entrained Gases							
1. Total Release	Ci	7.18E-04	3.11E-04	1.14E-02	1.36E-03	1.38E-02	
2. Average Concentration	uCi/mL	1.01E-11	2.72E-12	6.52E-11	8.85E-12	2.69E-11	
3. Percent of Limit	%						
D. Gross Alpha Activity							
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	
E. Primary Liquid Release Volume							
1. Total Release	Liters	2.87E+07	8.18E+07	7.03E+07	5.56E+07	2.36E+08	
F. Dilution Volume							
1. Total Release	Liters	7.09E+10	1.15E+11	1.75E+11	1.54E+11	5.15E+11	



Reg. Guide 1.21, Table 2A, Liquid Effluents - Summation of All Releases

Unit: PSL1

Total Release	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual	Uncertainty
A. Fission and Activation Products							
1. Total Release	Ci	5.58E-03	2.59E-03	1.02E-02	5.12E-03	2.35E-02	
2. Average Concentration	uCi/mL	1.57E-10	4.52E-11	1.16E-10	6.65E-11	9.12E-11	
3. Percent of Limit	%						
B. Tritium							
1. Total Release	Ci	1.24E+02	8.05E+01	1.44E+02	2.86E+01	3.77E+02	
2. Average Concentration	uCi/mL	3.51E-06	1.40E-06	1.64E-06	3.71E-07	1.47E-06	
3. Percent of Limit	%						
C. Dissolved and Entrained Gases							
1. Total Release	Ci	3.59E-04	1.56E-04	5.72E-03	6.82E-04	6.92E-03	
2. Average Concentration	uCi/mL	1.01E-11	2.72E-12	6.52E-11	8.85E-12	2.69E-11	
3. Percent of Limit	%						
D. Gross Alpha Activity							
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	
E. Primary Liquid Release Volume							
1. Total Release	Liters	1.44E+07	4.09E+07	3.52E+07	2.78E+07	1.18E+08	
F. Dilution Volume							
1. Total Release	Liters	3.55E+10	5.73E+10	8.77E+10	7.71E+10	2.58E+11	



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Reg. Guide 1.21, Table 2A, Liquid Effluents - Summation of All Releases

Unit: PSL2

Total Release	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual	Uncertainty
A. Fission and Activation Products							
1. Total Release	Ci	5.58E-03	2.59E-03	1.02E-02	5.12E-03	2.35E-02	
2. Average Concentration	uCi/mL	1.57E-10	4.52E-11	1.16E-10	6.65E-11	9.12E-11	
3. Percent of Limit	%						
B. Tritium							
1. Total Release	Ci	1.24E+02	8.05E+01	1.44E+02	2.86E+01	3.77E+02	
2. Average Concentration	uCi/mL	3.51E-06	1.40E-06	1.64E-06	3.71E-07	1.47E-06	
3. Percent of Limit	%						
C. Dissolved and Entrained Gases							
1. Total Release	Ci	3.59E-04	1.56E-04	5.72E-03	6.82E-04	6.92E-03	
2. Average Concentration	uCi/mL	1.01E-11	2.72E-12	6.52E-11	8.85E-12	2.69E-11	
3. Percent of Limit	%						
D. Gross Alpha Activity							
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	\[\] \[\[\] \[
E. Primary Liquid Release Volume							Ì
1. Total Release	Liters	1.44E+07	4.09E+07	3.52E+07	2.78E+07	1.18E+08	
F. Dilution Volume							
1. Total Release	Liters	3.55E+10	5.73E+10	8.77E+10	7.71E+10	2.58E+11	



Page 1 of 3 Monday, February 27, 2023 2:52:35PM Florida Power & Light St. Lucie Power Plant

Reg. Guide 1.21, Table 2B, Liquid Effluents - Continuous Mode

Unit: Site Starting: 1-Jan-2022 Ending: 31-Dec-2022

· · ·		Continuous Mode					
Nuclides Released A. Fission and Activation Products	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual	
No Nuclides Found	Ci	. 0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
B. Tritium	_						
No Nuclides Found	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
C. Dissolved and Entrained Gases	_						
No Nuclides Found	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
D. Gross Alpha Activity	_						
No Nuclides Found	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

Reg. Guide 1.21, Table 2B, Liquid Effluents - Batch Mode

Unit: Site

Starting: 1-Jan-2022 Ending: 31-Dec-2022

		Merry Martin Martin State St		Batch Mode		
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
A. Fission and Activation Products						
C-14	Ci	2.54E-03	2.50E-03	4.69E-03	7.41E-03	1.71E-02
Na-24	Ci	0.00E+00	0.00E+00	7.35E-06	0.00E+00	7.35E-06
Be-7	Cì	4.29E-05	4.44E-05	0.00E+00	0.00E+00	8.73E-05
Cr-51	Ci	5.82E-04	0.00E+00	1.75E-03	2.06E-05	2.35E-03
Mn-54	Ci	7.66E-05	0.00E+00	9.37E-05	7.06E-05	2.41E-04
Fe-59	Ci	1.64E-05	0.00E+00	0.00E+00	0.00E+00	1.64E-05
Co-57	Ci	0.00E+00	0.00E+00	0.00E+00	1.79E-06	1.79E-06
Co-58	Ci	2.54E-03	6.93E-04	2.43E-03	5.06E-04	6.17E-03
Co-60	Ci	3.30E-03	8.99E-04	4.41E-03	1.32E-03	9.92E-03
Ni-63	Ci	6.27E-04	2.42E-04	0.00E+00	0.00E+00	8.69E-04
Zn-65	Ci	2.63E-05	1.89E-05	1.36E-05	0.00E+00	5.88E-05
Zr-95	Ci	1.99E-04	1.02E-05	2.88E-04	2.84E-05	5.26E-04
Nb-95	Ci	3.33E-04	2.80E-05	4.91E-04	1.05E-04	9.57E-04
Nb-97 .	Ci	4.43E-04	1.17E-04	1.02E-03	2.55E-04	1.84E-03
Ag-110m	Ci	4.07E-04	5.75E-05	8.27E-04	2.15E-04	1.51E-03
Sn-113	Ci	0.00E+00	0.00E+00	0.00E+00	3.08E-06	3.08E-06
Sb-124	Ci	0.00E+00	1.51E-04	1.22E-03	3.58E-05	1.41E-03
Sb-125	Ci	0.00E+00	4.04E-04	3.03E-03	7.17E-05	3.51E-03
Te-129m	Ci	0.00E+00	0.00E+00	0.00E+00	8.19E-05	8.19E-05
Te-129	Ci	0.00E+00	0.00E+00	2.98E-05	0.00E+00	2.98E-05
I-133	Ci	0.00E+00	0.00E+00	3.44E-06	0.00E+00	3.44E-06
I-135	Ci	9.05E-06	0.00E+00	0.00E+00	0,00E+00	9.05E-06
Cs-136	Ci	0.00E+00	0.00E+00	8.46E-06	0.00E+00	8.46E-06
Cs-137	Ci	0.00E+00	0.00E+00	3.94E-05	1.17E-04	1.56E-04
La-140	Ci	7.72E-06	0.00E+00	7.28E-06	0.00E+00	1.50E-05
W-187	Ci	2.01E-05	1.74E-05	0.00E+00	5.71E-06	4.32E-05

Reg. Guide 1.21, Table 2B, Liquid Effluents - Batch Mode

Unit: Site

Starting: 1-Jan-2022 Ending: 31-Dec-2022

		Batch Mode						
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual		
Total For Period	Ci	1.12E-02	5.18E-03	2.04E-02	1.02E-02	4.70E-02		
B. Tritium								
H-3	Ci	2.49E+02	1.61E+02	2.88E+02	5.71E+01	7.55E+02		
C. Dissolved and Entrained Gases								
Ar-41	Ci	3.12E-06	0.00E+00	1.19E-05	0.00E+00	1.50E-05		
Xe-133m	Ci	0.00E+00	0.00E+00	8.53E-05	0.00E+00	8.53E-05		
Xe-135	Ci	0.00E+00	0.00E+00	4.94E-05	0.00E+00	4.94E-05		
Xe-133	Ci	7.15E-04	3.11E-04	1.13E-02	1.36E-03	1.37E-02		
Total For Period	Ci	7.18E-04	3.11E-04	1.14E-02	1.36E-03	1.38E-02		
D. Gross Alpha Activity								
No Nuclides Found	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		

If Not Detected, Nuclide is Not Reported. Zeroes in this table indicates that no radioactivity was present at detectable levels.

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Reg. Guide 1.21, Table 2B, Liquid Effluents - Batch Mode

Unit: PSL1

Starting: 1-Jan-2022 Ending: 31-Dec-2022

				Batch Mode		
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
A. Fission and Activation Products						
C-14	Ci	1.27E-03	1.25E-03	2.35E-03	3.70E-03	8.57E-03
Na-24	Ci	0.00E+00	0.00E+00	3.68E-06	0.00E+00	3.68E-06
Be-7	Ci	2.14E-05	2.22E-05	0.00E+00	0.00E+00	4.36E-05
Cr-51	Ci	2.91E-04	0.00E+00	8.74E-04	1.03E-05	1.18E-03
Mn-54	Ci	3.83E-05	0.00E+00	4.68E-05	3.53E-05	1.20E-04
Fe-59	Ci	8.19E-06	0.00E+00	0.00E+00	0.00E+00	8.19E-06
Co-57	Ci	0.00E+00	0.00E+00	0.00E+00	8.93E-07	8.93E-07
Co-58	Ci	1.27E-03	3.46E-04	1.21E-03	2.53E-04	3.08E-03
Co-60	Ci	1.65E-03	4.49E-04	2.20E-03	6.58E-04	4.96E-03
Ni-63	Ci	3.14E-04	1.21E-04	0.00E+00	0.00E+00	4.35E-04
Zn-65	Ci	1.32E-05	9.43E-06	6.81E-06	0.00E+00	2.94E-05
Zr-95	Ci	9.97E-05	5.09E-06	1.44E-04	1.42E-05	2.63E-04
Nb-95	Ci	1.66E-04	1.40E-05	2.45E-04	5.25E-05	4.78E-04
Nb-97	Ci	2.21E-04	5.86E-05	5.11E-04	1.27E-04	9.18E-04
Ag-110m	Ci	2.03E-04	2.87E-05	4.13E-04	1.08E-04	7.53E-04
Sn-113	Ci	0.00E+00	0.00E+00	0.00E+00	1.54E-06	1.54E-06
Sb-124	Ci	0.00E+00	7.53E-05	6.12E-04	1.79E-05	7.05E-04
Sb-125	Ci	0.00E+00	2.02E-04	1.52E-03	3.59E-05	1.75E-03
Te-129m	Ci	0.00E+00	0.00E+00	0.00E+00	4.10E-05	4.10E-05
Te-129	Ci	0.00E+00	0.00E+00	1.49E-05	0.00E+00	1.49E-05
I-133	Ci	0.00E+00	0.00E+00	1.72E-06	0.00E+00	1.72E-06
I-135	Ci	4.53E-06	0.00E+00	0.00E+00	0.00E+00	4.53E-06
Cs-136	Ci	0.00E+00	0.00E+00	4.23E-06	0.00E+00	4.23E-06
Cs-137	Ci	0.00E+00	0.00E+00	1.97E-05	5.85E-05	7.81E-05
La-140	Ci	3.86E-06	0.00E+00	3.64E-06	0.00E+00	7.50E-06
W-187	Ci	1.00E-05	8.69E-06	0.00E+00	2.86E-06	2.16E-05

If Not Detected, Nuclide is Not Reported. Zeroes in this table indicates that no radioactivity was present at detectable levels.

User: admin

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Reg. Guide 1.21, Table 2B, Liquid Effluents - Batch Mode

Unit: PSL1

Starting: 1-Jan-2022 Ending: 31-Dec-2022

		Batch Mode						
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual		
Total For Period	Ci	5.58E-03	2.59E-03	1.02E-02	5.12E-03	2.35E-02		
B. Tritium								
H-3	Ci	1.24E+02	8.05E+01	1.44E+02	2.86E+01	3.77E+02		
C. Dissolved and Entrained Gases								
Ar-41	Ci	1.56E-06	0.00E+00	5.93E-06	0.00E+00	7.49E-06		
Xe-135	Ci	0.00E+00	0.00E+00	2.47E-05	0.00E+00	2.47E-05		
Xe-133m	Ci	0.00E+00	0.00E+00	4.26E-05	0.00E+00	4.26E-05		
Xe-133	Ci	3.58E-04	1.56E-04	5.65E-03	6.82E-04	6.84E-03		
Total For Period	Ci	3.59E-04	1.56E-04	5.72E-03	6.82E-04	6.92E-03		
D. Gross Alpha Activity								
No Nuclides Found	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00		

If Not Detected, Nuclide is Not Reported. Zeroes in this table indicates that no radioactivity was present at detectable levels.

User: admin

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Reg. Guide 1.21, Table 2B, Liquid Effluents - Batch Mode

Unit: PSL2

Starting: 1-Jan-2022 Ending: 31-Dec-2022

				Batch Mode		
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
A. Fission and Activation Products						
C-14	Ci	1.27E-03	1.25E-03	2.35E-03	3.70E-03	8.57E-03
Na-24	Ci	0.00E+00	0.00E+00	3.68E-06	0.00E+00	3.68E-06
Be-7	Ci	2.14E-05	2.22E-05	0.00E+00	0.00E+00	4.36E-05
Cr-51	Ci	2.91E-04	0.00E+00	8.74E-04	1.03E-05	1.18E-03
Mn-54	Ci	3.83E-05	0.00E+00	4.68E-05	3.53E-05	1.20E-04
Fe-59	Ci	8.19E-06	0.00E+00	0.00E+00	0.00E+00	8.19E-06
Co-57	Ci	0.00E+00	0.00E+00	0.00E+00	8.93E-07	8.93E-07
Co-58	Ci	1.27E-03	3.46E-04	1.21E-03	2.53E-04	3.08E-03
Co-60	Ci	1.65E-03	4.49E-04	2.20E-03	6.58E-04	4.96E-03
Ni-63	Ci	3.14E-04	1.21E-04	0.00E+00	0.00E+00	4.35E-04
Zn-65	Ci	1.32E-05	9.43E-06	6.81E-06	0.00E+00	2.94E-05
Zr-95	Ci	9.97E-05	5.09E-06	1.44E-04	1.42E-05	2.63E-04
Nb-95	Ci	1.66E-04	1.40E-05	2.45E-04	5.25E-05	4.78E-04
Nb-97	Ci	2.21E-04	5.86E-05	5.11E-04	1.27E-04	9.18E-04
Ag-110m	Ci	2.03E-04	2.87E-05	4.13E-04	1.08E-04	7.53E-04
Sn-113	Ci	0.00E+00	0.00E+00	0.00E+00	1.54E-06	1.54E-06
Sb-124	Ci	0.00E+00	7.53E-05	6.12E-04	1.79E-05	7.05E-04
Sb-125	Ci	0.00E+00	2.02E-04	1.52E-03	3.59E-05	1.75E-03
Te-129m	Ci	0.00E+00	0.00E+00	0.00E+00	4.10E-05	4.10E-05
Te-129	Ci	0.00E+00	0.00E+00	1.49E-05	0.00E+00	1.49E-05
I-133	Ci	0.00E+00	0.00E+00	1.72E-06	0.00E+00	1.72E-06
I-135	, Ci	4.53E-06	0.00E+00	0.00E+00	0.00E+00	4.53E-06
Cs-136	Ci	0.00E+00	0.00E+00	4.23E-06	0.00E+00	4.23E-06
Cs-137	Ci	0.00E+00	0.00E+00	1.97E-05	5.85E-05	7.81E-05
La-140	Ci	3.86E-06	0.00E+00	3.64E-06	0.00E+00	7.50E-06
W-187	Ci	1.00E-05	8.69E-06	0.00E+00	2.86E-06	2.16E-05

If Not Detected, Nuclide is Not Reported. Zeroes in this table indicates that no radioactivity was present at detectable levels.

User: admin

Florida Power & Light, St. Lucie Power Plant

Reg. Guide 1.21, Table 2B, Liquid Effluents - Batch Mode

Unit: PSL2

Starting: 1-Jan-2022 Ending: 31-Dec-2022

· .		Batch Mode					
Nuclides Released	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual	
Total For Period	Ci	5.58E-03	2.59E-03	1.02E-02	5.12E-03	2.35E-02	
B. Tritium							
H-3	Ci	1.24E+02	8.05E+01	1.44E+02	2.86E+01	3.77E+02	
C. Dissolved and Entrained Gases							
Ar-41	Ci	1.56E-06	0.00E+00	5.93E-06	0.00E+00	7.49E-06	
Xe-133m	Ci	0.00E+00	0.00E+00	4.26E-05	0.00E+00	4.26E-05	
Xe-135	Ci	0.00E+00	0.00E+00	2.47E-05	0.00E+00	2.47E-05	
Xe-133	Ci	3.58E-04	1.56E-04	5.65E-03	6.82E-04	6.84E-03	
Total For Period	Ci	3.59E-04	1.56E-04	5.72E-03	6.82E-04	6.92E-03	
D. Gross Alpha Activity							
No Nuclides Found	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

If Not Detected, Nuclide is Not Reported. Zeroes in this table indicates that no radioactivity was present at detectable levels.

3.2 Solid Waste Storage and Shipments

WMG Suite 9.5.2 Reg Guide Report Report Date: 02/16/2023



NRC Regulatory Guide 1.21 Report

Solid Waste Shipped Offsite for Disposal and Estimates of Major Nuclides by Waste Class and Stream

During Period From: 01/01/2022 to 12/31/2022

· Wasto	v. v	Curies	
Class	e	m [*]	Shipped
A	0,00E+00	0.00E+00	0.00E+00
B	0,00E+00	0,00E+00	0,00E+00
Ċ	0.00E+00	0.00E+00	0.00E+00
Unclassified	0:00E+00	0,00E+00	0.00E+00
All	0.00E+00	0.00E+00	0.00E+00

Major Nuclides for the Above Table:

	Sum Of All Low-Leve	Waste Shipped From Site	
Waste	Vól	ume	Ourles
Glass	ft ²	m ^a	+ Shipped
A	2.83E+04	8.01E+02	2:26E+01
B	0.00E+00	0;00E+00	0,00E+00
Ċ	0.00E+00	0,00E+00	0,00E+00
Unclassified	0.00E+00	0.00E+00	0.00E+00
All	2.83E+04	8,01E+02	2.25E+01

Major Nuclides for the Above Table:

H-3, C-14, Cr-51, Fe-55, Co-58, Co-60, Ni-59, Ni-63, Sr-90, Zr-95, Nb-95, Tc-99, I-129, Cs-137, Ce-144, Pu-238, Am-241, Cm-242, Cm-243



WMG Suite 9.5.2 Reg Guide Activity Report Report Date: 02/16/2023

NRC Regulatory Guide 1.21 Activity Report

 Solid Waste Shipped Offsite for Disposal and Estimates of Major Nuclides by Shipment, Package, and Category

 During Period From: 01/01/2022 to 12/31/2022

 Percent Cutoff: 1.0%

Nuclide Name	Abundance	Activity (C
H-3	98.15%	2.21E+0
Fe-55	1.08%	2.43E-0
Combined		
Nuclide Name	Abundance	Activity (C
H-3	98.15%	2.21E+0
1	the second se	2.43E-0

Nuclide Name	Abundance	Activity (Ci
H-3	98.15%	2.21E+01
Fe-55	1.08%	2,43E-01
Comblned		
Nuclide Name	Abundance	Activity (Ci
H-3	98.15%	2.21E+01
Fe-55	1.08%	2.43E-0

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WMG Suite 9.5.2 Reg Guide Report Report Date: 02/16/2023 During Period From: 01/01/2022 to 12/31/2022

Total Shipments by Carrier

Number of Shipments per each carrier

Number of Shipments -1	Mode of Transportation Hittman Transport (TN)	Destination Energy Solutions, (DTK) Gallaher Road
		628 Gallaher Road
5	Hillman Transport (TN)	Energy Solutions, (DTK) Gallaher Road 628 Gallaher Road
10	Hillman Transport (TN)	EnergySolutions Bear Creek 1560 Bear Creek Road

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WMG Suite 9.5.2 Report date: 2/16/2023

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NRC Regulatory Guide 1.21 Report Shipment and Package Summary



Solid Waste Shipped Offsite for Disposal

During Period from: 1/1/2022 to 12/31/2022

Simpment Date	s Manifestile	Destination	Package Name	Category - Name	NIRC, CINUB	i ditt nyne
1/ <u>12/2</u> 022	FPL/PSL 22-	EnergySolutio	RCB#3	Dry Active Waste	A	A LSA-II
	200 Ton 10 retrievely 200 200 1 2 m		RCB#6	Dry Active Waste	A	A LSA-II
4/11/2022	FPL/PSL/22- 016	EnergySolutio ns Bear Creek	123	Dry Active Waste	A	Exempt Quantity
and the second second second			118	Dry Active Waste	A	Exempt Quantity
5/13/2022	FPL/PSL 22- 024	EnergySolutio ns Bear Creek	ESUU200359	Dry Active Waste	A	A LSA-I
			ESUU200866	Dry Active Waste	A	Exempt Quanlity
6/13/2022	- FPL/PSL 22-	EnergySolutions Bear Creek	110	Dry Active Waste	A	Exempt Quantity
8/10/2022	FPL/PSL 22- 051	Energy Solutions, (DTK) Gallaher Road	ESUU300005	Dry Active Waste	A	Exempt Quantity
		_ 	ESUU200825	Dry Active Waste	A	Exempt Quantity
8/11/2022	FPL/PSL 22- 050	EnergySolutio ns Bear Creek	ESUU200459	Dry Active Waste	A	A LSA-I
			ESUU200620	Dry Active Waste	A	ALSA
9/19/2022	FPL/PSL 22- 062	Energy Solutions, (DTK) Gallaher Road	ESUU200379	Dry Active Waste	A	Exempt Quantity
		I	ESUU300362	Dry Active	A	Exempt Quantily
9/19/2022	FPL/PSL 22- 063	Energy Solutions, (DTK) Gallaher Road	ESUU300332	Dry Active Waste	A	Exempt Quantity
L			ESUU200718	Dry Active Waste	A	Exempt Quantity
9/26/2022	FPL/PSL 22- 066	Energy Solutions, (DTK) Gallaher Road	ESUU300577	Dry Active Waste	A	Exempt Quantity
9/26/2022	FPL/PSL 22- 065	Energy Solutions, (DTK) Gallaher Road	ESUU300688	Dry Active Waste	A	Exempt Quantity

Page 1 of 2

WMG Suite 9.5.2 Report date: 2/16/2023

NRC Regulatory Guide 1.21 Report Shipment and Package Summary



Solid Waste Shipped Offsite for Disposal

During Period from: 1/1/2022 to 12/31/2022

10/12/2022	FPL/PSL 22- 075	EnergySolutio	ESUU200612	Dry Active Waste	A	A LSA-II
			ESUU200701	Dry Active Waste	A	A LSA-II
10/12/2022	FPL/PSL 22- 074	EnergySolutio ns Bear Creek	ESUU200730	Dry Active Waste	А	A LSA-II
			ESUU200606	Dry Active Waste	A	A LSA-II
10/17/2022	FPL/PSL 22- 076	EnergySolutio ns Bear Creek	ESUU800264	Dry Active Waste	A	A LSA-II
12/12/2022	FPL/PSL-22- 086	EnergySolútio	ESUU200448	Dry Active Waste	Α	A LSA-II
	<u></u>	<u></u>	ESUU202048	Dry Active Waste	А	A LSA-II
12/12/2022	FPL/PSL-22- 085	Energy Solutions, (DTK) Gallaher Road	ESUU200327'	Dry Active Waste	A	Exempt Quantity
an a	nan san san san san san san san san san	ne nen sinte finite data data data data data data data da	ESUU200337	Dry Active Waste	A	Exempt Quantity
12/28/2022	FPL/PSL 22- 095	EnergySolutio	22-095	Dry Active Waste	A	Limited Quantity

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3.3 Dose Assessments



Reg. Guide 1.21, App B, Sec Doses due to Radioiodines, Tritium, and Particulates in Gaseous Releases

Unit: Site

Organ Dose	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
Bone	mRem	1.28E-03	1.40E-03	1.20E-03	1.38E-03	5.26E-03
Limit	mRem					
Percent of Limit	%				een op haarde en oor ee haar ee oor ee kan oor kaar an de oor ee de ook aan aan aan de be	
Liver	mRem	1.21E-03	1.21E-03	1.10E-03	1.18E-03	4.71E-03
Limit	mRem					
Percent of Limit	%					
Total Body	mRem	1.21E-03	1.21E-03	1.10E-03	1.18E-03	4.71E-03
Limit	mRem					
Percent of Limit	%					
Thyroid	mRem	1.21E-03	1.21E-03	1.11E-03	1.18E-03	4.72E-03
Limit	mRem					
Percent of Limit	%					
Kidney	mRem	2.08E-04	1.75E-04	1.79E-04	1.68E-04	7.30E-04
Limit	mRem					
Percent of Limit	%					
Lung	mRem	1.21E-03	1.21E-03	1.10E-03	1.18E-03	4.71E-03
Limit	mRem					
Percent of Limit	%					
GI-Lli	mRem	1.21E-03	1.21E-03	1.10E-03	1.18E-03	4.71E-03
Limit	mRem					
Percent of Limit	%					
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Reg. Guide 1.21, App B, Sec Doses due to Radioiodines, Tritium, and Particulates in Gaseous Releases

Unit: PSL1

Organ Dose	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
Bone	mRem	7.06E-04	7,18E-04	5.01E-04	6.89E-04	2.62E-03
Limit	mRem					
Percent of Limit	%		······································			
Liver	mRem	6.63E-04	6.24E-04	5.03E-04	5.88E-04	2.38E-03
Limit ·	mRem					
Percent of Limit	%					
Total Body	mRem	6.63E-04	6.24E-04	5.03E-04	5.88E-04	2.38E-03
Limit	mRem					
Percent of Limit	%					
Thyroid	mRem	6.64E-04	6.24E-04	5.09E-04	5.88E-04	2.39E-03
Limit	mRem					
Percent of Limit	%					
Kidney	mRem	1.12E-04	9.16E-05	9.34E-05	8.30E-05	3.80E-04
Limit	mRem					
Percent of Limit	%					
Lung	mRem	6.63E-04	6.24E-04	5.03E-04	5.88E-04	2.38E-03
Limit	mRem					
Percent of Limit	%					
GI-Lli	mRem	6.63E-04	6.24E-04	5.03E-04	5.88E-04	2.38E-03
Limit	mRem					
Percent of Limit	%					



Reg. Guide 1.21, App B, Sec Doses due to Radioiodines, Tritium, and Particulates in Gaseous Releases

Unit: PSL2

Organ Dose	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
Sone	mRem	5.70E-04	6.85E-04	6.94E-04	6.94E-04	2.64E-03
imit	mRem					
ercent of Limit	%					
iver	mRem	5.50E-04	5.87E-04	5.96E-04	5.96E-04	2.33E-03
mit	mRem					
ercent of Limit	%					
otal Body	mRem	5.50E-04	5.87E-04	5.96E-04	5.96E-04	2.33E-03
imit	mRem					
Percent of Limit	%					
-hyroid	mRem	5.50E-04	5.87E-04	5.96E-04	5.96E-04	2.33E-03
imit	mRem					
Percent of Limit	.%					
(idney	mRem	9.62E-05	8,36E-05	8.54E-05	8.52E-05	3.50E-04
imit	mRem					
Percent of Limit	%					•
1100	mRem	5.50E-04	5.87E-04	5.96E-04	5.96E-04	2.33E-03
Lung	mRem					
Limit Percent of Limit	%					
						2.33E-03
GI-Lli	mRem	5.50E-04	5.87E-04	5.96E-04	5.96E-04	· 2.33E-03
Limit	mRem					
Percent of Limit	. %					



Reg. Guide 1.21, App B, Sec Air Doses Due To Gaseous Releases

Unit: Site

NG Dose	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
Gamma Air	mRad	2.93E-03	3,42E-02	5.15E-04	2.07E-04	3.79E-02
Limit Percent of Limit	mRad %					
Beta Air Limit Percent of Limit	mRad mRad %	1.15E-02	1.77E-02	5.85E-04	9.48E-05	2.99E-02
NG Total Body Limit Percent of Limit	mRem mRem %	2.78E-03	3.28E-02	4.78E-04	1.97E-04	3.63E-02
NG Skin Limit Percent of Limit	mRem mRem %	1.41E-02	5.30E-02	9.15E-04	3.00E-04	6.83E-02



Reg. Guide 1.21, App B, Sec Air Doses Due To Gaseous Releases

Unit: PSL1

NG Dose	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
Gamma Air	mRad	2.78E-03	1.37E-04	2.68E-04	8.54E-05	3.27E-03
Limit Percent of Limit	mRad %					
Beta Air Limit Percent of Limit	mRad mRad %	1.14E-02	4.93E-05	3.30E-04	3.26E-05	1.18E-02
NG Total Body Limit Percent of Limit	mRem mRem %	2.64E-03	1.30E-04	2.47E-04	8.10E-05	3.10E-03
NG Skin Limit Percent of Limit	mRem mRem %	1.39E-02	1.91E-04	4.83E-04	1.19E-04	1.47E-02



Reg. Guide 1.21, App B, Sec Air Doses Due To Gaseous Releases

Unit: PSL2

Starting: 1-Jan-2022 Ending: 31-Dec-2022

NG Dose	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
Gamma Air	mRad	1.44E-04	3.41E-02	2.47E-04	1.22E-04	3.46E-02
Limit Percent of Limit	mRad %					
Beta Air Limit Percent of Limit	mRad mRad %	1.24E-04	1.76E-02	2.55E-04	6 . 22E-05	1.81E-02
NG Total Body Limit Percent of Limit	mRem mRem %	1.34E-04	3.27E-02	2.31E-04	1.15E-04	3.32E-02
NG Skin Limit Percent of Limit	mRem mRem %	2.23E-04	5.28E-02	4.32E-04	1.81E-04	5.36E-02

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Reg. Guide 1.21, App B, Sec Doses to a member of the public due to Liquid Releases

Unit: Site

Organ Dose	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
Bone	mRem	7.60E-04	5.24E-04	5.81E-04	6.52E-04	2.30E-03
limit	mRem					
Percent of Limit	%					
Liver	mRem	1.78E-03	1.50E-03	2.58E-03	9.05E-04	6.68E-03
imit	mRem					
Percent of Limit	%					
Total Body	mRem	1.81E-03	1.46E-03	2.82E-03	9.66E-04	6.95E-03
Limit	mRem					
Percent of Limit	%					
Thyroid	mRem	1.30E-03	1.27E-03	2.14E-03	8.30E-04	5.44E-03
Limit	mRem					
Percent of Limit	%					
Kidney	mRem	1.73E-03	1.60E-03	2.65E-03	7.01E-04	6.68E-03
Limit	mRem					
Percent of Limit	%					
Lung	mRem	1.32E-03	1.46E-03	3.95E-03	8.43E-04	7.48E-03
Limit	mRem					
Percent of Limit	%					
	mRem	1.55E-02	3.78E-03	3.10E-02	5.52E-03	5.58E-02
GI-Lli		T'77F_07	3,702 00			*****
Limit	mRem %					
Percent of Limit	<u> </u>					



Reg. Guide 1.21, App B, Sec Doses to a member of the public due to Liquid Releases

Unit: PSL1

Organ Dose	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
Bone	mRem	3.80E-04	2.62E-04	2.91E-04	3.26E-04	1.15E-03
Limit	mRem					
Percent of Limit	%					
Liver	mRem	8.89E-04	7.48E-04	1.29E-03	4.52E-04	3.34E-03
imit	mRem					
Percent of Limit	%					
Total Body	mRem	9.03E-04	7.32E-04	1.41E-03	4.83E-04	3.48E-03
Limit	mRem					
Percent of Limit	%					
Thyroid	mRem	6.52E-04	6.34E-04	1.07E-03	4.15E-04	2.72E-03
Limit	mRem					
Percent of Limit	%					
Kidney	mRem	8.66E-04	8.02E-04	1.32E-03	3.50E-04	3.34E-03
Limit	mRem					
Percent of Limit	%					
Lung	mRem	6.58E-04	7.30E-04	1.98E-03	4.21E-04	3.74E-03
Limit	mRem					
Percent of Limit	%					
	mRem	7,73E-03	1.89E-03	1.55E-02	2.76E-03	2.79E-02
GI-Lli	mRem					
Limit Percent of Limit	%					



Reg. Guide 1.21, App B, Sec Doses to a member of the public due to Liquid Releases

Unit: PSL2

Organ Dose	Units	1ST Quarter	2ND Quarter	3RD Quarter	4TH Quarter	Annual
Bone	mRem	3.80E-04	2.62E-04	2.91E-04	3.26E-04	1.15E-03
Limit	mRem			•		
Percent of Limit	%					
Liver	mRem	8.89E-04	7.48E-04	1.29E-03	4.52E-04	3.34E-03
Limit	mRem					
Percent of Limit	%					
Total Body	mRem	9.03E-04	7.32E-04	1.41E-03	4.83E-04	3.48E-03
Limit	mRem					
Percent of Limit	%					
Thyroid	mRem	6.52E-04	6.34E-04	1.07E-03	4.15E-04	2.72E-03
Limit	mRem					
Percent of Limit	%					
Kidney	mRem	8.66E-04	8.02E-04	1.32E-03	3.50E-04	3.34E-03
Limit	mRem					
Percent of Limit	%					
Lung	mRem	6.58E-04	7.30E-04	1.98E-03	4.21E-04	3.74E-03
Limit	mRem					
Percent of Limit	%					
	mRem	7.73E-03	1.89E-03	1.55E-02	2.76E-03	2.79E-02
GI-Lli	mRem	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.07 - 30			
Limit	%					
Percent of Limit						•

Liquid Status Summary Report

Site/Unit/Discharge Point: Site

Liquid Dose Summary - Note: All Doses in mRem

Receptor	Agegroup	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-Lli	Skin
Liquid Receptor - Teenager	Teenager	2.303E-03	6.679E-03	6.953E-03	5.441E-03	6.685E-03	7.483E-03	5.577E-02	0.000E+00
Liquid Recptor - Child	Child	2.116E-03	5.888E-03	6.557E-03	5.118E-03	2.905E-03	6.001E-03	2.459E-02	0.000E+00
Maximum Dose by Orga	n:	2,303E-03	6.679E-03	6.953E-03	5.441E-03	6.685E-03	7.483E-03	5.577E-02	0.000E+00

Maximum Organ Dose (mRem): 5.577E-02 6.953E-03 Maximum Total Body Dose (mRem):

Liquid Status Summary Report

Period: Ann, 2022

Site/Unit/Discharge Point: PSL1

Liquid Dose Summary - Note: All Doses in mRem

Receptor	Agegroup	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-Lli	Skin
Liquid Receptor - Teenager	Teenager	1.151E-03	3.340E-03	3.477E-03	2.720E-03	3.342E-03	3.741E-03	2.788E-02	0.000E+00
Liquid Recptor - Child	Child	1.058E-03	2.944E-03	3.278E-03	2.559E-03	1.453E-03	3.001E-03	1.229E-02	0.000E+00
Maximum Dose by Organ	ו:	1.151E-03	3.340E-03	3.477E-03	2.720E-03	3.342 <u>E</u> -03	3.741E-03	2.788E-02	0.000E+00

Maximum Organ Dose (mRem):2.788E-02Maximum Total Body Dose (mRem):3.477E-03

User: admin

Liquid Status Summary Report

Period: Ann, 2022

Site/Unit/Discharge Point: PSL2

Liquid Dose Summary - Note: All Doses in mRem

Receptor	Agegroup	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-Lli	Skin
Liquid Receptor - Teenager	Teenager	1.151E-03	3.340E-03	3.477E-03	2.720E-03	3.342E-03	3.741E-03	2.788E-02	0.000E+00
Liquid Recptor - Child	Child	1.058E-03	2.944E-03	3.278E-03	2.559E-03	1.453E-03	3.001E-03	1.229E-02	0.000E+00
Maximum Dose by Orga	an:	1.151E-03	3.340E-03	3.477E-03	2.720E-03	3.342E-03	3.741E-03	2.788E-02	0.000E+00

Maximum Organ Dose (mRem):2.788E-02Maximum Total Body Dose (mRem):3.477E-03

User: admin

Gas Status Summary Report

Period: Ann, 2022 Site/Unit/Discharge Point: Site

Site Boundary NNG Doserate Summary - Note: All Doses in mRem/yr

Receptor	Agegroup	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-Lli	Skin
NW Site Boundary - In WNW Site Boundary - I	Infant Infant	5.259E-03 3.562E-07	4.708E-03 3.562E-07	4.708E-03 3.562E-07	4.715E-03 3.562E-07	7.302E-04 3.562E-07	4,708E-03 3.562E-07	4.708E-03 3.562E-07	0.000E+00 0.000E+00
Maximum Decerate by O		5.259E-03	4.708E-03	4.708E-03	4.715E-03	7.302E-04	4.708E-03	4.708E-03	0.000E+00

Maximum Doserate by Organ:

Maximum Organ Doserate (mRem/yr):5.259E-03Maximum Total Body Doserate (mRem/yr):4.708E-03

Site Boundary NG Doserate Summary

Gas Receptor Location	Gamma (mRad/yr)	Beta (mRad/yr)	Total Body (mRem/yr)	Skin (mRem/yr)
NW Site Boundary WNW Site Boundary	3.787E-02 3.262E-02	2.985E-02 2.572E-02	3.625E-02 3.123E-02	6.830E-02 5.884E-02
Maximum NG Dose Rate:	3.787E-02	2.985E-02	3.625E-02	6.830E-02

Gas Status Summary Report

Site/Unit/Discharge Point: Site Period: Ann, 2022

Maximum Individual NNG Dose Summary - Note: All Doses in mRem

Bacaptor	Agegroup	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-Lli	Skin
Receptor	Adult	4.123E-08	5,340E-08	3.622E-08	1.208E-05	8.062E-08	2.521E-08	3.193E-08	0.000E+00
NW - Near Milk - Adult		1.221E-07	1.265E-07	9.655E-08	3.539E-05	8.253E-08	2.708E-08	3.039E-08	0.000E+00
NW Near Milk - Child	Child	2.355E-07	2.822E-07	1.675E-07	8.420E-05	7.743E-08	2.459E-08	3.032E-08	0.000E+00
NW Near Milk - Infant	Infant —		7.983E-08	5.230E-08	1.809E-05	9.856E-08	2.984E-08	3.530E-08	0.000E+00
NW Near Milk - Teenager	Teenager	6.003E-08	9.687E-08	9.131E-08	2.429E-06	1.038E-07	1,309E-07	9.736E-08	0.000E+00
SE Nearest Res - Adult	Adult	9.337E-08		9.404E-08	3.599E-06	9.496E-08	1.389E-07	9.191E-08	0.000E+00
SE Nearest Res - Child	Child	9.851E-08	1.000E-07	9.404E-08 9.219E-08	3.323E-06	9.024E-08	1.283E-07	8.911E-08	0.000E+00
SE Nearest Res – Infant	Infant	9.625E-08	9.919E-08	9.270E-08	2.981E-06	1.038E-07	1.506E-07	9.714E-08	0.000E+00
SE Nearest Res - Teenager	Teenager	9.556E-08	1.002E-07		1.063E-06	4.775E-08	5.960E-08	4.494E-08	0.000E+00
SE Visitor - Lifeguard 1.0 mi	Adult	4,319E-08	4.472E-08	4.229E-08	1.008E-06	4.776E-08	5.897E-08	4.510E-08	0.000E+00
W Near Garden – Adult	Adult	4.345E-08	4.490E-08	4.260E-08		4.411E-08	6.224E-08	4.285E-08	0.000E+00
W Near Garden - Child	Child	4.558E-08	4.620E-08	4.373E-08	1.491E-06		6.707E-08	4.501E-08	0.000E+00
W Near Garden - Teenager	Teenager	4.436E-08	4.626E-08	4.318E-08	1.236E-06	4.776E-08	0.707E-08	4.5012-08	0.0002+00
Maximum Dose by Organ	n:	2.355E-07	2.822E-07	1.675E-07	8.420E-05	1.038E-07	1.506E-07	9.736E-08	0.000E+00

8.420E-05 Maximum Organ Dose (mRem): Maximum Total Body Dose (mRem):

1.675E-07

Maximum Individual NG Dose Summary

Gas Receptor Location	Gamma (mRad)	Beta (mRad)	Total Body (mRem)	Skin (mRem)
NW Near Milk 4.25 mi		2.612E-03	3.172E-03	5.977E-03
SE Nearest Res 1.52 mi 142 deg	1.685E-02	1.329E-02	1.614E-02	3.040E-02
SE Visitor @ 1 mi	7.298E-03	5.753E-03	6.986E-03	1.316E-02
W Near Gard 2.0 miles	5.798E-03	4.571E-03	5.551E-03	1.046E-02
		1,329E-02	1.614E-02	3.040E-02
Maximum NG Dose:	1.685E-02	1.5290-02	1.0116.02	

Period: Ann, 2022 Site/Unit,

Site/Unit/Discharge Point: PSL1

Site Boundary NNG Doserate Summary - Note: All Doses in mRem/yr

Receptor	Agegroup	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-Lli	Skin
NW Site Boundary - In WNW Site Boundary - I	Infant Infant	2.615E-03 7.455E-08	2.379E-03 7.455E-08	2.379E-03 7.455E-08	2.386E-03 7.455E-08	3.797E-04 7.455E-08	2.379E-03 7.455E-08	2.379E-03 7.455E-08	0.000E+00 0.000E+00
Maximum Doserate by O	rgan:	2.615E-03	2.379E-03	2.379E-03	2.386E-03	3.797E-04	2.379E-03	2.379E-03	0.000E+00

Maximum Organ Doserate (mRem/yr):2.615E-03Maximum Total Body Doserate (mRem/yr):2.379E-03

Site Boundary NG Doserate Summary

Gas Receptor Location	Gamma (mRad/yr)	Beta (mRad/yr)	Total Body (mRem/yr)	Skin (mRem/yr)
NW Site Boundary WNW Site Boundary	3.272E-03 2.819E-03	1.176E-02 1.013E-02	3.099E-03 2.670E-03	1.465E-02 1.262E-02
Maximum NG Dose Rate:	3.272E-03	1,176E-02	3.099E-03	1.465E-02

Period: Ann, 2022

Site/Unit/Discharge Point: PSL1

Maximum Individual NNG Dose Summary - Note: All Doses in mRem

Receptor	Agegroup	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-Lli	Skin
NW - Near Milk - Adult	Adult	2.532E-08	3,548E-08	2.079E-08	1.005E-05	5.843E-08	4.471E-09	1.496E-08	0.000E+00
NW Near Milk - Child	Child	9.273E-08	9.636E-08	7.025E-08	2.947E-05	5.983E-08	4.291E-09	1.485E-08	0.000E+00
NW Near Milk - Infant	Infant	1.870E-07	2.259E-07	1.284E-07	7.003E-05	5.551E-08	4.010E-09	1.518E-08	0.000E+00
NW Near Milk - Teenager	Teenager	4.103E-08	5.755E-08	3.399E-08	1.506E-05	7.337E-08	4.730E-09	1.775E-08	0.000E+00
SE Nearest Res - Adult	Adult	2.504E-08	2.833E-08	2.301E-08	2.147E-06	3.476E-08	2.433E-08	2.415E-08	0.000E+00
SE Nearest Res - Child	Child	2.983E-08	3.134E-08	2,555E-08	3.254E-06	2.656E-08	2.357E-08	2.215E-08	0.000E+00
SE Nearest Res - Infant	Infant	2.775E-08	3.057E-08	2.388E-08	3.003E-06	2.218E-08	2.238E-08	2.058E-08	0.000E+00
SE Nearest Res - Teenager	Teenager	2.710E-08	3.145E-08	2.433E-08	2.663E-06	3.476E-08	2.543E-08	2.454E-08	0.000E+00
SE Visitor - Lifeguard 1.0 mi	Adult	1.147E-08	1.291E-08	1.059E-08	9.380E-07	1.572E-08	1.116E-08	1.109E-08	0.000E+00
W Near Garden - Adult	Adult	1.143E-08	1.279E-08	1.059E-08	8.877E-07	1.545E-08	1.114E-08	1.107E-08	0.000E+00
W Near Garden - Child	Child	1.341E-08	1.403E-08	1.164E-08	1.345E-06	1.206E-08	1.083E-08	1.024E-08	0.000E+00
W Near Garden - Teenager	Teenager	1.229E-08	1.408E-08	1.114E-08	1.101E-06	1.545E-08	1.159E-08	1.123E-08	0.000E+00
Maximum Dose by Organ	า:	1.870E-07	2.259E-07	1.284E-07	7.003E-05	7.337E-08	2.543E-08	2.454E-08	0.000E+00

Maximum Organ Dose (mRem):7.003E-05Maximum Total Body Dose (mRem):1.284E-07

Maximum Individual NG Dose Summary

Gas Receptor Location	Gamma (mRad)	Beta (mRad)	Total Body (mRem)	Skin (mRem)
NW Near Milk 4.25 mi	2.863E-04	1.029E-03	2.712E-04	1.282E-03
SE Nearest Res 1.52 mi 142 deg	1.456E-03	5.236E-03	1.379E-03	6.522E-03
SE Visitor @ 1 mi	6.306E-04	2.267E-03	5.973E-04	2.824E-03
W Near Gard 2.0 miles	5.011E-04	1.801E-03	4.746E-04	2.244E-03
Maximum NG Dose:	1.456E-03	5.236E-03	1.379E-03	6.522E-03

Gas Status Summary Report

Period: Ann, 2022 Site/Unit/Discharge Point: PSL2

Site Boundary NNG Doserate Summary - Note: All Doses in mRem/yr

Receptor	Agegroup	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-Lli	Skin
NW Site Boundary - In WNW Site Boundary - I	Infant Infant	2.644E-03 2.817E-07	2.329E-03 2.817E-07	2.329E-03 2.817E-07	2.329E-03 2.817E-07	3.505E-04 2.817E-07	2.329E-03 2.817E-07	2.329E-03 2.817E-07	0.000E+00 0.000E+00
Maximum Doserate by O	rgan:	2.644E-03	2.329E-03	2.329E-03	2.329E-03	3.505E-04	2.329E-03	2.329E-03	0.000E+00

Maximum Organ Doserate (mRem/yr):2.644E-03Maximum Total Body Doserate (mRem/yr):2.329E-03

Site Boundary NG Doserate Summary

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Gas Receptor Location	Gamma (mRad/yr)	Beta (mRad/yr)	Total Body (mRem/yr)	Skin (mRem/yr)
NW Site Boundary	3.460E-02 2.980E-02	1.809E-02 1.558E-02	3.315E-02 2.856E-02	5.365E-02 4.622E-02
WNW Site Boundary Maximum NG Dose Rate:	3.460E-02	1.809E-02	3.315E-02	5.365E-02

Period: Ann, 2022

Site/Unit/Discharge Point: PSL2

Maximum Individual NNG Dose Summary - Note: All Doses in mRem

Receptor	Agegroup	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-Lli	Skin
NW - Near Milk - Adult	Adult	1.591E-08	1.791E-08	1.543E-08	2.034E-06	2.219E-08	2.074E-08	1.696E-08	0.000E+00
NW Near Milk - Child	Child	2.938E-08	3.014E-08	2.630E-08	5.922E-06	2.271E-08	2.279E-08	1.554E-08	0.000E+00
NW Near Milk - Infant	Infant	4.850E-08	5.629E-08	3.902E-08	1.417E-05	2.192E-08	2.057E-08	1.514E-08	0.000E+00
NW Near Milk - Teenager	Teenager	1.900E-08	2.228E-08	1.832E-08	3.036E-06	2.518E-08	2.511E-08	1.755E-08	0.000E+00
SE Nearest Res - Adult	Adult	6.833E-08	6.855E-08	6.830E-08	2.813E-07	6.905E-08	1.066E-07	7.321E-08	0.000E+00
SE Nearest Res - Child	Child	6.867E-08	6.869E-08	6.849E-08	3.441E-07	6.841E-08	1.153E-07	6.976E-08	0.000E+00
SE Nearest Res - Infant	Infant	6.851E-08	6.862E-08	6.831E-08	3.208E-07	6.806E-08	1.059E-07	6.852E-08	0.000E+00
SE Nearest Res - Teenager	Teenager	6.846E-08	6.871E-08	6.837E-08	3.172E-07	6.905E-08	1.251E-07	7.260E-08	0.000E+00
SE Visitor - Lifequard 1.0 mi	Adult	3.172E-08	3.181E-08	3.171E-08	1.247E-07	3.203E-08	4.843E-08	3.385E-08	0.000E+00
W Near Garden - Adult	Adult	3.202E-08	3.211E-08	3.201E-08	1.200E-07	3.232E-08	4.783E-08	3.403E-08	0.000E+00
W Near Garden - Child	Child	3.216E-08	3.217E-08	3.209E-08	1.459E-07	3.205E-08	5.142E-08	3.261E-08	0.000E+00
W Near Garden - Teenager	Teenager	3.207E-08	3.218E-08	3.204E-08	1.348E-07	3.232E-08	5.547E-08	3.378E-08	0.000E+00
Maximum Dose by Orga	n:	6.867E-08	6.871E-08	6.849E-08	1.417E-05	6.905E-08	1.251E-07	7.321E-08	0.000E+00

Maximum Organ Dose (mRem): 1.417E-05 Maximum Total Body Dose (mRem):

6.849E-08

Maximum Individual NG Dose Summary

Gas Receptor Location	Gamma (mRad)	Beta (mRad)	Total Body (mRem)	Skin (mRem)
NW Near Milk 4.25 mi	3.027E-03	1.583E-03	2.901E-03	4.694E-03
SE Nearest Res 1.52 mi 142 deg	1.540E-02	8.051E-03	1.476E-02	2.388E-02
SE Visitor @ 1 mi	6.667E-03	3.486E-03	6.389E-03	1.034E-02
W Near Gard 2.0 miles	5.297E-03	2.770E-03	5.076E-03	8.215E-03
Maximum NG Dose:	1.540E-02	8.051E-03	1.476E-02	2.388E-02

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3.4 Visitor Dose

Dose to a Member of the Public from Activities Inside the Site Boundary

Assessment of radiation dose from radioactive effluents to MEMBERS OF THE PUBLIC due to their activities inside the SITE BOUNDARY assumes the VISITOR to be a Lifeguard at the Walton Rocks Beach recreation area. The visitor is assumed to be onsite for 6 hours per day for 312 days per year at a distance of 1 mile in the Southeast sector. The VISITOR received exposure from each of the two reactors on Site. Actual Met Data was used to calculate Visitor Dose for Calendar Year 2022, and the results are below.

Noble Gas Dose	mrad
Gamma Air Dose	1.59E-02
Beta Air Dose	1.25E-02

mrem Iodine, Carbon Dose 1.95E-08 Bone 2.02E-08 Liver Thyroid 4.79E-07 2.15E-08 Kidney 2.69E-08 Lung 2.03E-08 **GI-LLI** 1.91E-08 Total Body

Gas, Particulate,