

LES-24-097-NRC



August 27, 2024

ATTN: Document Control Desk
Director
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Louisiana Energy Services, LLC
NRC Docket No. 70-3103

Subject: Semi-Annual Radiological Effluent Release Report for January 1, 2024
through June 30, 2024

Pursuant to 10 CFR 70.59, Louisiana Energy Services, LLC, also dba Urenco USA, herewith submits the subject report. Enclosure 1 specifies the quantities released of licensed principal radionuclides in liquid or gaseous form to uncontrolled areas.

Should there be any questions regarding this submittal, please contact Holly Harvey, Licensing Specialist at 575.394.6526.

Respectfully,

A handwritten signature in blue ink, appearing to read 'CS', is written over a light blue circular background.

Chris Schwarz
Licensing and ECP Manager

Enclosure:

1. Semi-Annual Radiological Effluent Release Report for January 1, 2024 through June 30, 2024

CC:

USNRC Region II
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ENCLOSURE 1

**Semi-Annual Radiological Effluent Release Report for
January 1, 2024 through June 30, 2024**

URENCO USA: Report of Radioactivity in Effluents: Liquid & Air: January 2024 - June 2024

There were no releases to the public during the reporting period that exceeded regulatory requirements, and detected isotopic uranium activities were comparable to pre-operational activities. No dose assessment was performed because the maximum potential dose directly at the point of gaseous and liquid effluent discharge points were acceptable. The potential maximum doses directly at the discharge points for both liquid and gaseous effluent were shown to be less than 10% of the radionuclide concentration dose.

In liquid effluent, the concentrations of isotopic uranium were either below the Minimum Detectable Concentration (MDC) or less than 10% of values listed in 10 CFR 20, Appendix B, Table 3, "Releases to Sewers" (Table 1-1).

In gaseous effluent, the gross uranium activity was either below the Minimum Detectable Activity (MDA) or less than 10% of values listed in 10 CFR 20, Appendix B, Table 2, "Effluent Concentrations – Class D Air" for U234, U235, and U238.

The concentrations of isotopic uranium in gaseous effluent was either below the Minimum Detectable Concentration (MDC) or less than 10% of values listed in 10 CFR 20.1301, 10 CFR 20.1302, and 10 CFR 20.1101(d), as described in NRC Regulatory Guide 4.20 "Constraint on Releases of Airborne Radioactive Materials to the Environment for Licensees other than Power Reactors" dated December 1996.

The Centrifuge Test and Post Mortem Building resumed functionality in November 2023. The initial effluent filter was installed in November 2023 upon system start up and was removed in February 2024, upon which subsequent filters were collected monthly.

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TABLE 1-1

Lift Station 1 Wastewater Effluent – Radionuclides, Quarters 1 & 2, 2024 URENCO USA Lea County, New Mexico

<div style="text-align: center;"> URENCO USA <small>Lea County New Mexico</small> </div>										
Lift Station 1 WasteWater Effluent- Radionuclides										
Radionuclide	Sample Date (Date/Time)	Sample Period	Total Time (days)	Results (µCi/ml)	Counting Uncertainty (µCi/ml)	Total Flow* (gallons/day)	Total Gallons	Total Liters	Quantity Released (Ci)	% of Table 3 of Appendix B to 10 CFR 20 Values- Monthly Average Release to Sewers
1Lift Station 1 - January - June 2024										
Uranium - 234	5/15/2024 1000	01/01/24 - 06/30/24	181	4.00E-10	1.30E-11	13,000	2.35E+06	8.91E+06	Result Below LLD	Result Below LLD
Uranium - 235				0.00E+00	0.00E+00	13,000	2.35E+06	8.91E+06	Result Below LLD	Result Below LLD
Uranium - 238				0.00E+00	0.00E+00	13,000	2.35E+06	8.91E+06	Result Below LLD	Result Below LLD
Lift Station 1 Duplicate - January - June 2024										
Uranium - 234	5/15/2024 1000	01/01/24 - 06/30/24	181	4.30E-10	1.40E-11	13,000	2.35E+06	8.91E+06	Result Below LLD	Result Below LLD
Uranium - 235				0.00E+00	0.00E+00	13,000	2.35E+06	8.91E+06	Result Below LLD	Result Below LLD
Uranium - 238				0.00E+00	0.00E+00	13,000	2.35E+06	8.91E+06	Result Below LLD	Result Below LLD

Notes:

- * = Table 3.4-4 'Anticipated Normal Plant Water Consumption' from the Environmental Report, Rev. 23, lists "Total Personnel Water Use" as approximately 13,000 gallons per day.
- µCi/mL = microCuries per milliliter.
- Radionuclides analyzed using method EICHROM AC01 by Cardinal Laboratories of Hobbs, NM.
- Quantity released is calculated if the result equals or exceeds the LLD. Facility-required lower level of detection (LLD) is 3.09E-9 µCi/mL.

TABLE 1-2

Separations Building Module-1001 (SBM 1001): Pumped Extract Exhaust Gaseous Effluent Vent System, 1001-562-1MA1 & 1001-562-1MA2 Gross Alpha & Beta, and Radionuclides: Quarters 1 & 2, 2024 URENCO USA Lea County, New Mexico.

Seperations Building Module - 1001 (SBM 1001) Pumped Extract Exhaust (PXGEVS) Gaseous Effluent Vent System-Gross Alpha & Beta									
Sample ID (Functional Loc. / On Date)	Sample Date (Off Date/Time)	Sample Period	Analyte	Gross Result ($\mu\text{Ci/ml}$)	MDA ($\mu\text{Ci/ml}$) @ 95 CL	Instrument Unc ($\mu\text{Ci/ml}$)	Total Vent System Flow (m ³)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR 20 Values
1001-562-1MA1									
10015621MA1 010524	02/05/2024 1420	01/05/24 - 02/05/24	Gross Alpha	9.72E-17	2.03E-16	4.51E-08	3.70E+05	<MDA	<MDA
10015621MA1 020524	03/06/2024 1407	02/05/24 - 03/06/24		9.86E-17	2.06E-16	4.51E-08	4.15E+05	<MDA	<MDA
10015621MA1 030624	04/02/2024 1020	03/06/24 - 04/02/24		2.74E-17	2.29E-16	2.25E-08	3.75E+05	<MDA	<MDA
10015621MA1 040224	05/03/2024 1009	04/02/24 - 05/03/24		-9.16E-19	2.01E-16	2.25E-08	4.34E+05	<MDA	<MDA
10015621MA1 050324	06/05/2024 1431	05/03/24 - 06/05/24		2.12E-17	1.77E-16	2.25E-08	4.66E+05	<MDA	<MDA
10015621MA1 060524	07/02/2024 1225	06/05/24 - 07/02/24	1.14E-17	2.17E-16	2.25E-08	3.78E+05	<MDA	<MDA	
10015621MA1 010524	02/05/2024 1420	01/05/24 - 02/05/24	Gross Beta	8.11E-16	4.72E-15	1.67E-07	3.70E+05	<MDA	<MDA
10015621MA1 020524	03/06/2024 1407	02/05/24 - 03/06/24		8.03E-16	4.79E-15	1.58E-07	4.15E+05	<MDA	<MDA
10015621MA1 030624	04/02/2024 1020	03/06/24 - 04/02/24		6.59E-16	5.33E-15	1.40E-07	3.75E+05	<MDA	<MDA
10015621MA1 040224	05/03/2024 1009	04/02/24 - 05/03/24		4.29E-16	4.68E-15	1.49E-07	4.34E+05	<MDA	<MDA
10015621MA1 050324	06/05/2024 1431	05/03/24 - 06/05/24		8.92E-16	4.13E-15	1.67E-07	4.66E+05	<MDA	<MDA
10015621MA1 060524	07/02/2024 1225	06/05/24 - 07/02/24	8.75E-16	5.06E-15	1.71E-07	3.78E+05	<MDA	<MDA	
1001-562-1MA2									
10015621MA2 010524	02/05/2024 1422	01/05/24 - 02/05/24	Gross Alpha	0.00E+00	1.63E-16	0.00E+00	5.06E+05	<MDA	<MDA
10015621MA2 020524	03/06/2024 1358	02/05/24 - 03/06/24		1.11E-16	1.54E-16	5.41E-08	4.85E+05	<MDA	<MDA
10015621MA2 030624	04/02/2024 1015	03/06/24 - 04/02/24		2.21E-17	1.84E-16	2.25E-08	4.34E+05	<MDA	<MDA
10015621MA2 040224	05/03/2024 1012	04/02/24 - 05/03/24		0.00E+00	1.68E-16	0.00E+00	5.04E+05	<MDA	<MDA
10015621MA2 050324	06/05/2024 1436	05/03/24 - 06/05/24		4.87E-17	2.03E-16	3.19E-08	5.44E+05	<MDA	<MDA
10015621MA2 060524	07/02/2024 1230	06/05/24 - 07/02/24	8.11E-17	2.25E-16	3.90E-08	4.39E+05	<MDA	<MDA	
10015621MA2 010524	02/05/2024 1422	01/05/24 - 02/05/24	Gross Beta	4.63E-16	3.81E-15	1.44E-07	5.06E+05	<MDA	<MDA
10015621MA2 020524	03/06/2024 1358	02/05/24 - 03/06/24		3.99E-16	3.59E-15	1.40E-07	4.85E+05	<MDA	<MDA
10015621MA2 030624	04/02/2024 1015	03/06/24 - 04/02/24		5.52E-16	4.29E-15	1.40E-07	4.34E+05	<MDA	<MDA
10015621MA2 040224	05/03/2024 1012	04/02/24 - 05/03/24		4.63E-16	3.91E-15	1.35E-07	5.04E+05	<MDA	<MDA
10015621MA2 050324	06/05/2024 1436	05/03/24 - 06/05/24		5.59E-16	4.73E-15	1.35E-07	5.44E+05	<MDA	<MDA
10015621MA2 060524	07/02/2024 1230	06/05/24 - 07/02/24	7.83E-16	5.25E-15	1.49E-07	4.39E+05	<MDA	<MDA	

Seperations Building Module - 1001 (SBM 1001) Pumped Extract Exhaust (PXGEVS) Gaseous Effluent Vent System-Gross Alpha & Beta									
Radionuclide	Sample Date (Off Date)	Sample Period	Result ($\mu\text{Ci/ml}$)	Uncertainty (2 σ TPU) ($\mu\text{Ci/ml}$)	Uncertainty (1 σ TPU) ($\mu\text{Ci/ml}$)	MDC ($\mu\text{Ci/ml}$)	Total Flow (m ³)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR 20 Values
Sample ID: 1001-562-1MA1									
Uranium-234 1st Qtr 2024	4/2/2024	1/5/24 - 4/2/24	4.95E-16	2.35E-16	2.38E-16	1.43E-16	1.16E+06	0.00	0.02%
Uranium-235 1st Qtr 2024			1.93E-16	1.61E-16	1.61E-16	1.40E-16		0.00	0.01%
Uranium-238 1st Qtr 2024			6.06E-16	2.59E-16	2.63E-16	1.30E-16		0.00	0.02%
Uranium-234 2nd Qtr 2024	7/2/2024	4/2/24 - 7/2/24	4.06E-16	1.88E-16	9.11E-17	1.90E-16	1.28E+06	0.00	0.01%
Uranium-235 2nd Qtr 2024			8.73E-17	1.06E-16	1.53E-16	1.06E-16		Result Below MDC	Result Below MDC
Uranium-238 2nd Qtr 2024			2.07E-16	1.35E-16	1.04E-16	1.36E-16		0.00	0.01%
Sample ID: 1001-562-1MA2									
Uranium-234 1st Qtr 2024	4/2/2024	1/5/24 - 4/2/24	3.60E-16	1.09E-16	1.12E-16	4.59E-17	1.42E+06	0.00	0.01%
Uranium-235 1st Qtr 2024			6.61E-17	5.27E-17	5.29E-17	5.66E-17		0.00	0.00%
Uranium-238 1st Qtr 2024			1.97E-16	7.83E-17	7.96E-17	3.23E-17		0.00	0.01%
Uranium-234 2nd Qtr 2024	7/2/2024	4/2/24 - 7/2/24	2.77E-16	1.04E-16	5.02E-17	1.06E-16	1.49E+06	0.00	0.01%
Uranium-235 2nd Qtr 2024			4.23E-17	4.60E-17	5.63E-17	4.61E-17		Result Below MDC	Result Below MDC
Uranium-238 2nd Qtr 2024			2.60E-16	1.00E-16	4.56E-17	1.02E-16		0.00	0.01%

Notes: None



TABLE 1-3

Separations Building Module-1003 (SBM 1003): Pumped Extract Exhaust Gaseous Effluent Vent System, 1003-562-1MA1 & 1003-562-1MA2 Gross Alpha & Beta, and Radionuclides: Quarters 1 & 2, 2024 URENCO USA Lea County, New Mexico

Seperations Building Module -1003 (SBM 1003) Pumped Extract Exhaust (PXGEVS) Gaseous Effluent Vent System-Gross Alpha & Beta									
Sample ID (Functional Loc. / On Date)	Sample Date (Off Date/Time)	Sample Period	Analyte	Gross Result ($\mu\text{Ci/ml}$)	MDA ($\mu\text{Ci/ml}$) @ 95 CL	Instrument Unc ($\mu\text{Ci/ml}$)	Total Vent System Flow (m ³)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR 20 Values
1003-562-1MA1									
10035621MA1 010524	02/05/2024 1450	01/05/24 - 02/05/24	Gross Alpha	3.50E-17	1.46E-16	3.19E-08	4.55E+05	<MDA	<MDA
10035621MA1 020524	03/06/2024 1454	02/05/24 - 03/06/24		5.45E-17	1.52E-16	3.90E-08	4.47E+05	<MDA	<MDA
10035621MA1 030624	04/02/2024 1039	03/06/24 - 04/02/24		2.05E-17	1.71E-16	2.25E-08	4.02E+05	<MDA	<MDA
10035621MA1 040224	05/03/2024 1022	04/02/24 - 05/03/24		3.47E-17	1.45E-16	3.19E-08	4.58E+05	<MDA	<MDA
10035621MA1 050324	06/05/2024 1505	05/03/24 - 06/05/24		1.67E-17	1.39E-16	2.25E-08	4.96E+05	<MDA	<MDA
10035621MA1 060524	07/02/2024 1252	06/05/24 - 07/02/24		0.00E+00	1.74E-16	0.00E+00	4.15E+05	<MDA	<MDA
10035621MA1 010524	02/05/2024 1450	01/05/24 - 02/05/24	Gross Beta	4.64E-16	3.40E-15	1.49E-07	4.55E+05	<MDA	<MDA
10035621MA1 020524	03/06/2024 1454	02/05/24 - 03/06/24		6.90E-16	3.53E-15	1.62E-07	4.47E+05	<MDA	<MDA
10035621MA1 030624	04/02/2024 1039	03/06/24 - 04/02/24		5.53E-16	3.98E-15	1.44E-07	4.02E+05	<MDA	<MDA
10035621MA1 040224	05/03/2024 1022	04/02/24 - 05/03/24		3.98E-16	3.37E-15	1.35E-07	4.58E+05	<MDA	<MDA
10035621MA1 050324	06/05/2024 1505	05/03/24 - 06/05/24		5.01E-16	3.24E-15	1.49E-07	4.96E+05	<MDA	<MDA
10035621MA1 060524	07/02/2024 1252	06/05/24 - 07/02/24		6.26E-16	4.06E-15	1.49E-07	4.15E+05	<MDA	<MDA
1003-562-1MA2									
10035621MA2 010524	02/05/2024 1454	01/05/24 - 02/05/24	Gross Alpha	1.60E-17	1.33E-16	2.25E-08	4.93E+05	<MDA	<MDA
10035621MA2 020524	03/06/2024 1459	02/05/24 - 03/06/24		3.32E-17	1.38E-16	3.19E-08	4.82E+05	<MDA	<MDA
10035621MA2 030624	04/02/2024 1054	03/06/24 - 04/02/24		0.00E+00	1.52E-16	0.00E+00	4.34E+05	<MDA	<MDA
10035621MA2 040224	05/03/2024 1032	04/02/24 - 05/03/24		4.45E-17	1.24E-16	3.90E-08	5.01E+05	<MDA	<MDA
10035621MA2 050324	06/05/2024 1510	05/03/24 - 06/05/24		0.00E+00	1.23E-16	0.00E+00	5.46E+05	<MDA	<MDA
10035621MA2 060524	07/02/2024 1257	06/05/24 - 07/02/24		5.01E-17	1.39E-16	3.90E-08	4.50E+05	<MDA	<MDA
10035621MA2 010524	02/05/2024 1454	01/05/24 - 02/05/24	Gross Beta	3.52E-16	3.11E-15	1.35E-07	4.93E+05	<MDA	<MDA
10035621MA2 020524	03/06/2024 1459	02/05/24 - 03/06/24		4.31E-16	3.22E-15	1.44E-07	4.82E+05	<MDA	<MDA
10035621MA2 030624	04/02/2024 1054	03/06/24 - 04/02/24		4.90E-16	3.53E-15	1.44E-07	4.34E+05	<MDA	<MDA
10035621MA2 040224	05/03/2024 1032	04/02/24 - 05/03/24		3.56E-16	2.88E-15	1.40E-07	5.01E+05	<MDA	<MDA
10035621MA2 050324	06/05/2024 1510	05/03/24 - 06/05/24		5.01E-16	2.86E-15	1.58E-07	5.46E+05	<MDA	<MDA
10035621MA2 060524	07/02/2024 1257	06/05/24 - 07/02/24		4.41E-16	3.24E-15	1.58E-07	4.50E+05	<MDA	<MDA

Seperations Building Module -1003 (SBM 1003) Pumped Extract Exhaust (PXGEVS) Gaseous Effluent Vent System-Gross Alpha & Beta									
Radionuclide	Sample Date (Off Date)	Sample Period	Result ($\mu\text{Ci/ml}$)	Uncertainty (2 sigma) ($\mu\text{Ci/ml}$)	Uncertainty (1 sigma) ($\mu\text{Ci/ml}$)	MDC ($\mu\text{Ci/ml}$)	Total Flow (m ³)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR 20 Values
1003-562-1MA1									
Uranium-234 1st Qtr 2024	4/2/2024	1/5/24 - 4/2/24	3.22E-16	9.96E-17	1.02E-16	3.10E-17	1.30E+06	0.00	0.01%
Uranium-235 1st Qtr 2024			9.06E-18	2.51E-17	2.51E-17	5.43E-17		Result Below MDC	Result Below MDC
Uranium-238 1st Qtr 2024	7/2/2024	4/2/24 - 7/2/24	2.99E-16	9.57E-17	9.81E-17	3.10E-17	1.37E+06	0.00	0.01%
Uranium-234 2nd Qtr 2024			3.54E-16	1.15E-16	6.52E-17	1.18E-16		0.00	0.01%
Uranium-235 2nd Qtr 2024			4.82E-17	4.61E-17	5.04E-17	4.62E-17		0.00	0.00%
Uranium-238 2nd Qtr 2024			2.11E-16	8.65E-17	5.13E-17	8.78E-17		0.00	0.01%
1003-562-1MA2									
Uranium-234 1st Qtr 2024	4/2/2024	1/5/24 - 4/2/24	1.69E-16	6.90E-17	7.00E-17	3.33E-17	1.41E+06	0.00	0.01%
Uranium-235 1st Qtr 2024			6.94E-18	1.69E-17	1.69E-17	3.57E-17		Result Below MDC	Result Below MDC
Uranium-238 1st Qtr 2024			1.73E-16	7.03E-17	7.14E-17	3.93E-17		0.00	0.01%
Uranium-234 2nd Qtr 2024	7/2/2024	4/2/24 - 7/2/24	1.36E-16	6.13E-17	2.89E-17	6.20E-17	1.50E+06	0.00	0.00%
Uranium-235 2nd Qtr 2024			3.22E-17	3.33E-17	3.56E-17	3.34E-17		Result Below MDC	Result Below MDC
Uranium-238 2nd Qtr 2024			2.25E-16	8.07E-17	4.09E-17	8.23E-17		0.00	0.01%

Notes: None



TABLE 1-4

Separations Building Module-1005 (SBM 1005): Pumped Extract Exhaust Gaseous Effluent Vent System, 1005-562-1MA1 & 1005-562-1MA2 Gross Alpha & Beta, and Radionuclides: Quarters 1 & 2, 2024 URENCO USA Lea County, New Mexico

Seperations Building Module -1005 (SBM 1005) Pumped Extract Exhaust (PXGEVS) Gaseous Effluent Vent System-Gross Alpha & Beta									
Sample ID (Functional Loc. / On Date)	Sample Date (Off Date/Time)	Sample Period	Analyte	Gross Result ($\mu\text{Ci}/\text{ml}$)	MDA ($\mu\text{Ci}/\text{ml}$) @ 95 CL	Instrument Unc ($\mu\text{Ci}/\text{ml}$)	Total Vent System Flow (m ³)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR 20 Values
1005-562-1MA1									
10055621MA1 010524	02/05/2024 1458	01/05/24 - 02/05/24	Gross Alpha	1.96E-17	1.63E-16	2.25E-08	8.12E+05	<MDA	<MDA
10055621MA1 020524	03/06/2024 1508	02/05/24 - 03/06/24		-2.09E-17	1.68E-16	0.00E+00	7.90E+05	<MDA	<MDA
10055621MA1 030624	04/02/2024 1108	03/06/24 - 04/02/24		4.53E-17	1.89E-16	3.19E-08	7.07E+05	<MDA	<MDA
10055621MA1 040224	05/03/2024 1042	04/02/24 - 05/03/24		7.77E-17	1.62E-16	4.51E-08	7.96E+05	<MDA	<MDA
10055621MA1 050324	06/05/2024 1515	05/03/24 - 06/05/24		0.00E+00	1.53E-16	0.00E+00	8.71E+05	<MDA	<MDA
10055621MA1 060524	07/02/2024 1305	06/05/24 - 07/02/24	4.42E-17	1.84E-16	3.19E-08	7.15E+05	<MDA	<MDA	
10055621MA1 010524	02/05/2024 1458	01/05/24 - 02/05/24	Gross Beta	3.33E-16	3.81E-15	1.26E-07	8.12E+05	<MDA	<MDA
10055621MA1 020524	03/06/2024 1508	02/05/24 - 03/06/24		5.39E-16	3.91E-15	1.62E-07	7.90E+05	<MDA	<MDA
10055621MA1 030624	04/02/2024 1108	03/06/24 - 04/02/24		5.44E-16	4.40E-15	1.40E-07	7.07E+05	<MDA	<MDA
10055621MA1 040224	05/03/2024 1042	04/02/24 - 05/03/24		4.08E-16	3.78E-15	1.35E-07	7.96E+05	<MDA	<MDA
10055621MA1 050324	06/05/2024 1515	05/03/24 - 06/05/24		3.04E-16	3.56E-15	1.31E-07	8.71E+05	<MDA	<MDA
10055621MA1 060524	07/02/2024 1305	06/05/24 - 07/02/24	8.17E-16	4.29E-15	1.62E-07	7.15E+05	<MDA	<MDA	
1005-562-1MA2									
10055621MA2 010524	02/05/2024 1459	01/05/24 - 02/05/24	Gross Alpha	-2.07E-17	1.66E-16	0.00E+00	8.44E+05	<MDA	<MDA
10055621MA2 020524	03/06/2024 1509	02/05/24 - 03/06/24		0.00E+00	1.72E-16	0.00E+00	8.17E+05	<MDA	<MDA
10055621MA2 030624	04/02/2024 1114	03/06/24 - 04/02/24		2.36E-17	1.97E-16	2.25E-08	7.29E+05	<MDA	<MDA
10055621MA2 040224	05/03/2024 1047	04/02/24 - 05/03/24		6.09E-17	1.69E-16	3.90E-08	8.14E+05	<MDA	<MDA
10055621MA2 050324	06/05/2024 1520	05/03/24 - 06/05/24		1.91E-17	1.59E-16	2.25E-08	9.05E+05	<MDA	<MDA
10055621MA2 060524	07/02/2024 1308	06/05/24 - 07/02/24	6.26E-17	1.74E-16	3.90E-08	7.45E+05	<MDA	<MDA	
10055621MA2 010524	02/05/2024 1459	01/05/24 - 02/05/24	Gross Beta	5.03E-16	3.88E-15	1.53E-07	8.44E+05	<MDA	<MDA
10055621MA2 020524	03/06/2024 1509	02/05/24 - 03/06/24		5.71E-16	4.02E-15	1.53E-07	8.17E+05	<MDA	<MDA
10055621MA2 030624	04/02/2024 1114	03/06/24 - 04/02/24		5.90E-16	4.59E-15	1.40E-07	7.29E+05	<MDA	<MDA
10055621MA2 040224	05/03/2024 1047	04/02/24 - 05/03/24		5.28E-16	3.95E-15	1.44E-07	8.14E+05	<MDA	<MDA
10055621MA2 050324	06/05/2024 1520	05/03/24 - 06/05/24		7.44E-16	3.71E-15	1.62E-07	9.05E+05	<MDA	<MDA
10055621MA2 060524	07/02/2024 1308	06/05/24 - 07/02/24	5.01E-16	4.06E-15	1.40E-07	7.45E+05	<MDA	<MDA	

Seperations Building Module -1005 (SBM 1005) Pumped Extract Exhaust (PXGEVS) Gaseous Effluent Vent System-Gross Alpha & Beta									
Radionuclide	Sample Date (Off Date)	Sample Period	Result ($\mu\text{Ci}/\text{ml}$)	Uncertainty (2 sigma) ($\mu\text{Ci}/\text{ml}$)	Uncertainty (1 sigma) ($\mu\text{Ci}/\text{ml}$)	MDC ($\mu\text{Ci}/\text{ml}$)	Total Flow (m ³)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR 20 Values
1005-562-1MA1									
Uranium-234 1st Qtr 2024	4/2/2024	1/5/24 - 4/2/24	4.59E-16	1.35E-16	1.39E-16	4.48E-17	2.31E+06	0.00	0.02%
Uranium-235 1st Qtr 2024			4.56E-17	5.01E-17	5.02E-17	6.84E-17		Result Below MDC	Result Below MDC
Uranium-238 1st Qtr 2024			4.23E-16	1.29E-16	1.32E-16	3.89E-17		0.00	0.01%
Uranium-234 2nd Qtr 2024	7/2/2024	4/2/24 - 7/2/24	3.84E-16	1.16E-16	3.99E-17	1.19E-16	2.38E+06	9.15E-10	0.013%
Uranium-235 2nd Qtr 2024			3.70E-17	4.03E-17	4.93E-17	4.04E-17		Result Below MDC	Result Below MDC
Uranium-238 2nd Qtr 2024			2.38E-16	9.08E-17	4.93E-17	9.24E-17		0.00E+00	0.008%
1005-562-1MA2									
Uranium-234 1st Qtr 2024	4/2/2024	1/5/24 - 4/2/24	3.63E-16	1.15E-16	1.18E-16	4.93E-17	2.39E+06	0.00	0.01%
Uranium-235 1st Qtr 2024			1.25E-16	7.29E-17	7.34E-17	4.47E-17		0.00	0.00%
Uranium-238 1st Qtr 2024			3.16E-16	1.06E-16	1.08E-16	3.62E-17		0.00	0.01%
Uranium-234 2nd Qtr 2024	7/2/2024	4/2/24 - 7/2/24	4.00E-16	1.18E-16	3.99E-17	1.22E-16	2.46E+06	9.86E-10	0.013%
Uranium-235 2nd Qtr 2024			2.03E-17	3.45E-17	6.08E-17	3.45E-17		Result Below MDC	Result Below MDC
Uranium-238 2nd Qtr 2024			2.95E-16	1.01E-16	4.92E-17	1.04E-16		0.00E+00	0.010%

Notes: None



TABLE 1-5

Cylinder Receipt and Dispatch Building-1100 (CRDB 1100): Local Extract Exhaust Gaseous Effluent Vent System, 1100-562-1MA1 & 1100-562-1MA2, Gross Alpha & Beta, and Radionuclides: Quarters 1 & 2, 2024 URENCO USA Lea County, New Mexico

Cylinder Receipt and Dispatch Building -1100 (CRDB 1100) Exhaust (FHGEVS) Gaseous Effluent Vent System-Gross Alpha & Beta									
Sample ID (Functional Loc. / On Date)	Sample Date (Off Date/Time)	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Unc (µCi/ml)	Total Vent System Flow (m3)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR 20 Values
1100-562-1MA1									
11005621MA1 010524	02/05/2024 1503	01/05/24 - 02/05/24	Gross Alpha	1.67E-17	1.39E-16	2.25E-08	7.66E+05	<MDA	<MDA
11005621MA1 020524	03/06/2024 1422	02/05/24 - 03/06/24		1.70E-17	1.42E-16	2.25E-08	7.23E+05	<MDA	<MDA
11005621MA1 030624	04/02/2024 1121	03/06/24 - 04/02/24		3.85E-17	1.61E-16	3.19E-08	6.48E+05	<MDA	<MDA
11005621MA1 040224	05/03/2024 1110	04/02/24 - 05/03/24		6.67E-17	1.39E-16	4.51E-08	7.39E+05	<MDA	<MDA
11005621MA1 050324	06/05/2024 1457	05/03/24 - 06/05/24		0.00E+00	1.26E-16	0.00E+00	7.90E+05	<MDA	<MDA
11005621MA1 060524	07/02/2024 1237	06/05/24 - 07/02/24	1.79E-17	1.49E-16	2.25E-08	6.32E+05	<MDA	<MDA	
11005621MA1 010524	02/05/2024 1503	01/05/24 - 02/05/24	Gross Beta	3.50E-16	3.24E-15	1.35E-07	7.66E+05	<MDA	<MDA
11005621MA1 020524	03/06/2024 1422	02/05/24 - 03/06/24		3.45E-16	3.32E-15	1.44E-07	7.23E+05	<MDA	<MDA
11005621MA1 030624	04/02/2024 1121	03/06/24 - 04/02/24		4.43E-16	3.74E-15	1.35E-07	6.48E+05	<MDA	<MDA
11005621MA1 040224	05/03/2024 1110	04/02/24 - 05/03/24		3.67E-16	3.24E-15	1.35E-07	7.39E+05	<MDA	<MDA
11005621MA1 050324	06/05/2024 1457	05/03/24 - 06/05/24		4.38E-16	2.94E-15	1.49E-07	7.90E+05	<MDA	<MDA
11005621MA1 060524	07/02/2024 1237	06/05/24 - 07/02/24	4.29E-16	3.48E-15	1.40E-07	6.32E+05	<MDA	<MDA	
1100-562-1MA2									
11005621MA2 010524	02/05/2024 1505	01/05/24 - 02/05/24	Gross Alpha	0.00E+00	2.25E-16	0.00E+00	7.66E+05	<MDA	<MDA
11005621MA2 020524	03/06/2024 1426	02/05/24 - 03/06/24		2.83E-17	2.37E-16	2.25E-08	7.23E+05	<MDA	<MDA
11005621MA2 030624	04/02/2024 1128	03/06/24 - 04/02/24		-1.26E-18	2.76E-16	2.25E-08	6.56E+05	<MDA	<MDA
11005621MA2 040224	05/03/2024 1105	04/02/24 - 05/03/24		5.38E-17	2.24E-16	3.19E-08	7.39E+05	<MDA	<MDA
11005621MA2 050324	06/05/2024 1459	05/03/24 - 06/05/24		9.19E-17	1.53E-16	4.96E-08	6.96E+05	<MDA	<MDA
11005621MA2 060524	07/02/2024 1239	06/05/24 - 07/02/24	2.38E-17	2.06E-16	3.19E-08	4.31E+05	<MDA	<MDA	
11005621MA2 010524	02/05/2024 1505	01/05/24 - 02/05/24	Gross Beta	5.66E-16	5.25E-15	1.35E-07	7.66E+05	<MDA	<MDA
11005621MA2 020524	03/06/2024 1426	02/05/24 - 03/06/24		7.38E-16	5.52E-15	1.44E-07	7.23E+05	<MDA	<MDA
11005621MA2 030624	04/02/2024 1128	03/06/24 - 04/02/24		7.99E-16	6.42E-15	1.53E-07	6.56E+05	<MDA	<MDA
11005621MA2 040224	05/03/2024 1105	04/02/24 - 05/03/24		8.07E-16	5.23E-15	1.49E-07	7.39E+05	<MDA	<MDA
11005621MA2 050324	06/05/2024 1459	05/03/24 - 06/05/24		4.14E-16	3.56E-15	1.44E-07	6.96E+05	<MDA	<MDA
11005621MA2 060524	07/02/2024 1239	06/05/24 - 07/02/24	4.24E-16	4.80E-15	1.40E-07	4.31E+05	<MDA	<MDA	

Container Receipt and Dispatch Building -1100 (CRDB 1100) Fume Hood Exhaust (FHGEVS) Gaseous Effluent Vent System-Gross Alpha & Beta									
Radionuclide	Sample Date (Off Date)	Sample Period	Result (µCi/ml)	Uncertainty (2 sigma) (µCi/ml)	Uncertainty (1 sigma) (µCi/ml)	MDC (µCi/ml)	Total Flow (m3)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR 20 Values
1100-562-1MA1									
Uranium-234 1st Qtr 2024	4/2/2024	1/5/24 - 4/2/24	2.07E-16	8.41E-17	8.54E-17	4.69E-17	2.14E+06	0.00	0.01%
Uranium-235 1st Qtr 2024			7.88E-17	5.65E-17	5.67E-17	4.25E-17		0.00	0.00%
Uranium-238 1st Qtr 2024			1.71E-16	7.69E-17	7.79E-17	5.23E-17		0.00	0.01%
Uranium-234 2nd Qtr 2024	7/2/2024	4/2/24 - 7/2/24	2.91E-16	9.78E-17	4.14E-17	1.00E-16	2.16E+06	0.00	0.01%
Uranium-235 2nd Qtr 2024			8.45E-17	5.70E-17	4.04E-17	5.73E-17		0.00	0.00%
Uranium-238 2nd Qtr 2024			3.61E-16	1.10E-16	3.76E-17	1.13E-16		0.00	0.01%
1100-562-1MA2									
Uranium-234 1st Qtr 2024	4/2/2024	1/5/24 - 4/2/24	3.86E-16	1.44E-16	1.46E-16	5.47E-17	2.15E+06	0.00	0.01%
Uranium-235 1st Qtr 2024			9.59E-17	8.34E-17	8.36E-17	9.58E-17		0.00	0.00%
Uranium-238 1st Qtr 2024			4.89E-16	1.63E-16	1.66E-16	5.46E-17		0.00	0.02%
Uranium-234 2nd Qtr 2024	7/2/2024	4/2/24 - 7/2/24	6.04E-16	1.51E-16	5.10E-17	1.57E-16	1.87E+06	0.00	0.02%
Uranium-235 2nd Qtr 2024			1.15E-16	7.19E-17	6.29E-17	7.24E-17		0.00	0.00%
Uranium-238 2nd Qtr 2024			4.14E-16	1.22E-16	3.58E-17	1.25E-16		0.00	0.01%

Notes: 1100-562-1MA2 totalized stack volume collected from redundant monitor 1100-562-1MA1 for filters 010524, 020524, 030624, and 040224 due to stack probe issue.



TABLE 1-6

Cylinder Receipt and Dispatch Building-1100 (CRDB 1100): Fume Hood Exhaust Gaseous Effluent Vent System, 1100-562-2MA1 & 1100-562-2MA2, Gross Alpha & Beta, and Radionuclides: Quarters 1 & 2, 2024 URENCO USA Lea County, New Mexico

Cylinder Receipt and Dispatch Building -1100 (CRDB 1100) Fume Hood Exhaust (LXGEVS) Gaseous Effluent Vent System-Gross Alpha & Beta									
Sample ID (Functional Loc. / On Date)	Sample Date (Off Date/Time)	Sample Period	Analyte	Gross Result ($\mu\text{Ci/ml}$)	MDA ($\mu\text{Ci/ml}$) @ 95 CL	Instrument Unc ($\mu\text{Ci/ml}$)	Total Vent System Flow (m ³)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR 20 Values
1100-562-2MA1									
11005622MA1 010524	02/05/2024 1508	01/05/24 - 02/05/24	Gross Alpha	3.44E-17	1.44E-16	3.19E-08	2.92E+07	<MDA	<MDA
11005622MA1 020524	03/06/2024 1434	02/05/24 - 03/06/24		3.50E-17	1.46E-16	3.19E-08	2.84E+07	<MDA	<MDA
11005622MA1 030624	04/02/2024 1133	03/06/24 - 04/02/24		2.14E-17	1.79E-16	2.25E-08	2.58E+07	<MDA	<MDA
11005622MA1 040224	05/03/2024 1100	04/02/24 - 05/03/24		1.88E-17	1.57E-16	2.25E-08	2.97E+07	<MDA	<MDA
11005622MA1 050324	06/05/2024 1449	05/03/24 - 06/05/24		5.78E-17	1.61E-16	3.90E-08	3.16E+07	<MDA	<MDA
11005622MA1 060524	07/02/2024 1243	06/05/24 - 07/02/24	1.53E-17	2.91E-16	2.25E-08	2.73E+07	<MDA	<MDA	
11005622MA1 010524	02/05/2024 1508	01/05/24 - 02/05/24	Gross Beta	4.30E-16	3.34E-15	1.40E-07	2.92E+07	<MDA	<MDA
11005622MA1 020524	03/06/2024 1434	02/05/24 - 03/06/24		6.81E-16	3.40E-15	1.62E-07	2.84E+07	<MDA	<MDA
11005622MA1 030624	04/02/2024 1133	03/06/24 - 04/02/24		4.50E-16	4.17E-15	1.35E-07	2.58E+07	<MDA	<MDA
11005622MA1 040224	05/03/2024 1100	04/02/24 - 05/03/24		5.82E-16	3.65E-15	1.53E-07	2.97E+07	<MDA	<MDA
11005622MA1 050324	06/05/2024 1449	05/03/24 - 06/05/24		4.24E-16	3.74E-15	1.35E-07	3.16E+07	<MDA	<MDA
11005622MA1 060524	07/02/2024 1243	06/05/24 - 07/02/24	9.78E-16	6.79E-15	1.58E-07	2.73E+07	<MDA	<MDA	
1100-562-2MA2									
11005622MA2 010524	02/05/2024 1509	01/05/24 - 02/05/24	Gross Alpha	2.68E-17	2.24E-16	2.25E-08	3.11E+07	<MDA	<MDA
11005622MA2 020524	03/06/2024 1438	02/05/24 - 03/06/24		1.24E-16	2.59E-16	4.51E-08	3.05E+07	<MDA	<MDA
11005622MA2 030624	04/02/2024 1136	03/06/24 - 04/02/24		6.98E-17	2.91E-16	3.19E-08	2.79E+07	<MDA	<MDA
11005622MA2 040224	05/03/2024 1055	04/02/24 - 05/03/24		6.06E-17	2.53E-16	3.19E-08	3.19E+07	<MDA	<MDA
11005622MA2 050324	06/05/2024 1453	05/03/24 - 06/05/24		5.75E-17	2.39E-16	3.19E-08	3.43E+07	<MDA	<MDA
11005622MA2 060524	07/02/2024 1245	06/05/24 - 07/02/24	3.49E-17	2.91E-16	2.25E-08	2.73E+07	<MDA	<MDA	
11005622MA2 010524	02/05/2024 1509	01/05/24 - 02/05/24	Gross Beta	9.12E-16	5.21E-15	1.58E-07	3.11E+07	<MDA	<MDA
11005622MA2 020524	03/06/2024 1438	02/05/24 - 03/06/24		8.56E-16	6.02E-15	1.53E-07	3.05E+07	<MDA	<MDA
11005622MA2 030624	04/02/2024 1136	03/06/24 - 04/02/24		7.68E-16	6.78E-15	1.35E-07	2.79E+07	<MDA	<MDA
11005622MA2 040224	05/03/2024 1055	04/02/24 - 05/03/24		1.06E-15	5.89E-15	1.58E-07	3.19E+07	<MDA	<MDA
11005622MA2 050324	06/05/2024 1453	05/03/24 - 06/05/24		3.73E-16	5.58E-15	1.17E-07	3.43E+07	<MDA	<MDA
11005622MA2 060524	07/02/2024 1245	06/05/24 - 07/02/24	4.88E-16	6.79E-15	1.22E-07	2.73E+07	<MDA	<MDA	

Container Receipt and Dispatch Building -1100 (CRDB 1100) Local Extract Exhaust (LXGEVS) Gaseous Effluent Vent System-Gross Alpha & Beta									
Radionuclide	Sample Date (Off Date)	Sample Period	Result ($\mu\text{Ci/ml}$)	Uncertainty (2 sigma) ($\mu\text{Ci/ml}$)	Uncertainty (1 sigma) ($\mu\text{Ci/ml}$)	MDC ($\mu\text{Ci/ml}$)	Total Flow (m ³)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR 20 Values
1100-562-2MA1									
Uranium-234 1st Qtr 2024	4/2/2024	1/5/24 - 4/2/24	4.80E-16	1.33E-16	1.38E-16	5.13E-17	8.34E+07	4.00E-08	0.016%
Uranium-235 1st Qtr 2024			6.04E-17	5.02E-17	5.04E-17	4.38E-17		0.00	0.002%
Uranium-238 1st Qtr 2024			2.24E-16	8.80E-17	8.94E-17	4.07E-17		0.00E+00	0.007%
Uranium-234 2nd Qtr 2024	7/2/2024	4/2/24 - 7/2/24	2.10E-16	8.70E-17	3.73E-17	8.83E-17	8.87E+07	0.00	0.007%
Uranium-235 2nd Qtr 2024			5.45E-17	5.25E-17	6.53E-17	5.27E-17		0.00	0.002%
Uranium-238 2nd Qtr 2024			1.92E-16	8.30E-17	3.72E-17	8.41E-17		0.00	0.006%
1100-562-2MA2									
Uranium-234 1st Qtr 2024	4/2/2024	1/5/24 - 4/2/24	6.50E-16	1.99E-16	2.04E-16	6.90E-17	8.95E+07	5.81E-08	0.022%
Uranium-235 1st Qtr 2024			1.58E-16	1.10E-16	1.10E-16	1.05E-16		0.00	0.005%
Uranium-238 1st Qtr 2024			3.67E-16	1.46E-16	1.48E-16	6.00E-17		0.00E+00	0.012%
Uranium-234 2nd Qtr 2024	7/2/2024	4/2/24 - 7/2/24	6.14E-16	1.85E-16	6.38E-17	1.91E-16	9.35E+07	0.00	0.020%
Uranium-235 2nd Qtr 2024			1.27E-16	9.09E-17	6.85E-17	9.13E-17		0.00	0.004%
Uranium-238 2nd Qtr 2024			4.89E-16	1.65E-16	7.53E-17	1.69E-16		0.00	0.016%

Notes: None



TABLE 1-7

Centrifuge Test and Post Mortem Building-1300 (CTPMB 1300): Local Extract Exhaust Gaseous Effluent Vent System, 1300-562-1MA1 Gross Alpha & Beta, and Radionuclides: Quarters 1 & 2, 2024 URENCO USA Lea County, New Mexico

Centrifuge Test and Post Mortem Building -1300 (CTPMF 1300) Local Extract Exhaust Gaseous Effluent Vent System-Gross Alpha & Beta									
Sample ID (Functional Loc. / On Date)	Sample Date (Off Date/Time)	Sample Period	Analyte	Gross Result ($\mu\text{Ci/ml}$)	MDA ($\mu\text{Ci/ml}$) @ 95 CL	Instrument Unc ($\mu\text{Ci/ml}$)	Total Vent System Flow (m ³)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR 20 Values
1300-562-1MA1									
13005621MA1 010524	02/05/2024 1115	11/16/23 - 02/06/24	Gross Alpha	7.48E-18	6.48E-17	3.19E-08	1.85E+07	<MDA	<MDA
13005621MA1 020524	03/06/2024 1018	02/06/24 - 03/06/24		1.84E-17	1.54E-16	2.25E-08	1.23E+07	<MDA	<MDA
13005621MA1 030624	04/02/2024 0750	03/06/24 - 04/03/24		3.33E-17	1.93E-16	3.19E-08	9.29E+06	<MDA	<MDA
13005621MA1 040224	05/03/2024 0905	04/03/24 - 05/02/24		2.01E-17	1.68E-16	2.25E-08	1.07E+07	<MDA	<MDA
13005621MA1 050324	06/05/2024 1313	05/02/24 - 06/05/24		2.70E-17	1.13E-16	3.19E-08	1.45E+07	<MDA	<MDA
13005621MA1 060524	07/02/2024 0923	06/05/24 - 07/03/24		3.61E-17	1.50E-16	3.19E-08	1.17E+07	<MDA	<MDA
13005621MA1 010524	02/05/2024 1115	11/16/23 - 02/06/24	Gross Beta	2.19E-16	1.51E-15	1.58E-07	1.85E+07	<MDA	<MDA
13005621MA1 020524	03/06/2024 1018	02/06/24 - 03/06/24		4.61E-16	3.59E-15	1.40E-07	1.23E+07	<MDA	<MDA
13005621MA1 030624	04/02/2024 0750	03/06/24 - 04/03/24		6.26E-16	4.51E-15	1.53E-07	9.29E+06	<MDA	<MDA
13005621MA1 040224	05/03/2024 0905	04/03/24 - 05/02/24		4.83E-16	3.91E-15	1.40E-07	1.07E+07	<MDA	<MDA
13005621MA1 050324	06/05/2024 1313	05/02/24 - 06/05/24		1.49E-16	2.62E-15	1.13E-07	1.45E+07	<MDA	<MDA
13005621MA1 060524	07/02/2024 0923	06/05/24 - 07/03/24		6.30E-16	3.50E-15	1.58E-07	1.17E+07	<MDA	<MDA

Centrifuge Test and Post Mortem Building -1300 (CTPMF 1300) Local Extract Exhaust Gaseous Effluent Vent System-Gross Alpha & Beta									
Radionuclide	Sample Date (Off Date)	Sample Period	Result ($\mu\text{Ci/ml}$)	Uncertainty (2 sigma) ($\mu\text{Ci/ml}$)	Uncertainty (1 sigma) ($\mu\text{Ci/ml}$)	MDC ($\mu\text{Ci/ml}$)	Total Flow (m ³)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR 20 Values
1300-562-1MA1									
Uranium-234 1st Qtr 2024	4/3/2024	11/16/23 - 4/3/24	2.32E-16	6.87E-17	7.06E-17	3.85E-17	4.01E+07	9.30E-09	0.008%
Uranium-235 1st Qtr 2024			5.68E-17	3.94E-17	3.96E-17	4.39E-17		0.00	0.002%
Uranium-238 1st Qtr 2024			1.40E-16	5.33E-17	5.42E-17	3.84E-17		0.00E+00	0.005%
Uranium-234 2nd Qtr 2024	7/3/2024	4/3/24 - 7/3/24	2.35E-16	9.27E-17	4.28E-17	9.42E-17	3.69E+07	0.00	0.008%
Uranium-235 2nd Qtr 2024			8.70E-17	6.45E-17	6.52E-17	6.48E-17		0.00	0.003%
Uranium-238 2nd Qtr 2024			2.10E-16	8.69E-17	3.71E-17	8.82E-17		0.00	0.007%

Notes: Initial effluent filter was installed in November 2023 upon system start up and was removed in February 2024, upon which subsequent filters were collected monthly.

1. Ci = Curies
2. $\mu\text{Ci/ml}$ = micro-Curies per milliliter.
3. m³ = cubic meters.
4. MDA = minimum detectable activity.
5. MDC= minimum detectable concentration.
6. Quantity released is calculated if the result Equals or Exceeds MDA or MDC.
7. Radionuclides analyzed using Procedure EPA 908.0 Modified by Eberline Analytical Corp of Oak Ridge, TN.
8. Gross alpha and beta analyzed by URENCO USA per procedure EN-3-3030-01.

