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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 July 1, 2014 through
December 31, 2014

Pursuant to 10 CFR 70.59, Louisiana Energy Services, LLC, dba URENCO USA,
herewith submits the subject report (see Enclosure). This report 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 Amy Johnson,
Licensing and Performance Assessment Manager, at 575-394-6203.

Respectfully,

for 
Jay Laughlin
Chief Nuclear Officer and Head of Operations

Enclosure: Semi-Annual Radiological Effluent Release Report for July 1, 2014
through December 31, 2014

NMSS01

cc:

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ENCLOSURE

**Semi-Annual Radiological Effluent Release Report for
July 1, 2014 through December 31, 2014**

ATTACHMENT 1

Report of Radioactivity in Effluent Liquid for the Period July - December 2014

ATTACHMENT 1

REPORT OF RADIOACTIVITY IN EFFLUENT LIQUID FOR THE PERIOD JULY – DECEMBER 2014

The liquid effluent data indicate there were no releases to the public during the reporting period that exceeded regulatory requirements, and that detected isotopic uranium activities were comparable to pre-operational activities.

Domestic wastewater (sewage) generated at the URENCO USA facility is discharged off site to the Eunice Waste Water Treatment Plant. Domestic wastewater is not expected to contain process water, as the facility design does not allow discharge of process liquid effluent to the domestic wastewater system. Domestic wastewater is sampled semi-annually at Lift Station 1, which is a central collection point for all domestic waste generated at the URENCO USA facility prior to off-site discharge. The average estimated wastewater discharge to the Eunice Waste Water Treatment Plant is approximately 13,000 gallons per day as reported in the URENCO USA Environmental Report, Revision 21a (UUSA, 2013).

The liquid effluent data indicate there were no releases to the public during the reporting period that exceeded the requirements set forth in 10 CFR 20.1301 and 10 CFR 20.1302.

The Uranium-235/236 detected activity value in domestic wastewater samples collected from Lift Station 1 was less than the facility-required lower level of detection (LLD) of $3.0\text{E-}9$ microCuries per milliliter (uCi/mL). The Uranium-233/234 and Uranium-238 detected activity values in Lift Station 1 samples exceeded the LLD. The LLD is less than 2% of the limits in 10 CFR 20 Appendix B Table 3 Effluent Concentrations (Environmental Report, UUSA, 2013).

Detected isotopic uranium in liquid effluent samples from Lift Station 1 were not the result of facility operations when compared to pre-operational data. Prior to operations, uranium activities in domestic wastewater samples ranged from $9\text{E-}10$ to $6.5\text{E-}09$ uCi/mL for Uranium-233/234, from $3\text{E-}11$ to $8\text{E-}10$ uCi/mL for Uranium-235/236, and from $3\text{E-}10$ to $6.2\text{E-}09$ uCi/mL for Uranium-238 (Semi-Annual Radioactive Effluent Release Reports for January 1 through June 30, 2009; July 1 through December 31, 2009; and January 1 through June 30, 2010). The Uranium-233/234, Uranium-235/236, and Uranium-238 activities for the current period ($6.21\text{E-}09$, $1.83\text{E-}10$, and $3.20\text{E-}09$ uCi/mL) did not exceed the pre-operational range for domestic wastewater.

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TABLE 1-1
LIFT STATION 1 WASTEWATER EFFLUENT - RADIONUCLIDES
 URENCO USA
 Lea County, New Mexico

Radionuclide	Sample Date and Time	Sample Period	Total Time (days)	Results (uCi/mL)	Counting Uncertainty (uCi/mL)	Combined Standard Uncertainty (2 sigma) (uCi/mL)	MDA (uCi/mL)	Total Flow (gallons/day)*	Quantity Released (Ci)	% of Table 3 of Appendix B to 10 CFR Part 20 Values - Monthly Average Releases to Sewers
LIFT STATION 1 - July - December 2014										
Uranium - 233/234	10/14/14 11:13	7/1/14 - 12/31/14	183	6.21E-09	6.30E-10	1.05E-09	1.39E-10	13,000	5.59E-05	0.21%
Uranium - 235/236	10/14/14 11:13	7/1/14 - 12/31/14	183	1.83E-10	1.28E-10	1.30E-10	6.09E-11	13,000	1.65E-06	0.01%
Uranium - 238	10/14/14 11:13	7/1/14 - 12/31/14	183	3.20E-09	4.55E-10	6.26E-10	1.52E-10	13,000	2.88E-05	0.11%

Notes:

1. uCi/mL = microCuries per milliliter.
2. MDA = minimum detectable activity.
3. Radionuclides analyzed using method EML U-02 Modified by GEL Laboratories, LLC of Charleston, SC.
4. The Uranium 235/236 detected activity value was less than the facility-required lower level of detection (LLD) of 3.0E-9 uCi/mL. The LLD is less than 2% of the limits in 10 CFR 20 Appendix B Table 3 Effluent Concentrations (Environmental Report, UUSA, 2013).
5. * = Table 3.4-5 "Initial Average Plant Water Consumption" lists average domestic water usage rate as approximately 13,000 gallons per day (Environmental Report, UUSA, 2013).
6. New Mexico Administrative Code 20.6.2.7.AAA: "Water contaminant" means any substance that could alter if discharged or spilled they physical, chemical, biological or radiological qualities of water; "water contaminant" does not mean source, special nuclear or by-product material as defined by the Atomic Energy Act of 1954.
7. Quantity released is calculated if the result equals or exceeds the MDA.

ATTACHMENT 2

Report of Radioactivity in Effluent Air for the Period July - December 2014

ATTACHMENT 2

REPORT OF RADIOACTIVITY IN EFFLUENT AIR FOR THE PERIOD JULY - DECEMBER 2014

The gaseous effluent data indicate there were no releases to the public during the reporting period that exceeded regulatory requirements.

All gaseous effluent gross alpha, gross beta, and isotopic uranium results were below the license basis lower level of detection (LLD) of 1.0E-14 microCuries per milliliter (uCi/mL) as defined in the Environmental Report Revision 21a (UUSA, 2013) for effluent samples.

The gaseous effluent data indicate there were no releases to the public during the reporting period that exceeded the requirements set forth 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.

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URENCO USA

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TABLE 2-1
 Separations Building Module-1001 (SBM 1001)
 Pumped Extract Exhaust Gaseous Effluent Vent System, 1001-562-1MA1
 Gross Alpha & Gross Beta, Quarter 3, 2014
 URENCO USA
 Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
10015621MA1 070914	07/09/2014 1008	07/02/14 - 07/09/14	Gross Alpha	1.58E-17	9.79E-17	3.63E-17	1.02E+05	Result Below MDA
10015621MA1 071614	07/16/2014 0852	07/09/14 - 07/16/14		5.29E-17	9.93E-17	5.18E-17	1.03E+05	Result Below MDA
10015621MA1 072314	07/23/2014 1039	07/16/14 - 07/23/14		3.47E-17	9.36E-17	3.47E-17	1.06E+05	Result Below MDA
10015621MA1 073014	07/30/2014 0818	07/23/14 - 07/30/14		3.11E-17	8.40E-17	3.11E-17	1.03E+05	Result Below MDA
10015621MA1 080614	08/06/2014 0955	07/30/14 - 08/06/14		3.50E-17	9.46E-17	3.50E-17	1.05E+05	Result Below MDA
10015621MA1 081314	08/13/2014 0931	08/06/14 - 08/13/14		3.40E-17	9.59E-17	5.00E-17	1.03E+05	Result Below MDA
10015621MA1 082014	08/20/2014 0737	08/13/14 - 08/20/14		-3.75E-17	9.65E-17	1.23E-19	1.02E+05	Result Below MDA
10015621MA1 082714	08/27/2014 1243	08/20/14 - 08/27/14		3.59E-17	9.69E-17	3.59E-17	1.06E+05	Result Below MDA
10015621MA1 090314	09/03/2014 0841	08/27/14 - 09/03/14		3.55E-17	9.59E-17	3.55E-17	1.00E+05	Result Below MDA
10015621MA1 091014	09/10/2014 0910	09/03/14 - 09/10/14		3.49E-17	9.42E-17	3.49E-17	1.04E+05	Result Below MDA
10015621MA1 091714	09/17/2014 0851	09/10/14 - 09/17/14		3.42E-17	9.24E-17	3.42E-17	1.04E+05	Result Below MDA
10015621MA1 092414	09/24/2014 1122	09/17/14 - 09/24/14		3.49E-17	9.42E-17	3.49E-17	1.06E+05	Result Below MDA
10015621MA1 100114	10/01/2014 0729	09/24/14 - 10/01/14		-3.53E-17	6.37E-16	9.29E-17	1.01E+05	Result Below MDA
10015621MA1 070914	07/09/2014 1008	07/02/14 - 07/09/14	Gross Beta	3.44E-15	4.08E-15	1.35E-15	1.02E+05	Result Below MDA
10015621MA1 071614	07/16/2014 0852	07/09/14 - 07/16/14		1.37E-15	4.14E-15	1.27E-15	1.03E+05	Result Below MDA
10015621MA1 072314	07/23/2014 1039	07/16/14 - 07/23/14		1.88E-15	3.91E-15	1.18E-15	1.06E+05	Result Below MDA
10015621MA1 073014	07/30/2014 0818	07/23/14 - 07/30/14		1.02E-15	3.50E-15	1.05E-15	1.03E+05	Result Below MDA
10015621MA1 080614	08/06/2014 0955	07/30/14 - 08/06/14		7.21E-16	3.95E-15	1.13E-15	1.05E+05	Result Below MDA
10015621MA1 081314	08/13/2014 0931	08/06/14 - 08/13/14		1.71E-15	4.00E-15	1.24E-15	1.03E+05	Result Below MDA
10015621MA1 082014	08/20/2014 0737	08/13/14 - 08/20/14		2.35E-16	4.03E-15	1.20E-15	1.02E+05	Result Below MDA
10015621MA1 082714	08/27/2014 1243	08/20/14 - 08/27/14		1.95E-15	4.04E-15	1.22E-15	1.06E+05	Result Below MDA
10015621MA1 090314	09/03/2014 0841	08/27/14 - 09/03/14		3.59E-16	4.00E-15	1.13E-15	1.00E+05	Result Below MDA
10015621MA1 091014	09/10/2014 0910	09/03/14 - 09/10/14		-2.75E-16	3.93E-15	1.12E-15	1.04E+05	Result Below MDA
10015621MA1 091714	09/17/2014 0851	09/10/14 - 09/17/14		-3.46E-16	3.85E-15	1.06E-15	1.04E+05	Result Below MDA
10015621MA1 092414	09/24/2014 1122	09/17/14 - 09/24/14		2.32E-15	3.93E-15	1.24E-15	1.06E+05	Result Below MDA
10015621MA1 100114	10/01/2014 0729	09/24/14 - 10/01/14		-1.95E-14	9.15E-15	2.17E-15	1.01E+05	Result Below MDA

Notes:

* No exceptions.

1. Ci = Curies.

2. µCi/ml = microCuries per milliliter.

3. CL = Confidence level.

4. m3 = cubic meters.

5. MDA = minimum detectable activity.

6. All detected activity values were less than 1.0E-14 µCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).

7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-2

Separations Building Module-1001 (SBM 1001)
Pumped Extract Exhaust Gaseous Effluent Vent System, 1001-562-1MA2
Gross Alpha & Gross Beta, Quarter 3, 2014
URENCO USA
Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
10015621MA2 071014	07/10/2014 0930	07/02/14 - 07/10/14	Gross Alpha	4.26E-17	1.15E-16	4.26E-17	9.19E+04	Result Below MDA
10015621MA2 071714	07/17/2014 0903	07/10/14 - 07/17/14		8.30E-17	1.13E-16	5.87E-17	8.09E+02	Result Below MDA
10015621MA2 072314	07/23/2014 1043	07/17/14 - 07/23/14		0.00E+00	9.69E-17	0.00E+00	7.04E+02	Result Below MDA
10015621MA2 073014	07/30/2014 0828	07/23/14 - 07/30/14		3.07E-17	8.30E-17	3.07E-17	8.01E+02	Result Below MDA
10015621MA2 080614	08/06/2014 0958	07/30/14 - 08/06/14		3.50E-17	9.46E-17	3.50E-17	7.53E+04	Result Below MDA
10015621MA2 081314	08/13/2014 0933	08/06/14 - 08/13/14		0.00E+00	7.68E-17	0.00E+00	1.10E+05	Result Below MDA
10015621MA2 082014	08/20/2014 0739	08/13/14 - 08/20/14		3.13E-17	8.45E-17	3.13E-17	1.09E+05	Result Below MDA
10015621MA2 082714	08/27/2014 1236	08/20/14 - 08/27/14		0.00E+00	8.10E-17	0.00E+00	1.14E+05	Result Below MDA
10015621MA2 090314	09/03/2014 0843	08/27/14 - 09/03/14		4.09E-17	1.10E-16	4.09E-17	1.07E+05	Result Below MDA
10015621MA2 091014	09/10/2014 0913	09/03/14 - 09/10/14		3.01E-17	8.48E-17	4.42E-17	1.11E+05	Result Below MDA
10015621MA2 091714	09/17/2014 0900	09/10/14 - 09/17/14		4.14E-17	1.12E-16	4.14E-17	1.10E+05	Result Below MDA
10015621MA2 092414	09/24/2014 1124	09/17/14 - 09/24/14		3.42E-17	9.24E-17	3.42E-17	1.11E+05	Result Below MDA
10015621MA2 100114	10/01/2014 0735	09/24/14 - 10/01/14		-2.28E-16	7.93E-16	8.78E-17	1.06E+05	Result Below MDA
10015621MA2 071014	07/10/2014 0930	07/02/14 - 07/10/14	Gross Beta	8.76E-16	4.79E-15	1.38E-15	9.19E+04	Result Below MDA
10015621MA2 071714	07/17/2014 0903	07/10/14 - 07/17/14		2.68E-15	4.70E-15	1.44E-15	8.09E+02	Result Below MDA
10015621MA2 072314	07/23/2014 1043	07/17/14 - 07/23/14		2.18E-15	4.04E-15	1.24E-15	7.04E+02	Result Below MDA
10015621MA2 073014	07/30/2014 0828	07/23/14 - 07/30/14		1.25E-15	3.46E-15	1.04E-15	8.01E+02	Result Below MDA
10015621MA2 080614	08/06/2014 0958	07/30/14 - 08/06/14		2.02E-15	3.95E-15	1.21E-15	7.53E+04	Result Below MDA
10015621MA2 081314	08/13/2014 0933	08/06/14 - 08/13/14		7.71E-16	3.20E-15	9.34E-16	1.10E+05	Result Below MDA
10015621MA2 082014	08/20/2014 0739	08/13/14 - 08/20/14		3.16E-16	3.53E-15	1.00E-15	1.09E+05	Result Below MDA
10015621MA2 082714	08/27/2014 1236	08/20/14 - 08/27/14		2.01E-15	3.38E-15	1.06E-15	1.14E+05	Result Below MDA
10015621MA2 090314	09/03/2014 0843	08/27/14 - 09/03/14		1.11E-15	4.60E-15	1.34E-15	1.07E+05	Result Below MDA
10015621MA2 091014	09/10/2014 0913	09/03/14 - 09/10/14		1.73E-15	3.54E-15	1.11E-15	1.11E+05	Result Below MDA
10015621MA2 091714	09/17/2014 0900	09/10/14 - 09/17/14		3.78E-15	4.66E-15	1.48E-15	1.10E+05	Result Below MDA
10015621MA2 092414	09/24/2014 1124	09/17/14 - 09/24/14		2.20E-15	3.85E-15	1.18E-15	1.11E+05	Result Below MDA
10015621MA2 100114	10/01/2014 0735	09/24/14 - 10/01/14		-2.81E-14	1.14E-14	2.84E-15	1.06E+05	Result Below MDA

Notes:

* No exceptions.

1. Ci = Curies.

2. µCi/ml = microCuries per milliliter.

3. CL = Confidence level.

4. m3 = cubic meters.

5. MDA = minimum detectable activity.

6. All detected activity values were less than 1.0E-14 µCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).

7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-3

Separations Building Module-1003 (SBM 1003)
Pumped Extract Exhaust Gaseous Effluent Vent System, 1003-562-1MA1
Gross Alpha & Beta, Quarter 3, 2014
URENCO USA
Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
10035621MA1 070914	07/09/2014 1304	07/02/14 - 07/09/14	Gross Alpha	3.81E-17	1.07E-16	5.60E-17	8.52E+04	Result Below MDA
10035621MA1 071614	07/16/2014 0915	07/09/14 - 07/16/14		6.66E-17	9.30E-17	4.85E-17	8.33E+04	Result Below MDA
10035621MA1 072314	07/23/2014 1023	07/16/14 - 07/23/14		0.00E+00	1.09E-16	0.00E+00	9.13E+04	Result Below MDA
10035621MA1 073014	07/30/2014 0839	07/23/14 - 07/30/14		-4.91E-18	1.04E-16	3.86E-17	8.97E+04	Result Below MDA
10035621MA1 080614	08/06/2014 1015	07/30/14 - 08/06/14		0.00E+00	1.01E-16	0.00E+00	9.29E+04	Result Below MDA
10035621MA1 081314	08/13/2014 0944	08/06/14 - 08/13/14		0.00E+00	9.59E-17	0.00E+00	8.92E+04	Result Below MDA
10035621MA1 082014	08/20/2014 1523	08/13/14 - 08/20/14		0.00E+00	1.23E-16	0.00E+00	1.02E+05	Result Below MDA
10035621MA1 082714	08/27/2014 1210	08/20/14 - 08/27/14		0.00E+00	9.39E-17	0.00E+00	7.21E+04	Result Below MDA
10035621MA1 090314	09/03/2014 0857	08/27/14 - 09/03/14		2.99E-17	8.06E-17	2.99E-17	8.84E+04	Result Below MDA
10035621MA1 091014	09/10/2014 0924	09/03/14 - 09/10/14		5.01E-17	6.80E-17	3.55E-17	9.16E+04	Result Below MDA
10035621MA1 091714	09/17/2014 0913	09/10/14 - 09/17/14		5.33E-16	9.69E-17	1.39E-16	8.97E+04	4.7836E-11
10035621MA1 092414	09/24/2014 1131	09/17/14 - 09/24/14		3.12E-17	8.42E-17	3.12E-17	8.54E+04	Result Below MDA
10035621MA1 100114	10/01/2014 0805	09/24/14 - 10/01/14		-1.82E-16	6.33E-16	7.00E-17	8.17E+04	Result Below MDA
10035621MA1 070914	07/09/2014 1304	07/02/14 - 07/09/14	Gross Beta	3.25E-15	4.48E-15	1.53E-15	8.52E+04	Result Below MDA
10035621MA1 071614	07/16/2014 0915	07/09/14 - 07/16/14		1.52E-15	3.88E-15	1.16E-15	8.33E+04	Result Below MDA
10035621MA1 072314	07/23/2014 1023	07/16/14 - 07/23/14		1.38E-15	4.55E-15	1.34E-15	9.13E+04	Result Below MDA
10035621MA1 073014	07/30/2014 0839	07/23/14 - 07/30/14		9.10E-16	4.34E-15	1.35E-15	8.97E+04	Result Below MDA
10035621MA1 080614	08/06/2014 1015	07/30/14 - 08/06/14		2.28E-15	4.22E-15	1.29E-15	9.29E+04	Result Below MDA
10035621MA1 081314	08/13/2014 0944	08/06/14 - 08/13/14		8.38E-16	4.00E-15	1.17E-15	8.92E+04	Result Below MDA
10035621MA1 082014	08/20/2014 1523	08/13/14 - 08/20/14		2.47E-15	5.13E-15	1.55E-15	1.02E+05	Result Below MDA
10035621MA1 082714	08/27/2014 1210	08/20/14 - 08/27/14		8.21E-16	3.92E-15	1.14E-15	7.21E+04	Result Below MDA
10035621MA1 090314	09/03/2014 0857	08/27/14 - 09/03/14		1.41E-15	3.38E-15	1.02E-15	8.84E+04	Result Below MDA
10035621MA1 091014	09/10/2014 0924	09/03/14 - 09/10/14		-2.54E-16	2.84E-15	7.82E-16	9.16E+04	Result Below MDA
10035621MA1 091714	09/17/2014 0913	09/10/14 - 09/17/14		2.31E-15	4.04E-15	1.24E-15	8.97E+04	Result Below MDA
10035621MA1 092414	09/24/2014 1131	09/17/14 - 09/24/14		6.42E-16	3.52E-15	1.01E-15	8.54E+04	Result Below MDA
10035621MA1 100114	10/01/2014 0805	09/24/14 - 10/01/14		-2.12E-14	9.09E-15	2.11E-15	8.17E+04	Result Below MDA

Notes:

* No exceptions.

1. Ci = Curies.

2. uCi/ml = microCuries per milliliter.

3. CL = Confidence level.

4. m3 = cubic meters.

5. MDA = minimum detectable activity.

6. All detected activity values were less than 1.0E-14 uCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).

7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-4
 Separations Building Module-1003 (SBM 1003)
 Pumped Extract Exhaust Gaseous Effluent Vent System, 1003-562-1MA2
 Gross Alpha & Gross Beta, Quarter 3, 2014
 URENCO USA
 Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
10035621MA2 070914	07/09/2014 1310	07/02/14 - 07/09/14	Gross Alpha	3.71E-17	1.00E-16	3.71E-17	9.24E+04	Result Below MDA
10035621MA2 071614	07/16/2014 0921	07/09/14 - 07/16/14		0.00E+00	1.04E-16	0.00E+00	9.03E+04	Result Below MDA
10035621MA2 072314	07/23/2014 1022	07/16/14 - 07/23/14		0.00E+00	9.52E-17	0.00E+00	9.83E+04	Result Below MDA
10035621MA2 073014	07/30/2014 0841	07/23/14 - 07/30/14		1.68E-17	1.04E-16	3.86E-17	9.72E+04	Result Below MDA
10035621MA2 080614	08/06/2014 1018	07/30/14 - 08/06/14		0.00E+00	9.79E-17	0.00E+00	9.96E+04	Result Below MDA
10035621MA2 081314	08/13/2014 0946	08/06/14 - 08/13/14		-1.39E-18	9.86E-17	3.65E-17	9.67E+04	Result Below MDA
10035621MA2 082014	08/20/2014 1015	08/13/14 - 08/20/14		5.48E-17	7.43E-17	3.88E-17	9.48E+04	Result Below MDA
10035621MA2 082814	08/28/2014 1205	08/20/14 - 08/28/14		1.07E-16	1.19E-16	7.64E-17	1.09E+05	Result Below MDA
10035621MA2 090314	09/03/2014 0939	08/28/14 - 09/03/14		3.35E-17	9.42E-17	4.92E-17	8.06E+04	Result Below MDA
10035621MA2 091014	09/10/2014 0927	09/03/14 - 09/10/14		2.58E-17	6.97E-17	2.58E-17	9.78E+04	Result Below MDA
10035621MA2 091714	09/17/2014 0921	09/10/14 - 09/17/14		5.16E-17	7.00E-17	3.65E-17	9.70E+04	Result Below MDA
10035621MA2 092414	09/24/2014 1135	09/17/14 - 09/24/14		0.00E+00	6.86E-17	0.00E+00	9.46E+04	Result Below MDA
10035621MA2 100114	10/01/2014 1428	09/24/14 - 10/01/14		0.00E+00	6.85E-17	0.00E+00	9.37E+04	Result Below MDA
10035621MA2 070914	07/09/2014 1310	07/02/14 - 07/09/14	Gross Beta	1.46E-15	4.17E-15	1.26E-15	9.24E+04	Result Below MDA
10035621MA2 071614	07/16/2014 0921	07/09/14 - 07/16/14		2.47E-15	4.33E-15	1.33E-15	9.03E+04	Result Below MDA
10035621MA2 072314	07/23/2014 1022	07/16/14 - 07/23/14		1.43E-15	3.97E-15	1.19E-15	9.83E+04	Result Below MDA
10035621MA2 073014	07/30/2014 0841	07/23/14 - 07/30/14		9.10E-16	4.34E-15	1.30E-15	9.72E+04	Result Below MDA
10035621MA2 080614	08/06/2014 1018	07/30/14 - 08/06/14		9.82E-16	4.08E-15	1.19E-15	9.96E+04	Result Below MDA
10035621MA2 081314	08/13/2014 0946	08/06/14 - 08/13/14		1.65E-15	4.11E-15	1.28E-15	9.67E+04	Result Below MDA
10035621MA2 082014	08/20/2014 1015	08/13/14 - 08/20/14		8.42E-16	3.10E-15	9.14E-16	9.48E+04	Result Below MDA
10035621MA2 082814	08/28/2014 1205	08/20/14 - 08/28/14		1.94E-15	4.98E-15	1.53E-15	1.09E+05	Result Below MDA
10035621MA2 090314	09/03/2014 0939	08/28/14 - 09/03/14		7.32E-16	3.93E-15	1.18E-15	8.06E+04	Result Below MDA
10035621MA2 091014	09/10/2014 0927	09/03/14 - 09/10/14		3.51E-16	2.91E-15	8.35E-16	9.78E+04	Result Below MDA
10035621MA2 091714	09/17/2014 0921	09/10/14 - 09/17/14		1.76E-15	2.92E-15	9.07E-16	9.70E+04	Result Below MDA
10035621MA2 092414	09/24/2014 1135	09/17/14 - 09/24/14		3.46E-16	2.86E-15	8.22E-16	9.46E+04	Result Below MDA
10035621MA2 100114	10/01/2014 1428	09/24/14 - 10/01/14		8.65E-16	2.86E-15	8.42E-16	9.37E+04	Result Below MDA

Notes:

* No exceptions.

1. Ci = Curies.

2. uCi/ml = microCuries per milliliter.

3. CL = Confidence level.

4. m3 = cubic meters.

5. MDA = minimum detectable activity.

6. All detected activity values were less than 1.0E-14 uCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).

7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-5
 Cylinder Receipt and Dispatch Building-1100 (CRDB 1100)
 Fume Hood Exhaust Gaseous Effluent Vent System, 1100-562-1MA1
 Gross Alpha & Gross Beta, Quarter 3, 2014
 URENCO USA
 Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
11005621MA1 070914	07/09/2014 0939	07/02/14 - 07/09/14	Gross Alpha	3.41E-17	9.21E-17	3.41E-17	1.78E+05	Result Below MDA
11005621MA1 071614	07/16/2014 0849	07/09/14 - 07/16/14		8.16E-17	8.35E-17	4.35E-17	1.78E+05	Result Below MDA
11005621MA1 072314	07/23/2014 0954	07/16/14 - 07/23/14		0.00E+00	9.27E-17	0.00E+00	1.77E+05	Result Below MDA
11005621MA1 073014	07/30/2014 0850	07/23/14 - 07/30/14		0.00E+00	7.22E-17	0.00E+00	1.75E+05	Result Below MDA
11005621MA1 080614	08/06/2014 0937	07/30/14 - 08/06/14		3.11E-17	8.77E-17	4.57E-17	1.78E+05	Result Below MDA
11005621MA1 081314	08/13/2014 1000	08/06/14 - 08/13/14		0.00E+00	8.22E-17	0.00E+00	1.78E+05	Result Below MDA
11005621MA1 082014	08/20/2014 0720	08/13/14 - 08/20/14		3.28E-17	8.85E-17	3.28E-17	1.70E+05	Result Below MDA
11005621MA1 082714	08/27/2014 1143	08/20/14 - 08/27/14		5.86E-17	7.94E-17	4.14E-17	1.77E+05	Result Below MDA
11005621MA1 090314	09/03/2014 0953	08/27/14 - 09/03/14		6.55E-17	9.08E-17	5.80E-17	1.70E+05	Result Below MDA
11005621MA1 091014	09/10/2014 0905	09/03/14 - 09/10/14		0.00E+00	8.50E-17	0.00E+00	1.73E+05	Result Below MDA
11005621MA1 091714	09/17/2014 0935	09/10/14 - 09/17/14		3.28E-17	8.85E-17	3.28E-17	1.72E+05	Result Below MDA
11005621MA1 092414	09/24/2014 1310	09/17/14 - 09/24/14		3.19E-17	8.81E-17	3.19E-17	1.44E+05	Result Below MDA
11005621MA1 100114	10/01/2014 0748	09/24/14 - 10/01/14		7.77E-17	1.05E-16	5.49E-17	6.48E+04	Result Below MDA
11005621MA1 070914	07/09/2014 0939	07/02/14 - 07/09/14	Gross Beta	2.76E-15	3.84E-15	1.27E-15	1.78E+05	Result Below MDA
11005621MA1 071614	07/16/2014 0849	07/09/14 - 07/16/14		1.32E-15	3.48E-15	1.05E-15	1.78E+05	Result Below MDA
11005621MA1 072314	07/23/2014 0954	07/16/14 - 07/23/14		5.87E-16	3.87E-15	1.11E-15	1.77E+05	Result Below MDA
11005621MA1 073014	07/30/2014 0850	07/23/14 - 07/30/14		1.18E-15	3.01E-15	9.01E-16	1.75E+05	Result Below MDA
11005621MA1 080614	08/06/2014 0937	07/30/14 - 08/06/14		7.95E-16	3.66E-15	1.11E-15	1.78E+05	Result Below MDA
11005621MA1 081314	08/13/2014 1000	08/06/14 - 08/13/14		7.19E-16	3.43E-15	1.00E-15	1.78E+05	Result Below MDA
11005621MA1 082014	08/20/2014 0720	08/13/14 - 08/20/14		1.12E-15	3.69E-15	1.09E-15	1.70E+05	Result Below MDA
11005621MA1 082714	08/27/2014 1143	08/20/14 - 08/27/14		1.09E-15	3.31E-15	9.77E-16	1.77E+05	Result Below MDA
11005621MA1 090314	09/03/2014 0953	08/27/14 - 09/03/14		1.39E-15	3.78E-15	1.17E-15	1.70E+05	Result Below MDA
11005621MA1 091014	09/10/2014 0905	09/03/14 - 09/10/14		2.20E-15	3.55E-15	1.12E-15	1.73E+05	Result Below MDA
11005621MA1 091714	09/17/2014 0935	09/10/14 - 09/17/14		4.46E-16	3.69E-15	1.06E-15	1.72E+05	Result Below MDA
11005621MA1 092414	09/24/2014 1310	09/17/14 - 09/24/14		7.52E-16	3.59E-15	1.05E-15	1.44E+05	Result Below MDA
11005621MA1 100114	10/01/2014 0748	09/24/14 - 10/01/14		1.59E-15	4.39E-15	1.31E-15	6.48E+04	Result Below MDA

Notes:

* No exceptions.

1. Ci = Curies.

2. uCi/ml = microCuries per milliliter.

3. CL = Confidence level.

4. m3 = cubic meters.

5. MDA = minimum detectable activity.

6. All detected activity values were less than 1.0E-14 uCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).

7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-6
Cylinder Receipt and Dispatch Building-1100 (CRDB 1100)
Fume Hood Exhaust Gaseous Effluent Vent System, 1100-562-1MA2
Gross Alpha & Gross Beta, Quarter 3, 2014
URENCO USA
Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
11005621MA2 071014	07/10/2014 0911	07/02/14 - 07/10/14	Gross Alpha	-1.70E-18	1.21E-16	4.48E-17	3.35E+04	Result Below MDA
11005621MA2 071614	07/16/2014 0851	07/10/14 - 07/16/14		4.31E-17	1.16E-16	4.31E-17	2.22E+04	Result Below MDA
11005621MA2 072314	07/23/2014 0949	07/16/14 - 07/23/14		0.00E+00	1.10E-16	0.00E+00	1.97E+04	Result Below MDA
11005621MA2 073114	07/31/2014 1000	07/23/14 - 07/31/14		8.23E-17	1.12E-16	5.82E-17	2.27E+04	Result Below MDA
11005621MA2 080614	08/06/2014 1341	07/31/14 - 08/06/14		0.00E+00	1.21E-16	0.00E+00	1.75E+04	Result Below MDA
11005621MA2 081314	08/13/2014 1002	08/06/14 - 08/13/14		4.28E-17	1.15E-16	4.26E-17	1.92E+04	Result Below MDA
11005621MA2 082014	08/20/2014 0722	08/13/14 - 08/20/14		-1.33E-18	9.42E-17	3.49E-17	1.29E+05	Result Below MDA
11005621MA2 082714	08/27/2014 1153	08/20/14 - 08/27/14		0.00E+00	8.61E-17	0.00E+00	1.81E+05	Result Below MDA
11005621MA2 090314	09/03/2014 0955	08/27/14 - 09/03/14		4.73E-17	8.88E-17	4.63E-17	1.75E+05	Result Below MDA
11005621MA2 091014	09/10/2014 0906	09/03/14 - 09/10/14		0.00E+00	8.83E-17	0.00E+00	1.78E+05	Result Below MDA
11005621MA2 091714	09/17/2014 0938	09/10/14 - 09/17/14		0.00E+00	8.48E-17	0.00E+00	1.77E+05	Result Below MDA
11005621MA2 092414	09/24/2014 1312	09/17/14 - 09/24/14		1.46E-17	9.08E-17	3.36E-17	1.80E+05	Result Below MDA
11005621MA2 100114	10/01/2014 0751	09/24/14 - 10/01/14		3.39E-17	9.14E-17	3.39E-17	1.72E+05	Result Below MDA
11005621MA2 071014	07/10/2014 0911	07/02/14 - 07/10/14	Gross Beta	3.07E-15	5.04E-15	1.63E-15	3.35E+04	Result Below MDA
11005621MA2 071614	07/16/2014 0851	07/10/14 - 07/16/14		3.21E-15	4.85E-15	1.53E-15	2.22E+04	Result Below MDA
11005621MA2 072314	07/23/2014 0949	07/16/14 - 07/23/14		1.52E-15	4.60E-15	1.36E-15	1.97E+04	Result Below MDA
11005621MA2 073114	07/31/2014 1000	07/23/14 - 07/31/14		7.07E-16	4.66E-15	1.34E-15	2.27E+04	Result Below MDA
11005621MA2 080614	08/06/2014 1341	07/31/14 - 08/06/14		2.89E-15	5.07E-15	1.55E-15	1.75E+04	Result Below MDA
11005621MA2 081314	08/13/2014 1002	08/06/14 - 08/13/14		2.88E-15	4.79E-15	1.49E-15	1.92E+04	Result Below MDA
11005621MA2 082014	08/20/2014 0722	08/13/14 - 08/20/14		2.35E-15	3.93E-15	1.28E-15	1.29E+05	Result Below MDA
11005621MA2 082714	08/27/2014 1153	08/20/14 - 08/27/14		1.84E-15	3.59E-15	1.10E-15	1.81E+05	Result Below MDA
11005621MA2 090314	09/03/2014 0955	08/27/14 - 09/03/14		-4.47E-16	3.71E-15	1.05E-15	1.75E+05	Result Below MDA
11005621MA2 091014	09/10/2014 0906	09/03/14 - 09/10/14		1.11E-16	3.68E-15	1.03E-15	1.78E+05	Result Below MDA
11005621MA2 091714	09/17/2014 0938	09/10/14 - 09/17/14		1.46E-15	3.54E-15	1.09E-15	1.77E+05	Result Below MDA
11005621MA2 092414	09/24/2014 1312	09/17/14 - 09/24/14		1.13E-15	3.78E-15	1.14E-15	1.80E+05	Result Below MDA
11005621MA2 100114	10/01/2014 0751	09/24/14 - 10/01/14		1.60E-15	3.82E-15	1.15E-15	1.72E+05	Result Below MDA

Notes:

* No exceptions.

1. Ci = Curies.

2. uCi/ml = microCuries per milliliter.

3. CL = Confidence level.

4. m3 = cubic meters.

5. MDA = minimum detectable activity.

6. All detected activity values were less than 1.0E-14 uCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).

7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-7

Cylinder Receipt and Dispatch Building-1100 (CRDB 1100)
 Local Extract Exhaust Gaseous Effluent Vent System, 1100-562-2MA1
 Gross Alpha & Gross Beta, Quarter 3, 2014
 URENCO USA
 Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
11005622MA1 070914	07/09/2014 0947	07/02/14 - 07/09/14	Gross Alpha	-1.68E-16	7.64E-16	8.46E-17	6.24E+06	Result Below MDA
11005622MA1 071614	07/16/2014 0855	07/09/14 - 07/16/14		-9.84E-17	5.95E-16	7.34E-17	6.24E+06	Result Below MDA
11005622MA1 082014	08/20/2014 0724	07/16/14 - 08/20/14		-9.24E-17	4.20E-16	4.64E-17	3.11E+07	Result Below MDA
11005622MA1 082714	08/27/2014 1132	08/20/14 - 08/27/14		-1.12E-18	5.37E-16	8.89E-17	6.43E+06	Result Below MDA
11005622MA1 090314	09/03/2014 0957	08/27/14 - 09/03/14		2.47E-16	5.42E-16	1.27E-16	6.21E+06	Result Below MDA
11005622MA1 091014	09/10/2014 0907	09/03/14 - 09/10/14		1.20E-16	5.45E-16	1.04E-16	6.24E+06	Result Below MDA
11005622MA1 091714	09/17/2014 0944	09/10/14 - 09/17/14		-5.93E-17	5.39E-16	7.28E-17	6.27E+06	Result Below MDA
11005622MA1 092414	09/24/2014 1314	09/17/14 - 09/24/14		-1.22E-16	5.56E-16	6.15E-17	6.24E+06	Result Below MDA
11005622MA1 100114	10/01/2014 0753	09/24/14 - 10/01/14		-6.25E-17	5.68E-16	7.67E-17	5.97E+06	Result Below MDA
11005622MA1 070914	07/09/2014 0947	07/02/14 - 07/09/14	Gross Beta	-2.48E-14	1.10E-14	2.53E-15	6.24E+06	Result Below MDA
11005622MA1 071614	07/16/2014 0855	07/09/14 - 07/16/14		-1.89E-14	8.54E-15	1.98E-15	6.24E+06	Result Below MDA
11005622MA1 082014	08/20/2014 0724	07/16/14 - 08/20/14		-1.35E-14	6.03E-15	1.39E-15	3.11E+07	Result Below MDA
11005622MA1 082714	08/27/2014 1132	08/20/14 - 08/27/14		-1.75E-14	7.71E-15	1.81E-15	6.43E+06	Result Below MDA
11005622MA1 090314	09/03/2014 0957	08/27/14 - 09/03/14		-1.82E-14	7.78E-15	1.83E-15	6.21E+06	Result Below MDA
11005622MA1 091014	09/10/2014 0907	09/03/14 - 09/10/14		-1.79E-14	7.83E-15	1.79E-15	6.24E+06	Result Below MDA
11005622MA1 091714	09/17/2014 0944	09/10/14 - 09/17/14		-1.87E-14	7.74E-15	1.79E-15	6.27E+06	Result Below MDA
11005622MA1 092414	09/24/2014 1314	09/17/14 - 09/24/14		-1.76E-14	7.99E-15	1.85E-15	6.24E+06	Result Below MDA
11005622MA1 100114	10/01/2014 0753	09/24/14 - 10/01/14		-1.85E-14	8.16E-15	1.86E-15	5.97E+06	Result Below MDA

Notes:

* Instrument down on 07/23/14-08/13/14 due to faulty pump, placed back into normal service 08/13/14.

1. Ci = Curies.
2. uCi/ml = microCuries per milliliter.
3. CL = Confidence level.
4. m3 = cubic meters.
5. MDA = minimum detectable activity.
6. All detected activity values were less than 1.0E-14 uCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).
7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-8

Cylinder Receipt and Dispatch Building-1100 (CRDB 1100)
 Local Extract Exhaust Gaseous Effluent Vent System, 1100-562-2MA2
 Gross Alpha & Gross Beta, Quarter 3, 2014
 URENCO USA
 Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
11005622MA2 071114	07/11/2014 0711	07/02/14 - 07/11/14	Gross Alpha	-1.66E-16	7.52E-16	8.32E-17	7.29E+06	Result Below MDA
11005622MA2 071614	07/16/2014 0857	07/11/14 - 07/16/14		2.88E-16	7.52E-16	1.61E-16	4.69E+06	Result Below MDA
11005622MA2 072314	07/23/2014 0940	07/16/14 - 07/23/14		-6.81E-17	4.11E-16	5.08E-17	6.51E+06	Result Below MDA
11005622MA2 073014	07/30/2014 1732	07/23/14 - 07/30/14		-1.71E-16	7.67E-16	9.47E-17	6.78E+06	Result Below MDA
11005622MA2 080614	08/06/2014 0939	07/30/14 - 08/06/14		-1.07E-16	6.48E-16	8.00E-17	6.16E+06	Result Below MDA
11005622MA2 081314	08/13/2014 1004	08/06/14 - 08/13/14		-1.05E-16	6.35E-16	7.84E-17	6.48E+06	Result Below MDA
11005622MA2 082014	08/20/2014 0726	08/13/14 - 08/20/14		-4.33E-17	7.83E-16	1.14E-16	6.40E+06	Result Below MDA
11005622MA2 082714	08/27/2014 1138	08/20/14 - 08/27/14		2.86E-16	7.46E-16	1.60E-16	6.72E+06	Result Below MDA
11005622MA2 090314	09/03/2014 1000	08/27/14 - 09/03/14		-1.00E-16	6.06E-16	7.48E-17	6.48E+06	Result Below MDA
11005622MA2 091014	09/10/2014 0908	09/03/14 - 09/10/14		-6.55E-17	5.95E-16	8.04E-17	6.54E+06	Result Below MDA
11005622MA2 091714	09/17/2014 0948	09/10/14 - 09/17/14		-4.37E-17	7.90E-16	1.15E-16	6.54E+06	Result Below MDA
11005622MA2 092414	09/24/2014 1317	09/17/14 - 09/24/14		-1.72E-16	7.70E-16	9.51E-17	6.59E+06	Result Below MDA
11005622MA2 100114	10/01/2014 0755	09/24/14 - 10/01/14		-1.58E-16	8.07E-16	9.96E-17	6.27E+06	Result Below MDA
11005622MA2 071114	07/11/2014 0711	07/02/14 - 07/11/14	Gross Beta	-2.13E-14	1.08E-14	2.58E-15	7.29E+06	Result Below MDA
11005622MA2 071614	07/16/2014 0857	07/11/14 - 07/16/14		-2.44E-14	1.08E-14	2.49E-15	4.69E+06	Result Below MDA
11005622MA2 072314	07/23/2014 0940	07/16/14 - 07/23/14		-1.34E-14	5.91E-15	1.35E-15	6.51E+06	Result Below MDA
11005622MA2 073014	07/30/2014 1732	07/23/14 - 07/30/14		-2.36E-14	1.10E-14	2.61E-15	6.78E+06	Result Below MDA
11005622MA2 080614	08/06/2014 0939	07/30/14 - 08/06/14		-1.96E-14	9.31E-15	2.18E-15	6.16E+06	Result Below MDA
11005622MA2 081314	08/13/2014 1004	08/06/14 - 08/13/14		-2.07E-14	9.12E-15	2.08E-15	6.48E+06	Result Below MDA
11005622MA2 082014	08/20/2014 0726	08/13/14 - 08/20/14		-2.50E-14	1.13E-14	2.59E-15	6.40E+06	Result Below MDA
11005622MA2 082714	08/27/2014 1138	08/20/14 - 08/27/14		-2.25E-14	1.07E-14	2.50E-15	6.72E+06	Result Below MDA
11005622MA2 090314	09/03/2014 1000	08/27/14 - 09/03/14		-1.78E-14	8.71E-15	2.06E-15	6.48E+06	Result Below MDA
11005622MA2 091014	09/10/2014 0908	09/03/14 - 09/10/14		-2.02E-14	8.54E-15	1.94E-15	6.54E+06	Result Below MDA
11005622MA2 091714	09/17/2014 0948	09/10/14 - 09/17/14		-2.63E-14	1.13E-14	2.58E-15	6.54E+06	Result Below MDA
11005622MA2 092414	09/24/2014 1317	09/17/14 - 09/24/14		-2.59E-14	1.11E-14	2.55E-15	6.59E+06	Result Below MDA
11005622MA2 100114	10/01/2014 0755	09/24/14 - 10/01/14		-2.73E-14	1.16E-14	2.67E-15	6.27E+06	Result Below MDA

Notes:

* No exceptions.

1. Ci = Curies.

2. uCi/ml = microCuries per milliliter.

3. CL = Confidence level.

4. m3 = cubic meters.

5. MDA = minimum detectable activity.

6. All detected activity values were less than 1.0E-14 uCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).

7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-9
Centrifuge Test and Post Mortem Facilities - 1300 (CTPMF)
Exhaust Filtration System Gaseous Effluent
Gross Alpha & Gross Beta, Quarter 3, 2014
URENCO USA
Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
13005621MA1 070914	07/09/2014 1037	07/02/14 - 07/09/14	Gross Alpha	6.03E-16	1.16E-16	1.67E-16	3.03E+06	1.82E-09
13005621MA1 071614	07/16/2014 1401	07/09/14 - 07/16/14		7.12E-17	9.65E-17	5.03E-17	3.05E+06	Result Below MDA
13005621MA1 072314	07/23/2014 1031	07/16/14 - 07/23/14		4.42E-17	1.19E-16	4.42E-17	2.92E+06	Result Below MDA
13005621MA1 073014	07/30/2014 0941	07/23/14 - 07/30/14		6.46E-17	1.21E-16	6.33E-17	2.97E+06	Result Below MDA
13005621MA1 080614	08/06/2014 1049	07/30/14 - 08/06/14		4.20E-17	1.13E-16	4.20E-17	3.00E+06	Result Below MDA
13005621MA1 081314	08/13/2014 1000	08/06/14 - 08/13/14		0.00E+00	1.01E-16	0.00E+00	2.97E+06	Result Below MDA
13005621MA1 082014	08/20/2014 0920	08/13/14 - 08/20/14		8.30E-17	1.13E-16	5.87E-17	2.97E+06	Result Below MDA
13005621MA1 082714	08/27/2014 1024	08/20/14 - 08/27/14		-1.36E-18	9.65E-17	3.58E-17	3.00E+06	Result Below MDA
13005621MA1 090314	09/03/2014 1029	08/27/14 - 09/03/14		4.14E-17	1.12E-16	4.14E-17	3.00E+06	Result Below MDA
13005621MA1 091014	09/10/2014 1231	09/03/14 - 09/10/14		-1.31E-18	9.27E-17	3.43E-17	3.03E+06	Result Below MDA
13005621MA1 091714	09/17/2014 1249	09/10/14 - 09/17/14		-1.41E-18	9.96E-17	3.69E-17	9.19E+05	Result Below MDA
13005621MA1 092414	09/24/2014 1027	09/17/14 - 09/24/14		5.99E-17	1.13E-16	5.87E-17	2.95E+06	Result Below MDA
13005621MA1 100114	10/01/2014 1140	09/24/14 - 10/01/14		4.33E-17	1.17E-16	4.33E-17	3.00E+06	Result Below MDA
13005621MA1 070914	07/09/2014 1037	07/02/14 - 07/09/14	Gross Beta	7.15E-16	4.85E-15	1.47E-15	3.03E+06	Result Below MDA
13005621MA1 071614	07/16/2014 1401	07/09/14 - 07/16/14		2.14E-15	4.03E-15	1.25E-15	3.05E+06	Result Below MDA
13005621MA1 072314	07/23/2014 1031	07/16/14 - 07/23/14		3.44E-15	4.98E-15	1.57E-15	2.92E+06	Result Below MDA
13005621MA1 073014	07/30/2014 0941	07/23/14 - 07/30/14		1.06E-15	5.07E-15	1.52E-15	2.97E+06	Result Below MDA
13005621MA1 080614	08/06/2014 1049	07/30/14 - 08/06/14		7.18E-16	4.73E-15	1.36E-15	3.00E+06	Result Below MDA
13005621MA1 081314	08/13/2014 1000	08/06/14 - 08/13/14		2.04E-15	4.23E-15	1.28E-15	2.97E+06	Result Below MDA
13005621MA1 082014	08/20/2014 0920	08/13/14 - 08/20/14		3.34E-15	4.70E-15	1.49E-15	2.97E+06	Result Below MDA
13005621MA1 082714	08/27/2014 1024	08/20/14 - 08/27/14		2.57E-15	4.03E-15	1.30E-15	3.00E+06	Result Below MDA
13005621MA1 090314	09/03/2014 1029	08/27/14 - 09/03/14		4.18E-16	4.66E-15	1.32E-15	3.00E+06	Result Below MDA
13005621MA1 091014	09/10/2014 1231	09/03/14 - 09/10/14		8.40E-16	3.87E-15	1.17E-15	3.03E+06	Result Below MDA
13005621MA1 091714	09/17/2014 1249	09/10/14 - 09/17/14		-9.68E-17	4.16E-15	1.21E-15	9.19E+05	Result Below MDA
13005621MA1 092414	09/24/2014 1027	09/17/14 - 09/24/14		1.70E-15	4.70E-15	1.44E-15	2.95E+06	Result Below MDA
13005621MA1 100114	10/01/2014 1140	09/24/14 - 10/01/14		1.76E-15	4.87E-15	1.46E-15	3.00E+06	Result Below MDA

Notes:

- * No exceptions.
- 1. Ci = Curies.
- 2. uCi/ml = microCuries per milliliter.
- 3. CL = Confidence level.
- 4. m3 = cubic meters.
- 5. MDA = minimum detectable activity.
- 6. All detected activity values were less than 1.0E-14 uCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).
- 7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-10

Separations Building Module-1001 (SBM 1001)
Pumped Extract Exhaust Gaseous Effluent Vent System, 1001-562-1MA1
Gross Alpha & Gross Beta, Quarter 4, 2014
URENCO USA
Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
10015621MA1 103114	10/31/2014 1008	10/01/14 - 10/31/14	Gross Alpha	1.67E-17	2.26E-17	1.18E-17	4.47E+05	Result Below MDA
10015621MA1 120114	12/01/2014 0944	10/31/14 - 12/01/14		1.41E-17	1.92E-17	1.00E-17	4.58E+05	Result Below MDA
10015621MA1 010215	01/02/2015 0840	12/01/14 - 01/02/15		3.73E-17	2.09E-17	1.73E-17	4.79E+05	1.79E-11
10015621MA1 103114	10/31/2014 1008	10/01/14 - 10/31/14	Gross Beta	2.46E-16	9.43E-16	2.82E-16	4.47E+05	Result Below MDA
10015621MA1 120114	12/01/2014 0944	10/31/14 - 12/01/14		3.14E-16	8.00E-16	2.39E-16	4.58E+05	Result Below MDA
10015621MA1 010215	01/02/2015 0840	12/01/14 - 01/02/15		3.93E-16	8.72E-16	2.64E-16	4.79E+05	Result Below MDA

Notes:

* No exceptions.

1. Ci = Curies.

2. uCi/ml = microCuries per milliliter.

3. CL = Confidence level.

4. m3 = cubic meters.

5. MDA = minimum detectable activity.

6. All detected activity values were less than 1.0E-14 uCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).

7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-11

Separations Building Module-1001 (SBM 1001)
Pumped Extract Exhaust Gaseous Effluent Vent System, 1001-562-1MA2
Gross Alpha & Gross Beta, Quarter 4, 2014
URENCO USA
Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
10015621MA2 103114	10/31/2014 1003	10/01/14 - 10/31/14	Gross Alpha	8.88E-18	2.40E-17	8.88E-18	4.66E+05	Result Below MDA
10015621MA2 120114	12/01/2014 0946	10/31/14 - 12/01/14		1.86E-17	2.53E-17	1.32E-17	4.79E+05	Result Below MDA
10015621MA2 010215	01/02/2015 0842	12/01/14 - 01/02/15		1.75E-17	2.38E-17	1.24E-17	4.93E+05	Result Below MDA
10015621MA2 103114	10/31/2014 1003	10/01/14 - 10/31/14	Gross Beta	2.48E-16	1.00E-15	3.03E-16	4.66E+05	Result Below MDA
10015621MA2 120114	12/01/2014 0946	10/31/14 - 12/01/14		3.17E-17	1.05E-15	2.95E-16	4.79E+05	Result Below MDA
10015621MA2 010215	01/02/2015 0842	12/01/14 - 01/02/15		7.47E-16	9.91E-16	3.15E-16	4.93E+05	Result Below MDA

Notes:

* No exceptions.

1. Ci = Curies.

2. uCi/ml = microCuries per milliliter.

3. CL = Confidence level.

4. m3 = cubic meters.

5. MDA = minimum detectable activity.

6. All detected activity values were less than 1.0E-14 uCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).

7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-12

Separations Building Module-1003 (SBM 1003)
Pumped Extract Exhaust Gaseous Effluent Vent System, 1003-562-1MA1
Gross Alpha & Gross Beta, Quarter 4, 2014
URENCO USA
Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
10035621MA1 103114	10/31/2014 1018	10/01/14 - 10/31/14	Gross Alpha	-2.74E-19	1.94E-17	7.20E-18	3.75E+05	Result Below MDA
10035621MA1 120114	12/01/2014 1014	10/31/14 - 12/01/14		7.80E-18	2.11E-17	7.80E-18	3.91E+05	Result Below MDA
10035621MA1 010215	01/02/2015 0903	12/01/14 - 01/02/15		-1.93E-18	2.09E-17	1.09E-17	3.94E+05	Result Below MDA
10035621MA1 103114	10/31/2014 1018	10/01/14 - 10/31/14	Gross Beta	1.76E-16	8.11E-16	2.45E-16	3.75E+05	Result Below MDA
10035621MA1 120114	12/01/2014 1014	10/31/14 - 12/01/14		3.17E-16	8.79E-16	2.63E-16	3.91E+05	Result Below MDA
10035621MA1 010215	01/02/2015 0903	12/01/14 - 01/02/15		3.39E-16	8.72E-16	2.91E-16	3.94E+05	Result Below MDA

Notes:

* No exceptions.

1. Ci = Curies.

2. uCi/ml = microCuries per milliliter.

3. CL = Confidence level.

4. m3 = cubic meters.

5. MDA = minimum detectable activity.

6. All detected activity values were less than 1.0E-14 uCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).

7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-13

Separations Building Module-1003 (SBM 1003)
Pumped Extract Exhaust Gaseous Effluent Vent System, 1003-562-1MA2
Gross Alpha & Gross Beta, Quarter 4, 2014
URENCO USA
Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m ³)	Quantity Released? (Ci)
10035621MA2 103114	10/31/2014 1020	10/01/14 - 10/31/14	Gross Alpha	5.82E-18	1.57E-17	5.82E-18	4.04E+05	Result Below MDA
10035621MA2 120114	12/01/2014 1016	10/31/14 - 12/01/14		0.00E+00	1.52E-17	0.00E+00	4.29E+05	Result Below MDA
10035621MA2 010215	01/02/2015 0905	12/01/14 - 01/02/15		7.96E-18	1.49E-17	7.80E-18	4.31E+05	Result Below MDA
10035621MA2 103114	10/31/2014 1020	10/01/14 - 10/31/14	Gross Beta	3.36E-16	6.55E-16	2.01E-16	4.04E+05	Result Below MDA
10035621MA2 120114	12/01/2014 1016	10/31/14 - 12/01/14		2.86E-16	6.34E-16	1.92E-16	4.29E+05	Result Below MDA
10035621MA2 010215	01/02/2015 0905	12/01/14 - 01/02/15		1.31E-16	6.24E-16	1.87E-16	4.31E+05	Result Below MDA

Notes:

* No exceptions

1. Ci = Curies

2. uCi/ml = microCuries per milliliter.

3. CL = Confidence level.

4. m³ = cubic meters.

5. MDA = minimum detectable activity.

6. All detected activity values were less than 1.0E-14 uCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).

7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-14
Cylinder Receipt and Dispatch Building-1100 (CRDB 1100)
Fume Hood Exhaust Gaseous Effluent Vent System, 1100-562-1MA1
Gross Alpha & Gross Beta, Quarter 4, 2014
URENCO USA
Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
11005621MA1 103114	10/31/2014 0950	10/01/14 - 10/31/14	Gross Alpha	2.14E-17	1.93E-17	1.24E-17	7.53E+05	1.81E-11
11005621MA1 120114	12/01/2014 1043	10/31/14 - 12/01/14		1.37E-17	1.85E-17	9.67E-18	7.66E+05	Result Below MDA
11005621MA1 010215	01/02/2015 0842	12/01/14 - 01/02/15		3.05E-18	1.89E-17	7.01E-18	7.21E+05	Result Below MDA
11005621MA1 103114	10/31/2014 0950	10/01/14 - 10/31/14	Gross Beta	6.54E-16	8.06E-16	2.56E-16	7.53E+05	Result Below MDA
11005621MA1 120114	12/01/2014 1043	10/31/14 - 12/01/14		4.17E-16	7.73E-16	2.37E-16	7.66E+05	Result Below MDA
11005621MA1 010215	01/02/2015 0842	12/01/14 - 01/02/15		4.97E-16	7.89E-16	2.51E-16	7.21E+05	Result Below MDA

Notes:

- * No exceptions.
- 1. Ci = Curies.
- 2. uCi/ml = microCuries per milliliter.
- 3. CL = Confidence level.
- 4. m3 = cubic meters.
- 5. MDA = minimum detectable activity.
- 6. All detected activity values were less than 1.0E-14 uCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).
- 7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-15

Cylinder Receipt and Dispatch Building-1100 (CRDB 1100)
 Fume Hood Exhaust Gaseous Effluent Vent System, 1100-562-1MA2
 Gross Alpha & Gross Beta, Quarter 4, 2014
 URENCO USA
 Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result ($\mu\text{Ci/ml}$)	MDA ($\mu\text{Ci/ml}$) @ 95 CL	Instrument Uncertainty ($\mu\text{Ci/ml}$)	Total Vent System Flow (m^3)	Quantity Released? (Ci)
11005621MA2 103114	10/31/2014 0951	10/01/14 - 10/31/14	Gross Alpha	3.43E-18	2.12E-17	7.86E-18	7.55E+05	Result Below MDA
11005621MA2 120114	12/01/2014 1045	10/31/14 - 12/01/14		4.24E-17	2.38E-17	1.74E-17	1.72E+04	7.30E-13
11005621MA2 010215	01/02/2015 0845	12/01/14 - 01/02/15		1.60E-17	2.17E-17	1.13E-17	3.99E+05	Result Below MDA
11005621MA2 103114	10/31/2014 0951	10/01/14 - 10/31/14	Gross Beta	3.72E-16	8.85E-16	2.75E-16	7.55E+05	Result Below MDA
11005621MA2 120114	12/01/2014 1045	10/31/14 - 12/01/14		5.35E-16	9.91E-16	3.04E-16	1.72E+04	Result Below MDA
11005621MA2 010215	01/02/2015 0845	12/01/14 - 01/02/15		0.00E+00	9.06E-16	2.53E-16	3.99E+05	Result Below MDA

Notes:

* No exceptions.

1. Ci = Curies.

2. $\mu\text{Ci/ml}$ = microCuries per milliliter.

3. CL = Confidence level.

4. m^3 = cubic meters.

5. MDA = minimum detectable activity.

6. All detected activity values were less than $1.0\text{E-}14$ $\mu\text{Ci/mL}$ which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).

7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-16

Cylinder Receipt and Dispatch Building-1100 (CRDB 1100)
 Local Extract Exhaust Gaseous Effluent Vent System, 1100-562-2MA1
 Gross Alpha & Gross Beta, Quarter 4, 2014
 URENCO USA
 Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
11005622MA1 103114	10/31/2014 0953	10/01/14 - 10/31/14	Gross Alpha	5.71E-17	1.85E-17	2.05E-17	2.68E+07	1.53E-09
11005622MA1 120114	12/01/2014 1047	10/31/14 - 12/01/14		9.40E-17	1.87E-17	2.58E-17	2.76E+07	2.59E-09
11005622MA1 010215	01/02/2015 0847	12/01/14 - 01/02/15		1.17E-16	1.84E-17	2.87E-17	2.84E+07	3.32E-09
11005622MA1 103114	10/31/2014 0953	10/01/14 - 10/31/14	Gross Beta	5.17E-16	7.73E-16	2.55E-16	2.68E+07	Result Below MDA
11005622MA1 120114	12/01/2014 1047	10/31/14 - 12/01/14		4.20E-16	7.79E-16	2.45E-16	2.76E+07	Result Below MDA
11005622MA1 010215	01/02/2015 0847	12/01/14 - 01/02/15		5.36E-16	8.11E-16	2.55E-16	2.84E+07	Result Below MDA

Notes:

* No exceptions.

1. Ci = Curies.

2. uCi/ml = microCuries per milliliter.

3. CL = Confidence level.

4. m3 = cubic meters.

5. MDA = minimum detectable activity.

6. All detected activity values were less than 1.0E-14 uCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).

7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-17

Cylinder Receipt and Dispatch Building-1100 (CRDB 1100)
 Local Extract Exhaust Gaseous Effluent Vent System, 1100-562-2MA2
 Gross Alpha & Gross Beta, Quarter 4, 2014
 URENCO USA
 Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
11005622MA2 103114	10/31/2014 0955	10/01/14 - 10/31/14	Gross Alpha	1.81E-17	2.01E-17	1.29E-17	2.79E+07	Result Below MDA
11005622MA2 120114	12/01/2014 1049	10/31/14 - 12/01/14		1.53E-16	2.19E-17	3.52E-17	1.23E+07	1.89E-09
11005622MA2 010215	01/02/2015 0849	12/01/14 - 01/02/15		2.40E-16	2.60E-17	4.64E-17	3.00E+07	7.21E-09
11005622MA2 103114	10/31/2014 0955	10/01/14 - 10/31/14	Gross Beta	7.54E-17	8.41E-16	2.48E-16	2.79E+07	Result Below MDA
11005622MA2 120114	12/01/2014 1049	10/31/14 - 12/01/14		2.48E-16	9.13E-16	2.69E-16	1.23E+07	Result Below MDA
11005622MA2 010215	01/02/2015 0849	12/01/14 - 01/02/15		7.16E-16	1.08E-15	3.41E-16	3.00E+07	Result Below MDA

Notes:

- * No exceptions.
- 1. Ci = Curies.
- 2. uCi/ml = microCuries per milliliter.
- 3. CL = Confidence level.
- 4. m3 = cubic meters.
- 5. MDA = minimum detectable activity.
- 6. All detected activity values were less than 1.0E-14 uCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).
- 7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-18
Centrifuge Test and Post Mortem Facilities - 1300 (CTPMF)
Exhaust Filtration System Gaseous Effluent
Gross Alpha & Gross Beta, Quarter 4, 2014
URENCO USA
Lea County, New Mexico

Sample ID	Sample Date and Time	Sample Period	Analyte	Gross Result (µCi/ml)	MDA (µCi/ml) @ 95 CL	Instrument Uncertainty (µCi/ml)	Total Vent System Flow (m3)	Quantity Released? (Ci)
13005621MA1 110314	11/03/2014 1105	10/01/14 - 11/03/14	Gross Alpha	0.00E+00	2.44E-17	0.00E+00	1.40E+07	Result Below MDA
13005621MA1 120214	12/02/2014 1002	11/03/14 - 12/02/14		1.02E-17	2.75E-17	1.02E-17	1.23E+07	Result Below MDA
13005621MA1 010615	01/06/2015 1006	12/02/14 - 01/06/15		2.87E-17	5.55E-17	3.55E-17	6.40E+06	Result Below MDA
13005621MA1 110314	11/03/2014 1105	10/01/14 - 11/03/14	Gross Beta	4.59E-16	1.02E-15	3.08E-16	1.40E+07	Result Below MDA
13005621MA1 120214	12/02/2014 1002	11/03/14 - 12/02/14		3.79E-16	1.15E-15	3.39E-16	1.23E+07	Result Below MDA
13005621MA1 010615	01/06/2015 1006	12/02/14 - 01/06/15		1.06E-15	2.32E-15	7.47E-16	6.40E+06	Result Below MDA

Notes:

- * Alpha monitor shut down @ 0915 on 12/17/14 due to ongoing power outage in the CAB. (Filter left on and changed 01/06/14)
- 1. Ci = Curies.
- 2. uCi/ml = microCuries per milliliter.
- 3. CL = Confidence level.
- 4. m3 = cubic meters.
- 5. MDA = minimum detectable activity.
- 6. All detected activity values were less than 1.0E-14 uCi/mL which is less than the limits in 10 CFR 20 Appendix B table 2. Effluent Concentrations (Environmental Report, UUSA, 2013).
- 7. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-19
SEPARATIONS BUILDING MODULE-1001 (SBM-1001) PUMPED EXTRACT EXHAUST GASEOUS EFFLUENT VENT SYSTEM
QUARTERLY FILTER COMPOSITE RESULTS - RADIONUCLIDES
URENCO USA
Lea County, New Mexico

Radionuclide / Sample ID	Sample Date and Time	Sample Period	Results (uCi/mL)	Counting Uncertainty (uCi/mL)	Combined Standard Uncertainty (2-sigma) (uCi/mL)	MDA (uCi/mL)	Total Flow (m3)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR Part 20 Values
1001-562-1MA1									
Uranium-233/234 / 1001-562-1MA1 QTR3 2014	10/01/14 07:29	07/02/14 - 10/01/14	-7.44E-17	8.87E-17	8.88E-17	2.67E-16	1.34E+06	Result Below MDA	Result Below MDA
Uranium-233/234 / 1001-562-1MA1 QTR4 2014	01/02/15 08:40	10/01/14 - 01/02/15	3.98E-17	7.04E-17	7.07E-17	1.07E-16	2.77E+06	Result Below MDA	Result Below MDA
Uranium-235/236 / 1001-562-1MA1 QTR3 2014	10/01/14 07:29	07/02/14 - 10/01/14	2.46E-17	9.23E-17	9.25E-17	1.55E-16	1.34E+06	Result Below MDA	Result Below MDA
Uranium-235/236 / 1001-562-1MA1 QTR4 2014	01/02/15 08:40	10/01/14 - 01/02/15	-5.18E-18	4.47E-17	4.48E-17	1.03E-16	2.77E+06	Result Below MDA	Result Below MDA
Uranium-238 / 1001-562-1MA1 QTR3 2014	10/01/14 07:29	07/02/14 - 10/01/14	-1.89E-17	5.70E-17	5.72E-17	1.60E-16	1.34E+06	Result Below MDA	Result Below MDA
Uranium-238 / 1001-562-1MA1 QTR4 2014	01/02/15 08:40	10/01/14 - 01/02/15	1.82E-17	6.20E-17	6.21E-17	1.15E-16	2.77E+06	Result Below MDA	Result Below MDA
1001-562-1MA2									
Uranium-233/234 / 1001-562-1MA2 QTR3 2014	10/01/14 07:34	07/02/14 - 10/01/14	1.40E-17	5.24E-17	5.25E-17	8.82E-17	1.05E+06	Result Below MDA	Result Below MDA
Uranium-233/234 / 1001-562-1MA2 QTR4 2014	01/02/15 08:42	10/01/14 - 01/02/15	7.16E-17	9.79E-17	9.86E-17	1.33E-16	2.88E+06	Result Below MDA	Result Below MDA
Uranium-235/236 / 1001-562-1MA2 QTR3 2014	10/01/14 07:34	07/02/14 - 10/01/14	4.00E-17	7.86E-17	7.89E-17	1.09E-16	1.05E+06	Result Below MDA	Result Below MDA
Uranium-235/236 / 1001-562-1MA2 QTR4 2014	01/02/15 08:42	10/01/14 - 01/02/15	0	5.44E-17	5.46E-17	8.10E-17	2.88E+06	Result Below MDA	Result Below MDA
Uranium-238 / 1001-562-1MA2 QTR3 2014	10/01/14 07:34	07/02/14 - 10/01/14	1.84E-17	5.17E-17	5.18E-17	5.52E-17	1.05E+06	Result Below MDA	Result Below MDA
Uranium-238 / 1001-562-1MA2 QTR4 2014	01/02/15 08:42	10/01/14 - 01/02/15	2.80E-17	7.69E-17	7.71E-17	1.33E-16	2.88E+06	Result Below MDA	Result Below MDA

Notes:

1. uCi/mL = microCuries per milliliter.
2. m³ = cubic meters.
3. MDA = minimum detectable activity.
4. Radionuclides analyzed using method EML U-02 Modified by GEL Laboratories of Charleston, SC.
5. All detected activity values were less than the facility-required lower level of detection of 1.0E-14 uCi/mL which is less than 1% of the limits in 10 CFR 20 Appendix B Table 2 Effluent Concentrations (Environmental Report, UUSA, 2013).
6. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-20
SEPARATIONS BUILDING MODULE-1003 (SBM-1003) PUMPED EXTRACT EXHAUST GASEOUS EFFLUENT VENT SYSTEM
QUARTERLY FILTER COMPOSITE RESULTS - RADIONUCLIDES
URENCO USA
Lea County, New Mexico

Radionuclide / Sample ID	Sample Date and Time	Sample Period	Results (uCi/mL)	Counting Uncertainty (uCi/mL)	Combined Standard Uncertainty (2-sigma) (uCi/mL)	MDA (uCi/mL)	Total Flow (m ³)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR Part 20 Values
1003-562-1MA1									
Uranium-233/234 / 1003-562-1MA1 QTR3 2014	10/01/14 08:05	07/02/14 - 10/01/14	6.51E-18	6.80E-17	6.81E-17	1.42E-16	1.14E+06	Result Below MDA	Result Below MDA
Uranium-233/234 / 1003-562-1MA1 QTR4 2014	01/02/15 09:03	10/01/14 - 01/02/15	5.25E-18	5.98E-17	5.99E-17	1.27E-16	2.32E+06	Result Below MDA	Result Below MDA
Uranium-235/236 / 1003-562-1MA1 QTR3 2014	10/01/14 08:05	07/02/14 - 10/01/14	2.87E-17	8.08E-17	8.09E-17	8.62E-17	1.14E+06	Result Below MDA	Result Below MDA
Uranium-235/236 / 1003-562-1MA1 QTR4 2014	01/02/15 09:03	10/01/14 - 01/02/15	4.06E-17	6.95E-17	6.98E-17	6.09E-17	2.32E+06	Result Below MDA	Result Below MDA
Uranium-238 / 1003-562-1MA1 QTR3 2014	10/01/14 08:05	07/02/14 - 10/01/14	2.32E-17	6.53E-17	6.55E-17	6.97E-17	1.14E+06	Result Below MDA	Result Below MDA
Uranium-238 / 1003-562-1MA1 QTR4 2014	01/02/15 09:03	10/01/14 - 01/02/15	-2.36E-17	3.81E-17	3.82E-17	1.21E-16	2.32E+06	Result Below MDA	Result Below MDA
1003-562-1MA2									
Uranium-233/234 / 1003-562-1MA2 QTR3 2014	10/01/14 14:38	07/02/14 - 10/01/14	-2.83E-17	5.54E-17	5.55E-17	1.54E-16	1.24E+06	Result Below MDA	Result Below MDA
Uranium-233/234 / 1003-562-1MA2 QTR4 2014	01/02/15 09:05	10/01/14 - 01/02/15	-6.48E-18	2.87E-17	2.88E-17	7.48E-17	2.53E+06	Result Below MDA	Result Below MDA
Uranium-235/236 / 1003-562-1MA2 QTR3 2014	10/01/14 14:38	07/02/14 - 10/01/14	1.62E-17	6.08E-17	6.09E-17	1.02E-16	1.24E+06	Result Below MDA	Result Below MDA
Uranium-235/236 / 1003-562-1MA2 QTR4 2014	01/02/15 09:05	10/01/14 - 01/02/15	0	3.37E-17	3.38E-17	5.01E-17	2.53E+06	Result Below MDA	Result Below MDA
Uranium-238 / 1003-562-1MA2 QTR3 2014	10/01/14 14:38	07/02/14 - 10/01/14	3.93E-17	6.95E-17	6.98E-17	1.05E-16	1.24E+06	Result Below MDA	Result Below MDA
Uranium-238 / 1003-562-1MA2 QTR4 2014	01/02/15 09:05	10/01/14 - 01/02/15	-3.24E-18	2.80E-17	2.80E-17	6.48E-17	2.53E+06	Result Below MDA	Result Below MDA

Notes:

1. uCi/mL = microCuries per milliliter.
2. m³ = cubic meters.
3. MDA = minimum detectable activity.
4. Radionuclides analyzed using method EML U-02 Modified by GEL Laboratories of Charleston, SC.
5. All detected activity values were less than the facility-required lower level of detection of 1.0E-14 uCi/mL which is less than 1% of the limits in 10 CFR 20 Appendix B Table 2 Effluent Concentrations (Environmental Report, UUSA, 2013).
6. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-21
CYLINDER RECEIPT AND DISPATCH BUILDING (CRDB-1100) FUME HOOD AND LOCAL EXTRACT EXHAUST GASEOUS EFFLUENT VENT SYSTEM
QUARTERLY FILTER COMPOSITE RESULTS - RADIONUCLIDES
URENCO USA
Lea County, New Mexico

Radionuclide / Sample ID	Sample Date and Time	Sample Period	Results (uCi/mL)	Counting Uncertainty (uCi/mL)	Combined Standard Uncertainty (2-sigma) (uCi/mL)	MDA (uCi/mL)	Total Flow (m3)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR Part 20 Values
1100-562-1MA1									
Uranium-233/234 / 1100-562-1MA1 QTR3 2014	10/01/14 07:48	07/02/14 - 10/01/14	2.80E-17	8.79E-17	8.81E-17	1.65E-16	2.13E+06	Result Below MDA	Result Below MDA
Uranium-233/234 / 1100-562-1MA1 QTR4 2014	01/02/15 08:42	10/01/14 - 01/02/15	6.23E-17	8.76E-17	8.81E-17	1.36E-16	4.48E+06	Result Below MDA	Result Below MDA
Uranium-235/236 / 1100-562-1MA1 QTR3 2014	10/01/14 07:48	07/02/14 - 10/01/14	-6.30E-18	5.43E-17	5.45E-17	1.26E-16	2.13E+06	Result Below MDA	Result Below MDA
Uranium-235/236 / 1100-562-1MA1 QTR4 2014	01/02/15 08:42	10/01/14 - 01/02/15	-9.63E-18	4.26E-17	4.27E-17	1.11E-16	4.48E+06	Result Below MDA	Result Below MDA
Uranium-238 / 1100-562-1MA1 QTR3 2014	10/01/14 07:48	07/02/14 - 10/01/14	4.33E-17	8.62E-17	8.65E-17	1.40E-16	2.13E+06	Result Below MDA	Result Below MDA
Uranium-238 / 1100-562-1MA1 QTR4 2014	01/02/15 08:42	10/01/14 - 01/02/15	8.44E-18	4.69E-17	4.70E-17	8.99E-17	4.48E+06	Result Below MDA	Result Below MDA
1100-562-1MA2									
Uranium-233/234 / 1100-562-1MA2 QTR3 2014	10/01/14 07:51	07/02/14 - 10/01/14	-6.35E-17	8.18E-17	8.19E-17	2.43E-16	1.33E+06	Result Below MDA	Result Below MDA
Uranium-233/234 / 1100-562-1MA2 QTR4 2014	01/02/15 08:45	10/01/14 - 01/02/15	9.25E-19	6.85E-17	6.86E-17	1.52E-16	2.34E+06	Result Below MDA	Result Below MDA
Uranium-235/236 / 1100-562-1MA2 QTR3 2014	10/01/14 07:51	07/02/14 - 10/01/14	-4.34E-17	7.00E-17	7.02E-17	2.23E-16	1.33E+06	Result Below MDA	Result Below MDA
Uranium-235/236 / 1100-562-1MA2 QTR4 2014	01/02/15 08:45	10/01/14 - 01/02/15	0	5.76E-17	5.78E-17	8.57E-17	2.34E+06	Result Below MDA	Result Below MDA
Uranium-238 / 1100-562-1MA2 QTR3 2014	10/01/14 07:51	07/02/14 - 10/01/14	-2.73E-17	9.33E-17	9.34E-17	2.31E-16	1.33E+06	Result Below MDA	Result Below MDA
Uranium-238 / 1100-562-1MA2 QTR4 2014	01/02/15 08:45	10/01/14 - 01/02/15	1.76E-17	6.59E-17	6.60E-17	1.11E-16	2.34E+06	Result Below MDA	Result Below MDA
1100-562-2MA1									
Uranium-233/234 / 1100-562-2MA1 QTR3 2014	10/01/14 07:53	07/02/14 - 10/01/14	7.77E-18	8.85E-17	8.86E-17	1.88E-16	8.09E+07	Result Below MDA	Result Below MDA
Uranium-233/234 / 1100-562-2MA1 QTR4 2014	01/02/15 08:47	10/01/14 - 01/02/15	4.94E-17	1.14E-16	1.15E-16	2.07E-16	1.66E+08	Result Below MDA	Result Below MDA
Uranium-235/236 / 1100-562-2MA1 QTR3 2014	10/01/14 07:53	07/02/14 - 10/01/14	-1.44E-17	6.37E-17	6.39E-17	1.66E-16	8.09E+07	Result Below MDA	Result Below MDA
Uranium-235/236 / 1100-562-2MA1 QTR4 2014	01/02/15 08:47	10/01/14 - 01/02/15	-2.60E-17	7.06E-17	7.07E-17	1.88E-16	1.66E+08	Result Below MDA	Result Below MDA
Uranium-238 / 1100-562-2MA1 QTR3 2014	10/01/14 07:53	07/02/14 - 10/01/14	-1.75E-17	5.28E-17	5.29E-17	1.48E-16	8.09E+07	Result Below MDA	Result Below MDA
Uranium-238 / 1100-562-2MA1 QTR4 2014	01/02/15 08:47	10/01/14 - 01/02/15	-3.34E-17	7.10E-17	7.11E-17	1.85E-16	1.66E+08	Result Below MDA	Result Below MDA
1100-562-2MA2									
Uranium-233/234 / 1100-562-2MA2 QTR3 2014	10/01/14 07:55	07/02/14 - 10/01/14	-1.16E-17	1.08E-16	1.08E-16	2.51E-16	8.34E+07	Result Below MDA	Result Below MDA
Uranium-233/234 / 1100-562-2MA2 QTR4 2014	01/02/15 08:49	10/01/14 - 01/02/15	2.01E-16	1.41E-16	1.45E-16	1.44E-16	9.32E+07	1.87E-08	0.0067%
Uranium-235/236 / 1100-562-2MA2 QTR3 2014	10/01/14 07:55	07/02/14 - 10/01/14	-8.60E-18	7.41E-17	7.44E-17	1.72E-16	8.34E+07	Result Below MDA	Result Below MDA
Uranium-235/236 / 1100-562-2MA2 QTR4 2014	01/02/15 08:49	10/01/14 - 01/02/15	-6.09E-18	5.25E-17	5.27E-17	1.22E-16	9.32E+07	Result Below MDA	Result Below MDA
Uranium-238 / 1100-562-2MA2 QTR3 2014	10/01/14 07:55	07/02/14 - 10/01/14	1.16E-18	8.59E-17	8.61E-17	1.91E-16	8.34E+07	Result Below MDA	Result Below MDA
Uranium-238 / 1100-562-2MA2 QTR4 2014	01/02/15 08:49	10/01/14 - 01/02/15	5.75E-18	6.01E-17	6.02E-17	1.25E-16	9.32E+07	Result Below MDA	Result Below MDA

Notes:

1. uCi/mL = microCuries per milliliter.
2. m³ = cubic meters.
3. MDA = minimum detectable activity.
4. Radionuclides analyzed using method EML U-02 Modified by GEL Laboratories of Charleston, SC.
5. All detected activity values were less than the facility-required lower level of detection of 1.0E-14 uCi/mL which is less than 1% of the limits in 10 CFR 20 Appendix B Table 2 Effluent Concentrations (Environmental Report, UUSA, 2013).
6. Quantity released is calculated if the result equals or exceeds the MDA.

TABLE 2-22
CENTRIFUGE TEST AND POST MORTEM FACILITIES (CTPMF)
PUMPED EXTRACT EXHAUST FILTRATION SYSTEM GASEOUS EFFLUENT
QUARTERLY FILTER COMPOSITE RESULTS - RADIONUCLIDES
URENCO USA
Lea County, New Mexico

Radionuclide / Sample ID	Sample Date and Time	Sample Period	Results (uCi/mL)	Counting Uncertainty (uCi/mL)	Combined Standard Uncertainty (2-sigma) (uCi/mL)	MDA (uCi/mL)	Total CTPM Exhaust Filtration System Flow (m ³)	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR Part 20 Values
1300-562-1MA1									
Uranium-233/234 / 1300-562-1MA1 QTR3 2014	10/01/14 11:40	07/02/14 - 10/01/14	1.94E-17	8.69E-17	8.70E-17	1.70E-16	4.51E+07	Result Below MDA	Result Below MDA
Uranium-233/234 / 1300-562-1MA1 QTR4 2014	01/06/15 10:06	10/01/14 - 01/06/15	-8.59E-17	6.48E-17	6.49E-17	2.37E-16	6.55E+07	Result Below MDA	Result Below MDA
Uranium-235/236 / 1300-562-1MA1 QTR3 2014	10/01/14 11:40	07/02/14 - 10/01/14	-1.44E-17	6.36E-17	6.38E-17	1.66E-16	4.51E+07	Result Below MDA	Result Below MDA
Uranium-235/236 / 1300-562-1MA1 QTR4 2014	01/06/15 10:06	10/01/14 - 01/06/15	-5.90E-18	8.85E-17	8.86E-17	2.07E-16	6.55E+07	Result Below MDA	Result Below MDA
Uranium-238 / 1300-562-1MA1 QTR3 2014	10/01/14 11:40	07/02/14 - 10/01/14	1.84E-17	6.91E-17	6.92E-17	1.16E-16	4.51E+07	Result Below MDA	Result Below MDA
Uranium-238 / 1300-562-1MA1 QTR4 2014	01/06/15 10:06	10/01/14 - 01/06/15	-1.05E-17	7.25E-17	7.26E-17	1.76E-16	6.55E+07	Result Below MDA	Result Below MDA

Notes:

1. uCi/mL = microCuries per milliliter.
2. m³ = cubic meters.
3. MDA = minimum detectable activity.
4. Radionuclides analyzed using method EML U-02 Modified by GEL Laboratories of Charleston, SC.
5. All detected activity values were less than the facility-required lower level of detection of 1.0E-14 uCi/mL which is less than 1% of the limits in 10 CFR 20 Appendix B Table 2 Effluent Concentrations (Environmental Report, UUSA, 2013).
6. Quantity released is calculated if the result equals or exceeds the MDA.

ATTACHMENT 3

Report of Dose to Members of the Public for the Period July - December 2014

ATTACHMENT 3

DOSE TO MEMBERS OF THE PUBLIC FOR THE PERIOD JULY - DECEMBER 2014

The potential maximum doses directly at the discharge points for liquid and gaseous effluent were shown to be less than 10% of the radionuclide concentrations which, if ingested or inhaled continuously over the course of a year, would produce an unacceptable total effective dose equivalent.

In gaseous effluent, this is shown because the isotopic uranium activity was either below the 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 (Attachment 2, Tables 2-19, 2-20, 2-21, 2-22). The concentrations given in 10 CFR 20, Appendix B, Table 2 are equivalent to the radionuclide concentrations, which, if inhaled continuously over the course of a year, would produce a total effective dose equivalent of 0.05 rem (50 millirem). Because the maximum potential dose directly at the point of gaseous effluent discharge was acceptable, actual dose assessment was not performed.

The concentrations of isotopic uranium in gaseous effluent demonstrate compliance with 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.

For liquid effluent, the potential maximum dose directly at the point of liquid effluent discharge is shown to be less than 10% of the radionuclide concentrations which, if ingested continuously over the course of a year, would produce an unacceptable total effective dose equivalent. This is shown because the domestic wastewater effluent activity ranged from 0.01% - 0.21% of the value listed in 10 CFR 20, Appendix B, Table 3, "Releases to Sewers" (Attachment 1, Table 1-1). The concentrations in 10 CFR 20, Appendix B, Table 3 are such that if the sewage released by the licensee (URENCO USA) were the only source of water ingested by a reference man during a year, it would result in a committed effective dose equivalent of 0.5 rem (500 millirem). Because the maximum potential dose directly at the point of liquid effluent discharge was acceptable, actual dose assessment was not performed.

The concentrations of isotopic uranium in liquid effluent demonstrate compliance with 10 CFR 20.1301 and 10 CFR 20.1302.

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