



RE: 2107-N

August 19, 2021

Doug Mandeville, Project Manager  
Fuel Cycle Facilities Branch  
Division of Fuel Cycle Safety and Safeguards  
Office of Nuclear Material Safety  
U.S. Nuclear Regulatory Commission  
Two White Flint North, Mail Stop 5A10  
Rockville, MD 20852-2738

RE: License No. SUB-1010; Docket No. 40-8027  
Semi-Annual Effluent Report  
File No. 1.7

Dear Mr. Mandeville:

In accordance with the requirements of 10 CFR 40.65, enclosed is Sequoyah Fuels Corporation's Semi-Annual Effluent Report for the first half of 2021.

Results of fence line air sampling are also included.

Should you have any questions concerning this report, please contact me at (918) 489-5511, extension 223.

Sincerely,

Scott C. Munson, Manager  
Environmental

SCM/bt

Enclosure

xc: Robert Evans, NRC Region IV

Robert Evans  
U.S. Nuclear Regulatory Commission  
Region IV  
1600 East Lamar Blvd.  
Arlington, Texas 76011-4511

**TABLE I**  
**RADIOACTIVITY IN GASEOUS EFFLUENTS**  
**LICENSE SUB-1010; DOCKET 40-8027**

FIRST HALF 2021

AIRBORNE RELEASES  
ELEVATED AND TOTAL

LOCATION: MAIN PROCESS BUILDING

FIRST QUARTER

<u>RADIONUCLIDE RELEASED</u>	<u>Ci</u>	<u>μCi/ml</u>
URANIUM - NATURAL	0.00E+00	0.00E+00
THORIUM - 230	0.00E+00	0.00E+00
RADIUM - 226	0.00E+00	0.00E+00
VOLUME RELEASED (Liters)	<u>0.00E+00</u>	

SECOND QUARTER

<u>RADIONUCLIDE RELEASED</u>	<u>Ci</u>	<u>μCi/ml</u>
URANIUM - NATURAL	0.00E+00	0.00E+00
THORIUM - 230	0.00E+00	0.00E+00
RADIUM - 226	0.00E+00	0.00E+00
VOLUME RELEASED (Liters)	<u>0.00E+00</u>	

NOTE: THERE WERE NO GASEOUS EFFLUENTS THAT REQUIRED MONITORING AT S.F.C. DURING THIS PERIOD

**TABLE II**  
**RADIOACTIVITY IN LIQUID EFFLUENTS**  
**LICENSE SUB-1010; DOCKET 40-8027**

FIRST HALF 2021

LIQUID RELEASES

LOCATION : OUTFALL 008

FIRST QUARTER

<u>RADIONUCLIDE RELEASED</u>	<u>Ci</u>	<u>μCi/ml</u>	<u>% E C</u>
URANIUM - NATURAL	3.16E-04	4.40E-09	1.47
THORIUM - 230	4.02E-05	5.60E-10	0.56
RADIUM - 226	9.09E-06	1.27E-10	0.21
VOLUME RELEASED (Liters)	<u>7.18E+07</u>		

SECOND QUARTER

<u>RADIONUCLIDE RELEASED</u>	<u>Ci</u>	<u>μCi/ml</u>	<u>% E C</u>
URANIUM - NATURAL	4.61E-04	5.46E-09	1.82
THORIUM - 230	5.18E-05	6.13E-10	0.61
RADIUM - 226	1.82E-05	2.15E-10	0.36
VOLUME RELEASED (Liters)	<u>8.45E+07</u>		

FENCE LINE AIR SAMPLING  
FIRST HALF 2021

FIRST QUARTER				
Parameter	Location			
	E-1 East	E-2 West	E-3 South	E-4 North
Uranium, $\mu\text{Ci/ml}$	2.46E-16	2.38E-16	1.61E-16	1.70E-16
Thorium-230, $\mu\text{Ci/ml}$	7.60E-18	9.06E-17	2.18E-16	1.27E-16
Radium-226, $\mu\text{Ci/ml}$	4.96E-17	7.20E-17	1.43E-16	7.60E-17

SECOND QUARTER				
Parameter	Location			
	E-1 East	E-2 West	E-3 South	E-4 North
Uranium, $\mu\text{Ci/ml}$	2.02E-16	2.56E-16	1.93E-16	1.79E-16
Thorium-230, $\mu\text{Ci/ml}$	8.35E-17	3.91E-17	6.98E-17	3.77E-17
Radium-226, $\mu\text{Ci/ml}$	2.64E-17	2.23E-17	2.83E-17	4.04E-17