



ML20044F206

RE: 2005-N

February 4, 2020

Mark Shaffer
Director for Material Security
U.S. Nuclear Regulatory Commission
1600 E. Lamar Blvd
Arlington, Texas 76011-4511

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

Dear Mr. Shaffer:

In accordance with the requirements of 10 CFR 40.65, enclosed is Sequoyah Fuels Corporation's Semi-Annual Effluent Report for the second half of 2019.

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: Ken Kalman, NMSS
Robert Evans, NRC Region IV

TABLE I

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

SECOND HALF 2019

**AIRBORNE RELEASES
ELEVATED AND TOTAL**

LOCATION: MAIN PROCESS BUILDING

THIRD QUARTER

<u>RADIONUCLIDE RELEASED</u>	<u>CI</u>	<u>uCi/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>	

FOURTH QUARTER

<u>RADIONUCLIDE RELEASED</u>	<u>CI</u>	<u>uCi/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**

SECOND HALF 2019

LIQUID RELEASES

LOCATION : OUTFALL 008

THIRD QUARTER

<u>RADIONUCLIDE RELEASED</u>	<u>CI</u>	<u>uCi/ml</u>	<u>% E C</u>
URANIUM - NATURAL	8.28E-04	8.94E-09	2.98
THORIUM - 230	5.00E-05	5.40E-10	0.54
RADIUM - 226	3.48E-05	3.76E-10	0.63
VOLUME RELEASED (Liters)	<u>9.28E+07</u>		

FOURTH QUARTER

<u>RADIONUCLIDE RELEASED</u>	<u>CI</u>	<u>uCi/ml</u>	<u>% E C</u>
URANIUM - NATURAL	1.74E-03	1.08E-08	3.61
THORIUM - 230	5.82E-05	3.63E-10	0.36
RADIUM - 226	3.21E-05	2.00E-10	0.33
VOLUME RELEASED (Liters)	<u>1.60E+08</u>		

FENCE LINE AIR SAMPLING
Second HALF 2019

THIRD QUARTER				
Parameter	Location			
	E-1 East	E-2 West	E-3 South	E-4 North
Radon, pCi/l	Radon Monitoring Discontinued after 2nd Quarter 2019			
Uranium, $\mu\text{Ci/ml}$	2.82E-16	3.87E-16	2.06E-16	1.83E-16
Thorium-230, $\mu\text{Ci/ml}$	1.72E-17	5.80E-18	7.13E-17	1.58E-16
Radium-226, $\mu\text{Ci/ml}$	6.58E-17	9.66E-17	1.34E-16	7.26E-17

FOURTH QUARTER				
Parameter	Location			
	E-1 East	E-2 West	E-3 South	E-4 North
Radon, pCi/l	Radon Monitoring Discontinued after 2nd Quarter 2019			
Uranium, $\mu\text{Ci/ml}$	2.28E-16	3.07E-16	2.38E-16	2.37E-16
Thorium-230, $\mu\text{Ci/ml}$	1.56E-16	1.81E-17	2.37E-17	9.81E-18
Radium-226, $\mu\text{Ci/ml}$	7.38E-17	7.82E-17	1.05E-16	6.39E-17

