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DNMS

RE: 1812-N

August 17, 2018

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 first half of 2018.

Results of fence line air sampling are additionally included at the request of Region IV.

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**

**FIRST HALF 2018**

**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 2018**

**LIQUID RELEASES**

LOCATION : OUTFALL 008

**FIRST QUARTER**

<u>RADIONUCLIDE RELEASED</u>	<u>Ci</u>	<u>μCi/ml</u>	<u>% E C</u>
URANIUM - NATURAL	1.28E-03	9.41E-09	3.14
THORIUM - 230	1.16E-04	8.52E-10	0.85
RADIUM - 226	3.84E-05	2.83E-10	0.47
VOLUME RELEASED (Liters)	<u>1.36E+08</u>		

**SECOND QUARTER**

<u>RADIONUCLIDE RELEASED</u>	<u>Ci</u>	<u>μCi/ml</u>	<u>% E C</u>
URANIUM - NATURAL	1.09E-03	9.21E-09	3.07
THORIUM - 230	3.85E-05	3.25E-10	0.33
RADIUM - 226	2.19E-05	1.85E-10	0.31
VOLUME RELEASED (Liters)	<u>1.18E+08</u>		

FENCE LINE AIR SAMPLING  
FIRST HALF 2018

FIRST QUARTER				
Parameter	Location			
	E-1 East	E-2 West	E-3 South	E-4 North
Radon, pCi/l	0.27 ± 0.09	0.43 ± 0.09	0.35 ± 0.09	0.16 ± 0.06
Uranium, µCi/ml	2.22E-16	1.78E-16	1.97E-16	1.90E-16
Thorium-230, µCi/ml	1.37E-16	1.34E-16	1.36E-16	1.32E-16
Radium-226, µCi/ml	3.21E-17	5.71E-17	2.32E-17	4.12E-17

SECOND QUARTER				
Parameter	Location			
	E-1 East	E-2 West	E-3 South	E-4 North
Radon, pCi/l	0.11 ± 0.11	0.24 ± 0.11	0.19 ± 0.11	0.22 ± 0.11
Uranium, µCi/ml	3.03E-16	3.97E-16	2.99E-16	3.57E-16
Thorium-230, µCi/ml	9.61E-17	1.48E-16	1.45E-16	1.89E-16
Radium-226, µCi/ml	6.04E-17	7.94E-17	2.84E-16	7.51E-17