

RE: 2304-N

February 28, 2023

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

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

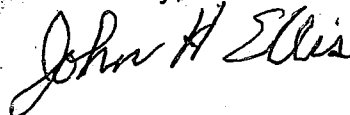
Dear Sir:

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 2022.

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 226.

Sincerely,



John Ellis  
President

JHE/bt

Enclosure

xc: Doug Mandeville, NMSS  
Linda Gersey, NRC Region IV

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NMSS20  
NMSS

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

**SECOND HALF 2022**

**AIRBORNE RELEASES**  
**ELEVATED AND TOTAL**

LOCATION: RESTRICTED AREA

**THIRD 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> |               |

**FOURTH 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**

**SECOND HALF 2022**

**LIQUID RELEASES**

LOCATION : OUTFALL 008

**THIRD QUARTER**

| <u>RADIONUCLIDE RELEASED</u> | <u>Ci</u>       | <u>μCi/ml</u> | <u>% E C</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>μCi/ml</u> | <u>% E C</u> |
|------------------------------|-----------------|---------------|--------------|
| URANIUM - NATURAL            | 2.25E-04        | 2.64E-09      | 0.88         |
| THORIUM - 230                | 1.91E-04        | 2.24E-09      | 2.24         |
| RADIUM - 226                 | 6.23E-06        | 7.30E-11      | 0.12         |
| VOLUME RELEASED (Liters)     | <u>8.54E+07</u> |               |              |

FENCE LINE AIR SAMPLING  
SECOND HALF 2022

| THIRD QUARTER                  |             |             |              |              |
|--------------------------------|-------------|-------------|--------------|--------------|
| Parameter                      | Location    |             |              |              |
|                                | E-1<br>East | E-2<br>West | E-3<br>South | E-4<br>North |
| Uranium, $\mu\text{Ci/ml}$     | 2.46E-16    | 3.38E-16    | 2.44E-16     | 3.14E-16     |
| Thorium-230, $\mu\text{Ci/ml}$ | 2.66E-16    | 4.70E-17    | 1.41E-16     | 6.66E-16     |
| Radium-226, $\mu\text{Ci/ml}$  | 1.80E-16    | 1.06E-16    | 2.11E-16     | 1.34E-16     |

| FOURTH QUARTER                 |             |             |              |              |
|--------------------------------|-------------|-------------|--------------|--------------|
| Parameter                      | Location    |             |              |              |
|                                | E-1<br>East | E-2<br>West | E-3<br>South | E-4<br>North |
| Uranium, $\mu\text{Ci/ml}$     | 3.25E-16    | 2.28E-16    | 1.95E-16     | 1.77E-16     |
| Thorium-230, $\mu\text{Ci/ml}$ | 9.51E-17    | 2.37E-17    | 1.53E-16     | 1.49E-16     |
| Radium-226, $\mu\text{Ci/ml}$  | 9.32E-17    | 8.89E-17    | 9.71E-17     | 8.49E-17     |