



February 21, 1990

Certified Mail
Return Receipt Requested

Mr. Robert D. Martin
Regional Administrator
U.S. NUCLEAR REGULATORY COMMISSION
Region IV
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

Att: 40-08027
File: SUB-1010

RE: UF₆ Reduction Plant Event of 01-22-90
10 CFR 20.405 Report

Dear Mr. Martin:

As required by 10 CFR 20.405(a) (1), Sequoyah Fuels Corporation (SFC) submits herein a report on the January 22, 1990 UF₆ Reduction Plant Event. Information required by 10 CFR 20.405(a) (2) (iii) and (iv) relating to cause and corrective steps have been previously communicated to you in our letter of February 2, 1990. The attached report includes information on the estimate of the involved individual's exposure and the levels of radiation and concentrations of radioactive materials involved.

Should you have any questions on this matter, please contact Lee Lacey at 918/489-3207.

Sincerely,

A handwritten signature in cursive script that reads 'Scott P. Knight'.

Scott P. Knight
Vice President
Administration

SPK:LRL:nv

Attachment

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 6
FOIA-2006-0009

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SEQUOYAH FUELS CORPORATION

REPORT ON UF₆ REDUCTION PLANT EVENT OF 01/22/90

(10 CFR 20.405)

1. Estimate of each individual's exposure:

The names, social security numbers, and dates of birth of each individual are provided in Attachment 1. Direct radiation exposures during the event were not significant, due to the low radiation levels and short exposure times involved. Internal exposures were determined by local sample results supplied by TMA Thermal Analytical, Inc., using the guidance in NUREG/CR-4884, BNL-NUREG-52063, "Interpretation of Bioassay Measurements." The calculated dose to individual no. 1 is 68.2 MPC-hrs. The dose to individuals no. 2 through 7 is calculated to be less than 10 MPC-hrs. each.

2. Levels of radiation and concentrations of radioactive material involved:

Direct radiation levels from the event were not significant due to the low specific activity and predominantly alpha emitting character of the material involved. Airborne concentrations in the UF₆ Reduction Plant ranged from 4.36 MPC to 56.66 MPC during the shift when the event occurred. Approximately 232 grams of depleted uranium in the form of uranium tetrafluoride was released from the building as a result of the event.

3. The cause of the exposure, levels, or concentrations:

This information was communicated in our letter of February 2, 1990.

4. Corrective steps taken or planned to prevent a recurrence:

This information was communicated in our letter of February 2, 1990.

Withhold ALL- EX. 6

ATTACHMENT 1

INFORMATION ON EXPOSED INDIVIDUALS

<u>INDIVIDUAL</u>	<u>NAME</u>	<u>SOCIAL SECURITY NUMBER</u>	<u>DATE OF BIRTH</u>
1			
2			
3			
4			
5			
6			
7			

EX 6

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