

SDA Files  
40-8027

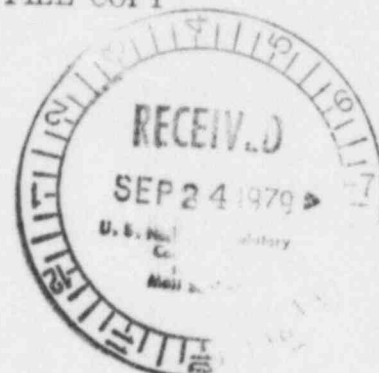


**KERR-McGEE NUCLEAR CORPORATION**

KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

August 29, 1979

REGULATORY OPERATIONS  
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CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Glen D. Brown, Chief  
Region IV  
U.S. Nuclear Regulatory Commission  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas 76012

Re: Docket 40-8027

Dear Mr. Brown:

In accordance with 10 CFR 40.65 with appropriate modifications made for the nature of the operation and data available, Kerr-McGee Nuclear Corporation reports the release of nuclides in effluents to unrestricted areas during the first six months of 1979.

This report covers activities performed at our Sequoyah Facility near Gore, Oklahoma, under License No. SUB-1010.

Very truly yours,

W. J. Shelley, Director  
Regulation and Control

WJS:jb

cc: Director, Inspection and Enforcement (6)  
Director, MIPC (2)

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**FEE EXEMPT**

*info*

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TABLE I

Radioactivity in Gaseous Effluent - 1st 1/2 1979

Particulates - Elevated & total releases (No batch mode releases)

| <u>Nuclide Released</u>                 | <u>Unit</u>     | <u>1st Quarter</u> | <u>2nd Quarter</u> |
|---|-----------------|--------------------|--------------------|
| Gross Alpha                             | Ci              | 2.11E-02           | 2.89E-02           |
| Uranium (Nat.)                          | Ci              | 2.08E-02           | 2.87E-02           |
| Thorium - 230                           | Ci              | 2.54E-04           | 1.81E-04           |
| Radium - 226                            | Ci              | 4.39E-05           | 3.74E-06           |
| Average release rate<br>for gross alpha | <i>μ</i> Ci/sec | 2.68E-03           | 3.68E-03           |
| Volume Released                         | liters          | 1.75E+12           | 2.06E+12           |

TABLE II

Radioactivity in Liquid Effluents - 1st 1/2 1979 (No batch mode releases)

| <u>Nuclide Released</u> | <u>Unit</u> | <u>1st Quarter</u> | <u>2nd Quarter</u> |
|-------------------------|-------------|--------------------|--------------------|
| Gross Alpha             | Ci          | 6.51E-01           | 9.40E-01           |
| Uranium (Nat.)          | Ci          | 4.78E-01           | 8.73E-01           |
| Thorium - 230           | Ci          | 4.27E-05           | 2.05E-04           |
| Radium - 226            | Ci          | 7.55E-06           | 8.50E-07           |
| Volume released         | liters      | 1.08E+09           | 1.11E+09           |

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