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Docket 40-8027
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FCPF:JER
40-8027
SEP 30 1977

ATTN: Mr. W. J. Shelley, Director
Regulation and Control
Kerr-McGee Center
Oklahoma City, Oklahoma 73125

Gentlemen:

This will confirm our telephone conversation of September 29, 1977 when you were requested to submit written notification to the Oklahoma State Department of Health, Air Quality Service informing them of your proposed expanded production of UF₆ and to request authorization for increasing the facility airborne effluents to the levels indicated in Tables 6.1 and 6.3 of the Draft Environmental Impact Appraisal dated September 16, 1977 and hand delivered to your staff at the Sequoyah Facility on September 26, 1977. We would appreciate receiving a copy of your letter to the State Agency.

It was also requested that your staff make a check to determine whether any changes were made in the Oklahoma Water Quality Standards in 1976 that would affect the numbers reported under the column headed "Limits" of Table 6.2 in the Draft EIA, and that you send us a copy of the 1976 Water Quality Standards.

Sincerely,

Original Signed by

J. E. Rothfleisch
Fuel Processing & Fabrication Branch
Division of Fuel Cycle and
Material Safety

8510010285 850829
PDR FOIA
BARNES85-529 PDR

OFFICE	FCPF <i>LCRouse</i>	FCPF <i>JERothfleisch</i>	<i>IV</i>			
SURNAME	JERothfleisch	LCRouse				
DATE	9/29/77	9/30/77				

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**KERR-McGEE NUCLEAR CORPORATION**

KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

October 12, 1977



Mr. John Drake
Air Quality Service
Oklahoma State Department of Health
NE 10th & Stonewall
Oklahoma City, Oklahoma 73105

Dear Mr. Drake:

This letter is a notification informing your office of the Kerr-McGee Nuclear Corporations proposed production expansion at our Sequoyah Facility near Gore, Oklahoma. As you are aware, this facility produces Uranium hexafluoride (UF₆) from uranium ore concentrates. This facility began operation in 1970 by authority of our license ~~issued~~ issued by the Nuclear Regulatory Commission (NRC) to process up to 5,000 short tons per year of uranium. The plant was sized to permit the processing of 10,000 short tons per year by the addition of a few pieces of processing equipment. This processing equipment is being installed now, and we expect it to be operational before 1978. Appropriate amendments are being made to our NRC license to permit the larger capacity operation.

The facility airborne effluent discharges at the 5,000 short ton annual production rate has been as shown on the attached table. The anticipated effluent discharges at the 10,000 short ton rate are also shown on this table. This data is provided to you in the interim while we assemble the many bits of information required by your installation permit application procedures. Your provisional acceptance of our expansion plans and data submitted in this letter will be appreciated.

The NRC personnel who review our licensing activities have asked that we furnish them a copy of this letter. Our NRC license, applications, environmental reports, etc., are available for your review, if you desire to do so.

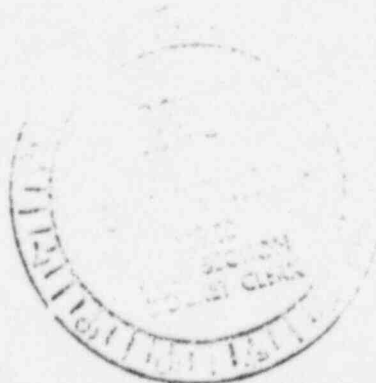
Very truly yours,

W. J. Shelley, Director
Regulation & Control

WJS:hw

Enclosure

cc: J. E. Rothfleisch



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Table I

Airborne Effluent Summary

A. Non-Uranium Effluents

Item	Pounds per Hour		Highest concentration, ugm/m ³ at ½ mile		Ambient Air Quality Std mg/m ³
	5,000 MTU/yr	10,000 MTU/yr	5,000 MTU/yr	10,000 MTU/yr	
NO _x	31.43	56.11	1.98	3.54 (WSW)	100 ⁽¹⁾
SO ₂	4.65	12.38	0.287	0.78 (WSW)	80 ⁽²⁾
fluoride	0.98	0.62	0.115	0.252 (SW)	0.5 ⁽³⁾
Hexane	29.29	42.30	N.A.*	N.A.*	125 lbs/h

*Not applicable (1) EPA (2) EPA (3) Washington State (4) Oklahoma Reg. 15 (15.33).

B. Uranium Effluents

Source of Release	Release Rate lbs. U/month			
	1976 Total	10,000 MTU/yr Total	10,000 MTU/yr Soluble	10,000 MTU/yr Insoluble
<u>Elevated</u>				
Main Stack	0.026	0.062		0.062
Scrubber	4.365	10.214	10.214	
			10.214	0.062
<u>Ground Level</u>				
Sample Plant ⁽¹⁾	0.245	0.573		0.573
Roof Vents ⁽¹⁾	3.858	5.073	0.507	4.566
Roof Hatches ⁽¹⁾	3.117	4.083	0.408	3.675
Dust Collector ⁽¹⁾	0.679	0.888	0.098	0.800
			1.003	9.614

*Assumed 30% UO₂, 30% UO₃, 30% UF₄, 10% UO₂F₂.