

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p>Licensee</p> <p>1. Kerr-McGee Corporation</p> <p>2. Kerr-McGee Center 123 Robert S. Kerr Avenue Oklahoma City, Oklahoma 73125</p>	<p>In accordance with letter dated July 22, 1986</p> <p>3. License number SUB-986 is amended in its entirety to read as follows:</p> <p>4. Expiration date December 31, 1990</p> <p>5. Docket or Reference No. 040-08006</p>
--	--

<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Uranium (natural)</p> <p>B. Thorium (natural)</p> <p>C. Uranium (depleted in U-235)</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Any</p> <p>C. Any</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 250 kilograms.</p> <p>B. 150 kilograms.</p> <p>C. 25 kilograms</p>
--	---	--

9. Authorized use:
- A. Research and development as defined in 30.4(q) of 10 CFR Part 30. Calibration of instruments.
 - B. Purification process development studies.
 - C. Research and development as defined in 30.4(q) of 10 CFR Part 30. Calibration of instruments.

~~8609300266~~ 860812
REG4 LIC40
SUB-0986

PDR

CONDITIONS

10. Licensed material shall be used only at Kerr-McGee Corporation, Technical Center, 3301 N.W. 150 Street, Oklahoma City, Oklahoma.

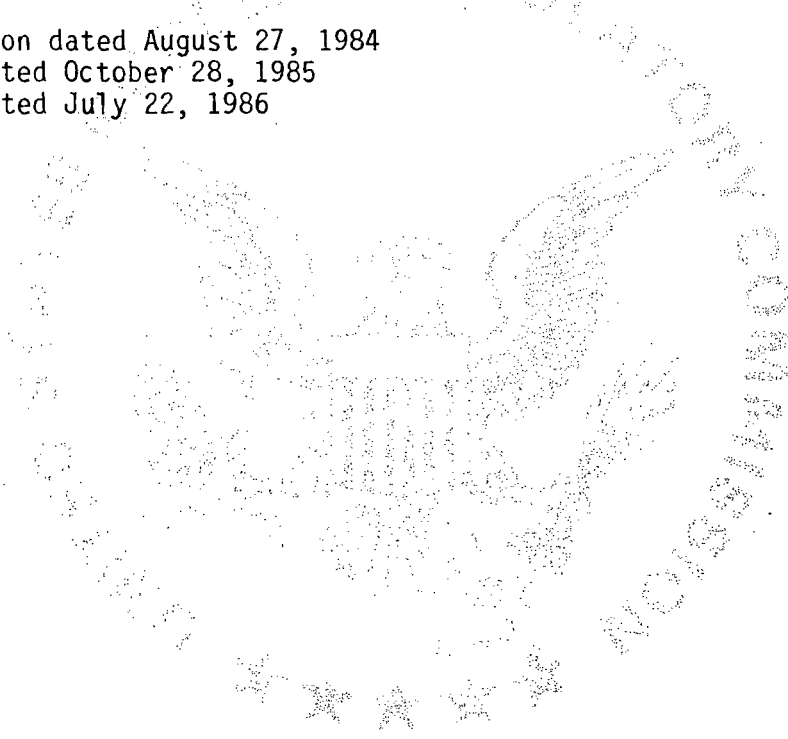
ATTN: J. C. Stauter
Vice President,
Environmental
Affairs

4/17

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number	SUB-986
Docket or Reference number	040-08006
Amendment No. 07	

11. Licensed material shall be used by, or under the supervision of, Garet E. Van De Steeg, Wilbert J. Robertson, Jr., Robert E. Leonard, Scott C. Munson, or John M. Carver.
12. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. Application dated August 27, 1984
 - B. Letter dated October 28, 1985
 - C. Letter dated July 22, 1986



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date AUG 12 1986

Original Signed By
Jack E. Whitten
 By _____
 Nuclear Materials Safety Section
 Region IV
 Arlington, Texas 76011

Official Record Copy

ML40

MATERIALS LICENSE

Amendment No. 07

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p>Licensee</p> <p>1. Kerr-McGee Corporation</p> <p>2. Kerr-McGee Center 123 Robert S. Kerr Avenue Oklahoma City, Oklahoma 73125</p>	<p>In accordance with letter dated July 22, 1986</p> <p>3. License number SUB-986 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date December 31, 1990</p> <hr/> <p>5. Docket or Reference No. 040-08006</p>
--	--

<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Uranium (natural)</p> <p>B. Thorium (natural)</p> <p>C. Uranium (depleted in U-235)</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Any</p> <p>C. Any</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 250 kilograms.</p> <p>B. 150 kilograms.</p> <p>C. 25 kilograms</p>
--	---	--

9. Authorized use:

- A. Research and development as defined in 30.4(q) of 10 CFR Part 30. Calibration of instruments.
- B. Purification process development studies.
- C. Research and development as defined in 30.4(q) of 10 CFR Part 30. Calibration of instruments.

8609300266 860812
REG4 LIC40
SUB-986 PDR

CONDITIONS

- 10. Licensed material shall be used only at Kerr-McGee Corporation, Technical Center, 3301 N.W. 150 Street, Oklahoma City, Oklahoma.

ATTN: J. C. Stauter
Vice President,
Environmental
Affairs

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number
SUB-986

Docket or Reference number
040-08006

Amendment No. 07

11. Licensed material shall be used by, or under the supervision of, Garet E. Van De Steeg, Wilbert J. Robertson, Jr., Robert E. Leonard, Scott C. Munson, or John M. Carver.
12. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. Application dated August 27, 1984
 - B. Letter dated October 28, 1985
 - C. Letter dated July 22, 1986

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

AUG 12 1986

By

**Original Signed By
Jack E. Whitten**

Nuclear Materials Safety Section
Region IV
Arlington, Texas 76011

Official Record Copy

m 4/0

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p>Licensee</p> <p>1. Kerr-McGee Corporation</p> <p>2. Kerr-McGee Center 123 Robert S. Kerr Avenue Oklahoma City, Oklahoma 73125</p>	<p>In accordance with application dated August 27, 1984</p> <p>3. License number SUB-986 is amended in its entirety to read as follows:</p>
	<p>4. Expiration date December 31, 1990</p> <p>5. Docket or Reference No. 040-08006</p>

<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Uranium (natural)</p> <p>B. Thorium (natural)</p> <p>C. Uranium (depleted in U-235)</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Any</p> <p>C. Any</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 250 kilograms</p> <p>B. 150 kilograms</p> <p>C. 25 kilograms</p>
--	---	--

9. Authorized use:
- A. Research and development as defined in 30.4(q) of 10 CFR Part 30. Calibration of instruments.
 - B. Purification process development studies.
 - C. Research and development as defined in 30.4(q) of 10 CFR Part 30. Calibration of instruments.

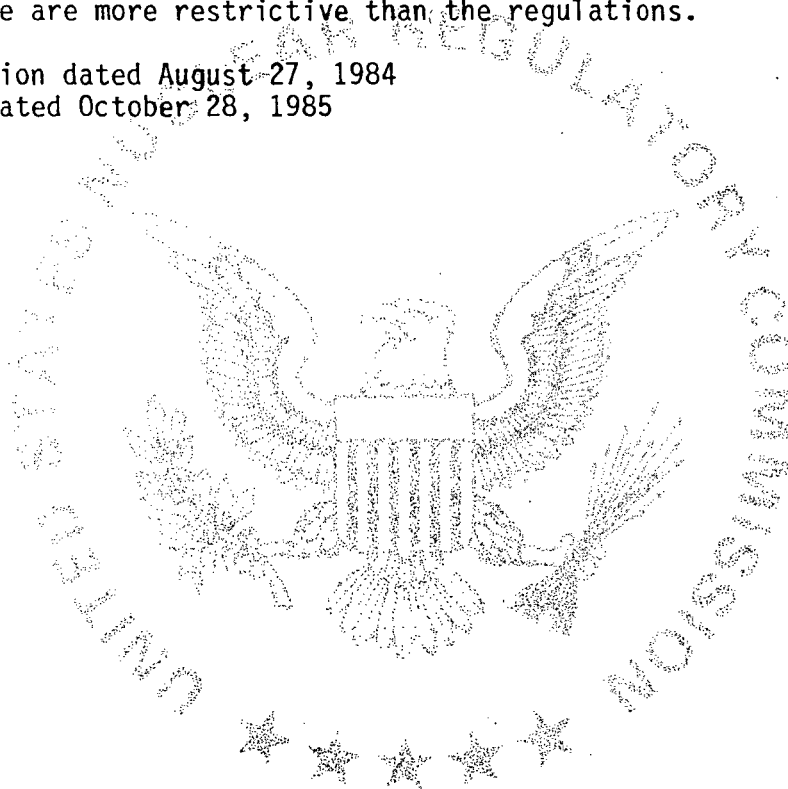
CONDITIONS

10. Licensed material shall be used only at Kerr-McGee Corporation, Technical Center, 3301 N.W. 150 Street, Oklahoma City, Oklahoma.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number	SUB-986
Docket or Reference number	040-08006
Amendment No. 06	

11. Licensed material shall be used by, or under the supervision of, Garet E. Van De Steeg, Wilbert J. Robertson, Jr., Robert E. Leonard, or Scott C. Munson.
12. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. Application dated August 27, 1984
 - B. Letter dated October 28, 1985



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Original Signed By
Jack E. Whitten

Date DEC 23 1985

By _____
Nuclear Materials Safety Section
Region IV
Arlington, Texas 76011

Official Record Copy

ML40

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

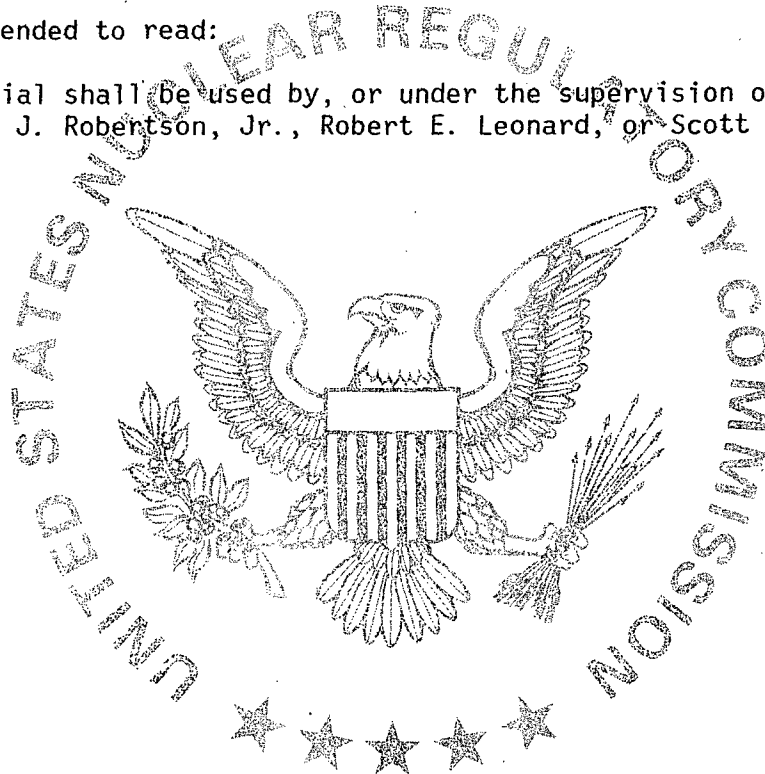
License number	SUB-986
Docket or Reference number	040-08006
Amendment No. 05	

Kerr-McGee Corporation
Kerr-McGee Center
Oklahoma City, Oklahoma 73125

In accordance with letter, dated August 6, 1985, License Number SUB-986 is amended as follows:

Condition 12. is amended to read:

- 12. Licensed material shall be used by, or under the supervision of, Garet E. Van De Steg, Wilbert J. Robertson, Jr., Robert E. Leonard, or Scott C. Munson.



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Original Signed By
C. L. Cain

Date SEP 26 1985

By _____
Nuclear Materials Safety Section
Region IV
Arlington, Texas 76011

Official Record Copy

8602060412 850926
REG4 LIC40
SUB-0986
PDR

ML40

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 31, 32, 33, 34, 35, 36, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s); and to import such byproduct and source material. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		In accordance with application dated May 17, 1979,	
1. Kerr-McGee Corporation		3. License number SUB-986 is amended in its entirety to read as follows:	
2. Kerr-McGee Center Oklahoma City, Oklahoma 73125		4. Expiration date September 30, 1984	
		5. Docket or Reference No. 040-08006	
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	
A. Uranium (natural)	A. Any	A. 250 kilograms	
B. Thorium (natural)	B. Any	B. 150 kilograms	
9. Authorized use			
A. Research and development. Calibration of instruments.			
B. Purification process development studies.			

CONDITIONS

- 10. Licensed material shall be used only at Kerr-McGee Corporation, Technical Center, 3301 N.W. 150 Street, Oklahoma City, Oklahoma.
- 11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
- 12. Licensed material shall be used by, or under the supervision of, Garet E. Van De Steeg, Wilbert J. Robertson, Jr., Robert E. Leonard, or Gerald J. Sinke.

E-3

For the U.S. Nuclear Regulatory Commission
NATHAN BASSIN

Material Licensing Branch

Date JUL 30 1979

by

NB 7/27/79

NB/am

Division of Fuel Cycle
and Material Safety
Washington, D. C. 20555

1

NB/IM

lat

UNITED STATES
ATOMIC ENERGY COMMISSION

SOURCE MATERIAL LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, and Title 10, Code of Federal Regulations, Chapter 1, Part 30, "Licensing of Source Material," and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, possess and import the source material designated below; to use such material for the purpose(s) and at the place(s) designated below; and to deliver or transfer such material to persons authorized to receive it in accordance with the regulations in said Part. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission, now or hereafter in effect, including Title 10, Code of Federal Regulations, Chapter 1, Part 20, "Standards for Protection Against Radiation," and to any conditions specified below.

Licensee		3. License No. SUB-986, Amendment No. 03
1. Name	Kerr-McGee Corporation	4. Expiration Date June 30, 1979
2. Address	McGee Tower Oklahoma City, Oklahoma 73125	5. Docket No. 40-8006
6. Source Material	7. Maximum quantity of source material which licensee may possess at any one time under this license	
A. Uranium (natural)	A. 500 pounds	
B. Thorium (natural)	B. 300 pounds	

CONDITIONS

8. Authorized use (Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.)
 - A. Research and development and for calibration and standardization of instruments.
 - B. Chemical extraction and purification studies.
9. Materials may only be used at Kerr-McGee Corporation, Technical Center, 3301 Northwest 150th Street, Oklahoma City, Oklahoma 73125.
10. Materials shall be used by, or under the supervision of, W. J. Robertson or H. C. Eberline.
11. Except as specifically provided otherwise by this license, the licensee shall possess and use material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated May 9, 1974, with addendums.

For the U. S. ATOMIC ENERGY COMMISSION

Date of issuance JUN 20 1974 *elb*
6/19/74

Original Signed By
CECIL R. BUCHANAN

U. S. GOVERNMENT PRINTING OFFICE : 1962
Materials Branch
Directorate of Licensing

Docket Room COPY