M/522 9/12/00

# CIMARRON CORPORATION LETTER OF TRANSMITTAL

ţ.

				DATE : 11/14/00
<b>TO:</b>	<i>Charles L. Cain, Chief</i> Licensing Branch Division of Nuclear Materials U.S. Nuclear Regulatory Com 611 Ryan Plaza Drive, Suite 4 Arlington, TX 76011	Safety mission - Region IV 00		NOV 2 0 2000
FROM:	LaVonna Smith, Quality Assu Cimarron Corporation P.O. BOX 315 Crescent, OK 73028	rance Coordinator		· · ·
	<ul> <li>First Class Mail</li> <li>OvernightFed Ex</li> <li>Second DayFed Ex</li> </ul>	<ul> <li>□ Internal</li> <li>□ UniShippers</li> <li>■ Other <u>Certified</u></li> </ul>	☐ Overnight ☐ Second D	UPS ay AirUPS
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☐ For / ☐ As re ☐ Disa	Approval	roved as submitted rrned for corrections review and comment	■ For your use □ Return □ controlled co	corrected prints py
REMAR NOTE: SIGNAT	RKS: The above report is for yo	our use. Please sign and r	eturn transmittal letter	•
Acknov	vledgment OF RECEIPT	PLEASE RETURN	ONE SIGNED COPY T	O SENDER
IHAVE	RECEIVED THE DOCUMENTS	IDENTIFIED ABOVE AND DESTRO	THE PRIOR REVISION	DATE : 11/14/00 NOV 2 0 2000 OvernightUPS Second Day AirUPS Second Day AirUPS Staff's Correspondence dated Staff's Correspondence dated For your use Return
	PRINTED NAME OF I SIGNATURE OF REC DATE RECEIVED:	RECIPIENT: <u>Colleen</u> :IPIENT: <u>Colleen W</u> 11/29/00	Murnahan Jurnahan	4 26 Jon 100

If enclosures are not noted, kindly notify Cimarron Corporation at once.



NOV 2 0 2000

November 10, 2000

Mr. Charles L. Cain, Chief Licensing Branch Division of Nuclear Materials Safety U.S. Nuclear Regulatory Commission – Region IV 611 Ryan Plaza Drive, Suite 400 Arlington, TX 76011

# Re: Kerr-McGee Technical Center Docket No. 040-08006; License No. SUB-986 Control No. 468057

Dear Mr. Cain:

The purpose of this letter is to respond to NRC staff's correspondence dated August 11, 2000, which requested that Kerr-McGee Corporation submit a revised Decommissioning Plan in order to incorporate additional guidance contained in NUREG-1575. NRC staff specifically identified elements that they believed would need to be included in a revised Decommissioning Plan.

Kerr-McGee Corporation has reviewed the above-referenced guidance as well as the characterization work performed to date and has determined that additional characterization and subsequent Modeling/DCGL development work will be required. Kerr-McGee Corporation has also identified additional impacted areas that will require further characterization. Kerr-McGee Corporation has initiated this work and currently anticipates being able to submit a revised Decommissioning Plan by the end of February 2001. Kerr-McGee Corporation is hopeful that winter weather constraints and coordination with ongoing Technical Center R&D activities will not result in any additional delays.

Please feel free to contact me if there are any additional questions or concerns.

Sincerely,

Jarsen tess

Jess Larsen Program Manager

# CIMARRON CORPORATION LETTER OF TRANSMITTAL

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		DATE : 07/11/2000
DATE: 07/11/200         TD:       Mr. Charles Cain         U.S. Nuclear Regulatory Comm.         Region IV         611 Ryan Plaza Drive, Suite 400         Arlington, TX 76011         FROM:       LaVonna Smith, Quality Assurance Coordinator         Cimarron Corporation       P.O. BOX 315         Crescent, OK 73028         Brist Class Mail       Internal         Overnight-Fed Ex       OniShippers         Second Day-Fed Ex       Other Registered & Certified         COPY       DATE         Overnight-Fed Ex       Other Registered & Certified         COPY       DATE         Overnight-Fed Ex       Other Registered & Certified         COPY       DATE         Overnight-Fed Ex       Other Registered & Certified         COPY       DATE         Registered & Certified       Second Day Air-UPS         Second Day-Fed Ex       OESCRIPTION         Motified       For your use         A JULY, 2000       TECHNICAL CENTER DECOMMISSIONING PLAN         A sequested       Returned for corrections         Brance       Return Corrected prints         Disapproved       For review and comment         Contrelide copy       REMARKS:	• • • •	
FROM:	LaVonna Smith, Quality Assurance Coordinator Cimarron Corporation P.O. BOX 315 Crescent, OK 73028	
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These are D For A D As re D Disap	e transmitted as checked below: pproval	ected prints
REMAR	KS: The above item(s) is for your use. Please sign and return transmit	al letter.
NOTE: SIGNA1	TURE: La Voruna Jone W	
ACKNO	WLEDGMENT OF RECEIPT PLEASE RETURN ONE SIGNED	COPY TO SENDER
I HAVE HAVE E	RECEIVED THE DOCUMENTS IDENTIFIED ABOVE AND THE PRIOR REVISI BEEN DESTROYED <u>N/A</u> VOIDED <u>N/A</u>	ONS OF THESE
	PRINTED NAME OF RECIPIENT: <u>Colleen Murnahan F</u>	r CharlesCain
	SIGNATURE OF RECIPIENT: Collen Murnahan DATE RECEIVED: 7/14/2000	in

Na 468057

**CIMARRON CORPORATION** 

P.O. BOX 25861 • OKLAHOMA CITY, OKLAHOMA 73125

S. JESS LARSEN VICE PRESIDENT

July 11, 2000

Mr. Ellis Merschoff, Director Division of Nuclear Materials Safety U.S. Nuclear Regulatory Commission – Region IV 611 Ryan Plaza Drive, Suite 400 Arlington, Texas 76011-8064

#### Re: Docket No. 040-08006; License SUB-986

Dear Mr. Merschoff:

As described in our 01/07/99 correspondence to Mr. Scarano and subsequent 01/22/99 meeting in Arlington, Kerr-McGee Corporation plans to decommission the "test pits" and terminate License SUB-986 for the Kerr-McGee Technical Center, located in north Oklahoma City. The Technical Center has utilized small quantities of source material under this license for research and development purposes over the last 30+ years.

Kerr-McGee Corporation has developed the enclosed "Decommissioning Plan for Kerr-McGee Chemical L.L.C. Technical Center" in accordance with the guidance contained in NUREG/BR-0241. The Kerr-McGee Technical Center falls under the Type III decommissioning review as provided in NUREG/BR-0241 and thus we understand that the decommissioning will be under the direction of NRC Region IV.

Kerr-McGee Corporation would like to arrange a meeting with NRC Region IV in Arlington within the next month to discuss the details of the Decommissioning Plan with NRC personnel.

Please feel free to contact me if there are any additional questions or concerns.

Sincerely,

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Jess Larsen Program Manager

Enclosure

A SUBSIDIARY OF KERR-MCGEE CORPORATION

468057

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# KERR-McGEE CHEMICAL, LLC Technical Center Decommissioning Plan NRC License: SUB-986 Docket 040-08006

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Kerr-McGee Chemical, LLC Technical Center Decommissioning Plan

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	Technical Center Decommissioning Plan	July 2000	

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# **Drawings**

TECHCNTR\_001\_REV\_0Kerr-McGee Technical Center Site PlanTECHCNTR\_002\_REV\_0Kerr-McGee Technical Center Facility and Test Pit<br/>AreaTECHCNTR\_003\_REV\_0Kerr-McGee Technical Center Uranium Test Pit<br/>Area Potentiometric Surface 2/22/2000

Kerr-McGee Chemical, LLC Technical Center Decommissioning Plan

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#### REFERENCES

- 1. NRC Source Material License SUB-986.
- 2. Byproduct Materials License 35-12636.06.
- 3. Letter Dated March 2, 1998, NRC Region IV terminating the Byproduct Material License.
- 4. NMSS Handbook for Decommissioning Fuel Cycle and Materials Licensees. NUREG/BR0241, March 1997.
- 5. Title 10 Code of Federal Regulations Section 51.22 (c) (14) (v) Use of radioactive materials for research and development and for educational purposes.
- 6. Title 10 Code of Federal Regulations Section 20.302 Method for obtaining approval of proposed disposal procedures.
- 7. Title 10 Code of Federal Regulations Section 20.304.
- 8. Title 10 Code of Federal Regulations Section 40.36 Federal Assurance and Recordkeeping for Decommissioning.
- 9. MARRSSIM, Section 5.5.2.2.
- 10. Working Draft Regulatory Guide on Release Criteria for Decommissioning: NRC Staff's Draft for Comment. NUREG 1500, August 1994.
- 11. NRC "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or termination of Licenses for Byproduct, Source, or Special Nuclear Material."
- 12. Colorado Department of Health, Interoffice Communication, Fugitive Dust Emissions, September 30, 1981.
- 13. Radiological Health Handbook, U.S. Department of Health, Education, and Welfare, Public Health Service, Revised 1970.
- Environmental Protection Agency, "Limiting Values of Radionuclide Intake and Air Concentration and Dose Conversion Factors for Inhalation, Submersion, and Ingestion," EPA-520/1-88-020, Federal Guidance Report No. 11, September 1988.
- 15. U.S. NRC, NUREG/CR-5512, PNL-7994, "Residual Radioactive Contamination from Decommissioning", Volume 1, Reprinted June 1994.
- 16. Turner, D. B., "Workbook of Atmospheric Dispersion Estimates," U.S. Department of Health, Education, and Welfare, Cincinnati, OH, 1969.
- 17. ANSI N323-1978, "Radiation Protection Instrumentation Test and Calibration."
- 18. Cimarron Quality Assurance Program Plan (QAP).
- 19. NRC Inspection Report #70-925/97-02.
- 20. NRC Inspection Report #70-925/98-02, November 3, 1998.
- 21. NRC Inspection Report #70-925/99-01.
  - Kerr-McGee Chemical, LLC iv Technical Center Decommissioning Plan

#### KERR-McGEE TECHNICAL CENTER Decommissioning Plan License No. SUB-986; Docket 040-08006

#### **1** Introductory Information

#### 1.1 Purpose

The purpose of this Decommissioning Plan is to establish the management and technical protocols that Kerr-McGee Chemical, LLC (KMCLLC) will follow in addressing the presence of residual radioactivity at the Technical Center and allow it to terminate NRC Source Material License SUB-986<sup>1</sup> and release the entire facility for unrestricted use.

The Technical Center used nuclear materials under NRC source and byproduct materials licenses SUB-986<sup>1</sup> and 35-12636-06<sup>2</sup>, respectively. Byproduct material use consisted of sealed standards, check sources and integral components in analytical equipment. These byproduct sources have been removed from the facility, returned to the manufacturer, and the Byproduct Material License terminated by NRC Region IV by letter dated March 2, 1998<sup>3</sup>.

The Technical Center no longer uses licensed source materials and is therefore being decommissioned to allow for license termination and unrestricted release. Technical Center decommissioning activities will include survey, removal of any residual contamination, and the release of laboratories and support facilities such as sample storage and preparation facilities and five test pits (used for prospecting instrument calibration) where source materials were used. When completed, the facility will meet all applicable unrestricted release criteria.

Kerr-McGee Chemical, LLC (KMCLLC) has been notified by the Oklahoma Department of Transportation (ODOT) that it will be expanding State Highway 74 and thus will be expanding the existing right-of way that may include the area where the uranium calibration test pits are located. This expansion will involve constructing a multiple-lane median separated highway with frontage roads. This factor gives additional impetus to expedite the removal and release of the area.

Decommissioning will be performed under written policies and procedures, incorporating appropriate methods outlined in NUREG/BR-0241<sup>4</sup> as required. In accordance with NUREG/BR-0241 criteria, Technical Center decommissioning activities fall within the Type III facility requirements since the authorized activities are covered under the categorical exclusion criteria in 10 CFR 51.22 (c) (14) (v) –" Use of radioactive materials for research and development and for educational purposes"<sup>5</sup>. Work with source materials at the Technical Center was confined to small-scale, bench sized experiments using uranium or thorium materials obtained from ores or process streams at its formerly licensed fuel cycle facilities and for the development, testing and calibration of instrumentation used for mineral prospecting.

The batch type laboratory experiments were performed to develop and prove new or proposed changes to processes for the extraction and purification of uranium and

Kerr-McGee Chemical, LLC Technical Center Decommissioning Plan

thorium. Successful laboratory testing led to operating facility process modifications or larger scale testing at other Kerr-McGee fuel cycle facilities. At no time did the Technical Center engage in the scale of production activities associated with a fuel cycle facility.

The uranium calibration test pits, containing varying known concentrations of source material, were used to develop and prove methods to identify uranium ores and their approximate concentrations in various ore bodies.

#### 1.2 Licensee Identification

License SUB-986<sup>1</sup> is currently managed by Kerr-McGee Chemical, LLC, (KMCLLC) which operates the Technical Center to conduct Research and Development activities in support of its chemical facilities. Decommissioning activities will be coordinated and managed by the Kerr-McGee Corporation Safety and Environmental Affairs Division, which has both the experience and managerial oversight responsibility for decommissioning activities at Kerr-McGee's NRC licensed Cimarron facility. To the extent practicable, both personnel and procedures from the Cimarron facility will be employed to assure that the Technical Center decommissioning is performed in accordance with all applicable regulatory requirements.

#### **1.3 Licensee Activities**

#### 1.3.1 Corporate R&D Center

The Kerr-McGee Technical Center was established in 1963 to provide a dedicated research and development facility for conducting chemical and radiological analyses, doing small quantity bench and batch scale research and development studies on manufacturing processes and investigating new chemicals of interest to the Corporation's various operating divisions. The Technical Center also provided a core of highly experienced scientists and engineers to address technical and engineering problems and explore new technologies for application in support of the Corporation's initiatives. In this capacity, the Technical Center conducted R&D work for the Chemical, Nuclear, Refining, Oil & Gas Exploration and Production, Off-shore Contract Drilling, Wood Products and Potash Mining divisions. The work with radioactive materials required that the Technical Center have both a Byproduct and Source Material license.

#### 1.3.2 Kerr-McGee Chemical, LLC R&D Center

The Kerr-McGee Corporation Technical Center was turned over to Kerr-McGee Chemical, LLC (KMCLLC) management oversight in 1995. Many of Kerr-McGee's operating divisions had either been divested or were in the process of being divested at that time. KMCLLC was the only remaining Kerr-McGee operating division with R&D activities requiring Company controlled analytical and laboratory functions.

In January, 1999, KMCLLC, through its West Chicago Project Office, informed Kerr-McGee Corporate management that it would no longer require the Technical Center to maintain the source materials use authorizations provided by SUB-986<sup>1</sup> to support any work. This decision prompted KMCLLC to request that Kerr-McGee Corporation, through its Safety and Environmental Affairs Division, provide management and support in decommissioning the Technical Center for license termination and unrestricted release.

Safety and Environmental Affairs Division personnel, in cooperation with KMCLLC management, Cimarron Facility Management and RSO and the Technical Center management and RSO, were assigned primary responsibility for working with NRC to achieve license termination.

Kerr-McGee Chemical, LLC Technical Center Decommissioning Plan 1-3

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This is to acknowledge the receipt of your letter/application dated 11100 Ž <u>*T*////00</u>, and to inform you that the initial processing, which includes an administrative review, has been performed.

There were no administrative omissions. Your application will be assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card:

The action you requested is normally processed in  $\mathcal{GO}$  days.

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number  $46 \times 05'$ When calling to inquire about this action, please refer to this mail control number. You may call me at 817-860-8103.

Sincerely, en Murnahan P U

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DATE

2000

NRC FORM 532 (RIV) (11-1999)

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Licensing Assistant



# UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

May 23, 1996

KERR-MCGEE CORP. ATTN: Mr. JOHN M. CARVER Radiation Safety Officer KERR MCGEE CENTER 123 ROBERT S. KERR AVENUE OKLAHOMA CITY. OK 73125

SUBJECT: ONE-TIME EXTENSION OF LICENSE EXPIRATION DATE LICENSE NUMBER SUB-986, DOCKET NUMBER 4008006

Dear Mr. JOHN M. CARVER

On January 16, 1996, the Nuclear Regulatory Commission (NRC) amended its regulations in 10 CFR 30, 40, and 70 to extend the expiration date of certain byproduct, source, and special nuclear material licenses by five years (61 FR 1109). The above referenced license was extended by this rulemaking and will now expire on January 31, 2003. Your license will not be amended to show this extended date until the next routine licensing action. Until then, you may provide copies of this letter to vendors and other interested parties as evidence that the license has been extended as a result of the rule.

The extended license authorizes the same activities and contains the same limitations as it previously did. There will be no change in the frequency that the NRC inspects activities authorized by this license.

The amended rules state that in the case of licensees who are granted extensions and who have a currently pending renewal application for that extended license, the application will be considered withdrawn by the licensee and any renewal fees paid by the licensee for that application will be refunded. This will apply to licenses with expiration dates after July 1, 1995, for which renewal applications and the appropriate fees have been submitted and the renewal is still pending. Refunds will be mailed to licensees under separate cover.

All licensees, including those whose renewal applications were withdrawn by this rulemaking, who wish to change their radiation safety programs must request amendment of their licenses to reflect these changes. Amendment requests must include the correct amendment fee since the NRC cannot apply pending renewal refund balances toward amendment fees.

If you have any questions regarding this letter, please contact the individual below.

Arlington, TX: Billie Gruszynski, (817) 860-8120 Walnut Creek, CA: Beth Prange, (510) 975-0250

Thank you for your cooperation in this matter.

Sincere1

Donald A. Cool, Director Division of Industrial and Medical Nuclear Safety Office of Nuclear Materials Safety and Safeguards

IRC F 10-89	ORM 374 ), U.S. NUCLEAR REGUL	LATORY COMMISSION	p page <u>1</u> of <u>3</u> pag Amendment No. 08
	MATERIAL	S LICENSE	
Pursu Code nade nuclea o per pecif Regul	uant to the Atomic Energy Act of 1954, as amended, the Ene of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 39 by the licensee, a license is hereby issued authorizing the licensee ar material designated below; to use such material for the purpose(s) rsons authorized to receive it in accordance with the regulations of the fied in Section 183 of the Atomic Energy Act of 1954, as amended, a latory Commission now or hereafter in effect and to any condition	rgy Reorganization A 9, 40 and 70, and in reli to receive, acquire, pos ) and at the place(s) des e applicable Part(s). Thi and is subject to all appl s specified below.	act of 1974 (Public Law 93-438), and Title 16 ance on statements and representations heretofor ssess, and transfer byproduct, source, and specia ignated below; to deliver or transfer such materia is license shall be deemed to contain the condition icable rules, regulations and orders of the Nuclea
•	Licensee Kerr-McGee Corporation	In accorda November 2 3. License number its entire	nce with application dated 7, 1990 SUB-986 is amended in ty to read as follows:
-	123 Robert S. Kerr Avenue Oklahoma City, Oklahoma 73125	4. Expiration date	February 28, 1998
		5. Docket or Reference No.	040-08006
. By spe	yproduct, source, and/or 7. Chemical and ecial nuclear material form	/or physical	8. Maximum amount that licensee may possess at any one time under this license
A	A. Uranium (Natural)		A. 250 kilograms
E	B. Thorium (Natural) B. Any		B. 150 kilograms
(	C. Uranium, Depleted C. Any		C. 35 kilograms
9.	Authorized use:		
	A. Research and development as define instruments.	ed in 10 CFR 30	0.4. Calibration of licensees
	B. Purification and concentration pro	ocess developme	ent studies.
	C. Research and development as define instruments.	ed in 10 CFR 30	0.4. Calibration of licensees
		ITTONS	
10.	. Licensed material shall be used only at Center, 3301 N.W. 150th Street, Oklaho	t the Kerr-McGe oma City, Oklah	ee Corporation, Technical noma.
11.	. A. Licensed material shall be used by Garet E. Van De Steeg and Elizabeth	, or under the h J. Johnson.	supervision of,
	B. The Radiation Protection Officer fo	or this license	e is Elizabeth J. Johnson.
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12.	The	licensee shall maintain records of inform	ation related to decommissioning	ı at
	Ker	r-McGee Technical Center, 3301 N.W. 150th	Street, Oklahoma City, Oklahoma.	as
	spe	cified in 10 CFR 40.36(f) until this licer	se is terminated by the Commissi	on.
	·			
13.	Exce	ept as specifically provided otherwise in	this license, the licensee shall	l
	cond	luct its program in accordance with the st	atements, representations, and	
	pro	cedures contained in the documents, includ	ling any enclosures, listed below	v. The
	Nuc	lear Regulatory Commission's regulations	nall govern unless the statement	:s,
	repi	resentations, and procedures in the licens	ee(s application and corresponde	ence ar
	more	e restrictive than the regulations.		
	٨	Application dated November 27 1000	i and a second s	
	н.	(Excluding decommissioning funding plan)		
	R	Letter dated October 28 1985		-
	ь. С	Letter dated July 22 1986	and the second secon	· · ·
	n.	Letter dated January 27 31993		
	υ.	Letter dated balldary 27, 1955		
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		2841 324		
		FOR I	HE U.S. NUCLEAR REGULATORY COMMI	[SSION
		× • • • • •		
			Original Signed By	
		1.0.1002	Jack E. Whitten	
Date	LER	By		
		<u> </u>	clear Materials Licensing Section	วท
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