



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

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RECEIVED BY LFMB	
Date	9-17-79
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MEMORANDUM FOR: William O. Miller, Chief  
License Fee Management Branch  
Office of Administration

FROM: An-Liang Soong

SUBJECT: COSTS AND MANHOURS FOR LICENSING ACTION

The contract costs incurred and manhours used in reviewing the application dated 6/27/79 for amendment of License No. SUB-1010 Docket No. 40-8027 are tabulated below.

1. Name & Address: Kerr-McGee Nuclear Corporation  
Oklahoma City, Oklahoma 73125
2. a) Project Control No. 79110 A b) N/A
3. Completion Date: 9/13/79
4. Final Fee Type Identified by NMSS: Minor Amendment
5. Contract Costs Associated with this License Application:
  - a) For environmental review \$ N/A
  - b) For safety review \$ N/A
  - c) Total contract costs \$ N/A
6. TAC Work by NRR: N/A hours
7. Safeguards Time: N/A hours
8. Fuel Cycle Safety and Licensing Manhours:
  - a) Environmental review 3 hours
  - b) Safety review 15 hours
  - c) Total 18 hours

An-Liang Soong  
Project Manager

Approved: W. S. [Signature] Chief  
Uranium Fuel Licensing Branch

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C PDR

SEP 17 1979

Distribution:

NMSS r/f

FCUF r/f

→ Docket File 40-8027

WTCrow

ALSoong

LTyson

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Original Signed By:

A. L. Soong

Original Signed By:

W. T. Crow

Project Manager

Approved:	Chief	FCUF <u>Soong</u>	FCUF <u>WTC</u>
OFFICE	Bureau Fuel Licensing Branch	ALSoong:vh	WTCrow
SIGNATURE		9/14/79	9/14/79
DATE			

SEP 14 1979

FCUF:ALS  
40-8027  
SUB-1010, Amendment No. 7

Kerr-McGee Nuclear Corporation  
ATTN: Mr. W. J. Shelley, Director  
Regulation and Control  
Kerr-McGee Center  
Oklahoma City, Oklahoma 73102

Gentlemen:

In accordance with your application dated June 27, 1979, and pursuant to Title 10, Code of Federal Regulations, Part 40, Source Material License No. SUB-1010 is hereby amended to authorize the construction and use of a new liquid waste pond No. 4.

All other conditions of this license shall remain the same.

Please note that condition No. 13 of your license specifies that any new pond construction must comply with Regulatory Guide 3.13, "Guide for Acceptable Waste Storage Methods at UF<sub>6</sub> Production Plants."

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed By:  
W. T. Crow

W. T. Crow, Section Leader  
Uranium Process Licensing Section  
Uranium Fuel Licensing Branch  
Division of Fuel Cycle and Material  
Safety

Distribution:

FCUF r/f

NMSS r/f

→ Docket File 40-8027

PDR

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IE HQ (2)

JCatania

BBrooks

ACabell

JPartlow

JRobertson

DWeiss

WTCrow

ALSoong

WANixon

~~JRothfleisch~~

Region IV, I&E

LTyson

7910 207921p

WTCrow 9/14/79

OFFICE	FCUF <i>Soong</i>	FCUF <i>WTCrow</i>	FCUF <i>WTCrow</i>		
SURNAME	ALSoong:vah	WANixon	WTCrow		
DATE	9/13/79	9/13/79	9/14/79		

SEP 14 1979

Distribution:

FCUF r/f

NMSS r/f

→ Docket File 40-8027

PDR

IE HQ (2)

WTCrow

WANixon

ALSoong

LTyson

DOCKET NO.: 40-8027

APPLICANT: Kerr-McGee Nuclear Corporation

FACILITY: Sequoyah Uranium Hexafluoride Production Plant

SUBJECT: SAFETY EVALUATION REPORT - LICENSE AMENDMENT APPLICATION FOR  
AUTHORIZATION TO CONSTRUCT AND USE OF A NEW LIQUID WASTE  
STORAGE POND NO. 4, LICENSE NO. SUB-1010, AMENDMENT NO. 7

Reviewer: A. L. Soong

Background

July 7, 1978, the NRC gave Kerr-McGee authorization to construct a new retention pond No. 3 for storage of treated raffinate solution (amendment No. 2 to license SUB-1010). The constructed pond No. 3 has been in service since January 19, 1979, and its performance is considered to be very satisfactory.

By letter dated June 27, 1979, Kerr-McGee requested authorization to construct an additional new pond No. 4 for storage of treated raffinate solution.

Discussion

The proposed new pond No. 4 will be constructed immediately east of existing pond No. 3 and identical to each basin of the pond No. 3. The description and safety evaluation of the pond construction was analyzed in detail in "Safety Evaluation Report - License Amendment Application for Authorization to Construct and Use of a New Liquid Waste Storage Pond No. 3, License No. SUB-1010, Amendment No. 2" dated July 7, 1978.

The highlights of the construction of pond No. 4 are as follows:

1. The interior of the pond will be lined with Hypalon liners to prevent seepage.

74-0020793 4pp

OFFICE:	FCUF <i>Soong</i>	FCUF <i>WTCrow</i>	FCUF <i>WTCrow</i>		
SURNAME:	ALSoong:vah	WANixon	WTCrow		
DATE:	9/11/79	9/13/79	9/14/79		

2. The pond will be constructed in accordance with the Regulatory Guide 3.13.
3. Two independent monitoring systems will be installed for detecting leakage; they are
  - a. perforated pipelines system at the bottom of the liners, and
  - b. monitoring wells system around the pond.
4. Action levels and corrective action to be taken in case of leakage from the pond have been detected.

The amendment application was discussed with Robert Everett of Region IV, I and E principal inspector for the Kerr-McGee's Sequoyah facility, on September 11, 1979, and he saw no reason from a regulatory point of view, why the amendment to authorize construction of the pond should not be granted.

#### Conclusion

On the basis of the finding in the current assessment, it is recommended that this amendment No. 7 to license No. SUB-1010 be approved.

#### Original Signed By:

A. L. Soong  
 A. L. Soong  
 Uranium Process Licensing Section  
 Uranium Fuel Licensing Branch  
 Division of Fuel Cycle and  
 Material Safety

#### Original Signed By:

W. T. Crow

Approved By:

W. T. Crow, Section Leader

OFFICE

SIGNATURE

DATE

## MATERIALS DATA INPUT S/SNM

1 - FILE COPY

## A. TYPE OF ACTION AND IDENTIFICATION CODES

1 <input type="checkbox"/> NEW LICENSE	<input type="checkbox"/> AMENDMENT TO RENEW LICENSE	<input type="checkbox"/> AMENDMENT TO TERMINATE	<input type="checkbox"/> VOID	DOCKET NUMBER 040-08027	MAIL CONTROL NUMBER 13356	CHANGE NAME/ ADDRESS <input type="checkbox"/>
<input type="checkbox"/> NEW LICENSE AND NEW LICENSEE 0000xxx	<input type="checkbox"/> OTHER AMENDMENT	<input type="checkbox"/> CLERICAL CHANGE NO AMENDMENT 4				

## B. INDICATIVE INFORMATION:

INDIVIDUAL L-00270000 U-00000000 S-00000000	NAME (LAST, FIRST, MIDDLE)	NAME (LAST, FIRST, MIDDLE)
	NAME (LAST, FIRST, MIDDLE)	NAME (LAST, FIRST, MIDDLE)
	NAME (LAST, FIRST, MIDDLE)	NAME (LAST, FIRST, MIDDLE)
3 ORGANIZATION NAME (ALPHABETIC SEQUENCE) Kerr McGee Nuclear Corporation	DEPARTMENT OR BUREAU	
5 ADDRESS	BUILDING, STREET Kerr McGee Center	CITY Oklahoma City
	STATE OK	ZIP CODE 73125
6	TYPE OF APPL 553 <input type="checkbox"/> U. S. GOVERNMENT AGENCY <input type="checkbox"/> INDIVIDUAL LICENSEE <input type="checkbox"/> ORGANIZATIONAL LICENSEE	DATE REQUEST RECEIVED 07/16/79
	INSTITUTION CODE 12636	PENDING PROG. CODE
	ACTUAL PROG. CODE	
	SECONDARY PROGRAM CODES AS REQUIRED: #1 #2 #3 #4 #5	
7	LICENSE NUMBER SUB-1010	DATE LICENSE ISSUED OR ACTION COMPLETED 9-14-79
	EXPIRATION DATE	

## C. STATISTICAL INFORMATION:

MEDICAL CATEGORY:		
<input type="checkbox"/> FOR HUMAN USE ONLY	<input type="checkbox"/> FOR HUMAN AND NONHUMAN USE	<input type="checkbox"/> FOR NONHUMAN USE ONLY

POSSESSION OF THE MATERIAL IS AUTHORIZED IN ONE OF THE FOLLOWING AREAS:

<input type="checkbox"/> SAME AS "STATE" IN ADDRESS	<input type="checkbox"/> ALL STATES	<input type="checkbox"/> ALL NON-AGREEMENT STATES
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AND/OR IN THE STATE(S), TERRITORY(S), COUNTRY CHECKED BELOW:

ALABAMA	AL	GEORGIA	GA	MARYLAND	MD	NEW JERSEY	NJ	SOUTH CAROLINA	SC	WYOMING	WY
ALASKA	AK	HAWAII	HI	MASSACHUSETTS	MA	NEW MEXICO	NM	SOUTH DAKOTA	SD		
ARIZONA	AZ	IDAHO	ID	MICHIGAN	MI	NEW YORK	NY	TENNESSEE	TN	AMERICAN SAMOA	AS
ARKANSAS	AR	ILLINOIS	IL	MINNESOTA	MN	NORTH CAROLINA	NC	TEXAS	TX	CANAL ZONE	CZ
CALIFORNIA	CA	INDIANA	IN	MISSISSIPPI	MS	NORTH DAKOTA	ND	UTAH	UT	GUAM	GU
COLORADO	CO	IOWA	IA	MISSOURI	MO	OHIO	OH	VERMONT	VT	PUERTO RICO	PR
CONNECTICUT	CT	KANSAS	KS	MONTANA	MT	OKLAHOMA	OK	VIRGINIA	VA	VIRGIN ISLANDS	VI
DELAWARE	DE	KENTUCKY	KY	NEBRASKA	NE	OREGON	OR	WASHINGTON	WA		
WASHINGTON DC	DC	LOUISIANA	LA	NEVADA	NV	PENNSYLVANIA	PA	WEST VIRGINIA	WV	CANADA	CN
FLORIDA	FL	MAINE	ME	NEW HAMPSHIRE	NH	RHODE ISLAND	RI	WISCONSIN	WI		

## D. POSSESSION LIMITS OF SOURCE AND SPECIAL NUCLEAR MATERIALS AND TRITIUM

SOURCE MATERIAL CEILING				SNM CEILING				"X" HERE IF FOR POWER REACTOR			
<input type="checkbox"/> GRAMS <input type="checkbox"/> KILOGRAMS				<input type="checkbox"/> GRAMS <input type="checkbox"/> KILOGRAMS							
MAT	AMOUNT	UNIT	ENRICH	MAT	AMOUNT	UNIT	ENRICH	MAT	AMOUNT	UNIT	ENRICH
U5	No material change	<input type="checkbox"/> G <input type="checkbox"/> KG	<input type="checkbox"/> S <input type="checkbox"/> UNS			<input type="checkbox"/> G <input type="checkbox"/> KG	<input type="checkbox"/> S <input type="checkbox"/> UNS			<input type="checkbox"/> G <input type="checkbox"/> KG	<input type="checkbox"/> S <input type="checkbox"/> UNS
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H3		<input type="checkbox"/> CURIES <input type="checkbox"/> MILLICURIES	<input type="checkbox"/> MICROCURIES	RIS CODES							

U5-U235, U3-U233, PU-PLUTONIUM, UR-URANIUM, TH-THORIUM, H3-TRITIUM, G=GRAMS,  
KG=KILOGRAMS, S=SEALED, UNS=UNSEALED

## MATERIALS DATA INPUT S/SNM

3 - D.P. PENDING

CARD 1

<input type="checkbox"/> COL 1-1	<input type="checkbox"/> COL 1-3	<input type="checkbox"/> COL 1-5	<input type="checkbox"/> COL 2-9	10	COL 11-15	
<input type="checkbox"/> COL 1-2	<input checked="" type="checkbox"/> COL 1-4	<input type="checkbox"/> COL 1-6	44C-38827	1	15353	

DUPLICATE COLUMNS 1-9 PUNCH COL 10 DUPLICATE COLUMNS 11-15

CARD	COL	16-44	45-73
2	2		
3	3	16-44	45-73
4	4	16-44	45-73
5	5	16-80	
6	6	Kerr McGee Nuclear Corporation	
7	7	16-45	46-64
8	8	Kerr McGee Center	Galathea City
9	9	COL 16 <input type="checkbox"/> 1	65-66
10	10	PUNCH FIELD <input type="checkbox"/> 2	67-71
11	11	NO CHECKED <input type="checkbox"/> 3	73125
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