

UNITED STATES NUCLEAR REGULATORY COMMISSION **REGION III** 799 ROOSEVELT ROAD GLEN ELLYN, ILLINOIS 60137

June 29, 1977

MEMORANDUM FOR: Region III Files

THRU:

G. T. Lonergan, Chief, Materials Radiological Protection Section

FROM:

C. T. Oberg, Radiation Specialist

KERR-MC GEE CHEMICAL CORPORATION, WEST CHICAGO, ILLINOIS SUBJECT: LICENSE NO. STA-583 BRIEF TOURS OF FACILITY BY REGION III INSPECTOR

On June 27, 1977, an NRC Region III inspector made two brief tours of the subject licensee's West Chicago, Illinois Rare Earth Plant in a continuing effort to maintain cognizance of the status of the facility.

The Action Items (AI) No. 1 through 4, as agreed to by the licensee in their letter dated November 30, 1976, appear to remain satisfied. With respect to AI No. 5, Atcor, Inc. of Park Mall, Peekskill, New York, has been contracted by Kerr-McGee to remove high concentration, source material residues and equipment from the Kerr-McGee waste disposal/storage area at the West Chicago plant (see Exhibit 1 attached). Work on this was to have started on this date; the inspector had planned to be on site to meet with Atcor, Inc. personnel and review their plans. These contractor personnel did not arrive in the morning when the inspector was first on the site. They arrived just after noon so the inspector made a second trip to the site to meet with Atcor personnel.

During the first tour in the morning, the inspector was informed that Kuhn and Auer Co. have terminated their sales agreement with Kerr-McGee effective July 1, 1977 for purchase of the West Chicago plant. In addition, starting July 1, 1977, Kerr-McGee will be employing the Gloss Agency to provide security patrol coverage of the plant and waste area. The patrol will continue on a once per shift basis.

Kerr-McGee site personnel have completed repairs on the fence around the south end of the plant area. The site personnel are still having difficulties with trespass problems apparent in both the plant and the waste areas. Kuhn and Auer Co. are still removing switch gear from the plant plus a couple of clean tanks to be sold to an outside purchaser. They should be completed within a week or so.



850408 07100102 PDR RAPKIN85-30

101

June 29, 1977

Region III Files

Kerr-McGee personnel informed the inspector that they have not used a commercial waste (clean) disposal company and dumpster since the plant operations were terminated. As they recalled, it was West (----) Disposal Co. which they did not believe belonged to either Kuhn or Auer. These dumpsters were only used for clean plant trash and not used in connection with any product or waste material.

2 -

During the second trip to the Kerr-McGee site, the inspector met with the Atcor, Inc. representatives (Mr. Williams and Mr. Levesque) and obtained from them a copy of their "Radiation Work Permit" and Procedure (see Exhibit 2, attached). They plan to establish a control point at the north storage shed and work from there packaging source material/residue in 55 gallon gasketed and sealed drums. They also plan to use sealed (flanged) tanks and sealed (lids) tote bins for containment of the material. The tanks and tote bins will be surveyed, deconed if contaminated and subsequently painted if necessary to seal in any non removable activity if level is low. The contained material will be loaded onto contracted and licensed haulers (NECO and/or Tri-State), and taken to Sheffield, Illinois (NECO) for burial. The trucks will be surveyed prior to release for transporting the material. All sealed containers will be identified by number and recorded on their "Radioactive Shipment Record" form (see Exhibit 3, attached). Weight will be determined on a total load basis by weighing the truck empty and then when loaded, Kerr-McGee site scales will be used. Surveys will be recorded on "Atcor Radiological Survey Data Form", a copy of which is attached as Exhibit 4.

Personnel will be badged for personnel monitoring and will also make use of dosimeters until radioactivity levels have been deminished (see Exhibit 5, attached). Atcor, Inc. plans to employ local help for such work as welding, rigging, high lift and backhoe operators, etc. only under direct supervision and supsequent to a brief orientation on the basic problems associated with the radiation hazards of the particular tasks. Atcor, Inc. has air particulate monitoring systems and survey instruments for use on the job (see Exhibit 2, attached). They also have acceptable respirators for use, but do not intend to request credit for their use, they will cease operation if air activity (dust) levels exceed limitations.

The rest of this week will be spent by Atcor, Inc. in establishing staging required for the operation, the personnel (a total of four individuals at this time) do not anticipate initiating any packaging or loading operationa until the week of July 5, 1977. As time and work progresses, Atcor Inc. supervisory personnel will determine the need for additional personnel required from the New York office to continue the operation most expeditiously.

Region III Files

.

- 3 -

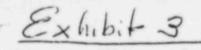
June 29, 1977

Additional tours of the Kerr-McGee, West Chicago plant will continue as necessary to maintain the required NRC cognizance.

C. T. Oberg Radiation Specialist

Attachments: as stated

cc w/attachments: J. M. Allan



TEL: 914-739-9000

RADIOACTIVE SHIPMENT RECORD

NEW YORK LICENSE: 1248-1471

PAGE_____OF____

AEC LICENSE: 31-11640-1

ACCOUNT NUMBER

SHIPMENT DATE:

CARRIER :

VEHICLE NO. :_____ BILL OF LADING NO._____

PLEASE USE TYPEWRITER, MAIL ATCOR'S COPY TO ADDRESS ABOVE, RETAIN CUSTOMER'S COPY FOR YOUR RECORDS, GIVE REMAINING COPIES TO DRIVER.

and the second sec												
CONTAINER	TYPE *	VOLUME CU. FT.	WEIGHT	MAJOR ISOTOPES	CURIES IN CONTENTS	SNM: GRAMS	SOURCE LBS.	RADI MR/	ATION HR 3'	TRANS- PORT GROUP(S)	FISSILE	TYPE LABE
-												
												-
								_				
	1											
												-
												1
			the state and in the section									
				and the summaries of the local line and the sub-								
the second se	TALS	and the second sec						Concession of the local division of the loca	And the second second second second	the second s	the splate time of the splate spin strength spin	

*B: Box, C: Cask; D-30 or D-55: 30 Gal. or 55 Gal. Steel Drum; P: Pail

** Physical & Chemical

THIS IS TO CERTIFY THAT THE ABOVE NAMED ARTICLES ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DOT.

WITNESSED BY		CUSTOMER'S AUTHORIZED SIGNAT	URE
INSTR	DRIVER'S SIGNATURE	TITLE	
WIPE TEST	RADIATION LEVELS	SHIPMENT TOTAL	
MAKE	MAKE	NO. CONTAINERS	NO. CURIES
MODEL	MODEL	ATCOR'S COPY	

-	Julie .	f	· . · · · ·		
- /		S 611	Dir	-	
	~ /	J	1 2 2 1		

TEL: 914-739-9000

RADIOACTIVE SHIPMENT RECORD

AEC LICENSE: 31-11640-1

NEW YORK LICENSE: 1248-1471

PAGE_____OF____

ACCOUNT NUMBER

CARRIER :____

SHIPMENT DATE :

VEHICLE NO. :____

BILL OF LADING NO.

PLEASE USE TYPEWRITER, MAIL ATCOR'S COPY TO ADDRESS ABOVE, RETAIN CUSTOMER'S COPY FOR YOUR RECORDS, GIVE REMAINING COPIES TO DRIVER.

T. LBS	AND FORM**	CONTENTS		2"	3,	GROUP(S)	APPLIE
							 +
			 and the second sec				
							 +
_			 				 +
_			 				
			 				 +
						-	 -
							1
			 				 +
			 				 +
			 				 +
			 				 +
			 			1	

*B: Box, C: Cask; D-30 or D-55: 30 Gal. or 55 Gal. Steel Drum; P: Pail

**Physical & Chemical

THIS IS TO CERTIFY THAT THE ABOVE NAMED ARTICLES ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DOT.

WITNESSED BY		AUTHORIZED SIGNATUR	RE
INSTR	DRIVER'S SIGNATURE	TITLE	
WIPE TEST	RADIATION LEVELS	SHIPMENT TOTAL	
MAKE	MAKE	NO. CONTAINERS	NO. CURIES
MODEL	MODEL	CUSTOMER'S COPY	

-	Λ	
~	4	
A	Цсс	R.

en al al an 1 m and PARK MALL, PEEKSKILL, NEW YORK 10566

TEL: 914-739-9000

RADIOACTIVE SHIPMENT RECORD

AEC LICENSE: 31-11640-1

NEW YORK LICENSE: 1248-1471

ACCOUNT NUMBER

PAGE_____OF____

CARRIER :____

VEHICLE NO. :______ BILL OF LADING NO.

PLEASE USE TYPEWRITER, MAIL ATCOR'S COPY TO ADDRESS ABOVE, RETAIN CUSTOMER'S COPY FOR YOUR RECORDS, GIVE REMAINING COPIES TO DRIVER.

CONTAINER	TYPE .	VOLUME CU. FT.	WEIGHT	MAJOR ISOTOPES	CURIES IN CONTENTS	SNM: GRAMS	SOURCE	MR/		TRANS-	FISSILE	TYPE
NUMBER		00. FT.	Las.	AND FORMET	CONTENTS	SHAMS	L03.	2''	3'	GROUP(S)	CLASS	
-												
												+
												-
												1
				and the second second second second second second								
												1
					1							
				A CONTRACTOR OF A								-
		and the second second	the second se									
TO	TALS											

*B: Box, C: Cask; D-30 or D-55: 30 Gal. or 55 Gal. Steel Drum; P: Pail

**Physical & Chemical

THIS IS TO CERTIFY THAT THE ABOVE NAMED ARTICLES ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DOT.

WIT			

CUSTOMER'S AUTHORIZED SIGNATURE

INST	DRIVER'S SIGNATURE RUMENTS USED	TITLE
NIPE TEST	RADIATION LEVELS	SHIPMENT TOTAL
MAKE	MAKE	NO. CONTAINERS
MODEL	MODEL	Driver's Copy (Ret

NO. CURIES

tained by Receiver)

F A		
of		
	CO	R.

-	1000		11	1.2	in	-		m
	and the	1	111	~ 1		~	(
-						are constrained or the strained		-

TEL: 914-739-9000

RADIOACTIVE SHIPMENT RECORD

AEC LICENSE: 31-11640-1

NEW YORK LICENSE: 1248-1471

ACCOUNT NUMBER

SHIPMENT DATE :

_ VEHICLE NO. :____

_ PAGE_____ OF_____

CARRIER :____

BILL OF LADING NO.

PLEASE USE TYPEWRITER. MAIL ATCOR'S COPY TO ADDRESS ABOVE, RETAIN CUSTOMER'S COPY FOR YOUR RECORDS, GIVE REMAINING COPIES TO DRIVER.

CONTAINER	TYPE	VOLUME		MAJOR ISOTOPES	CURIES	SNM:	SOURCE	RADI MR/	ATION	TRANS-	FISSILE	TYPE
NUMBER	IAME -	CU. FT.	LBS.	AND FORM	CONTENTS	GRAMS	L85.	2'1	3'	GROUP(S)	CLASS	APPLIET
-												
1				NAME AND ADDRESS OF TAXABLE PARTY OF TAXABLE PARTY.		the second se	1					
												+
								-				
									-			-
	-											
							-					
									-			
											1	
									-			
have an					+						1	
TO	TALS					-						

*B: Box, C: Cask; D-30 or D-55: 30 Gal. or 55 Gal. Steel Drum; P: Pail

** Physical & Chemical

THIS IS TO CERTIFY THAT THE ABOVE NAMED ARTICLES ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DOT.

WIT		

CUSTOMER'S	
AUTHORIZED	SIGNATURE

	DRIVER'S SIGNATURE		
INSTR	IUMENTS USED	TITLE	
WIPE TEST	RADIATION LEVELS	SHIPMENT TOTAL	
MAKE	MAKE	NO. CONTAINERS	NO. CURIES
MODEL	MODEL	Driver's Copy (To be retu	rned to ATCOR upon completion of shipment)



TEL: 914-739-9000

RADIOACTIVE SHIPMENT RECORD

AEC LICENSE: 31-11640-1

NEW YORK LICENSE: 1248-1471

ACCOUNT NUMBER

SHIPMENT DATE :

PAGE_____OF____

CARRIER :____

BILL OF LADING NO.____

PLEASE USE TYPEWRITER. MAIL ATCOR'S COPY TO ADDRESS ABOVE, RETAIN CUSTOMER'S COPY FOR YOUR RECORDS, GIVE REMAINING COPIES TO DRIVER.

VEHICLE NO. :____

CONTAINER	TYPE .	VOLUME CU. FT.	WEIGHT	MAJOR ISOTOPES	CURIES IN CONTENTS	SNM: GRAMS	SOURCE	RADI MR/	ATION HR 3'	TRANS- PORT GROUP(S)	FISSILE	
								£	3.			
-												
		and the second second second										
							*					
	1.11											
				1								-
												-
			_									
	-										-	+
	1	-										
									L	1		
TC	TALS				-			J				

*B: Box, C: Cask; D-30 or D-55: 30 Gal. or 55 Gal. Steel Drum; P: Pail

** Physical & Chemical

THIS IS TO CERTIFY THAT THE ABOVE NAMED ARTICLES A 3E PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DOT.

WITNESSED BY

CUSTOMER'S AUTHORIZED SIGNATURE

INSTR	DRIVER'S SIGNATURE	TITLE	
WIPE TEST	RADIATION LEVELS	SHIPMENT TOTAL	
MAKE	MAKE	NO. CONTAINERS	NO. CURIES
MODEL	MODEL	Driver's Copy (Retained b	v Carrier)

A DR RADIOLOGICAL SURVEY ('A FORM Nurvey of:	·	Exhibit .	4	page_oF
Date of Survey: Surveyed By: Type of Survey: Surface Contamination Gamma Loose Surface Beta-Gamma Instr: Fixed Alpha Instr: Count Time Min. BKG CPM Efficiency CF Socation Idpm/100 cn Image: Surveyed By: Surveyed By: Count Time Beta-Gamma Image: Surveyed By: Surveyed By: Count Time Min. BKG CPM Efficiency CF Surveyed By: Surveyed By: Count Time Min. BKG CPM Efficiency CF Surveyed By: Surveyed By: Surveyed By: Surveyed By: Count Time Min. BKG Surveyed By: CPM Surveyed By: Surveyed By: Count Time Min. BKG Surveyed By: Count Time Surveyed By: Surveyed By: Surveyed By: CPM Surveyed By: Surveyee Surveyee Surveyee Surveyee Surveyee Surveyee Surveyee Surveyee Surveyee Surveyee Surveyee Surveyee Surveyee Surveyee	A	OR RADIOLOGIC	AL SURVEY I A FORM	
Type of Survey: Surface Contamination Gamma Loose Surface Beta-Gamma Image: Surface Contamination Gamma Loose Surface Beta-Gamma Image: Surface Contamination Instr:	Survey of:			
tadiation: Seta-Gamma Surface Contamination Gamma Loose Surface Beta-Gamma Instr:	Date of Survey:	1.1.1.	Surveyed By:	
tadiation: Seta-Gamma Surface Contamination Gamma Loose Surface Beta-Gamma Instr:	Type of Survey:			
Ganna Loose Surface Beta-Ganna Instr:	parameter	-	face Contamination	
Instr: Fixed Alpha Instr:			se Surface Beta-G	anna 🗂
Instr:		1	· · · ·	
Count TimeMin. BKGCPM Deterior CF 0 1 1 1 29 30 31 32 33 34 35 36 37 38 39 4 4 4 4 4 4 5 6 7 6 7 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 38 39 41 5 42 43 445 45 46	instr:	- Fixe	ed Aipna	
Decation Idpm/100 cm Idocation Idpm/100 cm 2 27 27 2 29 30 31 31 32 32 33 33 34 36 37 37 38 39 4 4 40 5 41 6 41 7 43 8 44 9 44 4 45 9 46 40 46 40 46 40 46 40 46		Inst	tr:	
Jocation Idpm/100 cm² Location Idpm/100 c² 1 27 28 29 2 30 31 32 3 31 32 33 3 33 33 33 1 32 33 33 1 32 33 33 1 35 36 37 2 38 39 39 4 40 40 41 5 41 40 41 6 44 44 44 3 44 44 46 1 45 44 46 2 48 44 46 3 49 50 49		Cour	nt TimeMin. BKG	СРМ
27 28 29 30 31 32 32 33 34 35 36 37 36 37 38 39 4 4 4 5 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 5 4 4 4 5 4 4 5 4 5 6 7 4 3 4 4 4 4 4 4 5 6 7 6 7 6 7 6 7 6 7 7 </td <td></td> <td>Eff:</td> <td>iciency CF</td> <td></td>		Eff:	iciency CF	
27 28 29 30 31 32 32 33 34 35 36 37 36 37 38 39 4 4 4 5 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 5 4 4 4 5 4 4 5 4 5 6 7 4 3 4 4 4 4 4 4 5 6 7 6 7 6 7 6 7 6 7 7 </td <td></td> <td>1. A. A.</td> <td></td> <td></td>		1. A.		
2 2 2 30 31 31 32 33 32 33 34 35 36 37 36 37 38 39 4 40 5 41 6 42 7 43 8 44 9 44 9 46 44 46 9 46 9 46 9 50	ocation	Idpm/100 cm4	Location	1dpm/100 c:
1 29 30 31 31 32 32 33 32 33 34 35 36 37 36 37 36 37 38 39 4 40 5 41 6 41 7 43 8 44 9 44 9 45 1 45 1 46 44 45 9 46 1 46 1 46 1 49 50 50	L			
1 29 30 31 31 32 32 33 32 33 34 35 36 37 36 37 36 37 38 39 4 40 5 41 6 41 7 43 8 44 9 44 9 45 1 45 1 46 44 45 9 46 1 46 1 46 1 49 50 50	2 .		28	
31 32 33 34 35 36 1 2 3 3 4 5 9 4 4 4 5 6 7 4 3 4 4 4 50 1 2 4 4 4 50 4	5			
32 33 34 34 35 0 1 2 3 3 3 4 5 6 7 8 9 44 44 44 44 44 45 1 2 44 45 46 47 48 49 50	1		30	
33 34 35 36 37 36 37 38 39 4 5 6 7 8 9 44 9 40 41 43 43 44 45 9 46 47 48 49 50	ŝ	-	31	
34 0 1 2 3 4 5 6 7 8 9 1 2 3 4 4 5 6 7 6 1 2 3 4 4 5 6 4 4 5 6 4 4 4 5 6 4 7 43 44 43 44 45 46 47 48 49 50	3		. 32	
34 35 36 36 37 38 39 4 4 4 5 7 8 2 1 2 4	,	1	33	State State State
0 36 37 3 37 38 3 39 40 4 40 40 5 41 40 6 41 40 7 43 41 8 41 41 3 44 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 <td>3</td> <td></td> <td>34</td> <td></td>	3		34	
0 36 37 3 37 38 3 39 40 4 40 40 5 41 40 6 41 40 7 43 41 8 41 41 3 44 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 42 41 41 <td></td> <td></td> <td>35</td> <td>the statements</td>			35	the statements
1 37 2 38 3 39 4 40 5 41 5 41 6 41 7 43 8 444 3 444 45 45 1 45 2 46 47 48 49 50	.0			
2 38 3 39 4 40 5 41 6 41 7 43 8 44 9 44 1 45 1 47 18 49 3 49	1		And an address of the particular design of the second se	
39 4 5 6 7 8 39 40 41 42 41 42 41 42 43 44 44 44 44 45 45 46 477 48 49 49 50	Installance and an and the entropy of a large of the state of the large of the state of the stat		38	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	THE R. P. LEWIS CO., LANSING MICH. & REAL PROPERTY IN CO., LANSING MICH. & R. P. LEWIS CO., LANSING		Construction and the specific construction of the second	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	And the standard of the standa		An an an and the weather and the second se	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	In the set of the set of the associate and the set of t			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	A bindeden andere disserte en dere er deler er er deler er er det anvenger up vor den den den er er er er er er			
8 44 3 45 1 46 47 1 2 3 4	This do that the second state and the second state and the second state and the second state of the second			
9 45 0 46 1 47 2 48 3 49 50 50	And the second		Proprietation and the second strength of the second s	
0 46 1 47 2 48 3 49 50 50	ber ber af die derstande al bei ein die ber bei einen allande maar van in die gewaar of die er bei eine anders		45	
1 47 2 49 3 49 50 50	And a state of the		And and the state of the state	
2 3 4 4 50	1		to make a statement of the	
3 4 50	2		be remaining the second s	
4 50	A 197 March and used to the state of the sector frequency descended by a sector state of the		I consider the second strength that he does a local takes the second strength of the second strengt ot the second strength of the second	
	A CONTRACTOR OF A CONTRACTOR O			
	x		I served where designed and the server of the server server and the server s	1

(Exhibit 5 (

ATCOR INC.

DOSIMETER LOG

		Week Ending							
Name:	A State Street	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.	
	Tn								
	Out								
	In Out Total					1			
	In								
	In Out Total					1	-		
		1		1		1			
	In					1			
	Out								
	Total								
	In			1					
	Out								
	. Total					1			
	Tn	1.							
	In Out								
	Total							1	
And the second se			1						
	In Out								
	Total								
	LO COL								
	In								
	Out								
	Total	+							
	In						1		
	Out Total								
	Total						1		
	Tn	1.1.1.1	1.15				1	1.1.1.1.1	
	Out	1							
	In Out Total						1		
				1		1			
	In Oit Total								
	Total								
Reported and the second s		1				1	1		
	In Out Tot 1							1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
	Out								
	Tot						1		
	In								
	In Out Total	i	1			1			
	Total		1		_	1			

1000