(GI Jun 8



UNITED STATES

NUCLEAR REGULATORY COMMISSION

REGION III

GLEN ELLYN, TLLINGIS 60137

MAY 9 1978

MEMORANDUM FOR:

Region III Files

THRU:

W. H. Schultz, Acting Chief, Materials Radiological

Protection Section No. 1

FROM:

C. T. Oberg, Radiation Specialist

SUBJECT:

KERR-McGEE CHEMICAL CORPORATION, WEST CHICAGO, ILLINOIS

LICENSE NO. STA-583

BRIEF INSPECTION OF TESTING IN PROGRESS AND TOUR OF

FACILITIES

On December 2, 1977, a RIII inspector made a brief inspection of the various decontamination testing techniques presently in progress at the subject licensee's facilities. The testing was being performed by ATCOR under contract with the subject licensee.

Testing consisted of marking off a 10' x 10' area of floor space and performing four different decontamination techniques with each 25 square ft. quadrant. The decontamination techniques employed were: vacuum cleaning, application and removal of stripable latex paint, standard washing technique, and mechanical surface removal. Fixed and removable activity surveys were performed before and after testing. Tests were performed in Buildings 1 and 5; the latter included mechanical Destructive Testing (DT) within a trench included in the test area. Additional DT was also performed within a trench on the ground floor of Building 9. The DT of the trenches was performed to investigate the manner in which the trenches were constructed as well as to determine if there was any significant penetration of thorium contamination into the soil beneath the trench. A plastic tent was constructed over the testing areas in Buildings 1 and 5 to contain the possible spread of contamination. Personnel wore protective clothing and respirators while working in these areas. Air samples were also taken within these areas.

While on site, the inspector was informed that further testing was to be discontinued at the request of Kerr-McGee personnel in Oklahoma City, Oklahoma, and that ATCOR personnel would be leaving the site this day. These individuals also informed the inspector that because of the cold weather, they had experienced difficulties performing the actual work and some of the specific testing procedures. The inspector requested a copy of the results of the testing procedures. These results have been received and are attached.

The inspector toured the licensee facilities at West Chicago and observed replacement signs (CRM) which had been installed, the returned high lift and back-hoe vehicles and the 55 gallon steel drums marked "Radioactive LSA" from M. Moore Chemical Company, Andres, Illinois. The location where fencing had been broken and presently being repaired was also observed. An opening was noticed which was large enough to permit access through one of the gates on the West side of the plant site. The site representative was appraised of this and the fact that the gate appeared to have been forced off of its track.

The site representative stated that he would correct this situation.

Additional inspection tours will be performed as necessary to maintain cognizance of the status of the facilities and any work which may be in progress.

C. T. Obes

Radiation Specialist

Building: 1

Section: I, II, III, II
Location: 8'frau south well; N

25' from west will

before decor Alpha

Pice -45

(diam)

4400	4800	4400	4000
4800	3200	2400	3200
9600	5600	5600	4400
4000	4460	4000	3200

after decon:

I.		II.	
4000 *4000	*4400	3600	4000
4400 +4400	4400 *4400	2000	3200
ш.		IV.	L
2500	2800	-	0
3200	4000		0

type of D.T.:

I. Vacuum Cleaning Test

II. Stripable Later Pair

III. Test Washing

I. Surface Remaine

DEC 21 1977

Building: 1 Section: I, II, III, III Location: 8' from south wall 25' from west well

before decor Beta Gamma E-120 (mr/hr)

.04	.08	104	.06	
.04	.16	.06	.16	
,04	,04	.04	.04	
.06	.10	-10	-16	

after decon:

I.		II.	
.04	.04		
,04	,06		
m.		IV.	1
		-	.00
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type of D.T.:

I. Vacuum Cleaning Tes II. Stripuble Paint Tost

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II. Surface Renoval

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Building: 5
Section: I, II, III

Location:

before decor Alpha

48K	48K	40K	40K
80K	80K	16K	40K
80K	6.4K	6.4K	52K
45K	8 K	8K	48K

after decon:

I.		II.	
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24 K	81	8K.	52 K

type of D.T.:

II. Surface Removal Test

III. Vacuum Cleaning Test

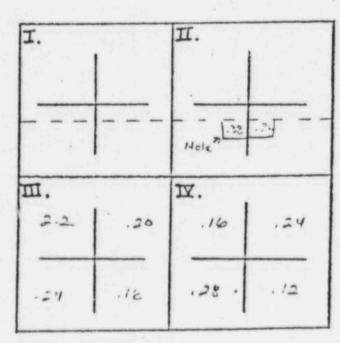
I. Stripable Paint Tos.

Building: 5
Section: 1,7,7
Location:

before decor Beta famma E-120 (ur/hr)

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after decon:



type of D.T.:

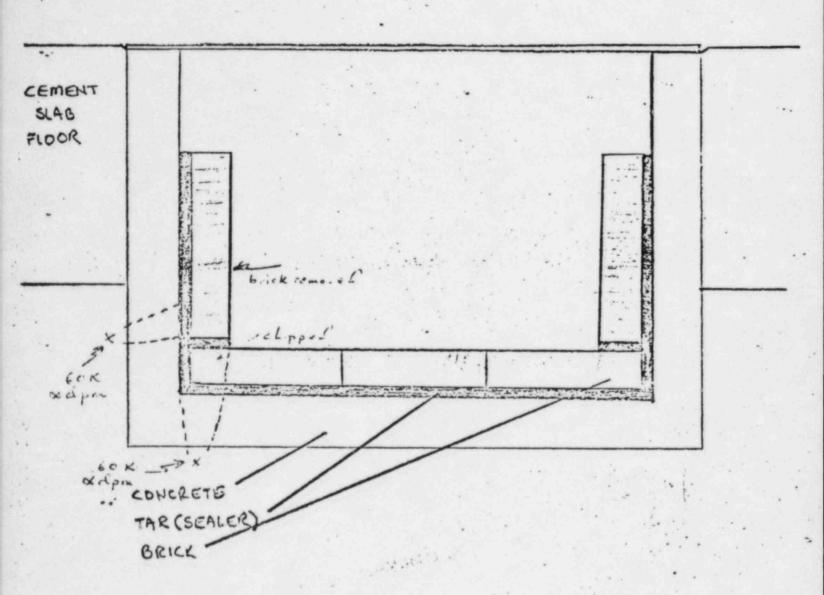
I. Standard Die Test

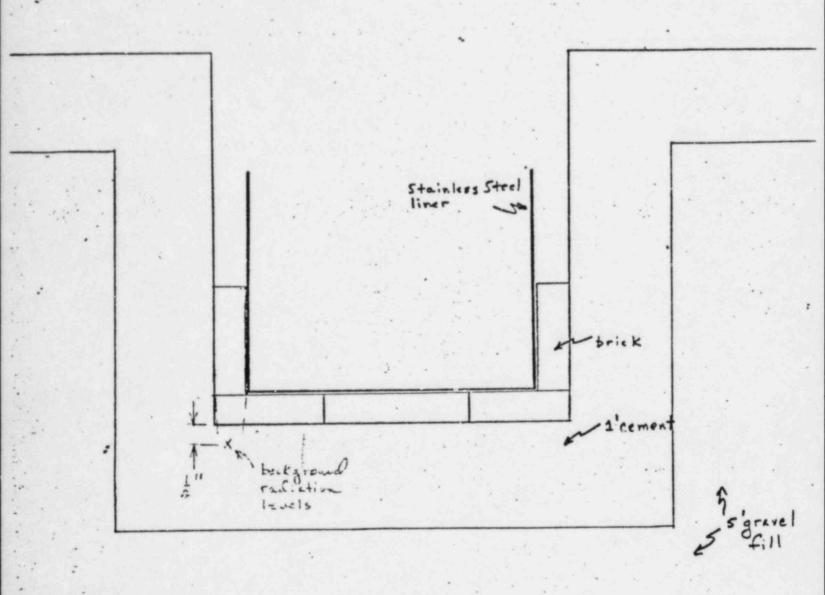
II. Surface Payment

II. Str. Pable / - at

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ATCOR REUTOLOGICAL SURVEY DATA FURT 1 of: Kentucker Warehouse Blace #5of Survey: 13-1-77 Surveyed By: Comp Lellien of Survey: Juney of truck after chipying Surface Contamination tion: Beta-Gamma Loose Surface Beta-Gamma Ganna Fixed Alpha Instr: 125-3 w/9013 Count Time | Min. BKG /7 CPM Efficiency CF 206 damine Hpm/100 cr Location [dpm/100 cm4 ion Bry 27 BKg 28 30 30 30 32 33 34 35 35 37 38 39 110 41 42 43 114 45 46 117 118 119 50





- no type of scaler between liner, brick er combut