

FORM NRC-313 I (1-79) 10 CFR 30		U.S. NUCLEAR REGULATORY COMMISSION		1. APPLICATION FOR: <i>(Check and/or complete as appropriate)</i>	
APPLICATION FOR BYPRODUCT MATERIAL LICENSE INDUSTRIAL				<input checked="" type="checkbox"/>	a. NEW LICENSE
See attached instructions for details. Completed applications are filed in duplicate with the Division of Fuel Cycle and Material Safety, Office of Nuclear Material Safety, and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555 or applications may be filed in person at the Commission's office at 1717 H Street, NW, Washington, D. C. or 7915 Eastern Avenue, Silver Spring, Maryland.					b. AMENDMENT TO: LICENSE NUMBER
					c. RENEWAL OF: LICENSE NUMBER
2. APPLICANT'S NAME <i>(Institution, firm, person, etc.)</i> KAISER AGRICULTURE CHEMICALS TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION AC 918/825-2000			3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION J. W. FRAZA TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION AC 918/825-2000		
4. APPLICANT'S MAILING ADDRESS <i>(Include Zip Code)</i> P. O. Box 99 PRYOR, OKLA. 74361			5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED <i>(Include Zip Code)</i> 5 Miles S. E. of Pryor, Okla. 74361		
(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)					
6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL <i>(See Items 16 and 17 for required training and experience of each individual named below)</i>					
FULL NAME			TITLE		
a.	J. W. FRAZA		MAINTENANCE SUPERINTENDENT		
b.	Granville Ince		Maintenance Supervisor		
c.	Leno Vierti		Shift Supervisor		
7. RADIATION PROTECTION OFFICER J. W. Fraza			Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.		
8. LICENSED MATERIAL					
LINE NO.	ELEMENT AND MASS NUMBER A	CHEMICAL AND/OR PHYSICAL FORM B	NAME OF MANUFACTURER AND MODEL NUMBER <i>(If Sealed Source)</i> C	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D	
(1)	Cs-137	Sealed Source	Ohmart A-5771	No source to exceed 2000 mCi.	
(2)	Cs-137	Sealed Source	Ohmart A-5771	No source to exceed 2000 mCi	
(3)				REVISION- Source will contain 50 mCi.	
(4)					
DESCRIBE USE OF LICENSED MATERIAL E					
(1)	Model SHLM-C-2 source holder used in an Ohmart LevelART 2000 to measure level in a vessel				
(2)					
(3)	Model SHLM-B-1 source holder used in an Ohmart LevelART 2000 to measure level in a vessel.				
(4)					

KAISER
AGRICULTURAL
CHEMICALS

DIVISION OF KAISER ALUMINUM & CHEMICAL CORPORATION

February 8, 1980

ITEM 1:

LX 3893 will be located in a Urea Reactor (R-380) with the bottom of the strip source at elevation 209'. There is a personnel platform at elevation 213' which will periodically be occupied by an Operator as he observes process conditions. The extent of occupancy will be hourly intervals of less than 10 minutes duration at a distance of 3 feet or more from the vessel wall. There is no reason to physically contact the reactor except for maintenance. When maintenance is to be performed the source will be moved to the shielded position. The field intensity at the vessel wall will be less than 5 milliroentgen per hour.

LX 3911 is located in the bottom of a Stripper Exchanger (E-380) and the bottom of the source in the service position is at elevation 110' which is 9'-6" above the ground level. The Operator will observe process conditions at hourly intervals for a duration not normally exceeding 10 minutes. The field intensity at the bottom exchanger head will be less than 5 milliroentgen per hour.

ITEM 2:

It is unlikely that a special posting of the area pursuant to Section 20.203 will be required since the radiation levels 12 inches from the vessel or source holder should not exceed 5 milliroentgen per hour. Section 20.204(a) exempts "Radiation Area" posting under the above conditions.

Should a survey reveal that the radiation level exceeds 5 mr/hr at 12 inches, the area (s) will be posted as required with "CAUTION - RADIATION AREA" signs. These signs are available from Oumart.

ITEM 3:

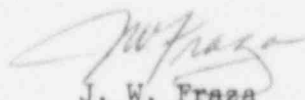
To prevent personnel entering the Reactor (R-380) while the source is in the use position, a cover over one manhole stud will be locked in the manner detailed in Drawing 41-35-V106 with the radiation protection officer having the key. This will prevent entry into the vessel without knowledge of the radiation protection officer.

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The bottom head of the Stripper Exchanger (E8308) will be chained and locked as shown in Attachment 2. A stud cover on the top head will be locked as shown in Drawing 41-35-H35 preventing entrance into the top of the exchanger without the knowledge of the radiation protection officer. The keys to the locks will be in the possession of only the radiation protection officer and the plant manager.

These procedures will insure that untrained personnel do not enter either vessel without withdrawing the source to the shielded position as directed by the radiation protection officer. The radiation protection officer will insure that once the source is withdrawn into the shielded position that it is locked in this position to prevent any accidental exposure of personnel to an unshielded source during maintenance.

Sincerely,



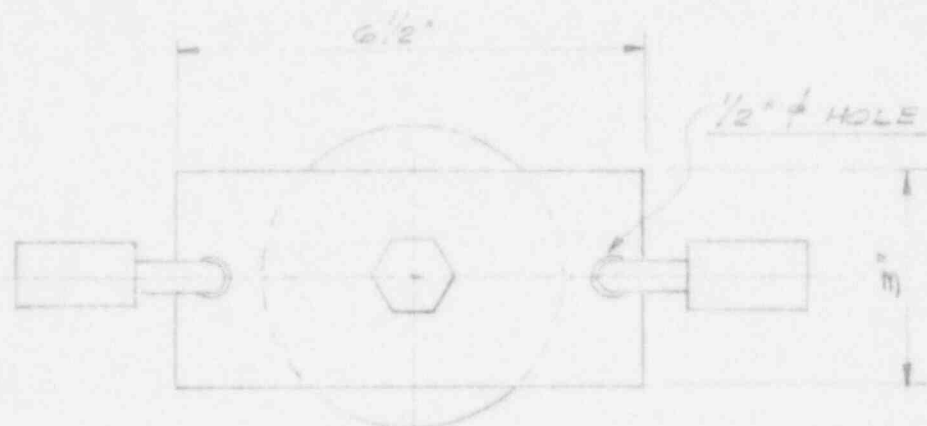
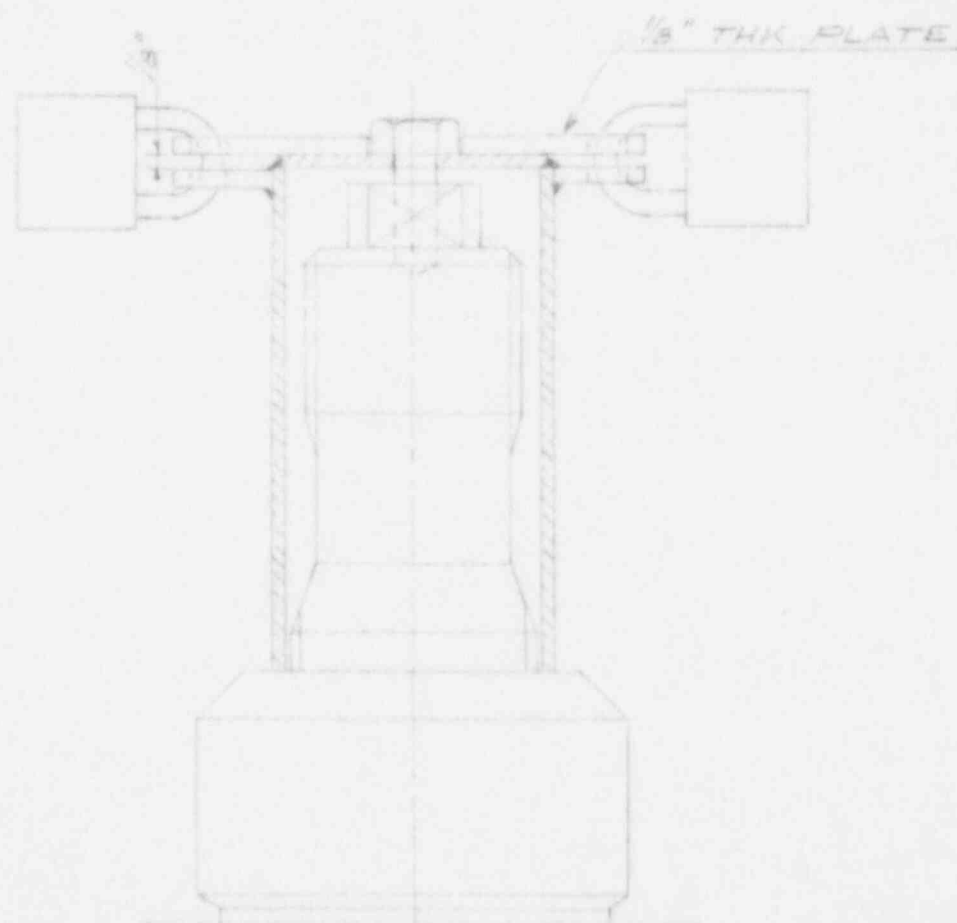
J. W. Fraza
Maintenance Superintendent

JWF:db

Enc.

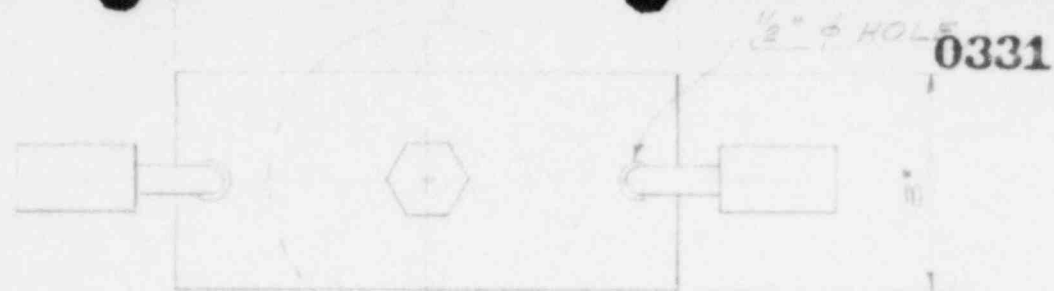
cc/ G. Williams
S. Distefano
G. Ince
L. Vietti
Pryor Engineering

0331

PLANELEVATION

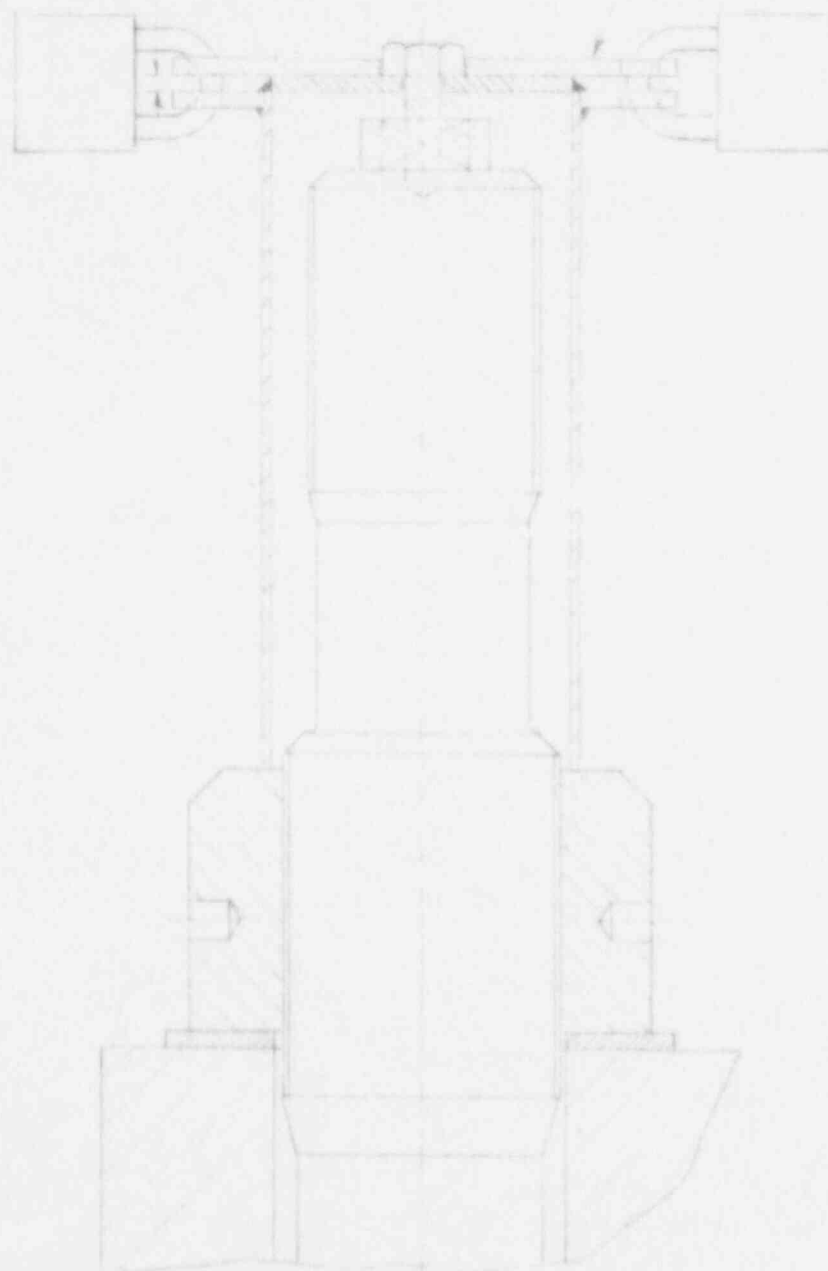
DRAWN BY:	JMP 7/9/76	E-380 H.P. HEATEXCHANGER STUD LOCK COVER DETAIL	SCALE: NONE
CHECKED BY:	LS 7/9/76		
APPROVED BY:	LS 7/9/76		41-55-H35
REVISION NO.			

NIPAK, INC.



PLAN

1/8" THK PL



ELEVATION

DRAWN BY	JMP 7/9/75	R-580 REACTOR STUD LOCK COVER DETAIL	SCALE: NONE
CHECKED BY	LS 7/9/75		
APPROVED BY	4.1 7/9/75	NIPAK, INC.	41-35-V106
REVISION NO			