

UNION CARBIDE CORPORATION

OLEFINS DIVISION

P. O. BOX 8361, SOUTH CHARLESTON, W. VA. 25303

le

June 29, 1966

U. S. Atomic Energy Commission Division of Licensing and Regulation Washington, D. C.

Attention Isotopes Branch

Gentlemen:

Please ammend license 47-260-2, ammended, to permit possession of Sr-90 beta point sources, Ohmart drawing #A-4830 and Sr-90 beta strip sources, Ohmart drawing #A-5781. Sources will not exceed 1 curie each nor a total of 10 curies. Sources will be contained in approved safety holders; leak wipe tests will be performed as stated in license 47-260-2 as ammended. Also, please ammend condition 12 by removing M. B. Young's name. Mr. Young is no longer employed by Union Carbide.

Very truly yours,

Measurements Division

Special Instrumentation
ENGINEERING TECHNOLOGY & SERVICES

RVSealey/ub

DUPLICATED FOR DIV. OF COMPLIANCE



Form AEC-313 (5-58) ATOMIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved Budget Bureau No. 38-R027,4

INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application. If application is for renewal of a license, complete only Items 1 through 7 and indicate new information or changes in the program as requested in Items 8 through 15. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail three copies to: U. S. Atomic Energy Commission, Washington 25, D. C. Attention: Isotopes Branch, Division of Licensing and Regulation. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30 and the Licensee is subject to Title 10, Code of Federal Regulations, Part 20.

1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, etc.) Union Carbide Corporation Olefins Division P. 0. Box 8361 South Charleston, West Va. 25303	(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (14 (1) 1137 MacCorkle Avenue (2) Technical Center, Kanawha Turnpike (4) Institute Plant, U.S.Highway 35
2. DEPARTMENT TO USE BYPRODUCT MATERIAL	3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.)
Special Instrumentation	This is an application for ammendment to 47-260-2, ammended
4. INDIVIDUAL USER(5). (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and 9.)	RADIATION PROTECTION OFFICER (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Items 8 and 9.)
M. B. Young	
R. V. Sealey	Fred Williams
(R.V.Sealey not listed on present licens	(e)
6. (a) BYPRODUCT MATERIAL. (Elements (b) CHEMICAL AND/OR PHYSICAL FO	DRM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYS-

6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each.) (b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.)

Cesium-137

Sealed sources--same as on present license

Strontium 90

Sealed sources -- same as on present license

7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "human use," supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)

To measure level and density of chemical processes.

Form AEC~313 (5-58)		-						Page Two	
TRAINING AND EXPE	RIENCE OF EA	CH INDIVIDU	AL NA	MED IN ITEA	A 4 (Use supplement	al sheets if neces	sary)	
8. TYPE OF TRAINING		WHERE TRAINED			DURATION C				
a. Principles and practices of radiation protection		See attached sheet					Yes N	o Yes No	
 Radioactivity measurement standardiza- tion and monitoring techniques and in- struments 							Yes N	lo Yes No	
 Mathematics and calculations basic to the use and measurement of radioactivity 							Yes N	o Yes No	
d. Biological effects of radiation	d	() () () () () () () () () ()					Yes N	o Yes No	
9. EXPERIENCE WITH RADIATION. (Actual	use of radioisot	opes or equivale	nt expe	rience.)		·			
ISOTOPE MAXIMUM AMOUNT WI	HERE EXPERIENCE	WAS GAINED		DURATION	OF EXP	PERIENCE	TY	PE OF USE	
See attached sheet									
10. RADIATION DETECTION INSTRUMENTS.	(Use suppleme	ental sheets if ne	cessary.)		······································		· · · · · · · · · · · · · · · · · · ·	
TYPE OF INSTRUMENTS (Include make and model number of each)	NUMBER AVAILABLE	RADIATION DETECTED	SENS	TIVITY RANGE (mr/hr)	WIND	OOW THICKNES (mg/cm²)		USE , surveying, measuring)	
						,	· ;		
	Same as	on prese	nt]	License			;)	
								. '	
	1								
11. METHOD, FREQUENCY, AND STANDARDS	USED IN CALIBRA	TING INSTRUME	NTS LIST	ED ABOVE.					
Same as on present license									
12. FILM BADGES, DOSIMETERS, AND BIO-ASS	SAY PROCEDURES	USED. (For film	n badges	s, specify method	of calib	rating and proce	essing, or name of	supplier.)	
Same as on present license									
IN	FORMATION	I TO RE SUR	MITTE	D ON ADDI	TION	AI SHEETS	- -		
FACILITIES AND EQUIPMENT. Describe to of facility is attached. (Circle answer)							fume hoods, etc.	Explanatory sketch	
14. RADIATION PROTECTION PROGRAM. Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing procedures where applicable, name, training, and experience of person to perform leak tests, and arrangements for performing initial radiation survey, servicing, maintenance and repair of the source.									
Same as on present license 15. WASTE DISPOSAL. If a commercial waste disposal service is employed, specify name of company. be used for disposing of radioactive wastes and estimates of the type and amount of activity involved.									
С	ERTIFICATE	(This item m	ušt _e b	e complete	d by	applicant)			
16. THE APPLICANT AND ANY OFFICIAL EXE PREPARED IN CONFORMITY WITH TITLE 10, SUPPLEMENTS ATTACHED HERETO, IS TRU	, CODE OF FEDER	RAL REGULATIONS	S, PART	30 AND THAT	ALL INF	FORMATION CO	ONTAINED HEREIN	N, INCLUDING ANY	
Date									
WARNING.—18 U. S. C., Section 100	1: Act of lune	25, 1948: 62	Stot 74				oka a willfully	false statement or	
representation to any department or agency						~. Onemie 10 U	·	TO Insmerize seems	

FORM # 62-3100-1

SUPPLEMENTAL ATTACHMENT

Item 8

	Item 8	·			
		Where Trained	Duration of Training	On The Job (Circle Answer)	Formal Course (Circle Answer)
***************************************	M. B. YOUNG	Same as on pres	sent license.		
	R. V. SEALEY	(a) Union Carbide Olefins Div.	9 months	Yes No	Yes No
	•	(b) Union Carbide Olefins Div.	9 months	Yes No	Yes No
		(b) Wichita State Univ. Wichita, Kansas	l year	Yes No	Yes No
		(c) Union Carbide Olefins Div.	9 months	Yes No	Yes No
		(c) Wichita State Univ. Wichita, Kansas	2 years	Yes No	Yes No

