Form AEC-313 (5-58)

ATOMIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved. Budget Bureau No. 38-R027.3.

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.)

> Diamond Alkali Company P. O. Box 348 Painesville, Ohio

(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (IF different from 1 (a).)

2. DEPARTMENT TO USE BYPRODUCT MATERIAL

Analytical Department

3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.)

34-583-3

(H-60)

Renewal

INDIVIDUAL USER(S). (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and

John M. Sanders Research Chemist 5. RADIATION PROTECTION OFFICER (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experiance as in Items 8 and 9.)

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 PHYS ICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state notice of manufacturer, model number, number of sources and maximum activity per source.)

Cobalt-60

Sealed Source (Tracerlab, R-31) l millicurie

B. Chlorine-36

HC1

50 microcuries

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.)

- A. Calibration of instruments
- B. Research with chlorinated organic compounds

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	EKILIACE OF E	ACH INDIVID	JAL NAM	ED IN ITEM	4 (Use upplemental	sheets if necessary)
B. TYPE OF TRAINING		WHERE TRAINED				ON THE JOB (Circle answer)	FORMAL COURSE (Circle answer)
a. Principles and practices of radiation protection						Yes No	Yes No
 Radioactivity measurement standardize tion and monitoring techniques and in struments 						Yes No	Yes No
c. Mathematics and calculations basic to the use and measurement of radioactivity	he					Yes No	Yes No
d. Biological effects of radiation						Yes No	Yes No
	al use of radioiso	topes or equivale	ent experier	ice.)		1	
	WHERE EXPERIENC				OF EXPERIENCE	TYPE O	F USE
10. RADIATION DETECTION INSTRUMENTS	. (Use supplem	ental sheets if n	ecessary.)				
TYPE OF INSTRUMENTS (Include make and model number of each)	NUMBER	RADIATION	SENSITIVITY RANGE WIN		WINDOW THICKNESS	(Monitoring, surveying, measuring)	
11. METHOD, FREQUENCY, AND STANDARDS					of calibrating and processi	ng, or name of supp	lier.)
	IFORMATIO		******				
		Control of the Contro		and the second second	CONTAINERS, shielding, fum	e hoods, stc. Exp	lanatory sketch
13. FACILITIES AND EQUIPMENT. Describe of facility is attached. (Circle answer)	laboratory facilitie Yes No Describe the radio e, training, and ex	s and remote har	dling equip	ment, storage	containers, shielding, fum measures. If application	covers sealed source	ces, submit leak
13. FACILITIES AND EQUIPMENT. Describe of facility is attached. (Circle answer) 14. RADIATION PROTECTION PROGRAM. lesting procedures where applicable, namicing, maintenance and repair of the source. 15. WASTE DISPOSAL. If a commercial was be used for disposing of radioactive waste.	laboratory facilitie Yes No Describe the radio e, training, and exite te disposal service as and estimates a	s and remote har stion protection a perience of perso is employed, spe f the type and an	regram inch n to perform with name o	oding control leak tests, a f company. vity involved.	containers, shielding, fum measures. If application nd arrangements for perfo Otherwise, submit detaile No change	covers sealed source rming initial radiati	ces, submit leak on survey, serv- hods which will
13. FACILITIES AND EQUIPMENT. Describe of facility is attached. (Circle answer) 14. RADIATION PROTECTION PROGRAM. lesting procedures where applicable, name icing, maintenance and repair of the source. 15. WASTE DISPOSAL. If a commercial was be used for disposing of radioactive waste.	laboratory facilities Yes No Describe the radio e, maining, and exists the disposal service es and estimates of ERTIFICATE	is and remote har ation protection a perience of perso is employed, spe f the type and an (This item m	rogram inch n to perform	ding control leak tests, a f company, vity involved.	containers, shielding, fum measures. If application nd arrangements for perfo Otherwise, submit detailer No change I by applicant)	covers sealed sour rming initial radiati d description of met in previo	ces, submit leak on survey, serv- hods which will OUS PLAN
13. FACILITIES AND EQUIPMENT. Describe of facility is attached. (Circle answer) 14. RADIATION PROTECTION PROGRAM. lesting procedures where applicable, namicing, maintenance and repair of the source. 15. WASTE DISPOSAL. If a commercial was be used for disposing of radioactive waste.	Describe the radio e, maining, and extends the disposal service and estimates a CERTIFICATE ECUTING THIS CO., CODE OF FEDE	is and remote har ation protection a perience of perso is employed, spe f the type and an (This item or ERTIFICATE ONE	regram inch n to perform with name of nount of acti	ding control leak tests, a f company. vity involved. ompleted THE APPLICAL AND THAT APPLICAN APPLICAN APPLICAN APPLICAN APPLICAN THAT Y	containers, shielding, fum measures. If application and arrangements for perfo Otherwise, submit detaile No change I by applicant) NT NAMED IN ITEM 1, CI ALL INFORMATION CONT	covers sealed sourceming initial radiation of metal of the previous company. Company Company	tes, submit leak on survey, serv- hods which will ous plan