Form AEC-313 (5-58)

4.

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.

 (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, etc.)

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

MALLINCKRODT CHEMICAL WORKS SECOND AND MALLINCKRODT STREETS ST. LOUIS 7, MISSOURI

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

MANUFACTURING DEPARTMENT

24-5804-1 (KENEWAL)

 #4DIVIDUAL 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 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.)

MELVIN RATHER

2 DEPARTMENT TO USE BYPRODUCT MATERIAL

WILLIAM L. UTNAGE

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 SOURCE (U. S. RADIUM CORPORATION MODEL LAB - 236CI-4)

I SOURCE OF 100 MILLICURIES

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 BE USED IN OHMART CORPORATION MODEL SHRM-P SOURCE HOLDER TO CONTROL LEVEL OF BARIUM SULFATE - WATER SLURRY IN A DOUBLE DRUM DRIER.



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(Continued on reverse side)

Fgrm AEC-313 (5-58)							Page Two
TRAINING AND EXPE	RIENCE OF E	ACH INDIVIDU	AL NAMED IN ITE	M 4 (Use suppl	ementol	sheets if necessary)
8. TYPE OF TRAINING	WHERE TRAINED				ON OF	(Circle answer)	FORMAL COURSE (Circle answer)
a Principles and practices of radiation protection	MALLINCKRODT CHEMICAL WORKS - URANIUM DIVISION				RS.	€ No	Yes No
b. Radioactivity measurement standardiza- tion and manitoring techniques and in- struments	MALL	NCKRODI	CHEMICAL		RS.	(G) No	Yes No
c. Mathematics and calculations basic to the use and measurement of radioactivity			CHEMICAL	ON 5 Y	RS.	@ No	Yes No
d. Biological effects of radiation	MALL	NCKRODI	CHEMICAL	5 v	RS.	(63) No	Yes No
9 EXPERIENCE WITH RADIATION (Actual		topes or equivale					
U238 TON QUANT. FALL CE137 20 MC MALLI RA226 10 MC MALLI	NCKROD1 NCKROD1 NCKROD1	URAN.	DIV. 9 DIV. 3 DIV. 5	YEARS YEARS YEARS YEARS YEARS WINDOW THIC	O R N	The second secon	RING U STRUMENT INSTR. TION
11 METHOD, FREQUENCY, AND STANDARDS			NTS LISTED ABOVE. m badges, specify metho	d of calibrating and	process	ing, or name of supp	oher.)
			MITTED ON ADD			me hoods, etc. Exp	olanatory sketch
14. RADIATION PROTECTION PROGRAM. Disting procedures where applicable, name icing, maintenance and repair of the source	fraining, and e	ation protection person	or to perform leak tests.	ol measures If as and arrangements	plication for perf	n covers sealed sour orming initial radiat	ces, submit leak ion survey, serv-
 WASTE DISPOSAL. If a commercial waster be used for disposing of radioactive waster 	and estimates o	of the type and a	nount of activity involve	d		ed description of me	thods which will
			nust be complete				
16. THE APPLICANT AND ANY OFFICIAL EXE PREPARED IN CONFORMITY WITH TITLE 10 SUPPLEMENTS ATTACHED HERETO, IS TRU	CODE SPINEDE	RAL REGURA BOM	Ma	NO BELIEF	ON CON	emical Wo	ACTUDING ANY
Date September 12, 1961	0	11, 93		ctor H. K	noor	noop o, Secreta	ry
WARNING.—18 U.S. C., Section 100 representation to any department or agency					to ma	ike a willfully fals	e statement or

15. WASTE DISPOSAL

DISPOSAL OF SEALED SOURCE SHALL BE PERFORMED BY THE OHMART CORPORATION.