Form AEC-313 (5-58)

ATOMIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved Budget Bureau No. 38-R027.4

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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.

The state of the s

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

(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (IF

Stauffer Chemical Company Victor Chemical Division 100 S. Wacker Drive Chicago 6, Illinois

Stauffer Chemical Company Victor Chemical Division

Globe Plant P. O. Box 89

4 Mt. Pleasant, Tennessee
3. PREVIOUS LICENSE NUMBERISL IN this is an application for renowal of a 2. DEPARTMENT TO USE BYPRODUCT MATERIAL license, please indicate and give number.)

Production

None

4. INDIVIDUAL USER(5). (Name and title of individual(s) who will use or directly Give training and experience in Items 8 and

J. H. Davis

5. RADIATION PROTECTION OFFICER (Name of person designated as radiation pro tection officer if other than individual user. Attach resume of his training and ex perience as in Items 8 and 9.)

C. R. Ford J. W. Thompson

Sam Petty

T. M. Langley B. J. Vandiver W. A. Kittrell, Jr. Plant Manager

6. (a) SYPRODUCT MATERIAL

(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYS KAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name o number, number of sources and maximum activity per source.)

Cesium 137

Nuclear-Chicago Corporation Model 506 Liquid Density Gauge containing 500 milliouries of Cesium 137 as a sealed source Model RR 138.

7. DESCRIBE PURPOSE FOR WHICH SYPRODUCT 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.)

The Model 506 Gauge will be used for continuous density measurements. The gauge itself acts as a complete storage container for the source both prior and subsequent to installation of the gauge.



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J. W. Thompson

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			We shall follow the				Yes	No	Yes No		
		instructions for handling the Model 506 Gauge given					Yes	No			
c. Mathe	matics and calculations and measurement of rac	basic to the	mp ny	the Nuc	lear-Chi	lcago		Yes	No	Yes	Ne
d. Siological effects of radiation				- 17 mg				Yes	No	Yes	No
P. EXPER	ENCE WITH RADIATIO	N. (Actual	use of radiaise	otopes ar equivale	ent experience.)		*				-
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	ē. ac	handl	ing the	e Model	instruc 506 Gaug Chicago	ge give	en a			2011	J
10. RADU	ATION DETECTION INS	TRUMENTS.	(Use supplen	nental sheets if n	ecessary.)			***************************************			Landon stee on
(Include	TYPE OF INSTRUMENTS (Include make and model number of each)		NUMBER				OW THICKNESS	(Manitari	USE (Manitoring, surveying, measuring		
NOI	ne Required	•						-31.			
		None 1	Require	ed						*****	
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12. PEM &	ADGES, DOSIMETERS, AI	None In None In None In	Require Require Require FORMATION PORTER To Recipion to the rediction of t	S USED. (For film O D BE SUB- Is and remate han See Stion protection properience of person	MITTED ON Aldling equipment, she Attache	DDITIONA rage cantaine d. Shee ntrol measures is, and arrang	L SMEETS rs, shielding, fum If application gement for perfo	ing, or name (of supplied	natary skeh	ek
12. PEM & STEEL ST	ADGES, DOSIMETERS, AI TIES AND EQUIPMENT. In is amached. (Circle of	NODE INDESTRUCTION NODE INFO Describe lab answer) GRAM. Describe lab answer in the source in the so	Require Require Require FOR MATION Portation to the redict the red control the red	S USED. (For film B C N TO BE SUB Is and remote han SOB Interior protection properience of person SOB is employed, species	MITTED ON Alding equipment, she Attache ogram including car to perform leak ter Attache	DDITIONA proge containe d. Shee antrol measures in, and arrang	L SMEETS rs, shielding, fum ti. If application gements for perfo	ing, or name in the hoods, etc. covers sealer ming initial and description	el supplie Explan d sources radiation	natary sheh , submit le survey, ser ds which w	ak rv-
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ADDENDA TO FORM 313 FOR MODEL 506

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Item 13 - Adequate shielding is provided by the shielding incorporated in the instrument. The shutter will be locked in the 'CLOSED" position at such times as the gauge is not installed on a pipe.

Item 14 - The Model 506 Gauge will be leak-tested at least once per year. We shall follow the protection procedures given us by the Nuclear-Chicago Corporation.

Item 15 - No waste disposal is involved. In the event that the gauge is damaged or its use discontinued, we shall return the gauge to Nuclear-Chicago for removal of the source material.

