ohuron on 7/2/58 ATOMIDENERGY COMMISSION Form AEC-313 Budget Bureau No. 38-R027.3. (2-57) APPLICATION FOR BYPRODUCT MATERIAL LICENSE 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 two copies to: U. S. Atomic Energy Commission, P. O. Box E, Oak Ridge, Tenn. Attention: Isotopes Extension, Division of Civilian Application. 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. (b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (IF 1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, etc.) different from 1 (a).) Curtiss-Hright Corporation Miclear Power Derartment Research Reactor Division Quohanna, Painsylvania 3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a 2. DEPARTMENT TO USE BYPRODUCT MATERIAL license, please indicate and give number.) Representation of the second second Conto Sal 37-2416-2 , AI, AZ + A3 Nuclear Power Department 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 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.) 9.) Persons designated by the Isotopes J. I. Donovan Committee. J. L. Donovan, Chairman CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYS-6. (a) BYPRODUCT MATERIAL, (Elements (b) and mass number of each.) ICAL 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.) Fission products from the findion of not more than 200 grans of uranius - 235. The material will be Fission Products recoived in the form of irradiated reactor fuel elements being clad in 0.020 inch eluminum cladding. There will be three MTR type fuel plates in all, manufactured by 3 Curtiss-Wright Corporation. These are experimental clements of no nodel musber. PILICATED FOR DIV. OF INSP. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "human use," supplement A (form AEC-313a) must be com-7. pleted 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.) Irradiated fuel elements will be studied in our hot cells to evaluate their performance under 10 - 20 and 30% burnup. They will be examined for external appearance, corrosion and dimensional changes. A selected fuel plate will be sectioned and studied for integrity of the bond between fuel and cladding and possible porosity in the fuel because of contained fission products. 113 (Continued on reverse side)

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Form AEC	-313 (2/57)				141 114	MED INT TEL		1.1	Pag
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a. Principles and practices of radiation protection			. See pro	See previous applications				Yes No	Yes
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IO. RADI	TION DETECTION IN	STRUMENTS	5. (Use supplem	ental sheets if ne	cessary.)				
TYPE OF INSTRUMENTS (Include make and model number of each)					IIVITY RANGE (mr/hr)	WINDOW THICKNESS (mg/cm ²)	(Monitoring, su	USE rveying, measur	
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12. FR.M 1	ADGES, DOSIMETERS,	AND BIO-AS	SAY PROCEDURE	S USED. (For film			of calibrating and proce	ising, or name of sup;	plier.)
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3		11	NFORMATIO	N TO BE SUB	MITTE		TIONAL SHEETS		
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							measures. If application in the second se		
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5. WAST	DISPOSAL. If a con d for disposing of radi	nmercial was oactive waste	te disposal service	is employed, spe	cify name	of company.	Otherwise, submit detai	led description of me	thods which wi
<u>Falson</u> Safi di							t by applicant)		
PREPA	PLICANT AND ANY O ED IN CONFORMITY V MENTS ATTACHED HE	OFFICIAL EX	ECUTING THIS C	ERTIFICATE ON B	EHALF C	F THE APPLICA	NT NAMED IN ITEM 1, ALL INFORMATION CO	CERTIFY THAT THIS A NTAINED HEREIN, IN	APPLICATION I
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n.	Juno 19, 19	58				Applicant i By: M.S	named in item 1		
Date	=		·			ру: <u> </u>	. Julane.		
Date			•			React	or Health Ph	voiciet	
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WARNI	IG	Section 100)]; Act of June : y of the United S	25, 1948; 62 S	Stat. 74	7; makes it a	criminal offense to ma	ske a willfully false	e statement o
Date WARNI fepresent	IG.—18 U.S.C., S tion to any departme	Section 100 Intor agenc)); Act of June y of the United S	25, 1948; 62 S States as to any (Stat. 749 matter w	7; makes it a	criminal offense to ma	ske a willfully false	GPO 931