4-860-4

form AFC-313 12-57

ATOMIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Ferm approved. Budget Bureau No. 38-8027.3.

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 two copies to: U. S. Atomic En. Commission, P. O. Box E, Oak Riage, 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 : 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,

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

Northrop Aircraft, Inc. Northrop Division 1001 E. Broadway Hawthorne, California

Same

2 DEPARTMENT TO USE BYPRODUCT MATERIAL

Department 3200 Nuclear Technology 3. PREVIOUS LICENSE NUMBER(5). (If this is an application for renewal of a license, please indicate and give number.)

New

4. INDIVIDUAL USER(S). (Nome and title of individual(s) who will use or directly S. RADIATION PROTECTION OFFICER (Name of person designated as radiation prosupervise use of byproduct material. Give training and experience in Items 8 and

tection officer if other than individual user. Attach resume of his training and experience as in (tems 8 and 9.)

R. H. Johnson C. E. Cole

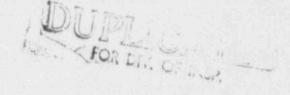
Lee B. Johnson (Chief Safety Engineer)

6 (a) BYPRODUCT MATERIAL (Elements and mass number of each.)

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

Sb-124 Zn-65

SbCl3 and SbOCl in FT1 solution - 1 mc. ZnCl2 in HCl solution - 1 mc.



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 madel number of the storage contains which the source will be stored and, ar usad.)

These tracers will be utilized in laboratory experiments to determine their feasibility for non-destructive testing by autoradiographic means of new brazing techniques.

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ITEM 8:	Type of Trai	ini		Duration o	On the Job	Formal Course
R. H. J	ohnson					
a. Was	hington Univ.,	St. Louis	, Mo.	18 mos.	No	Yes
b.	10 01			**	Yes	Yes
C.	81 11				No	Yes
d.	81 11			*	No	Yes
C. E. C	ole					
a. Nor	throp Aircraft	, Inc.		6 mos.	Yes	No
b.	M M			Ħ	Yes	No
C.	N N				Yes	No
d.	\$7 \$9				Ĭes	No
Mr	. Cole is sche	eduled to a	ttend ORINS s	oon.		
L. B. J	ohnson					
a. Los	Angeles City	Schools-R	adiological	1 year	No	Yes
	itor Training			night school		
b. 1	R 19	11		n	No	Yes
C. 1	M K	91		Ħ	No	Yes
d.	W *	51		n	No	Yes
ITEM 9:	Experience W		ion ere Experienc	e was Gained	Duration of	Type of
R. H. Je	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT				Experience	Use
T1 204	l mc	Wa	shington U.,	St. Louis, Mo.	18 months	Isotopie Dila-
Co 60	1500c	WA	DC, USAF, Day	ton, Ohio	3 years	tion Exp. Radiation
Co 60	19,000	. WA	DC, USAF, Day	ton, Ohio	6 months	Effects Studies Radiation Effects Studies
Sr 90	500 mc		rthrop Aircra wthorne, Cali		6 months	Light-Sources
C. E. C	ole					
Sr 90	500 mc		rthrop Aircra wthorne, Cali		6 months	Light-Sources
L. B. J	ohnson					
Co 60	6 curie	Ra	s Angeles Cit; diological Mo aining Course	nitor	3 years - intermit- tent use.	Calibration of 500r per kowr - instruments & monitoring practice.
Sr 90	500 mc		rthrop Aircra wthorne, Cali		3 years	Light-source lab work.
X-ray	Max. Op 140 KVF		rthrop Aircra wthorne, Cali		3 years	Industrial metals; weld in- spection.
						44 70 7

EM 14:

Personnel will wear film badges and pocket dosimeters. Frequent monitoring of the lab area will be accomplished.

ITEM 15:

Waste disposal for the laboratory will be performed by Isotope specialties Co., Burbank, California. However, when possible in accordance with LOCFR 20.303, the material will be released into the sewerage system.