formation in this record was deleted accordance with the Freedom of Information ct, exemptions 2007-30 Y

The second se	abert 0. Molitim		LTR. MEM	o:			THER:
TO:			ORIG.: CC:		OTHER:	cent cy. s	m*4.
9. 7. Harmon			ACTION NECESSARY	CONCU	RRENCE NT	DATE ANS	WERED:
CLASSIF:	PC	OST OFFICE	FILE CODE	7344			· · ·
DESCRIPTION	(Must Be Unclassified)		REFERRED TO	D	ATE	RECEIVED BY	DATI
Ltr. m cover Jon	in, considerat of an S. Revie as S	SUB-831 to	Masabananar	9	/15	• .	
the MED I	RAG and person 1 100 Safety Pros	caspensible f	er w/file cy. 6	file			
ENCLOSURES						······································	
			BOTES This is			under Doo	ket 40-8
t frat w	· · · · · · · · · · · · · · · · · · ·		Continue	#2961.			
	en de altre en en e		A.				
Distributi	on: 1-FDR cy.	t ev.		CHOUR			
eku terri di bastati i Gareni di Antonio Statu da Antonio			LOVNOWI EDG			• • • • •	Ð
· · · · · · · · · · · · · · · · · · ·	MENT PRINTING OFFICE: 321-473	U.S	ATOMIC ENERGY COMMISIO	N	MAIL CON	TROL FORM	FORM AEC-326 (8-60)
A U.S. GOVERN							

هين ۽ ر

~F.

•• ** • ί.



Regulatory

LEY FORGE SPACE CENTER (MAIL: P. O. BOX 8555 PHILA., PA. 19101) .. TEL. 962-2000

September 8, 1969

Mr. D. F. Harmon Source and Special Nuclear Materials Branch Division of Materials Licensing Atomic Energy Commission Washington, D. C. 20545

Dear Mr. Harmon:



File Cy.

The General Electric Missile and Space Division was recently split into two Divisions, the Re-entry and Environmental Systems Division (RESD) and the Space Division. As part of this separation, the radiation safety responsibilities will be divided into two sections and each will have a separate Ionizing Radiation Advisory Group (IRAG) and Radiation Safety Officer. For this reason the following is requested.

ECTRIC

1) Change Item 10 on the Application for License SUB 831 dated April 22, 1968. The new Secretary of the RESD IRAG and person responsible for the Radiation Safety Program at RESD is Jordan S. Davis. His resume is attached.

2) Enclosed is an application for a new license for Space Division. The radiation safety procedures for handling depleted Uranium are identical to those listed in License SUB 831. The procedures for handling the Thoria discs and sealed Thoria sources are outlined in Attachment 3. The individual responsible for the Radiation Safety Program at Space Division is Robert O. McClintock.

If there are any questions regarding these changes, please contact us at your convenience.

Very truly yours,

Robert O. McClintock Health Physicist - Space Division

Jordan S. Davis Specialist - Radiation Protection - RESD

ACYNOWIFNGFN

FORM AEC-2 (3-64) Previous editions ate obiolete.

FORM APPROVED BUREAU OF DUDGET NO. W R002

UNITED STATES ATOMIC ENERGY COMMISSION

APPLICATION FOR SOURCE MATERIAL LICENSE

Pursuant to the regulations in Title 10, Code of Federal Regulations, Chapter 1, Part 40, application is hereby made for a license to receive, possess, use, transfer, deliver or import into the United States, source material for the activity or activities described.

2 2 2 1 <u>1 2</u> 040× 20141 2	2. NAME OF APPLICANT				
🖄 (a) New license	General Electric Co Space Sy	stems			
[] (b) Amendment to License No.	1. PHINCIPAL BUSINESS ADDRESS				
II (c) Renewal of License No.	Valley Forge Space Technology Center				
[] (d) Previous License No.	P O Box 8555 Dhiladolphia Do 10101				
A STATE THE ADDRESSIES) AT WHICH SOURCE MATERIAL	WILL BE POSSESSED OR USED	. 19101			
Item #2) Morgantown Test Facility.	Elverson Pa				
Cabot. Cabot & Forbes Bu	ildings Allendale Rd King of D	miggio Do			
BUSINESS ON OCCUPATION	S. (a) IF APPLICANT IS AN INDIVIDUAL STATE	(b) AUE			
Manufacturing & Missile Researd	h N/A	N/A			
7. DESCRIBE PURPOSE FOR WHICH SOURCE MATERIAL WIL	LI. BE USED				
Research development and many	utacturing programs related	to the			
Missile and Space programs.					
S. STATE THE TYPE ON TYPES, CHEMICAL FORM OR FOR	RMS. AND DUANTITIES OF SOURCE MATERIAL YOU	PROPUSE TO RECEIVE.			
POSSESS, USE, OR TRANSFER UNDER THE LICENSE	I (a) DHYCICAL CODAL (Table 4) (a) MA	YIMIM AMOUNT AT			
	(b) FATSICAL FORM (Including (b) MA	NE TIME (in pounds)			
NATURAL URANIUM					
UR WIUM CEPLETED IN Uranium	Sealed Sources 2	00 lbs.			
THE U-235 ISOTOPE Uranium	powder 2	00 lbs.			
Thorium dioxide	Unsealed Discs 1	00 lbs.			
Thorium dioxide	Sealed Sources3	00 lbs.			
DESCRUE THE CHEMICAL, PHYSICAL, METALLURGICAL, O BE USED, INDICATING THE MAXIMUM AMOUNT OF SOURC A THOROUGH EVALUATION OF THE POTENTIAL RADIATION	DR NUCLEAR PROCESS ON PROCESSES IN WHICH THE DE MATERIAL INVOLVED IN EACH PROCESS AT ANY O N HAZARDS ASSOCIATED WITH EACH STEP OF THOSE	SOURCE MATERIAL WILL VE TIME AND PROVIDING PROCESSES.			
	· · · · · · · · · · · · · · · · · · ·				
See attach	hment #1				
See attach	hměnt #1				
See attach	hment #1				
See attack	hment #1	L BE REQUIRED OF AT-			
10 DESCRIBE THE MINIMUM FECHNICAL QUALIFICATIONS PLICANT'S SUPERVISORY PERSONNEL INCLUDING PERS APPLICANT IS AN INDIVIDUAL).	INCLUDING TRAINING AND EXPERIENCE THAT WILL INCLUDING TRAINING AND EXPERIENCE THAT WILL IN RESPONSIBLE FOR RADIATION SAFETY PROCHA	L BE REQUIRED OF AF-			
See attack	hment #1	L BE REQUIRED OF AF-			
See attack	hment #1	L BE REQUIRED OF AF-			
See attack	hment #1	L BE REQUIRED OF AP-			
See attack	hment #1	L BE REQUIRED OF AP-			
10. DESCRIBE THE MINIMUM FECHNICAL QUALIFICATIONS PLICANT'S SUPERVISORY PERSONNEL INCLUDING PERS APPLICANT'S SUPERVISORY PERSONNEL INCLUDING PERS APPLICANT IS AN INDIVIDUAL). See attact II DESCRIBE THE EQUIPMENT AND FACILITIES WHICH WILL AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES AND HELATE THE USE OF THE EQUIPMENT AND FACILITIES AND HELATE THE USE OF THE EQUIPMENT AND FACILITIES IN HELATE THE USE OF THE EQUIPMENT AND FACILITIES AND HELATE ON THUMENTS (INCLUTING HIM DAYS).	hment #1 INCLUDING TRAINING AND EXPERIENCE THAT WIL INCLUDING TRAINING AND EXPERIENCE THAT WIL INCLUDING TRAINING AND EXPERIENCE THAT WIL INCLUDE FOR RADIATION SAFETY PROGRA hment #2 BE USED TO PROTECT HEALTH AND MINIMIZE DANG FOR OFFCATIONS LIGTED IN ITEM 9. INCLUDE 1 ters, counters, air sempling, and other survey equipment as as acternatics such as type of radiation directed, window thickney	EN TO LIFE OR PHOPLICANT IF a) RADIATION DE IESTION propriate. The description of N, and the range(s) of each in-			
See attach	hment #1 INCLUDING TRAINING AND EXPERIENCE THAT WIL INCLUDING TRAINING AND EXPERIENCE THAT WIL INCLUDING TRAINING AND EXPERIENCE THAT WIL INCLUDE FOR RADIATION SAFETY PROGRA hment #2 hment #2	EN TO LIFE OR PHOPLY TY a) RADIATION DE ILL TION propriate. The description of and the range(3) of each the			
See attach	hment #1 INCLUDING TRAINING AND EXPERIENCE THAT WIL INCLUDING TRAINING AND EXPERIENCE THAT WIL INCLUDE FOR RADIATION SAFETY PROGRA hment #2 hment #2 hment #2	EN TO LIFE OR PHOPHINT IF ST OLIFE OR PHOPHINT IF EN TO LIFE OR PHOPHINTY a) RADIATION DEFILS TION propriate. The description of and the range(s) of each the			
See attack	hment #1 INCLUDING TRAINING AND EXPERIENCE THAT WIL INCLUDING TRAINING AND EXPERIENCE THAT WIL INCLUDING TRAINING AND EXPERIENCE THAT WIL INCLUDE FOR RADIATION SAFETY PROGRA hment #2 hment #2	L BE REQUIRED OF AF- MI, OR OF APPLICANT IF EN TO LIFE OR PHOPERTY a) RADIATION DEFECTION propriate. The description of M and the range(s) of each in-			
10. DESCRIBE THE MINIMUM TECHNICAL QUALIFICATIONS PLICANT'S SUPERVISORY PERSONNEL INCLUDING PERS APPLICANT IS AN INDIVIDUAL). 11. DESCRIPTION THE EQUIPMENT AND FACILITIES WHICH WILL AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES MILL TO INSTRUMENT Should include the instrument chara entropy of the instruments should include the instrument chara strument). (b) METHOD EMULUENCY, AND STANDARUS USED IN C. EQUIPMENT for film balace, specify method calibrating and	ALIG PATING INSTRUMENTS LISTED IN (a) ABOVE. IS not provide and supplier).	EN TO LIFE OR PHOPERTY a) RADIATION DEFECTION propriate. The description of and the range(s) of each in-			
10. DESCRIBE THE MINIMUM FECHNICAL QUALIFICATIONS PLICANT'S SUPERVISORY PERSONNEL INCLUDING PERS APPLICANT IS AN INDIVIDUAL). 11. DESCRIDE THE EQUIPMENT AND FACILITIES WHICH WILL AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES WHICH WILL AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES WHICH WILL AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES WHICH WILL AND RELATE THE USE OF THE EQUIPMENTS INCLUSION FACE INTERNATION INSTRUMENTS SHOULD INCLUSE AND FACE INTERNATION INSTRUMENTS SHOULD INCLUSE USED IN G EQUIPMENT (FOR SUPERIES, Specify method of allbrating as CON BETTING	INCLUDING TRAINING AND EXPERIENCE THAT WIL INCLUDING TRAINING AND EXPERIENCE THAT WIL ION RESPONSIBLE FOR RADIATION SAFETY PROGRA hment #2 BE USED TO PROTECT HEALTH AND MINIMIZE DANG ref, counters, air sempling, and other survey equipment as ap acternatics such as type of radiation detected, window thicknes hment #2 ALIGNATING INSTRUMENTS LISTED IN (A) ABOVE. IS all processing, or name supplier).	EN TO LIFE OR PHOPLATY a) RADIATION DETECTION propriate. The description of the range(s) of each the ALLIDING AIR SAMPLING			
10. DESCRIBE THE MINIMUM FECHNICAL QUALIFICATIONS 11. DESCRIBE THE MINIMUM FECHNICAL QUALIFICATIONS PLICANT'S SUPERVISORY PERSONNEL INCLUDING PERSONPEL INCLUDING PERSON APPLICANT IS AN INDIVIDUAL). 11. DESCRIBE THE EQUIPMENT AND FACILITIES WHICH WILL AND HELATE THE LOUIPMENT AND FACILITIES WHICH WILL AND HELATE THE LOUIPMENT AND FACILITIES WHICH WILL AND HELATED IN. THOMENTS (Including film badges, dosing) rediation detection instruments should include the initrument characteristic Itrument). See attact (b) METHOD FREquency, AND STANDARUS USED IN C. Equipments if for film badges, specify method of culibrating and See attact	hment #2 ALIGNATING INSTRUMENTS LISTED IN (A) ABOVE IS ALIGNATING IN ALIGNATING IN ALIGNATING IS ALI	EN TO LIFE OR PHOPLATY A COLIFE OR PHOPLATY A RADIATION DEIDETION propriate. The description of and the range(3) of each in-			

Page 2 See attachment #1 THE MILE PROPERTY AND PROCEDURES TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE AND PROPERTY AND RELATE THESE PRO-CARDALS TO THE UPERATIONS LISTED IN ITEM 1: INCLUDE: (a) SAFETY FEATURES AND PROCEDURES TO AVOID NONNUCLEAR ACCI-DENT - SUCH AS FIRE, EXPLOSION, ETC., IN SOURCE MATERIAL STORAGE AND PROCESSING AREAS. See attachment #1 (A) LINE HOENCY PROCEDURES IN THE EVENT OF ACCIDENTS WHICH MIGHT INVOLVE SOURCE MATERIAL See attachment #1 (c) DETAILED DESCRIPTION OF RADIATION SURVEY PROGRAM AND PROCEDURES. See attachment #1 1) WASTE PRODUCTS: If none will be generated, state "None" opposite (a), below. If waste products will be generated ated, check here i and explain on a supplemental sheet: (a) Quantity and type of radioactive waste that will be generated. See attachment #2 (b) Detailed procedures for waste disposal. 14 IF PRODUCTS FOR DISTRIBUTION TO THE GENERAL PUBLIC UNDER AN EXEMPTION CONTAINED IN 10 CFR 40 ARE TO BE MANUFACTURED, USE A SUPPLEMENTAL SHEET TO FURNISH A DETAILED DESCRIPTION OF THE PRODUCT, INCLUDING: (a) PERCENT SOURCE MATERIAL IN THE PRODUCT AND ITS LOCATION IN THE PRODUCT. (6) PHYSICAL DESCRIPTION OF THE PRODUCT INCLUDING CHARACTERISTICS, IF ANY, THAT WILL PREVENT INHALATION OR INGESTION OF SOURCE MATERIAL THAT MIGHT BE SEPARATED FROM THE PRODUCT. (c) BETA AND BETA PLUS GAMMA RADIATION LEVELS (Specify instrument used, date of calibration and calibration technique used) AT THE SURFACE OF THE PRODUCT AND AT 12 INCHES. (d) METHOD OF ASSURING THAT SOURCE MATERIAL CANNOT BE DISASSOCIATED FROM THE MAN UFACTURED PRODUCT. CERTIFICATE (This item must be completed by applicant) 15. The applicant, and any official executing this certificate on behalf of the applicant named in Itum 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 40, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief. ••• (Applicant named in Item 2) . ÷ • • Dated BY: ____ (Print or type came under signature) Tille of certifying official authorized to act on behalf of the apple ant WARNING: 18 U.S.C. Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false state-ment or representation to any department or agency of the United States as to any matter within its jurisdiction 2861



GENERAL 🛞 ELECTRIC

SPACE DIVISION VALLEY FORGE SPACE CENTER P.O. BOX 8555 PHILADELPHIA PA. 19101

SUBJECT

RADIOLOGICAL PROCEDURES

August 25, 1969

T. P. Handley, Manager Security, Safety and Plant Protection Room M1140 Valley Forge

The following procedures should be followed when working with depleted uranium or materials containing depleted uranium:

1) All programs must be reviewed and approved by the Ionizing Radiation Advisory Group prior to the start of any work with radioactive materials.

CORIFS

- <u>Receiving</u> All radioactive materials, including uranium, should be marked with an appropriate shipping tag. Receiving segregates all radioactive materials upon arrival and notifies Health Physics. Health Physics takes a radiation and contamination survey before delivery to the user.
- 3) <u>Storage</u> Radioactive materials must be stored in a locked, properly posted room or locker which has been approved by the Health Physicist. Periodic contamination surveys are taken of the storage areas.
- 4) <u>Mixing</u> When working with uranium in powder form, proper contamination procedures must be followed. All work must be performed in a hood which has been checked annually to assure air flow is at least 100 linear feet per minute. All users must wear proper protective clothing which will include gloves and lab coat. Film badges are worn by all personnel involved in this procedure. Periodic contamination surveys are taken to assure contamination controlled. All waste materials are disposed as radiological waste.
- 5) <u>Manufacturing</u> Manufacturing work with uranium must be performed in a properly posted room. Contamination is to be controlled by papering table tops, etc., and use of disposable gloves and lab coats. Work in a hood is



GENERAL 🍪 ELECTRIC

T. P. Handley

August 25, 1969

recommended but not required. All waste materials are disposed as radiological waste and periodic contamination surveys are taken.

- 6) Inspection Minimal contamination control is required for this job. All inspectors should wear gloves when handling uranium. Periodic contamination surveys are taken.
- 7) <u>Shipping</u> All radioactive materials, including depleted uranium, should be marked with an appropriate shipping tag before shipment. Health Physics must take a radiation and contamination survey to assure all radiological shipping regulations are met.

8) Miscellaneous Suggestions:

- a) The maximum amount of material to be handled at any one time should not exceed fifty (50) pounds.
- b) The material should not be transported, carried or shipped to any location except by using proper shipping procedures.
- c) Operations causing contamination levels high enough to require a respirator should not be allowed. All high level contamination must be controlled by hoods with positive air flow.
- d) All personnel actively engaged in uranium work should be trained in the problems involved when working with radioactive materials.
- 9) Emergency Procedure:
 - a) An emergency is defined as a spill involving the spread of uranium dust.
 - b) The immediate response of all personnel in the area is to hold their breath and leave the room.
 - c) The Health Physicist or Safety Office should be called for assistance.
 - d) While waiting for assistance, all involved personnel should:
 - 1) Limit the spill to the room (i.e., close all doors, etc.)
 - 2) Remain in one area to limit spread of contamination.

GENERAL 🛞 ELECTRIC

T. P. Handley

•

2861

- e) The Health Physicist or his designee will direct all subsequent operations. He will:
 - 1) Survey the area and evaluate the extent of the emergency.

3

- 2) Survey all personnel involved.
- 3) Supervise decontamination of all personnel, if necessary.
- 4) Supervise decontamination of the room.

R. O. McClintock Health Physicist Room M1020, Valley Forge Ext. 5926

/dmf

ATTACHMENT #2

Supervisors of workers using radioactive materials must be approved by the Ionizing Radiation Advisory Group (IRAG). Members of the IRAG include:

<u>Chairman</u> - T. P. Handley - Manager, Security, Safety and Plant Protection Secretary - R. O. McClintock - Health Physicist

Member - Dr. R. Panaro - Physician

The minimum technical qualifications for supervisory personnel for source material include U. S. Department of Health, Education and Welfare course in Basic Radiological Health or equivalent, supervisory responsibility at GE and past experience in handling radioactive materials.

The person responsible for the Radiation Safety Program will be the Health Physicist, R. O. McClintock. His resume is attached.

Attached is a partial list of Health Physics instruments available for monitoring source materials. Calibration methods are also attached. Film badge service is supplied by R. S. Landauer, Jr. & Co., 103 Bayard Street, New Brunswick, New Jersey.

Waste Disposal services are supplied by Radiological Service Co., 50 Van Buren Avenue, Westwood, New Jersey.

ATTACHMENT 2a	n de la company Recepción de la company Recepción de la company				
Type of Instrument	Number Available	Radiation Detected	Sensitivity	Window Thickness	Use
Victoreen Model 440	1	Beta Gamma	0-300mr/hr	1mg/cm ²	Surveying & Measuring
Eberline Pac-46	2	Alpha (adaptable fo	0-5000,000 c/m r	0.85mg/cm ²	Monitoring & Surveying
		low-energy beta)			
Eberline Model E-120	2	Beta Gamma	0-50mr/hr	30mg/cm ²	Measuring
Nuclear Measurements Corp. Model GS-3	2	Beta Gamma	0-20mr/hr	30mg/cm ²	Measuring
•					
Nuclear Measurements Corp. Model PC-3T	2	Alpha, Beta		Flow counter	Surveying to count
	•			•	smears and air samples
Staplex Air Sampler	2				Air sample counted on PC-3T
Gast Air Pump (Wattman 41 filter)	1				Air sample coun, A
		n de la construcción de la constru A			on PC-3T ="
Eberline (AIM-3)	2	Alpha	0-1000 c/m	1 mg/cm 2	Air Monitoring

ATTACHMENT 2b

- The Victoreen Model 440, Eberline Model E-120, and Nuclear Measurements Corporation Model GS-3 are calibrated using a 36 mc Cobolt-60 source. The instruments are calibrated yearly and spot-checked as needed.
- 2) The Eberline Pac-46 and the Nuclear Measurements Corporation Model Pc-3T are calibrated using a 0.2 uc Carbon 14 source and a 8×10^{-4} uc Plutonium 238 source. The instruments are calibrated weekly.

Application For Byproduct Material License

8. Type of Training

Ъ.

Ċ,

d...:

a. University of Rochester and Brookhaven Nat'l Lab.

9. Experience With Radiation

	Isotope	Max. Amount	Experience	Duration	Type of Use
	m.f.p.		Brookhaven Nat'l Lab.	7 years	Fission product from Reactor fuel
	Tritium	10 ³ Ci	H.	3 years	Reactor Coolant
	all isotopes	C amounts	<u>i i</u>	7 years	Activation product
0	Pu 238	>10,000 C	GE Co.	l year	SNAP RTG
	all is otopes	mc amounts	H	l year	Isotope usage

Page 2

ATTACHMENT #3

TO: Frank Witt 🚽

SUBJECT: Health Physics Procedures Work-With Thorium Dioxide

The following radiation safety procedures mustibe followed

whenever working with Thorium, either as a sealed source or Thorium Oxide discs.

- 1. <u>Approval</u> All programs involving radioactive materials must be reviewed and approved by the Ionizing Radiation Advisory Group prior to the start of any work.
- 2. <u>Receiving</u> All radioactive materials should be marked with an appropriate shipping label and must be addressed to the attention of the Health Physicist, H.P. will make the necessary radiation and contamination surveys before delivery to the user.
- 3. <u>Storage</u> Radioactive materials must be stored in a locked, properly posted room or locker which has been approved by the Health Physicist: Only personnel approved by H.P. as isotope handlers can remove radioactive material from these areas. Periodic contamination surveys will be taken of the storage areas.
- 4. <u>Handling Thorium Dioxide Discs (0-6+lbs per disc)</u> All handling of the Thorium Dioxide discs must be under the cognizance of the Health Physicist. Routine contamination procedures for low level radioactive materials will be followed. All chips, broken pieces or dirt from the discs must be cleaned up immediately. Any destructive testing, cutting, grinding, sawing, etc., must be performed in a hood with a H.P. approved filtration system. Routine contamination surveys will be taken by H.P.

Page - 2 -

Impact Testing of Sealed Sources - All impact testing of sealed sources must be performed at the Morgantown Test Facility under the cognizance of the Health Physicist. No more than six (6) pounds can be tested during any one test. The test area must be located within a closed building equipped with an absolute filter on its air exhaust system. Personnel will evacuate the test area during the test. The H.P. or his representative will make contamination surveys before allowing personnel to reenter the test area (surveys will use the AIM-3 continuous air monitors PAC 46 alpha probes and smear surveys counted on a PC3T flow counter). Routine radiological safety procedures for handling the sealed sources will be followed. The test group will keep an inventory at all sources.

5.

7.

- 6. Shipping - All radiological materials must be shipped according to Department of Transportation regulations. Shipment by private vehicles will be discouraged. H.P. will take radiation and contamination surveys to assure that all radiological shipping regulations are met.
 - Emergency Plan Thorium Dioxide An emergency involving ThoriumOxide is defined as the spread of contamination due to chipping, breaking or similar actions on the discs. The isotope user should don gloves and clean up the area as well as possible. Personnel who might be contaminated should remain near the area until they are cleared by a H.P. survey. A complete contamination survey and cleanup will be conducted under the direction of the Health Physicist.

Emergency Plan - Impact Test - An emergency during the impact test is defined as a rupture of a sealed source involving the release of Thoria contamination. The contamination will be discovered by the H.P. surveys prior to entry by test personnel. A decontamination team will don respirators (if needed) and protective clothing and enter the test area, Cleanup will follow standard procedures. Since the amount per test is small (~ 6 lbs) and the air is evacuated through an absolute filter, contamination will be confined to the test area.

> Robert, O. McClintock R. O. McClintock Health Physicist

ATTACHMENT #4

JORDAN S. DAVIS

EDUCATION:

- BS in Pharmacy Philadelphia College of Pharmacy and Science 1.

 - MS in Radiological Health Temple University School of Pharmacy 1965 (U.S. Public Health Service Fellowship)

ette

b)(6)

- a di care di langa
- U.S. Department of Health, Education and Welfare; Division of Radiological 3. Health - Training courses in:
 - Applied Radiation Protection § a |
 - b. Management of Radiation Accidents

EXPERIENCE :

- 1964 1969 Radiation Health Physicist for the Pennsylvania Department of Health - Primary responsibilities were in evaluating and the conducting compliance inspections of the users of radiation sources within the Commonwealth. Since I was responsible for radiation protection services for one-third of the State, I have also acted as a consultant for the management of radiation accidents occurring in this area.
- 1969 Present Specialist - Radiation Protection - Responsible for all Health Physics activities at General Electric, Re-entry & Environmental Systems Division.

APPLICATION FOR BYPRODUCT LICENSE

8. Type of Training

- a) Temple University and USPHS Training Courses
- b) Temple University and USPHS Training Courses
- Temple University and USPHS Training Courses **c**)
- d) Temple University and USPHS Training Courses

Experience with Radiation 9.

	Isotope	Max, Amount	Experience	Duration	Type of Use
			在这些"你的意思。"		
	Any Byproduct	🖌 100 mCi	Pa. Dept.	5 yrs.	Inspection &
	Material	计算机的 在 这个问题	of Health		Emergency
	Radium	< 200 mCi	Pa, Dept.	5 yrs.	Inspection &
í.			of Health		Emergency