10 CFR 40	APPLICATION	ENSE	APPROVED BY OMB 3150-0019 EXPIRES 12-31-83		
		itions, Chapter 1, Part 40, application is here ial for the activity or activities described.	by made for a licer	ase to receive, possess, use,	
	ENO. SUC-753	TECHNIWELD INC. PRINCIPAL BUSINESS ADDRESS 6001 Breakwater Ave Cleveland, OH 44102	1	201 49 59 -/	
6001 Breakwat Cleveland, Ob	H 44102		Date : -	9/27/85	
4. NAME OF PERSON TO BE CON APPLICATION HOW 27	A R. Irwin	412-655-3737		ed)	
6. STATE THE TYPE OR TYPES, POSSESS, USE, OR TRANSFER		MS. AND QUANTITIES OF SOURCE MAT C. PHYSICAL FORM (Inc. % U or Th)	luding D. MA		
POSSESS, USE, OR TRANSFER	UNDER THE LICENSE	C. PHYSICAL FORM (Inc	luding D. MA	XIMUM AMOUNT AT AN	
POSSESS, USE, OR TRANSFER	UNDER THE LICENSE	O.2% machined	luding D. MA	XIMUM AMOUNT AT AN	
POSSESS, USE, OR TRANSFER A. TYPE NATURAL URANIUM URANIUM DEPLETED IN THE U-235 ISOTOPE	B. CHEMICAL PO	RM C. PHYSICAL FORM (Inc. % U or Th)	luding D. MA	XIMUM AMOUNT AT AN ONE TIME (Kilograms)	
POSSESS, USE, OR TRANSFER A. TYPE NATURAL URANIUM URANIUM DEPLETED IN THE U-238 ISOTOPE THORIUM (Isotope)	B. CHEMICAL PO	O.2% machined	l plated	XIMUM AMOUNT AT AN ONE TIME (Kilograms)	

DESCRIBE THE EQUIPMENT AND FACILITIES WHICH WILL BE USED TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE OR PROPERTY AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES TO THE OPERATIONS LISTED IN ITEM 9: INCLUDE: A. RADIATION DETECTION (including film badges, dosimeters, counters, air sampling, and other survey equipment as appropriate, the description of radiation detection instruments should include the instrument characteristics such as type of radiation detected, window thickness, and the range(s) of each instrument).

None required

B. METHOD, FREQUENCY AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED IN A. ABOVE, INCLUDING AIR SAMPLING EQUIPMENT (for film badges, specify method of calibrating and processing, or name supplier).

Not applicable

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PDR

CONTROL NO. 7 9 9 1 5

VENTILATION EQUIPMENT								
AND PROCEDURES FOR TE	STING SUCH E	DUIPMENT.						

None required

10. DESCRIBE PROPOSED PROCEDURES TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE AND PROPERTY AND RELATE THESE PROCEDURES TO THE OPERATIONS LISTED IN ITEM 7; INCLUDE: A. SAFETY FEATURES AND PROCEDURES TO AVOID NONNUCLEAR ACCIDENTS, SUCH AS FIRE, EXPLOSIONS, ETC., IN SOURCE MATERIAL STORAGE AND PROCESSING AREAS.

Storage vault is of fireproof construction. Manufacturing areas are fully sprinkled by an automatic system. Notification of fire dept. is automatic

B. EMERGENCY PROCEDURES IN THE EVENT OF ACCIDENTS WHICH MIGHT INVOLVE SOURCE MATERIAL

Notify Mr. Charles Fassinger, President, Techniweld Inc. Telephone home: 216-467-5820, business: 216-961-6015. He will determine the extent of damage and consult with Advanced Medical Systems personnel if necessary. In the event of a fire, inform firefighters of the location of depleted Uranium.

C. DETAILED DESCRIPTION OF RADIATION SURVEY PROGRAM AND PROCEDURES.

No program required.

11. WASTE PRODUCTS

- A QUANTITY AND TYPE OF RADIOACTIVE WASTE THAT WILL BE GENERATED
- NONE WILL BE GENERATED
- SEE ATTACHED SUPPLEMENTAL SHEET
- B. DETAILED PROCEDURES FOR WASTE DISPOSAL
- 12. IF PRODUCTS FOR DISTRIBUTION TO GENERAL LICENSEES OR 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.
- B. 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 techniques used) AT THE SURFACE OF THE PRODUCT AND AT 12 INCHES.
- D. METHOD OF ASSURING THAT SOURCE MATERIAL CANNOT BE DISASSOCIATED FROM THE MANUFACTURED PRODUCT.

13. CERTIFICATE (This must be completed by the applicant)

The applicant and any official executing this certificate on behalf of the applicant named in item 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 to the best of our knowledge and belief.

APPLICANT & BIGNATURE CHARLES R. FRSSINGER 10.7-85

PRESIDENT

TITLE OF CERTIFYING OFFICIAL AUTHORIZED TO ACT ON BEHALF OF THE APPLICANT

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 statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

7. Techniweld is a vendor of Advanced Medical Systems, Inc. which manufactures teletherapy equipment. Techniweld is involved in the machine head manufacturing process. The company performs a number of welding and machining operations on the head castings and shutter plug and rotor assemblies. The depleted Uranium which is the subject of this license is received in the form of finished castings, already machined, drilled and nickel plated by another vendor.

The depleted Uranium parts range in size from 6.6 Kgs. to a maximum of 107 Kgs. They have been designed for use as shielding material. The parts, in the form received and in the quantities requested, present no hazard to personnel or property.

The parts are received in closed containers, properly marked with the radiation symbol and 'Caution Radioactive Material' warning. At the time of receipt, verification of the part type and quantity is made. The quantity received is that required to complete the customer's order. Techniweld does not desire to provide long term storage of depleted Uranium for its customer.

Until the components are needed in the manufacturing area, they are stored in their containers inside a fireproof vault, which has limited access. As needed, they are removed from this storage area and taken to the manufacturing areas. Gloves are worn when direct handling of the parts is necessary. The parts are secured within either the head castings or the shutter plug and rotor assemblies, then the subassembly is sent to another vendor for lead filling. After lead pouring, the subassemblies are returned to Techniweld (the depleted Uranium components are now encased in lead) for final machining. The depleted Uranium parts are not modified in any way by Techniweld personnel, nor are they subjected to any welding or machinery operations.