13 8		001111111111111111111111111111111111111	APPLICATION FOR: (Check and/or complete as appropriate)			
	APPLICATION FOR	BYPRODUCT MATERI	IAL LICENSE	a. NEW LICENSE		
See	attached instructions for details.			b. AMENDMENT TO		
Com	pleted applications are filed in du	iplicate with the Division of F		13-02841-03		
Wash	e of Nuclear Material Safety, and ington, DC 20555 or application 'H Street, NW, Washington, D. C	s may be filed in person at the	e Commission's office at	c. RENEWAL OF:		
2. Af	PPLICANT'S NAME (Institution, for	irm, person, etc.)	3. NAME AND TITLE OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION Mr. Boyd Wear, Project Engineer TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION (219) 267-8111 5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED (Include Zip Code)			
T	he Dalton Foundries,	Inc.				
	EPHONE NUMBER: AREA COD	E - NUMBER EXTENSION				
4. AF	PLICANT'S MAILING ADDRESS ddress to which NRC corresponder ould be sent.)					
	O. Box 1388 rsaw, IN 46580		Lincoln & Jefferson Streets Warsaw, IN 46580			
	(IF MORE SPACE IS		USE ADDITIONAL PROPER			
6. 11	NDIVIDUAL(S) WHO WILL U	SE OR DIRECTLY SUPER	VISE THE USE OF LICENSES	DMATERIAL		
- 13	FULL NA			TITLE		
a. Bo	oyd A. Wear		Project Engineer			
b. Ja	ames A. Priser		Electrical Supervisor			
- Te	om Flees, Melt. Supt.	d. Gallentine	Safety Manager			
7. R	ADIATION PROTECTION OFFICichard A. Gallentine		Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.			
	iciala A. Gallerelle	8. LICENSE	D MATERIAL			
LINE	ELEMENT AND MASS NUMBER	CHEMICAL AND/OR PHYSICAL FORM	NAME OF MANUFACTURES AND MODEL NUMBER (If Sealed Source)	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME		
NO.	A	8	С	0		
(1)	Cesium-137	Sealed Source	3M Model 4F6S or	One (1) source not to exceed 5000 milli-		
(2)			3M Model 4F6P	Curies.		
(3)						
(4)						
	DESCRIBE USE OF LICENSED MATERIAL					
(1)	For use in a Ronan Model X-90-SA-1 Source Holder for a non-contact level measure-					
(2)	ment.		The second was the second			
	4100470 BECE10		License Fee Information			
8506100470 850510 REG3 LIC30 13-02841-04 PDR		6/27/83 tt., 15186				
(4)	A NRC 313 I (3-80)		THE PARTY OF THE P	Cantral No. 7 5 2 4 1		

Control No. 7 5 8 4 1

		9	. STORAGE OF	SEALED SOURCE	ES	N. N. S.
Z = Z	CONTAINER AND/OR DEVICE IN WHICH SOURCE WILL BE STORED OR USED.		ACH SEALED	NAME OF MANUFACTURER B.		MODEL NUMBER
(1)	Storage in Gaging Device Only		у	Ronan Engineering Company		X-90-SA-1
(2)						
(3)						
(4)						2134
		10 RA	DIATION DETE	CTION INSTRUM	ENITO	1
	10. RADIATION DETEC			NUMBER	RADIATION	SENSITIVITY
J-ZW0	OF INSTRUMENT	NAME	NUMBER	AVAILABLE	DETECTED (alpha, beta, gamma, neutron)	RANGE (milliroentgens/hour or counts/minute)
	A	В	С	0	E	F
(1)	None Required	- Ronan Repres	entative wi	ll place gage	in service and	make initial
2)	survey and wi	pe test				
3)					tame to the	
4)						
		11. CALIBRA	ATION OF INST	RUMENTS LISTED	IN ITEM 10	
	N/A			TORING DEVICES		EXCHANGE FREQUENC
(Check and/or complete as appropriate.)		as appropriate,)	(Service Company)			С
(1) FILM BADGE			None Required. Radiation levels will be less than 5 mR/hr at 1 ft. and 100 mR/hr field is not present. Personnel occupancy in gage vicinity less than 10%.			MONTHLY
(2) THERMOLUMINESCENCE DOSIMETER (TLD)						QUARTERLY
(3) OTHER (Specify):						OTHER (Specify):
_	13. FACILITIES A	ND EQUIPMENT (Ch	eck were approp	riate and attach ann	notated sketch(es) and	description(s).
] b.	STORAGE FACILITIES	LITIES, PLANT FACILI ES, CONTAINERS, SPEC TOOLS OR EQUIPMEN ECTIVE EQUIPMENT, S	TAL SHIELDING			
_ U.	HESTINATURT PROT	ECTIVE EQUIPMENT,	14. WASTE			
NA	ME OF COMMERCIAL	WASTE DISPOSAL SER	VICE EMPLOYED			
BE	USED FOR DISPOSING	G OF RADIOACTIVE W	NOT EMPLOYED	SUBMIT A DETAIL	E AND AMOUNT OF AC	METHODS WHICH WILL STIVITY INVOLVED, IF
		ned to Ronan for				

INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

- 15. RADIATION PROTECTION PROGRAM. Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bicassay procedures (if needed), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.
- 16. FORMAL TRAINING IN RADIATION SAFETY. Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.
 - a. Principles and practices of radiation protection.
 - b. Radioactivity measurement standardization and monitoring techniques and instruments.
 - c. Mathematics and calculations basic to the use and measurement of radioactivity.
 - d. Biological effects of radiation.
- 17. EXPERIENCE. Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or onthe-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

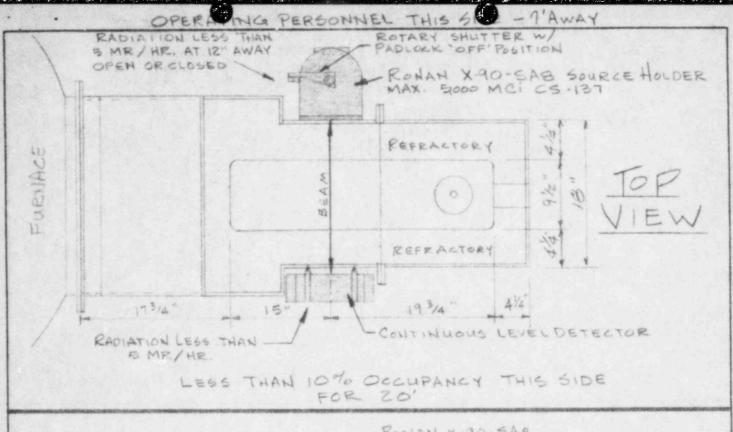
18. CERTIFICATE

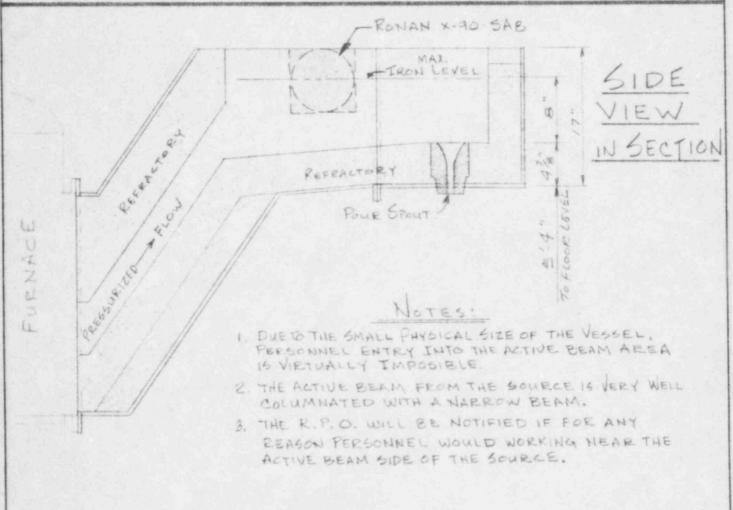
(This item must be completed by applicant)

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 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

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.

LICENSE FEE REQUIRED (See Section 170.31, 10 CFR 170)	b. DERT FYING OFFICIAL (Signature)		
Amendment Fee is \$40.00. Send check with application.	C. NAME (Type or print) Don I. Brown		
(1) LICENSE FEE CATEGORY: Amendment	d. TITLE Secretary-Treasurer		
(2) LICENSE FEE ENCLOSED: \$ 40.00	e. DATE 6/24/83		





THE DALTON FOUNDRIES INC.

DATE 6-24-83 BY T. 2. H. SUBJECT DISA AUTO POUR NUCLEAR UNIT PART NO.

ITEM 14

WASTE DISPOSAL

Whenever the source holder is no longer needed, it will be either:

- removed and stored in a locked room, properly labeled. It will not be replaced in service without prior leak testing, or
- 2. removed and returned to the manufacturer for disposal.

In either case, the services of the manufacturer's representative will be obtained to supervise removal, reinstallation, and/or packaging for return to the manufacturer.

I T E M 15

RADIATION PROTECTION PROGRAM

Instruction for the safe use of this device will be provided by a Ronan Engineering Company representative at the job site. A radiation protection program as outlined by Ronan will be followed, and the Radiation Protection Officer will be apprised of necessary safety procedures.

Control measures:

- a. The source holders will be received and stored pending arrival of Manufacturer's Field Engineer. The source holders will be installed in the closed position under the supervision of the representative. A written procedure for prevention of entry into the vessel when the source is in the open (source exposed) position will be prepared. This program will be developed in consultation with the manfacturer's representative.
- b. The initial radiation survey will be made by the representative at the time of placing the device in service. An occupancy evaluation will be made by the representative and should film badges appear to be required they will be obtained. Form NRC-3 will be posted and should the radiation survey with the vessel(s) empty reveal radiation fields in excess of 5 mr/hr at 12 inches from the surface of the vessel(s) appropriate warning signs will be posted. Procedures will be adjusted to reduce the total dose to personnel to the minimum reasonably achievable. A copy of the radiation survey and written procedures will be kept on file for future reference.
- c. In case of emergency such as fire or explosion involving apparent damage to the source holder the appropriate Regional Office of Inspection and Enforcement (10 CFR 20 Appendix D), USNRC will be contacted for assistance. The area around the source holder will be barricaded. The services of a manufacturer's representative will be obtained to assist in inspection for damage and local health authorities will also be notified.
- d. Leak test procedure A test will be performed on the surface of the source holder every six months by the individual user listed in Item 16 of the application in accordance with the instructions of the manufacturer's representative and contained in the gage instruction manual. The wipe test kit to be used is the Ronan Model WK and the wipe will be evaluated for leakage by Ronan Engineering. Should the presence of 0.005 microcuries of removable contamination be detected, the source holder will be withdrawn from service, the Regional Office of the USNRC notified, and the device repaired or replaced by the manufacturer.

ITEM 16

FORMAL TRAINING IN RADIATION SAFETY

One to two days of training by a Ronan Field Engineer at the jobsite during the startup of the gage.

In addition, see attached current license acknowledging Mr. Richard Gallentine as an approved Material Supervisor.

ITEM 17

EXPERIENCE

List previous experience, if any. See attached current license.