

37-7676-1

Beryllium
J.O. 7714

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| Form AEC-313 (5-58) | ATOMIC ENERGY COMMISSION APPLICATION FOR BYPRODUCT MATERIAL LICENSE | Form approved. Budget Bureau No. 38-R027.3. |
|------------------------|---|--|

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 three copies to: U. S. Atomic Energy Commission, Washington 25, D. C. Attention: Isotopes Branch, Division of Licensing and Regulation. 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.

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|--|---|
| 1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, etc.) | (b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (If different from 1 (a).) |
| BERYLLIUM CORPORATION P. O. BOX 375 HAZLETON, PA. | SAME |

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|---|---|
| 2. DEPARTMENT TO USE BYPRODUCT MATERIAL | 3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.) |
| ORE PROCESSING DEPARTMENT | |

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| 4. 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 9.) | 5. 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.) |
| JACK ROLLER - ELECTRICAL ENG. | RADIOLOGICAL SAFETY SERVICES WILL BE PROVIDED UNDER CONTRACT BY INDUSTRIAL NUCLEONICS CORP. OR OTHER QUALIFIED ORGANIZATION. |

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| 6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each.) | (b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYSICAL 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.) |
| Cesium 137. | One (1) sealed source containing 25 millicuries Cesium 137. Industrial Nucleonics Corporation Part No. BB-S-10053, to be used in Model IS-101-A source unit. |

RECEIVED
JUN 28 1961
I. N.

RECEIVED
JUL 27 1961
I. N.

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 model number of the storage container and/or device in which the source will be stored and/or used.)

Industrial Nucleonics' Corporation "AccuRay" Level Detector-Controller System Model IS-101-A.

"PERSONNEL ARE NOT SUBJECT TO POTENTIAL RADIATION EXPOSURE EXCEPT UPON ENTERING VESSEL. PROTECTION AGAINST THIS POTENTIAL HAZARD WILL BE AFFORDED BY JACK FREYTAG, WHO WILL BE RESPONSIBLE FOR CLOSING THE SOURCE SHUTTER BEFORE ALLOWING ANYONE TO ENTER THE BEAM OF RADIATION".

9707290068 970724
PDR FOIA
MALONEY97-224 PDR

36393
DUPLICATED
FOR DIV. OF COMPLIANCE

A14

TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM 4 (Use supplemental sheets if necessary)

| B. TYPE OF TRAINING | WHERE TRAINED | DURATION OF TRAINING | ON THE JOB (Circle answer) | FORMAL COURSE (Circle answer) |
|--|--|----------------------|-------------------------------|----------------------------------|
| a. Principles and practices of radiation protection | "SPECIALIZED TRAINING SUFFICIENT FOR GAUGE OPERATION IS PROVIDED BY INDUSTRIAL NUCLEONICS PERSONNEL AND IN- STRUCTION MANUALS" | | Yes No | Yes No |
| b. Radioactivity measurement standardization and monitoring techniques and instruments | | | Yes No | Yes No |
| c. Mathematics and calculations basic to the use and measurement of radioactivity | | | Yes No | Yes No |
| d. Biological effects of radiation | | | Yes No | Yes No |

9. EXPERIENCE WITH RADIATION. (Actual use of radioisotopes or equivalent experience.)

| ISOTOPE | MAXIMUM AMOUNT | WHERE EXPERIENCE WAS GAINED | DURATION OF EXPERIENCE | TYPE OF USE |
|---------|----------------|-----------------------------|------------------------|-------------|
| | | NONE | | |

10. RADIATION DETECTION INSTRUMENTS. (Use supplemental sheets if necessary.)

| TYPE OF INSTRUMENTS (include make and model number of each) | NUMBER AVAILABLE | RADIATION DETECTED | SENSITIVITY RANGE (mr/hr) | WINDOW THICKNESS (mg/cm ²) | USE (Monitoring, surveying, measuring) |
|--|------------------|--------------------|------------------------------|---|---|
| | | | | | |
| "NOT APPLICABLE: RADIOLOGICAL SAFETY SERVICES TO BE PERFORMED | | | | | |

11. METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED ABOVE.

BY INDUSTRIAL NUCLEONICS CORP.
OR OTHER AUTHORIZED ORGANIZATION

12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. (For film badges, specify method of calibrating and processing, or name of supplier.)

UNDER CONTRACT."

INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS

13. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remote handling equipment, storage containers, shielding, fume hoods, etc. Explanatory sketch of facility is attached. (Circle answer) Yes No NOT APPLICABLE

14. RADIATION PROTECTION PROGRAM. Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing procedures where applicable, name, training, and experience of person to perform leak tests, and arrangements for performing initial radiation survey, servicing, maintenance and repair of the source. "SOURCE INSPECTION WILL BE PERFORMED BY INDUSTRIAL NUCLEONICS CORPORATION PERSONNEL"

15. WASTE DISPOSAL. If a commercial waste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved. NOT APPLICABLE

CERTIFICATE (This form must be completed by applicant)

16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE APPLICANT NAMED IN ITEM 1, 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.

THE BERYLLIUM CORPORATION

Applicant named in item 1

DATE 27, 1961 BY T.R. Blessing

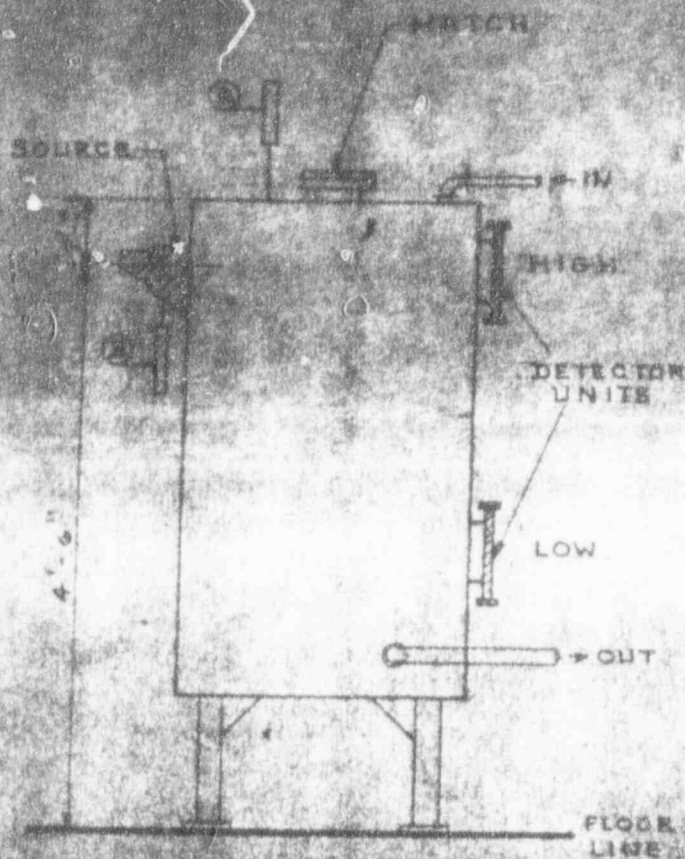
AUG 3 - 1961 R. BLESSING

U.S.A.E.C. GENERAL PURCHASING AGENT

Isotopes Branch Title of certifying official

Div. of L & R

WARNING.—18 U.S.C. Section 1001; Act of June 25, 1948, 62 Stat. 769, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States or to any matter within its jurisdiction.



WARNING SIGNS

- 1 DO NOT ENTER TANK UNLESS
CLEARED BY A QUALIFIED MAINT
ENGINEER
- 2 CAUTION - LOCK SHUTTER IN
CLOSED POSITION BEFORE
ENTERING TANK

THE TITANIC CORP

DETAILED
VIEW

LOW

→ OUT

FLUID
LEVEL

WATER TIGHTNESS TEST
FOR LOW PRESSURE
SEALING TANK