APR 1 6 1968

DML: IB: JCM (01275)

Puerto Rico Testing
Services, Inc.
478 Ing. Jose A. Canals Street
Roosevelt, Eato Rey, Puerto Rico 00919

Attention: Mr. Efrahim Murstti President

Gentlemen:

In order to be authorized to perform industrial radiography under AEC regulations, it will be necessary for you to meet the requirements of Title 10, Code of Federal Regulations, Part 34 (10 CFR 34). Therefore, you should submit the following additional information to aid us in completing our evaluation of your request:

- A complete description of the operating and emergency procedures to be used in conducting your radiographic operations. (See Sections 34.11(c) and 34.32 of 10 CFE 34.)
- A description of the internal inspection system or other management control which you will be using in your operations. (See Section 34.11(d) of 10 CFR 34.)
- 3. A description of the overall organizational structure. (See Section 34.11(e) of 10 CFR 34.)
- 4. A more complete description of the training and experience of Messrs. Marcelino Torres and Fernando Sosa. (See Section 1.D of the enclosed AEC Licensing Guide on Industrial Rediography.)

When describing the experience of these men in the use of radioisotopes for radiography, you should include the inclusive dates during which the experience was obtained, the radioisotopes used, the activities of each isotope, the type of exposure device (make and model number where possible), the position (radiographer or radiographer's assistant) in which the experience was gained and the name and address and/or AEC license number of the organization at which the experience was gained.

9302240428 921007 PDR F01A APONTE92-328 PDR

Puerto Rico Testing Services, Inc. 5. The make and model number of the radiation detection instruments which you will use. Please note that under the canditions of Section 34.24 of 10 CFR 34 such instruments must have a range such that 2 mr/hr through 1 r/hr can be measured and each radiation survey instrument must be calibrated at intervals not to exceed 3 months. Enclosed are application forms AEC-313R which may be used for submitting this additional information. Very truly yours, James C. Malaro Isotopes Branch Division of Materials Licensing . Enclosures: 1. AEC-313R 2. 10 CFR 20, 30 & 34 3. Industrial Radiography Licensing Guide bcc: Standard Branch Distribution Compliance, Red Region II <

wm AEC-313 (5-58)

ATOMIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Budget Bureau No. 38-RD27 4

INSTRUCTIONS.-Complete Items 1 through 16 if this is an initial application. If application is for renewal of a license, com-INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application. If application is for renewal at 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 Man al 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.

1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital,

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

Puerto Rico Testing Services Inc. 478 Ing. Jose A. Canals St. Roosevelt, Hato Rey, Puerto Rico

Mobile Laboratory to be used at different tob sites.

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.)

None

Industrial Radiography

a INDIVIDUAL USERIS! (Name and title of individuals) who will use or directly 5 RADIATION PROTECTION OFFICER (Name of person designated as radiation pro supervise use of byproduct material. Give training and experience in Items 8 and

Marcelino Torres, M.T. Senior Radiographer

rection officer if other than individual user. Attach resume of his training and experience as in Items & and 9.)

> Fernando Sosa, Mechanical Engineer

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 PHYS ICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If seeled source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.]

Iridium 192

(1) One Iridium 192 sealed source 10 curies. Picker TO-532 Portable Industrial Unit Cat. 530230 with disconnectable control cables and storage chest.

7 DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct moterial 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 Radiography

020004042701275

Form AEC-313 (5-58) TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM 4 (Use supplemental sheets if necessary Page Twe B. TYPE OF TRAINING WHERE TRAINED DURATION OF ON THE JOB FORMAL COURSE TRAINING (Circle answer) (Circle onswer) a. Principles and practices of radiation Picker X-Ray Corporation Cleveland, Ohio (Industrial Div.) 3 wks. Yes b. Radioactivity measurement standardiza tion and maniforing techniques and in Same as above 3 wks. No Yes Nio c. Mathematics and calculations basic to the Same as above use and measurement of radioactivity 3 wice. Yes Yes No Same as above d Biological effects of radiation 3 WKB. _Yes_ Yes No 9. EXPERIENCE WITH RADIATION. (Actual use of radioisotopes or equivalent experience.) ISOTOPE MAXIMUM AMOUNT WHERE EXPERIENCE WAS GAINED DURATION OF EXPERIENCE 29 TYPE OF USE 60 10 curies rity (P.R.W.R.A.) P. R. Water Resources Autho-1950-1968 Industrial Testing Engineering Department 1 I Q RADIATION DETECTION INSTRUMENTS. (Use supplemental sheets if necessary. TYPE OF TRUMENTS make and made number of each) NUMBER RADIATION SENSITIVITY RANGE WINDOW THICKNESS AVAILABLE DETECTED USE (Monitoring, sorreying, measuring) (mg/rm²) GAMMA SURVEY METER Beta-.01 MICA Monitoring Surveying G.mma 2-4 mg/cm2 13, METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED ABOVE Atomic Energy Commission, Puerto Rico- One Curie Standard Source 12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. (for film bodges, specify method of solibrating and processing, or name of supplier.) GARDRAY Film Badges - Gardray Film Badge Service-Box 117-Burlington, Mass. 01803 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 Yes No 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, serv-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. CERTIFICATE (This item 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, 15 TRUE AND CORRECT TO THE BEST OF DUR KNOWLEDGE AND BELIEF. Puerto Rico Testing Services, Inc. Dote March 11, 1968 Wice-President Title of certifying official 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 opency of the United States as to any matter within its jurisdiction.

Form AEC-313 (5-58) Additional Sheet

13. Facilities and Equipment:

Standard remote handling and container equipment for this type and size of radioactive capsule (Iridium 192) for use only in case of emergency.

Standard storage chest supplied by Picker X-Ray Corporation (Cat. 530213) for use with Picker Iridium Unit TO-532.

14. Radiation Protection Program:

Unit will be under the continuous supervision and control of Mr. Marcelino Torres and Fernando Sosa, Mechanical Engineer, of Puerto Rico Testing Services. Leak testing procedures and radiation survey, servicing, maintenance and repair will be performed by Mr. Marcelino Torres. Please refer to enclosed documents.

15. Waste Disposal:

Used Iridium capsules will always be returned to Picker X-Ray Corporation for disposal by them (Technical Operations, Burlington, Mass. a subsidiary of Picker X-Ray Corporation), at the time a new Iridium capsule is sent by Picker for replacement of old capsule.