

MARTIN COMPANY

Baltimore 3,
Maryland

Mail No. 729

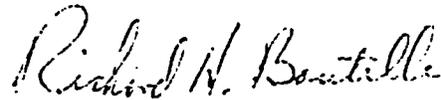
November 30, 1962

United States Atomic Energy Commission
Division of Licensing and Regulation
Washington 25, D. C.

Gentlemen:

Enclosed are three (3) copies of Form AEC 313 requesting an extension of Byproduct Material License No. 19-1398-22. You will note that we no longer have need to possess waste produced by the decontamination of the Facility since this material has been disposed of.

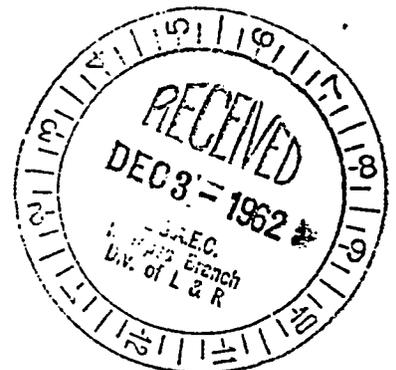
Yours very truly,



Richard H. Boutelle, Chief
Health Physics Section

RH:ebc

Enclosures: 3



THE AEROSPACE
DIVISION OF
MARTIN
MARIETTA

47995

B-15

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

INSTRUCTIONS. Complete items 1 through 16 if this is an initial application. If application is for renewal, complete only items 3 through 7 and indicate how information in items 1 through 7 has changed. If there are changes, attach supplemental sheets where necessary. Item 16 must be completed on all applications. Send this application to the Atomic Energy Commission, Washington 25, D.C. Attention: Isotope Branch, Division of Licensing and Regulation. Upon approval of 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 20 and the Rules and Regulations subject to Title 10, Code of Federal Regulations, Part 20.

<p>1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, etc.)</p> <p>Martin-Marietta Corporation Nuclear Division Baltimore 3, Maryland</p>	<p>(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (Indicate item 7 (a).)</p> <p>Radioactive Materials Laboratory Quehanna, Pennsylvania</p>
<p>2. DEPARTMENT TO USE BYPRODUCT MATERIAL</p> <p>Nuclear Chemistry Section</p>	<p>3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.)</p> <p>Extend Byproduct Material License No. 19-1398-22</p>
<p>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.)</p> <p>Add: Garvey Pierson</p>	<p>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.)</p> <p>James F. Bresson</p>

<p>6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each.)</p> <p>Strontium⁹⁰ Yttrium⁹⁰ Americium 241 Curium 242 Any byproduct material between Atomic Nos. 3 and 83, inclusive. Strontium 89 Any byproduct material between Atomic Nos. 3 and 83, inclusive</p>	<p>(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.)</p> <table border="0"> <tr> <td>Any</td> <td>10 millicuries</td> </tr> <tr> <td>Any</td> <td>10 millicuries</td> </tr> <tr> <td>Any</td> <td>10 millicuries</td> </tr> <tr> <td>Mixed Fission Products</td> <td>10 millicuries</td> </tr> <tr> <td>Any</td> <td>10 millicuries</td> </tr> <tr> <td>Any</td> <td>25 millicuries</td> </tr> </table>	Any	10 millicuries	Any	10 millicuries	Any	10 millicuries	Mixed Fission Products	10 millicuries	Any	10 millicuries	Any	25 millicuries
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Mixed Fission Products	10 millicuries												
Any	10 millicuries												
Any	25 millicuries												

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.)

To check analytical procedures to be used in connection with future activities at the Quehanna Facility.

Transportation between the licensee's facilities at Quehanna, Pennsylvania, and the Pennsylvania State Reactor facility, University Park, Pennsylvania, and use for the measurement of tracer amounts of radioisotope in irradiated material.

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ACKNOWLEDGED

TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM 1

8. TYPE OF TRAINING	WHERE TRAINED	DATE OF TRAINING	ON THE JOB (Yes/No)	FORMAL COURSE (Yes/No)
a. Principles and practices of radiation protection			Yes/No	Yes/No
b. Radioactivity measurement, standardization and monitoring techniques and instruments	SEE ATTACHED RESUME		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
		SEE ATTACHED RESUME		

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)
NO CHANGE					

11. METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED ABOVE.
NO CHANGE

12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. (For film badges, specify method of calibrating and processing, or name of supplier.)
NO CHANGE

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
NO CHANGE

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.
NO CHANGE

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.
NO CHANGE

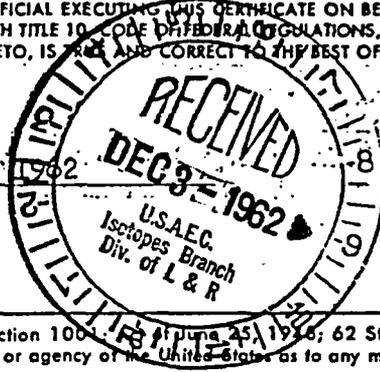
CERTIFICATE (This item must be completed by applicant)

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, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

Date: November 30, 1962

By: Richard H. Boutelle
Richard H. Boutelle, Chief
Health Physics Section
Title of certifying official

Martin-Marietta Corporation
Applicant named in item 1



WARNING.—18 U. S. C., Section 1001, 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.

NAME: GARVEY F. PIERSON

TITLE: Senior Engineer

EDUCATION: Four Years High School
Tennessee Eastman Corporation Courses:

Job Instruction Training
Job Relations Training
Job Methods Training

EXPERIENCE:

1938 to 1942 - Tennessee Eastman Corp., Plant Control Lab.

Performed analyses of a non-routine nature and assisted in supervision and training of analysts.

1942 to 1945 - Holston Ordnance Works

This project was operated by Tennessee Eastman Corp. Assigned to special experimental laboratory work on defense project developing analytical methods on explosives. From 1943 to 1945 supervised laboratory assistants to provide analytical support for production program involved with manufacturing explosives. Responsible for setting up and maintaining all laboratory equipment, safety and health physics regulations concerning explosives.

1945 to 1946 - Returned to Tennessee Eastman Corp., Kingsport, Tenn.

Group leader in the Plant Control Laboratories. Responsible for performing analyses of a non-routine nature and assisted in supervision and training of analysts.

1948 to 1953 - Research Laboratories

Performed with a group doing organic research. Prepared compounds from general instructions of a senior chemist. Also worked with group doing work in field of high polymers - responsible for solution, bulk, emulsion, and bead polymerizations and checking the purity of reagent chemicals.

1953 to 1955 - Self-employed

1955 to 1956 - Sandia Corp., Albuquerque, N. Mex.

Industrial Hygiene Dept. - Work included radiological surveys, sampling for atmospheric contaminants, urinary assay work for plutonium and uranium and chemical analyses.

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1956 to 1958 - General Electric Co., ANPD-IIS, Idaho Falls, Idaho

Established fluorimetric uranium and general radiochemical analyses and trained laboratory personnel in its use.

1958 to July 1962 - General Electric Co., Valleclitos

Supervisor of analytical radiochemistry lab.

July 1962 to Present - Martin Company, Quehanna Facility

Process Chemist - Responsible for all analytical and chemical activities associated with the production of strontium-90 titanate.

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