

JUN 13 1994

Terminated License Nos: 19-01398-20  
19-01398-32  
SNM-00011  
SNM-00053  
SNM-00849  
SNM-01192  
STB-00187

Docket Nos: 070-00014  
070-00058  
070-00908

Martin-Marietta Corporation  
Attn: Mr. M. J. Rupp  
Radiation Safety Officer  
103 Chesapeake Park Plaza  
Baltimore, Maryland 21220

Dear Mr. Rupp:

Subject: Terminated licenses

As part of a program to ensure that facilities where activities authorized by AEC and NRC licenses that were terminated after 1965 are suitable for release for unrestricted use as specified in current NRC criteria, our contractor, Oak Ridge National Laboratory (ORNL), reviewed each terminated license file and scored it according to a system designed to identify facilities which require additional review by the NRC. In general, files which indicate that licensed material may have been used at particular facilities, but which do not include adequate final survey records for those facilities are identified for additional review. As Mr. David Limroth of this office discussed with you by telephone, the review by ORNL identified Martin-Marietta Corporation's and its progenitors' Atomic Energy Commission and Nuclear Regulatory Commission License Nos. 19-01398-20, 19-01398-32, SNM-00053, SNM-00849, SNM-01192 and STB-00187 and a related license (SNM-00907) issued to another (EBASCO) for operations on Martin-Marietta property as files that require additional NRC review. Region I staff has also reviewed these license files and has determined that additional information is necessary to determine whether the previously licensed facilities are suitable for release for unrestricted use or are currently licensed by an active NRC or State of Maryland license, and will, therefore, receive adequate review prior to being released for unrestricted use.

We would appreciate your assistance in closing our review of these licenses.

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As discussed in an earlier conversation between you and Mr. Limroth, more specific details and questions concerning the locations of interest are enclosed. Telephone inquiries may be addressed to Mr. Limroth at (610) 337-5121. If a visit to the sites or your office would be helpful in understanding the sites or to providing this information, such a visit could easily be arranged at your earliest convenience.


Since we are interested in completing action on the licenses and sites determining their status as promptly as possible, information concerning the current state of the facilities in question prior to September 1994 would be appreciated.

Thank you for your cooperation in the closing of these old matters.

Sincerely,

Original Signed by:

Duncan White

 John D. Kinneman, Chief  
Site Decommissioning Section  
Facilities Radiological Safety  
and Safeguards Branch

Enclosures: As stated

cc w/enclosures:

Mr. T. Ferguson  
Radiological Health Program  
Maryland Department of the Environment  
2500 Broening Highway  
Baltimore, Maryland 21224

Public Document Room (PDR)

cc w/o enclosures:

Mr. Roland G. Fletcher, Administrator  
Radiological Health Program  
Maryland Department of the Environment  
2500 Broening Highway  
Baltimore, Maryland 21224

Martin-Marietta Corporation

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bcc w/enclosures:

Region I Docket Room (w/concurrences)

C. Gordon, SAO

J. Kinneman, RI

D. Limroth, RI

*DL*  
RI:DRSS  
Limroth

05/18/94

*DK*  
RI:DRSS  
Kinneman

*6/13/94*  
~~05/19/94~~

*CZG*  
RI:SAO  
Gordon

05/19/94



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

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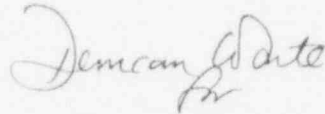
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John D. Kinneman, Chief  
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License No. 19-01398-20

### **Background**

This license was initially issued to The Martin Company in 1960 for the processing of Am-241 and Cm-242. The license was subsequently transferred to Martin-Marietta and later, to Isotopes, Inc. The license was terminated by the AEC by letter to Isotopes, Inc., dated 9/2/69 in response to an Isotopes, Inc., letter of 8/15/69 which stated simply that all radioactive material possessed under the license had been disposed of in accordance with 10CFR20 by transfer to a company authorized to receive them.

Correspondence in the docket file reports, among other things, that operations were conducted in dryboxes with filtered ventilation in a Building KJ Radioisotope Laboratory; however, there is no record of a final survey of that facility.

### **Information required**

1. What is the status of licensed activities in Building KJ Radioisotope Laboratory, if any?
2. If the Building KJ Radioisotope Laboratory is no longer being utilized for licensed operations, is there a record of a termination survey? If so, please provide a copy of that survey.
3. If the Building KJ Radioisotope Laboratory has been demolished, what was the disposition of the rubble, i.e., was it buried or removed? What is the current use of the site or building?

License No. SNM-00849

### **Background**

This license, issued in January 1965, authorized operations at the Middle River facility of Martin Marietta involving encapsulated Pu238 in conjunction with SNAP reactors and the testing of fuel capsules and radioisotope generators containing Pu238. Operations reportedly occurred in Building C Environmental Test Laboratory and Large Vacuum Chamber Laboratory.

The license also authorized operations at the Johns Hopkins University/Applied Physics Laboratory (exact location not specified) and was later amended to authorize operations with plutonium in triply-sealed capsules at the following locations:

Teledyne Isotopes  
110 West Timonium Road, Timonium Maryland, and

Fairchild Hiller Space and Electronics System Division  
Sherman-Fairchild Technology Center  
Fairchild Drive, Germantown, Maryland

### **Information required**

1. What is the status of licensed activities in Building C, if any?
2. If Building C is no longer being utilized for license operations, is there a record of a termination survey? If so, please provide a copy of that survey.
3. If Building C has been demolished, what was the disposition of the rubble; i. e., was it buried or removed?
4. Please provide any information available regarding transfers of licensed material to JHU/APL, Teledyne Isotopes and/or Fairchild Hiller Space and Electronics System Division in order that the contamination potential of such material transfers might be assessed.

License No. SNM-01192

### **Background**

This license was issued to Martin Marietta for the decontamination of Building D at the Middle River facility. Operations in Building D had included activities authorized by the following licenses:

19-01398-32  
SNM-00011  
SNM-00053  
STB-00187 (superseded C-42830)

The closeout survey of the facility indicates that some contamination, 29 microcuries of U235, remained in 5 drains. The licensee had proposed to seal these drains with cement following inspection and approval from the Atomic Energy Commission. There is no further documentation in available files regarding this contamination or its disposition.

An NRC inquiry conducted by Region I personnel during the period March 5 through June 15, 1982, determined that Building D had been demolished and concluded that the site met then current NRC criteria for release for unrestricted use and that no site survey was necessary. However, the inquiry stated that no determination could be made if the drains containing the residual U235 activity had been sealed. The ultimate disposition of the contaminated drains was not addressed.

### **Information required**

1. Was the rubble from the demolition of Building D removed or simply buried?
2. If the building rubble was removed, were the contaminated drains also removed and properly disposed?



License No. SNM-00907

### **Background**

This license, issued to EBASCO on July 13, 1965, authorized the dismantling and removal of the Martin Marietta Liquid Fluidized Bed Reactor (LFBR) which had been licensed under CX-18. Available records do not provide details regarding the location of the reactor. This reactor, while never critical, had reportedly been operated and available records indicate an inventory of approximately 75 kg of uranium containing approximately 1188 gm U235 distributed as scale and sludge. Contaminated material was reportedly disposed of through burial at an authorized site or storage. EBASCO's license application stated that a post removal survey would be conducted with results furnished to the AEC's New York Operations Office and to Martin Marietta; however, the docket file contains no such record.

### **Information required**

1. Details regarding the location of the LFBR.
2. A copy of the post removal contamination survey or any other radiological survey of that location.