



MUSKINGUM COLLEGE

NEW CONCORD, OHIO, 43762 • PHONE (614) 826-8211

Physics Department  
July 30, 1993

Materials Licensing Section  
Nuclear Regulatory Commission  
Region III  
799 Roosevelt Road  
Glen Ellyn, IL 60137

Re: Possession-only status request for license No. SNM-1148

Gentlemen:

This letter is an application for amendment of Muskingum College's Special Nuclear Materials License, number SNM-1148, to a possession-only license. According to 10 CFR 170.11 (a) (4), no application fee is required because Muskingum College is a nonprofit educational institution. I request a wavier of the FY 1993 annual fee since this application is being filed before the effective date of 8/19/93 for the new final revisions to 10 CFR 171.

This application is being filed because Muskingum College cannot justify paying the annual fee that will be required by the new revisions to 10 CFR 171. Today I phoned Ms. Sherry Jones, who is working for the DOE's sealed source disposal program at Los Alamos (phone 505-665-2712). She advised me that her program would be the only feasible way for Muskingum College to dispose of a sealed PuBe source. She assigned us the reporting identifying symbol YMS, and said that it will be 1995 or 1996 before we will be allowed to ship the source to Los Alamos.

License number SNM-1148 is for the use of a single sealed 2-curie Pu-Be neutron source consisting of thirty-two (32) grams of plutonium-239 encapsulated in tantalum which is sealed in an outer capsule of 304 stainless steel. The source is serial number 320B108, Type Pu-Be: NUMEC-B (2-curie) purchased from Nuclear Materials and Equipment Corporation on October 29, 1969. The source was calibrated by Numec on October 22, 1969, against Numec Standard #930AM83 and certified as emitting  $4.27 \times 10^6$  neutrons per second.

Muskingum College has permanently ceased using the PuBe source covered by license number SNM-1148. The source will not be used for any purpose pending disposition and license termination.

The source is locked in a Neutron Beam Irradiation Facility (NBIF) in room 114 of the Science Center, as described in the license application dated April 2, 1990 and approved in the license dated May 10, 1990.

The Radiation Protection Officer at Muskingum College is Dr. Robert B. Teese, Associate Professor of Physics. Dr. Teese will be responsible for maintaining control of the stored source. Dr. John Baxter will be responsible for maintaining control of the stored source in the event of Dr. Teese's absence. The resumes of Dr. Teese and Dr. Baxter are contained in the license application dated April 2, 1990.

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Except when it will be removed for periodic leak testing, the Pu-Be source will remain locked within the NBIF to prevent use and/or removal. The  $Nb^{117}$  is kept in the locked radioactive materials storage area, Room 114. Access to Room 114 is through the Radiation Counting Room 112 into the Source Preparation Room 113. The doors to Rooms 112, 113, and 114 are kept locked at all times. The only keys to rooms 113 and 114 are issued to Robert Teese and John Baxter. The locks to rooms 113 and 114 cannot be opened by a master key. No person has access to rooms 113 or 114 except under the direct supervision of Robert Teese or John Baxter. Dr. Teese will inspect the NBIF at least annually to insure that the source is in place, and written records of the inspections will be kept.

No changes in the radiation safety program other than the frequency of leak-testing will be made as a result of placing the source in storage.

Dr. Teese will leak-test the source at least once every 3 years and immediately before transfer to an authorized recipient, using the procedures described in the license application dated April 2, 1990.

License number SNM-1148 will be maintained in an active state pending disposition of the source.

Please phone me at (614) 826-8332 if you have any questions about this application.

Sincerely,

Robert B. Teese,  
Radiation Protection Officer

RT

c: C. J. Holloway, Jr., Office of the Controller, NRC

Time: 2:02 pm

NRC -- Correspondence Tracking

Record #: 712

LF Control NO.	OC Number	EDO Number	Invoice Number	License Number			
LF-92- 707		0		SNM-1148			
Incoming Date	Date Recieve	Type Code	Assigned To Date	Due Date	Date Routed	Response Date	Exemption Action Taken
07/30/93	08/24/93	OT	DBD 08/24/93	08/31/93	/ /	/ /	N
Author: ROBERT B. TEESE							
Licensee: MUSKINGUM COLLEGE							
Comments: APPLICATION FOR ADMENDMENT OF MUSKINGUM COLLEGE'S SPECIAL NUCLEAR MATERIALS LICENSE FOR POSSESSION-ONLY LICENSE.							
User Date: 08/24/93		User I.D.: BARBARA		.....			

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