

UNITED STATES  
**ATOMIC ENERGY COMMISSION**  
 DIRECTORATE OF REGULATORY OPERATIONS  
 REGION I  
 631 PARK AVENUE  
 KING OF PRUSSIA, PENNSYLVANIA 19406

AUG 2 1974

Department of the Army  
 U. S. Army Electronics Command  
 Attention: Col. E. L. Bowman  
 Dep. Director  
 Fort Monmouth, New Jersey 07703

License No. SMB-1183  
 Inspection No. 74-01

Reference: Your letter dated July 19, 1974  
 In response to our letter dated May 31, 1974

Gentlemen:

Thank you for informing us of the corrective and preventive actions you documented in response to our correspondence.

From the telephone conversation between Mr. Stanley Potter, Radiation Protection Officer, and Mr. Brandkamp of this office on July 30, 1974, we understand that you performed a smear survey in the laboratory involved and found no removable contamination present. These actions will be examined during our next inspection of your licensed program.

Your cooperation with us is appreciated.

Sincerely,

Paul R. Nelson, Chief  
 Radiological and Environmental  
 Protection Branch

bcc:  
 RO Chief, FS&EB  
 RO:HQ (4)  
 L:D/D for Fuels and Mat'l  
 PDR  
 NSIC  
 RO Files  
 DR Central Files

*CC/5*

OFFICE ▶	GRESS				
SURNAME ▶	Brandkamp by	McCinnock	Nelson	O'FALLON	
DATE ▶	8/1/84		8/2/74		

532-9000



DEPARTMENT OF THE ARMY  
HEADQUARTERS UNITED STATES ARMY ELECTRONICS COMMAND  
FORT MONMOUTH, NEW JERSEY 07703

AMSEL-RD-O

19 July 1974

THRU: ~~Commander  
US Army Materiel Command  
ATTN: AMCSF-P  
Alexandria, Virginia 22333~~

*Walters 25 July 74*

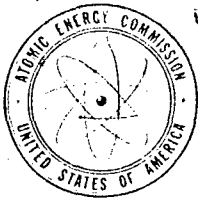
TO: Mr. Paul R. Nelson  
Chief, Radiological and Environmental  
Protection Branch  
US Atomic Energy Commission  
Directorate of Regulatory Operations  
Region 1  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

Dear Mr. Nelson:

Reference is made to your letter dated 31 May 1974 and its inclosure "Description of Violations". The violations described in the inclosure have been corrected in that the radioactive material has been removed from the facility involved. It is not anticipated that this facility will have any future requirements to utilize radioactive materials.

This command is in full compliance as of this date.

*Walter S. McAfee*  
WALTER S. McAFEE  
Scientific Adviser  
to the Director, RD&E/L



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MAY 31 1974

Department of the Army  
U. S. Army Electronics Command  
Attention: Col. E. L. Bowman  
Dep. Director  
Fort Monmouth, New Jersey 07703

License Nos. 29-01022-06  
29-01022-07  
29-01022-10  
SNM-1323  
SMB-1183 ✓

Gentlemen:

This refers to the inspection conducted by Mr. Brandkamp of this office on May 17, 1974 of activities authorized by AEC License Nos. 29-01022-06, 29-01022-07, 29-01022-10, SNM-1323 and SMB-1183 and to the discussions of our findings held by Mr. Brandkamp with Col. Bowman and Mr. Potter of your staff at the conclusion of the inspection.

The inspection was an examination of activities conducted under your licenses as they relate to radiation safety and to compliance with the Commission's rules and regulations and the conditions of your licenses. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, measurements made by the inspector, and observations by the inspector.

Our inspector also verified the steps you had taken to correct the violations brought to your attention in a letter dated November 28, 1973 following our last inspection of License Nos. 29-01022-06 and 29-01022-07. We have no further questions regarding these matters.

During this inspection, it was found that certain of your activities appeared to be in violation of AEC requirements. The items and references to the pertinent requirements are listed in the enclosure to this letter. This letter constitutes a notice sent to you pursuant to the provisions of Section 2.201 of the AEC's "Rules of Practice", Part 2, Title 10, Code of Federal Regulations. Section 2.201 requires you to submit to this office within 20 days of your receipt of this notice, a written statement of explanation in reply, including: (1) corrective steps which have been or will be taken by you, and the results achieved; (2) corrective steps which will be taken to avoid further violations; and (3) the date when full compliance will be achieved.

From the discussion at the conclusion of the inspection we understand you will perform air monitoring and bioassay monitoring whenever tritium foils are used with your neutron generator. We will examine these actions during our next inspection.

In accordance with Section 2.790 of the AEC's "Rules of Practice", Part 2, Title 10, Code of Federal Regulations, a copy of this letter and your reply will be placed in the Public Document Room.

Should you have any questions concerning this inspection, we will be pleased to discuss them with you.

Sincerely,

*J. P. Staley*  
Paul R. Nelson, Chief  
Radiological & Environmental  
Protection Branch

Enclosure:  
Description of Violations

bcc (w/encls):  
RO Chief, FS&EB  
RO:HQ (4)  
L:D/D' for Fuels and Mat'l  
PDR  
NSIC  
RO Files  
DR Central Files

ENCLOSURE

DESCRIPTION OF VIOLATIONS

Department of the Army  
U. S. Army Electronic Command  
Fort Monmouth, New Jersey 07703  
License No. SMB-1183

Certain activities under your License No. SMB-1183 appear to be in violation of AEC requirements. These apparent violations are considered to be of Category II severity:

10 CFR 20.201(b), "Surveys", requires that such surveys be conducted as may be necessary to comply with the regulations contained in each section of Part 20. A "Survey", as defined in Paragraph 20.201(a), means "an evaluation of the radiation hazards incident to production, use, release, disposal, or presence of radioactive materials or other sources of radiation under a specific set of conditions. When appropriate, such evaluation includes a physical survey of the location of materials and equipment, and measurements of levels of radiation or concentrations of radioactive materials present".

- a. Contrary to this requirement, you failed to make such surveys as were necessary to assure compliance with 10 CFR 20.103, "Exposure of individuals to concentrations of radioactive material in restricted areas", a regulation that specifies a limit of  $3 \times 10^{-11}$  microcurie per milliliter of airborne natural thorium when averaged over 40 hours in any period of seven consecutive days, for individuals occupying a restricted area.
- b. Contrary to this requirement, you also failed to make such surveys as were necessary to determine that the concentration of radioactive materials discharged from your plant to the unrestricted area, were within the limits established in 10 CFR 20.106, "Concentrations in effluents to unrestricted areas".