

Docket Nos. 30-6989
 30-9718
 30-14643
 40-08598

NOV 18 1978

Department of the Army
 U. S. Army Electronics Research
 and Development Command, DELSD-SF
 ATTN: Colonel E. L. Bowman
 Commander, Technical Support Activities
 Ft. Monmouth, New Jersey 07703

Gentlemen: ✓

Subject: Inspection 78-01

This refers to the inspection conducted by Messrs. P. Jerman and M. Slobodien of this office on October 20 and November 1, 1978, of activities authorized by NRC License Nos. 29-01022-07, 29-01022-10, 29-01022-12, and SMB-1300, and to the discussions of our findings held by Messrs. Jerman and Slobodien with yourself 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.

In addition, our inspector took wipe samples of surfaces in your pool irradiator room, and took a water sample from your irradiator pool. These samples were analyzed in our Regional Office Laboratory in King of Prussia, Pennsylvania. The basic purpose of these independent measurements was to verify your capability for identifying and evaluating radioactive contaminants in your facility. The results of our analysis indicate compliance with applicable license conditions and were in agreement with your analysis.

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OFFICE ▶	FFMS	FFMS	FFMS			
SURNAME ▶	<i>P. Jerman</i> Jerman/jl	<i>M. Slobodien</i> McClintock	<i>P. Jerman</i> Smith			
DATE ▶	11/13/78	11/14/78	11/14/78			

Based on the results of this inspection, it appears that certain of your activities were not conducted in full compliance with NRC requirements, as set forth in the Notice of Violation, enclosed herewith as Appendix A. These items of noncompliance have been categorized into the levels as described in our correspondence to you dated December 31, 1974. This notice is sent to you pursuant to the provisions of Section 2.201 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations. Section 2.201 requires you to submit to this office, within twenty (20) days of your receipt of this notice, a written statement or explanation in reply including: (1) corrective steps which have been taken by you and the results achieved; (2) corrective steps which will be taken to avoid further items of noncompliance; and (3) the date when full compliance will be achieved.

During the discussions which took place on October 20, 1978 with regard to activities conducted under License No. 29-1022-07, Mr. Jerman expressed our concern that your Underground Vault Cobalt-60 Irradiation Facility was without operable safety control devices as required by your license. On October 23, 1978, during a telephone conversation with Mr. Richard Johnson of your staff, Mr. J. P. Stohr, Acting Chief, Fuel Facility and Materials Safety Branch, Region I, reviewed your plan to discontinue operation of the irradiator until installation of safety systems was complete. Your commitment to discontinue operations and make changes to safety systems was documented in a letter to you dated October 23, 1978. On October 27, 1978, Mr. P. Jerman of this office contacted Mr. S. Potter of your staff to review the progress in making operational the safety systems of your irradiator and was informed that you had completed the actions documented in our letter dated October 23, 1978. On November 1, 1978, your corrective actions taken in response to the October 20, 1978 inspection and telephone conversation on October 23, 1978, were reviewed by Messrs. P. Jerman and M. Slobodien of this office. The items of noncompliance identified in Appendix A of this letter were corrected as of that date. Therefore, it will not be necessary for you

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to list the corrective actions which you implemented in your reply to this letter. You should address the actions which you have taken or plan to take to avoid noncompliance in the future.

From the discussions during the November 1, 1978 inspection, it is our understanding that you plan to take the following additional actions to ensure compliance with 10 CFR 20.203(c)(6):

1. Install a barrier inside the vault entrance door which will serve as a secondary control device to cause the source to be lowered into its safe, shielded position should the primary entry control device fail.
2. Install a key operated lock on the vault door to be operated by the irradiator master control key. This lock shall not under any circumstances prevent exit from inside the vault into the control room.
3. Install a key switch at the control console such that the key can be removed only when in the "off" position thereby causing the source to lower into its safe shielded condition.
4. Install a visible warning device at the vault entrance which will alert individuals when the source is in an exposed position.

If any of our understandings are not correct, please inform us to that effect immediately. We will review these actions during the next inspection of your licensed program.

In accordance with Section 2.790 of the NRC'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,

George H. Smith, Chief
Fuel Facility and Materials Safety
Branch

Enclosure: Appendix A, Notice of Violation

cc w/encl:
Mr. Stanley Potter, Radiation Safety Officer

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SURNAME ▶					
DATE ▶					

bcc w/encl:
IE Mail & Files (For Appropriate Distribution)
Central Files
Public Document Room (PDR)
Nuclear Safety Information Center (NSIC)
REG:I Reading Room
State of New Jersey

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