

MAR 27 1973

United States Radium Corporation  
Attention: Mr. D. Bean,  
Vice President  
4150 Old Berwick Road  
Bloomsburg, Pennsylvania 17815

Docket Nos. 30-5981 and  
30-5982

Gentlemen:

This refers to the inspection conducted by Mr. Epstein of this office on February 13-15, 1973 of activities authorized by AEC License Nos. 37-00030-07 and 37-00030-08 and to the discussions of our findings held by Mr. Epstein with Mr. Bean and Mr. McGraw of your staff at the conclusion of the inspection.

Areas examined during this inspection included: stack and liquid effluent releases; bioassay; restricted area air concentrations; waste disposal; posting and labeling; and emergency procedure training for the period from September 1, 1971 to February 1, 1973. Within these areas, the inspection consisted of selective examinations of procedures and representative records, interviews with plant personnel, and observations by the inspector.

Our inspector also examined those activities conducted under your licenses relating to the subjects covered in your letters to Directorate of Regulatory Operations, dated December 2, 1971 and July 17, 1972 and your letter to the Directorate of Regulatory Operations, RO:I dated June 29, 1972. 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.

OFFICE	CRESS I				
SURNAME	Epstein <i>EE</i>	Smith <i>OKS</i>	Nelson <i>Nelson</i>	<i>0 M. 1/2</i>	
DATE	3-14-73	3/26/73	3/26/73	<i>OK</i>	

Form AEC-318 (Rev. 9-53) AECM 0240

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It was also noted that your entire site contains no physical restriction and we understand that as a minimum you intend to physically restrict entrance to the Nuclear Facility Building. In your response to this letter, please communicate your plans with regard to this matter.

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

Sincerely,

Paul R. Nelson, Chief  
Radiological & Environmental  
Protection Branch

Enclosure:  
Description of Violations

bcc: RO Chief, Materials & Fuel Facilities Branch  
RO:HQ (4)  
L:D/D for Fuels & Materials  
DR Central Files  
PDR  
NSIC  
State of Pennsylvania

ENCLOSURE

Description of Violations

United States Radium Corporation  
4150 Old Berwick Road  
Bloomsburg, Pennsylvania 17815  
Docket Nos. 30-5981 & 30-5982

Certain activities under your licenses appear to be in violation of AEC regulations and license requirements as indicated below:

1. 20.106(a), "Concentrations in effluents to unrestricted areas," requires in part, that a licensee not use licensed material so as to release to an unrestricted area radioactive material in concentrations which exceed the limits specified in Appendix B, Table II, of this part. Concentrations may be averaged over a period not greater than one year.

Contrary to this requirement, concentrations of tritium gas, water and particulate were released to unrestricted areas via stack discharge, in concentrations when averaged over one year exceeded Appendix B, Table II, Column 1 limits for the year 1971 by a factor of 17.46 and for the year 1972, by a factor of 15.8. The stack must be considered as the point of release, since the plant site area does not meet the requirements for a restricted area.

2. License Condition No. 15 of License No. 37-00030-08, requires that by-product material be used in accordance with procedures included in a letter dated November 19, 1970, signed by J. David McGraw, Health Physics Program Revision 1, Section 4.0.0 Subsection 4.1.1 states in part, "All Nuclear Division employees must receive a yearly orientation briefing by Health Physics concerning entry and emergency exit procedures . . ."

Contrary to this requirement, there was no documentation that such training or briefing was provided on a yearly basis and evacuation drills had not been performed.