

LR:BJR  
40-4659

MAR 1 1963

Petrotonics Company  
P. O. Box 184  
Casper, Wyoming

Attention: Mr. Norman A. Grant  
Project Manager

Gentlemen:

This refers to the inspection conducted on October 23, 24, and 25, 1962, of your activities authorized under AEC Source Material License No. SUA-551.

It appears that certain of your activities were not conducted in full compliance with conditions of your license and the requirements of the AEC's "Standards for Protection Against Radiation," Part 20, Title 10, Code of Federal Regulations, in that:

1. From May, 1962 through August, 1962, five (5) employees were exposed to airborne concentrations of radioactive material in excess of the limits specified in 10 CFR 20.103, "Exposure of individuals to concentrations of radioactive material in restricted areas."
2. The radiation exposures referred to in Item 1 above were not reported to the AEC until October 31, 1962, contrary to 10 CFR 20.405(a), "Reports of overexposures and excessive levels and concentrations," which requires a report to be filed within 30 days of each overexposure.
3. The five employees who were exposed to airborne concentrations of radioactive material in excess of the limits specified in 10 CFR 20.103 referred to in Item 1

**REGISTERED MAIL**

OFFICIAL

**RETURN RECEIPT REQUESTED**

SURNAME ►

DATE ►

8507290716 850530  
PDR FOIA  
BURR85-229 PDR

MAR 1 1963

above were not notified of the nature and extent of their exposures as required by 10 CFR 20.403(b), "Reports of overexposures and excessive levels and concentrations."

4. From April 1, 1962 to October 23, 1962, breathing zone samples were not collected in the yellow cake drying and packaging areas and time studies were not adequate to evaluate fully the concentrations of airborne radioactive material to which employees were exposed in such areas, contrary to 10 CFR 20.201(b), "Surveys." Failure to take breathing zone samples is also contrary to License Condition No. 8 which incorporates your letters of application which require that such samples be obtained.
5. From April 1, 1962 to October 23, 1962, surveys were not made to determine the concentrations of airborne radioactive material released to unrestricted areas, contrary to 10 CFR 20.201(b), "Surveys." Also, Condition No. 8 of the license, which incorporates your letters of October 10, 1961 and January 12, 1962, requires that periodic air checks be made of (a) the mill exhaust system, and (b) the area outside the mill property.
6. The yellow cake drying and packaging enclosures were not posted as required by 10 CFR 20.203(d)(2), "Caution signs, labels, and signals."
7. The tailings pond areas were not posted as required by 10 CFR 20.203(e)(2), "Caution signs, labels and signals," and License Condition No. 8 which incorporates your letter of October 10, 1961. The letter of October 10, 1961, specifies that the tailings area will be fenced and posted at 50 foot intervals with proper radiation caution signs.

OFFICE ►					
SURNAME ►					
DATE ►					

MAR 1 1963

8. Records of liquid effluent uranium analyses were not maintained in the same units used in the appendices of 10 CFR 20, contrary to 10 CFR 20.401(b), "Records of surveys, radiation monitoring and disposal."
9. The quarterly radiation report which was due on or before June 15, 1962, was not submitted to the AEC until July 12, 1962, contrary to Condition No. 12 of the license.

This notice is 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, a copy of which is enclosed. You are hereby required 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; and (3) the date when full compliance will be achieved.

With regard to Item 1 above, we note that you had failed to decrease proportionately the airborne concentration limits specified in Appendix B, Table 1 of 10 CFR 20 for periods when employees were exposed to concentrations of radioactive material for more than 40 hours in any period of seven consecutive days, contrary to 10 CFR 20.103(b). In response to your letter application dated November 2, 1962, License No. SUA-551 was amended on November 9, 1962 to permit the averaging of air concentrations over 80 hours in the period of 14 consecutive days.

bcc: Compliance Div., HQ  
Compliance Div., IV  
Public Document Room

Very truly yours,

Ralph G. Page  
Chief, Enforcement Branch  
Division of Licensing  
and Regulation

Enclosures:  
10 CFR 20  
10 CFR 2

OFFICE ▶	LR:EB	LR	CO	LR:EB		
SURNAME ▶	BJRock:bjy	DANussbaumer		RGPPage		
DATE ▶	2/25/63	3/1/63	2/28/63			