



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON 25, D. C.

IN REPLY REFER TO:

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40-3698
40-5939 ✓

JUN 29 1961

Susquehanna-Western, Inc.
777 Grant Street
Denver 3, Colorado

Attention: Mr. G. W. Bryant, Manager
Metallurgical Division

Gentlemen:

A number of the uranium mills have indicated in their license applications, or amendments thereto, that urinalysis would be performed on employees. Such statements and representations contained in the application became requirements when the licenses were issued, renewed or amended.

Based upon an analysis of the means of assessing internal radiation exposure in connection with uranium mill operations, we have concluded that routine urinalysis for uranium is not necessary. This conclusion is based on the fact that urinalysis for uranium measures only absorbed uranium (i.e. dissolved in body fluids) and therefore is not a valid indicator for insoluble uranium exposures. Thus, the presence or absence of uranium in urine is not satisfactory as a complete indicator.

Air sampling programs are the primary means of evaluating exposure to airborne radioactivity which is the main source of internal exposure in uranium mills. Such air sampling programs are routinely required and the results can be directly related to the air concentration limits in Part 20.

The Commission may in particular cases, pursuant to Section 20.1 of 10 CFR Part 20, require certain forms of bioassay as a special survey since it may provide a qualitative indication of internal exposure.

Therefore, effective this date, you are hereby relieved of any requirements to perform routine urinalysis for uranium in connection with your uranium milling operations if such has been incorporated as a condition of your license as a result of statements and representations made by you in your license application or amendments thereto.

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FOR THE ATOMIC ENERGY COMMISSION

Robert H. Thompson

Acting Director
Division of Licensing and Regulation

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APPROVED *DA 6/29/61*

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