

NOV 24 1976

FCRL:EGW  
(00669)

U.S. Steel Research Corporation  
ATTN: Mr. R.P. Learmont  
600 Grant Street  
Pittsburgh, Pennsylvania 15230

Gentlemen:

This refers to your application of March 9, 1976 and telephone conversations between Mr. R.L. Bennett on August 26, 1976 and Mr. R.P. Learmont on August 31, 1976 and the undersigned.

As discussed in our telephone conversations, certain items of your application are not in sufficient detail to enable a complete review of your request. In this regard, please furnish the following additional information.

1. Based on the information furnished in your application, we are unable to determine that the individuals named as users are qualified by training and experience to use and handle uranium in the operations proposed. Section 40.32b of the enclosed Part 40 and Item 10, page 3 of the enclosed Guide 10.4 delineate information on training requirements. If your personnel have other training in radiation safety and specific experience in handling uranium not reflected in your application, this information should be submitted for our review.
2. Specify the percent by weight of uranium in the ore samples you will process.
3. Describe the chemical and physical form, percent by weight, and total batch size for each step in the various operations you will perform.
4. Specify the distance to and the use of neighboring buildings, the scale used on Figure 2 of your application, the location of and description of your storage areas for bulk ore and tailings, the height of discharge stack(s) which have potential for releasing radioactivity to the environment and the height of and distance to the nearest occupied buildings, a technical description and the collection efficiency of filters used to remove radioactive particles of the breathable range from air exhausted to the environment and the criteria and procedures for evaluating the performance of the equipment.

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- 5. With respect to your radiation safety program, we need a description of: (a) frequency of air sampling surveys; (b) sampling locations with respect to the workers breathing zone; (c) how samples will be prepared, analyzed (i.e. gross alpha, fluorometric, etc.); (d) sensitivity of assays; (e) methods to relate sample results to actual personnel exposure; (f) the effluent monitoring program for all liquid and airborne releases to unrestricted areas (should also include contaminated laundry waste water); and (g) the training program for all personnel involved in handling radioactive materials.
- 6. With respect to your Waste Disposal and Decontamination Procedures, describe what will be done with contaminated tools and equipment and how samples of potentially radioactive liquids will be monitored prior to release to the environment. Describe sample collection, preparation and analysis procedures including sensitivity of assays and sample calculations. Any liquid effluents released to the environment must meet the requirements of Section 20.106 of 10 CFR Part 20.

To assist you in preparing your reply, we have enclosed copies of our Regulatory Guides 8.11 and 10.4 and 10 CFR Parts 20 and 40.

When replying, please submit information in duplicate and refer to Control No. 00669.

Sincerely,

Earl G. Wright  
 Radioisotopes Licensing Branch  
 Division of Fuel Cycle and  
 Material Safety

Enclosures:

- 1. Regulatory Guides 8.11 and 10.4
- 2. 10 CFR Parts 20 and 40

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