



CORPORATION of AMERICA

SUITE 245

777 14TH STREET, N. W.

WASHINGTON 5, D. C.

DOCKET NO. 40-2001
File Copy

METROPOLITAN 8-2330

January 22, 1960

U. S. Atomic Energy Commission
Washington 25, D. C.

Gentlemen:

Attention: Mr. J. C. Delaney, Chief
Nuclear Materials Section
Licensing Branch
Division of Licensing
and Regulation

We respectfully request Commission authorization pursuant to Sec. 20.302, Part 20, Title 10, Code of Federal Regulations, for the sale of approximately 2,050 yards of our Salt Lake City uranium mill tailings to the D. L. Neeley Contractor Company of Salt Lake City, Utah.

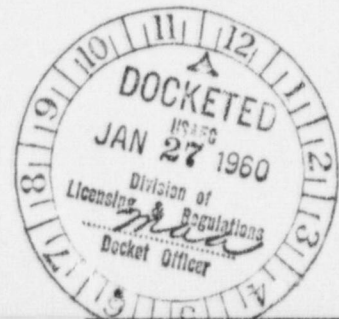
If the requested authorization is granted, Neeley will use the tailings material as fill on their Salt Lake City property at 3361 South 700 West, which is approximately one block south of our tailings area.

This property of Neeley's, which has dimensions of 250' by 250', is to be used by Neeley for storage of miscellaneous earth moving equipment.

A layer of approximately 1½' of our mill tailings material will be deposited as fill, and will be covered by 6" of road base and a 2½" top layer of asphalt. This storage area property where the mill tailings material will be used as fill is to be enclosed by a 7' chain link fence.

Neeley desires to acquire the material, and will start moving immediately upon notice that he can do so. He has estimated a period of one week as the time necessary to move the required amount of fill. Conventional earth moving equipment will be employed.

9809250227 600122
PDR ADOCK 040*****
C PDR



9809250227

Neeley is willing to comply with controls and procedures that we would have to specify. The short distance between our plant site and the point of deposition as well as the short period required to move the relatively small quantity are considered to be favorable factors. In addition, the wet conditions of winter will essentially eliminate dusting problems.

Measurements of airborne radioactivity made during the loading operations of our prior sale of mill tailings to Tolboe and Harlin, previously authorized in the Commission's letter of September 1, 1959, have shown that with moderate applications of water and intelligent loading procedures, the exposure of workmen to airborne concentrations of radioactivity were between .06 and .3 times the maximum permissible concentrations as specified by 10 CFR Part 20. This indicates that workman exposure for this project would be no problem, inasmuch as the tailings in this instance are of the same character as those previously sold. However, the following controls would be specified by us (in our sales contract) and observed by Neeley:

1. Should any spill of tailings material occur during transportation, it will be cleaned up promptly.
2. Spot checks will be made for airborne radioactivity to insure that workmen are not over-exposed and that the surrounding environment is not being contaminated. Records of such measurements will be retained.
3. As an additional precaution, Neeley will require his workmen to wear approved type respirators during the loading and unloading operation if airborne dust of any magnitude is visible or if airborne radioactivity measurements dictate their use.

Based on our previous measurements of radiation levels at the tailings area, the exposure of workmen to external radiation for a 40 hour week (one week) period should not exceed 65 MR total accumulated dose. This is well below the safe working level specified in 10 CFR Part 20.

Several sections of our plant road system, which is constructed of a top layer of 2" of asphalt material, have been laid over tailings ranging in depth of 2' to 6'. We have measured the radiation levels at contact with the road surface on these sections and have found

levels of .03 MR/hour to .1 MR/hour (average - .06 MR/hour). These levels do not include transient radiation from stockpiles, etc.; such radiation was screened out with lead shields. Only the radiation emanating from below the road surface was measured. All other data regarding the radioactivity characteristics of our mill tailings, as set forth in our prior letters to the Commission regarding our request for authorization to sell our mill tailings to Tolboe and Harlin, are pertinent in this instance also.

If additional information is required as the basis for issuing Commission authorization in this instance, kindly let us know.

Respectfully submitted,

VITRO CORPORATION OF AMERICA

Edward G. Littel

By: Edward G. Littel
Assistant to the President

EGL:jtk