

DOCKET NO. 40-6589
DATE: August 10, 1961

NOTICE TO THE AEC PUBLIC DOCUMENT ROOM AND OTHERS

The following Drawings, submitted with letter dated Aug. 7, 1961, from Vanadium Corporation of America, Durango, Colorado, will be sent to you as soon as available:

1. Naturita Mill Site
2. Plan showing general arrangement of dust system
3. Elevation showing arrangement of dust system
4. Flowsheet for Upgrader
5. D-53, D-54, D-55 and D-56

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VANADIUM CORPORATION OF AMERICA

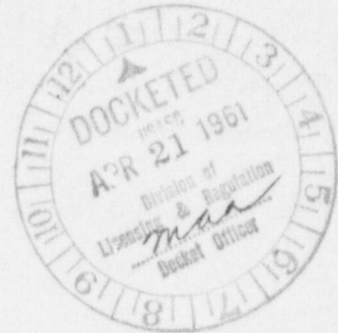
GRAYBAR BUILDING

420 LEXINGTON AVENUE

DENTON A. SHRIVER
SECRETARY

NEW YORK 17, N. Y.

March 15, 1961

Atomic Energy Commission
Washington 25, D. C.Attention: Director,
Division of Licensing and Regulation

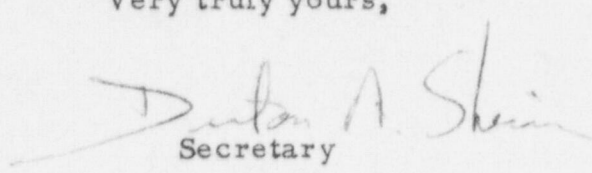
Gentlemen:

Under your regulations 10 CFR Part 40 as revised in 26 F.R. 284 we understand an exemption from licensing requirements exists for the receipt, possession, and use of unrefined and unprocessed ore containing source material, provided such ore is not refined or processed.

This Company owns and has operated for many years under license a uranium-vanadium refining mill at Durango, Colorado, at which both Company mined and purchased ores are processed. In addition, the Company operates a small upgrading concentrator at its Monument No. 2 mine in Arizona and is currently constructing an additional upgrading plant at Naturita, Colorado. The product of both upgrading units will be refined at the Durango mill.

Would you kindly advise if it is necessary or desirable for this Company to apply under the new regulations for additional licenses and, if so, we would appreciate your forwarding the requisite forms.

Very truly yours,


Secretary

DAS:br

~~8606110662~~

Vanadium upgraders

Carl

For New Mills - Rated Ore Capacity?

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INFORMATION TO BE CONTAINED IN APPLICATIONS FOR OPERATION OF URANIUM MILLS

1. A detailed description of your organization, including authority and responsibility of each level of management and/or supervision in regard to development, approval, and adherence to operating procedures.
1. X The qualifications and experience of the personnel in your organization assigned the responsibility for developing, conducting and administering the radiation safety program for ~~the mill~~ ^{each upgrader}.
2. X A description of the area in which the ~~mill~~ ^{upgrader} is located, including the location and size of nearby inhabited areas, locations of streams and rivers, and sources of water supply for the ~~mill~~ ^{plant}. ~~A topographical map with the above identifications is preferred.~~
3. X A description of the method for restricting both the ~~mill~~ ^{plant} and the tailings ~~area~~ ^{area} from unauthorized entry.
4. X The ultimate control or disposition of solid and liquid mill tailings, including a description of the geological, hydrological and topographical characteristics of the surrounding area which will affect the degree to which liquid effluents may reach underground and/or surface waters.
5. X A description of the liquid effluent survey program ~~(assuming plant liquids are used in the upgrading process, effluents reach subterranean or surface water supplies), including the number, location and frequency of check samples and a step-by-step procedure for sample analysis of uranium, radium and Thorium 230.~~ ^{if water or other}
6. X A description of the equipment used to remove solid radioactive material and soluble radium if tailings are discharged directly in a ground or surface water supply.

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- upgrading process*
7. ~~X~~ A flow diagram of the ~~mill production operation~~ and a diagram of plant layout, indicating areas and points in the process where dust is generated.
8. ~~X~~ A description of dust collection and ventilation equipment that are to be used when the ~~mill~~ ^{plant} is in operation, including the type, capacity and locations of such equipment, e.g. ore transfer points, crushing, grinding, etc.
9. ~~X~~ A description of the survey program which ^{will be} ~~be~~ followed to determine concentrations of airborne radioactivity within ^{work areas} ~~the mill~~, including the make, model number and capacity of sampling devices, and the step-by-step procedures for sample analysis.
11. In the description of your air sampling program, please include:
- A description of the sampling locating in respect to operating personnel;
 - a description of the sampling locating in respect to the process operation;
 - the approximate number of sampling locations in each area; and
 - the approximate number of air samples taken in each mill area per month.
10. ~~X~~ A description of the procedure ^{to be} followed in determining the average daily and weekly exposures to airborne radioactivity for each employee who may frequently or occasionally ^{occupy} ~~occupy~~ areas where air contamination exceeds MPC values specified in 10 CFR 20.
13. If respirators will be used as a temporary protective measure, describe your program for using respiratory protective equipment, including type mask and filter, methods for assuring adequate mask to face seal, procedures for maintenance and cleaning, areas of use, and management enforcement of the program.

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11. ~~X~~ A description of ^{plant} ~~mill~~ discharge stacks including stack heights, types and concentrations of effluents ^{expected to be} discharged, method for controlling release of radioactive material, and methods for determining the concentration of radioactive material released to the environs.
12. ~~X~~ A description of the method for determining exposure of employees to external radiation. ~~For film badge studies, indicate number and category of personnel involved in the program.~~
13. ~~X~~ A copy of the written radiological safety operating instructions supplied to employees. ~~These instructions should include provisions for personal hygiene, including washing prior to eating or leaving the plant, instructions for wearing personal monitoring devices, and instructions for cleaning up dust and spills within the plant.~~

If you plan to use respiratory protective equipment in the upgrading operations, your attention is directed to the provisions in 10 CFR 20, § 20.103(c), "Exposure of individuals to concentrations of radioactive material in restricted areas." However, ^aCommission authorization to use respirators is not req'd if such devices are provided for emergency use, or if such devices are used only under conditions in which a person without benefit of a respirator would not be exposed in excess of 10 CFR 20 limits.