

40-5000  
LAW:ND

JAN 10 1961

The Carbonadium Company  
P. O. Box 38  
Syrac, New York

Attention: Mr. D. E. Spink, Assistant to Manager  
Technical Branch

Gentlemen:

Enclosed is Source Material Lic-124 824-9 authorizing your processing of ore containing thorium for an additional period of six months.

Upon review of the information contained in your letter of August 3, 1960, we find that the following additional information is required:

1. A detailed description of the organization, including authority and responsibility of each level of management and/or supervision in regard to development, approval and adherence to operating procedures.

If Dr. Whipple or other consultants are to be retained to carry out certain parts of the radiation safety program and advise on radiation safety problems, information should also be submitted concerning the consultants responsibility and authority to prescribe procedural, operational and equipment modifications.

2. The qualifications and experience of the personnel in your organization assigned the responsibility for developing, conducting and administering the radiation safety program for the plant.
3. A description of the method for restricting the plant from unauthorized entry.

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4. A description of the existing liquid effluent survey program including the number, location and frequency of check samples and an outline of your procedures for radiometric analysis. A description of the equipment used to remove solid radioactive material prior to discharge of the liquid effluent from the plant area.
5. A flow diagram of the plant production operation and a diagram of plant area layout, indicating areas and points where dust is generated and a description of the associated ventilation and dust collection equipment.
6. A description of the survey program which will be followed to determine concentrations of airborne radioactivity within the mill, including the step-by-step procedures for sample analysis.
7. In the description of your air sampling program, please include:
  - A. a description of the sampling location in respect to operating personnel,
  - B. a description of the sampling location in respect to process operation,
  - C. the approximate number of sampling locations in each area.
8. If respirators are to be used as a temporary protective measure, a description of your program for using respiratory protective equipment including type, methods for assuring adequate mask to face seal, procedures for maintenance and cleaning the areas of use and management enforcement of the program.
9. A description of the plant discharge stacks including stack heights and types of effluent to be discharged, methods for controlling release of radioactive material and methods for determining the concentrations of radioactive material released to the environs.

The Carbide Company

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10. A copy of the written radiological safety operating instructions to be supplied to employees. These instructions should include provisions for personal hygiene, including washing prior to eating or leaving the plant.

Very truly yours,

J. C. Bolander  
Chief, Nuclear Materials Branch  
Division of Licensing & Regulation

Enclosure:  
License H2A-9



40-5000  
LBR:NB

JAN 10 1961

The Carbide Company  
P. O. Box 31  
Alton, New York

Attention: Mr. S. S. Spink, Assistant to Manager  
Technical Branch

Gentlemen:

Enclosed is Source Material License SM-9 authorizing your processing of ore containing thorium for an additional period of six months.

Upon review of the information contained in your letter of August 1, 1960, we find that the following additional information is required:

1. A detailed description of the organization, including authority and responsibility of each level of management and/or supervision in regard to development, approval and adherence to operating procedures.

If Dr. Whipple or other consultants are to be retained to carry out certain parts of the radiation safety program and advise on radiation safety problems, information should also be submitted concerning the consultants responsibility and authority to prescribe procedural, operational, and equipment modifications.

2. The qualifications and experience of the personnel in your organization assigned the responsibility for developing, conducting and administering the radiation safety program for the plant.
3. A description of the method for restricting the plant from unauthorized entry.

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4. A description of the routine liquid effluent survey program including the number, location and frequency of check samples and an outline of your procedures for radioisotopic analysis. A description of the equipment used to remove solid radioactive material prior to discharge of the liquid effluent from the plant area.
5. A flow diagram of the plant production operation and a diagram of plant area layout, indicating areas and points where dust is generated and a description of the associated ventilation and dust collection equipment.
6. A description of the survey program which will be followed to determine concentrations of airborne radioactivity within the mill, including the step-by-step procedures for sample analysis.
7. In the description of your air sampling program, please include:
  - A. a description of the sampling location in respect to operating personnel,
  - B. a description of the sampling location in respect to process operation,
  - C. the approximate number of sampling locations in each area.
8. If respirators are to be used as a temporary protective measure, a description of your program for using respiratory protective equipment including type, methods for assuring adequate mask to face seal, procedures for maintenance and cleaning the areas of use and management enforcement of the program.
9. A description of the plant discharge stacks including stack heights and types of effluent to be discharged, methods for controlling release of radioactive material and methods for determining the concentrations of radioactive material release to the environs.



JAN 10 1961

10. A copy of the written radiological safety operating instructions to be supplied to employees. These instructions should include provisions for personal hygiene, including washing prior to eating or leaving the plant.

Very truly yours,

J. C. Salinger  
Chief, Nuclear Materials Branch  
Division of Licensing & Regulation

Enclosure:  
License RRT-9