DOCKET NO. 40-5001
Delaney.

THE CARBORUNDUM COMPANY

THE CARBORUNDUM METALS COMPANY DIVISION
P. O. BOX 32 · AKRON, NEW YORK

August 3, 1960

Mr. J. C. Delaney
Chief, Nuclear Materials Section
Licensing Branch
Division of Licensing and Regulation
U. S. Atomic Energy Commission
Washington 25, D. C.

Ref: Source Material License No. C-4960, Amendment No. 1

Dear Mr. Delaney:

We have not heard from the Licensing Branch on our recent request for extension or the granting of a full term license to cover the storage and processing of Nigerian ore at our Parkersburg, West Virginia plant. Mr. Doulos informed us the last time licensing was not received at the expiration of the current license, that we could continue processing until we had heard otherwise from the AEC. We presume this to be the case in this instance and will continue to operate unless we hear to the contrary.

Further upgrading of our Parkersburg operation is quite apparent in the attached report on the radiological surveys of operations at the Parkersburg Plant, May 10 to July 22, 1960. This report also includes a recommended routine radiological program, which covers all operations in the plant with the exception of a sewer effluent monitoring program that will be set up after we can conduct an intensive effluent survey.

On the basis of this latest report and my earlier letter of May 3, 1960, we feel that we have complied with the requirements that you have established for a full term license. If there are any further specific items required, please let us know.

The AEC's official inspection team visited the Parkersburg operations on May 31, 1960. We were disappointed in that they did not have access to the first two reports on our radiological survey program. A copy of our latest report will be forwarded directly to Oak Ridge, attention of J. B. Hallan of the Inspection Division. All of the points made in Mr. Hallan's letter of July 5, 1960 have been corrected or otherwise acted upon.

As of July 1, processing of zirconium tetrachloride was transferred from Akron to Parkersburg so that all operations involving Nigerian ore are being conducted at Parkersburg.

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Any pertinent comments on the attached report will be appreciated.

Very truly yours,

THE CARBORUNDUM METALS COMPANY

D. R. Spink

D. R. Spink, Assistant to Manager
Technical Branch

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Attachment

D R A F T Ferrell:hgs 7-26-60

please ~~check~~ re draft

To: Lyall Johnson

From: LRRogers

Subject: The Carborundum Company, Docket No. 40-5001

Conclusion: It is suggested that the license for the subject company be extended for three months in order for Dr. Whipple (and his staff who are consultants to the licensee) to complete his survey and furnish the Commission with a description of the routine radiation safety program which will be carried out by this company.

It appears (from the surveys conducted) that during the trial run this company (has taken adequate safety precautions and) is making satisfactory progress in ~~determining~~ defining radiation problem areas and taking corrective action. ~~This company needs the additional time to complete their~~ (however it appears that there are additional areas that need attention in so far as dust control is concerned. The company seems to ~~preliminary surveys and establish a permanent radiation safety program~~ take their responsibilities for compliance seriously and seem to be willing to make any necessary equipment modifications.
~~It is recognized that additional ventilation improvements may be made as the plant personnel gain experience in processing the ore.~~

From Dustman

In order to complete the ~~final review of~~ evaluation for a full term license, the following information is requested from the licensee: ~~for the routine plant operation after Dr. Whipple completes his initial survey program and makes his recommendations.~~

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

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 arrangement made between the consultant and the licensee, the consultants responsibility, and the authority given to the consultant by the licensee to prescribe ~~them~~ procedural, operational and equipment modifications.

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3. A description of the method for restricting the plant from unauthorized entry.

4. A description of the routine liquid effluent survey program including the number, location and frequency of check samples and a step-by-stesp procedure for sample analysis for thorium content. 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, ~~including~~ indicating areas and points where dust is geneeated.

6. A description of ventilation and dust collection equipment that will be utilized when theplant will be running routinely.

7. A description of the survey program which will be followed to determine concentrations of airbrone radioactivity within the mill, including the step-by-step procedures for sample analysis.

8. In thedescription 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 the process operation.

c. The approximate number of sampling locations in each area.

9. If respirators are to be used as a temprorary 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.

10. 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.

11. 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, instructions and for wearing personnel monitorin g devices (if required).