

DAVISON CHEMICAL COMPANY
DIVISION OF W. R. GRACE & CO.
BALTIMORE 3, MARYLAND

DOCKET NO. 40-86

April 11, 1960

Mr. Lyall Johnson, Chief
Licensing Branch
Division of Licensing and Regulation
U. S. Atomic Energy Commission
Washington 25, D. C.

Reference: 40-86

Dear Mr. Johnson:

The following information is furnished in reply to your letter based upon inspection of our Pompton Plains, New Jersey, facility on November 23, 1959, by the New York Operations Office. We are indicating corrective action taken to comply with Part 20, Title 10, Code of Federal Regulations and are outlining additional corrective measures which will be completed as soon as possible in order to insure complete and continued compliance.

1. Bi-weekly surveys to determine the concentrations of airborne radioactivity are being made throughout the facility.
2. Surveys to determine the concentration of radioactivity in the plant liquid effluent were started in December, 1959. Daily aliquots are being taken and combined into representative weekly sample for radiometric analysis. Analysis of the levels of radioactivity involved indicate only 10% of the M.P.C. for natural thorium as stated in Appendix B, Table II, Part 20, and outlined in Section 20.103.
3. Surveys to determine the external radiation levels in and around the plant have been set up on a monthly basis and now include all areas where source material is stored and used.
4. Records of external radiation surveys are now maintained in the units required by Section 20.401(c).
5. No source material waste will be disposed of by incineration without prior approval by the Commission.
6. Permission will be requested by separate letter for approval to release source material waste to a storm sewer in accordance with Section 20.302.



7. Areas in which source material are stored and used have been properly posted since the inspection on November 23, 1959, in accordance with Section 20.203(e)(2).
8. Areas in which source material are stored and used have been properly posted since the inspection on November 23, 1959, in accordance with Section 20.203(b).
9. A restricted area will be established by erection of a fence which will include the facility and all storage and dump areas, and access to the restricted area will be controlled. Estimates for the fence have been requested from several contractors and are currently being reviewed.
10. The restricted area mentioned in paragraph 9 above will include storage areas for licensed source material to prevent unauthorized removal from the plant of storage.

In order to insure continued compliance with Part 20, Title 10, Mr. Peter Garino, a graduate chemist, has been made responsible for health and safety at the Pompton Plains plant.

Mr. Don Hubbard, who is presently responsible for health and safety at Davison's Erwin, Tennessee, plant, will serve as a consultant and advise Mr. Garino regarding the necessary radiation protection program at Pompton Plains. Mr. Hubbard has been actively associated with radiation protection since 1949. After serving from 1949 to 1957 as Health Physicist for Union Carbide Nuclear Co. at the Oak Ridge National Laboratory, he became a Radiation Specialist with the AEC Inspection Division at Oak Ridge. Since 1959 he has been associated with the Davison Chemical Division, W. R. Grace & Co.

In addition, Controls for Radiation, Inc., Cambridge 40, Massachusetts, has been retained to carry out certain tests and to assist generally with implementing the radiation protection program.

The information requested in your letter covering mill operations is being prepared and will be submitted in a separate reply. Confirming the telephone conversation between Mr. John J. Lane of the AEC and our Mr. Richard L. Stone on March 31, 1960, the information will cover a brief description of the process, flow sheet and outline of the carry-through of uranium, thorium and radium.

Very truly yours,

DAVISON CHEMICAL COMPANY
Division of W.R. Grace & Co.

T. O. Tongue

T. O. Tongue
Acting Production Manager