



HERMAN E. HILLEBOE, M. D.
COMMISSIONER

STATE OF NEW YORK
DEPARTMENT OF HEALTH

84 HOLLAND AVENUE
ALBANY, 8

DIVISION OF
ENVIRONMENTAL HEALTH SERVICES

MEREDITH H. THOMPSON, D.ENG.
ASSISTANT COMMISSIONER

PERMIT TO DISPOSE OF RADIOACTIVE WASTES BY BURIAL

Application having been duly made as provided by Chapter XVI, Regulation 9 of the New York State Sanitary Code, permission is hereby given to the Canadian Radium and Uranium Corporation and its assigns to dispose within a period of one year from the date of issuance of this permit radioactive waste originating at the above mentioned Corporation's plant in Mt. Kisco, New York by burial at the Croton Point Park within the Town of Cortlandt, Westchester County, New York, subject to the following conditions:

- I. THAT the Westchester County Health Department and the Westchester County Park Commission shall be notified at the beginning of disposal operations.
- II. THAT radium shall be the only radioisotope buried and that as used in this permit the radium content will be understood to mean the following:
 1. The isotope Radium 226 (Ra-226) including radioactive daughter products for this amount of radium assuming equilibrium of the daughter products with the radium.

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2. If any of the radioactive daughter products of Ra-226 are present in concentrations above those which can be accounted for by assuming equilibrium with the Ra-226 actually present, it shall be assumed that an equivalent amount of Ra-226 is present to account for the excess of daughter products.
- III. THAT the total amount of radium buried shall not exceed 75 millicuries.
- IV. THAT the average specific activity of the waste material shall not exceed 2×10^{-9} curies per gram and that the maximum allowable activity in any cubic centimeter of the waste material shall be 2 microcuries.
- V. THAT at least 10 feet of compacted fill shall be placed on the wastes immediately.
- VI. THAT the wastes in question shall be disposed of in accordance with the letter and accompanying material submitted to the Westchester County Health Department by Dr. Arthur Beisner of New York University on May 19, 1961.

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- VII. THAT the Corporation will provide qualified personnel with necessary radiation monitoring equipment during all phases of the disposal operation which would include loading of vehicles at the Corporation's plant site, transportation from plant site to disposal area, unloading of vehicles at disposal area and final covering of the radioactive material.
- VIII. THAT the New York State Health Department shall be notified if there are any changes in the conditions under which the permit is issued.

Meredith H. Thompson, D.Eng.
Assistant Commissioner

MEMORANDUM

March 5, 1958

Return to
Site

Canadian Radium & Uranium Corporation
Kisco Avenue, Mount Kisco(V), New York

Continued Use of Premises

BUREAU OF
ENVIRONMENTAL SANITATION

1. All buildings on this premises are considered a radiation source as defined under provisions of Chapter XVI, New York State Sanitary Code.
2. In order to become acceptable, buildings and equipment must be decontaminated as follows:
 - a. Decontamination of all surfaces with reduction of radioactivity so that a vigorous cleaning of the surface with 32% hydrochloric acid and steam will show less than 5% reduction in radioactivity measured by an alpha-sensitive meter.
 - b. After the room has been closed for a period of 15 days, the radon daughter level should not exceed the working level for uranium miners. A method for determining such level will be as described in a publication to be furnished. Testing to be done after cleaning of the surfaces and before painting any surface.
 - c. No radiation dose as measured in air shall exceed 30 mr/wk.(168 hours).
3. During decontamination procedures, the total exposure to workmen shall not exceed 3000 mr/quarter (13 weeks). (See Handbook 59).
4. Under no circumstances should wastes be disposed of other than in accordance with the provisions of Chapter XVI, New York State Sanitary Code.
5. The area outside of the building and on the premises owned by or under the control of the Canadian Radium and Uranium Corporation: - Removal of radioactive dirt to a depth of 12 inches will be required with disposal at an approved disposal area, probably Croton Point dump, under supervision and pursuant to the terms of a special permit to be obtained from the State Commissioner of Health. This applies to soil only, and all other material must be disposed of legally.
6. Other Buildings: under the control and use of the Canadian Radium & Uranium Corp. are to be surveyed after equipment and radiation sources are removed. Subsequently, decontamination shall be undertaken in general accordance with the foregoing.
7. Environmental areas outside of plants and control buildings: - After substantial cleanup of the main building, a survey will be made with an alpha-sensitive meter and determinations made as to areas requiring decontamination. It is expected that these will include the sidewalk area along Kisco Avenue and the drainage ditch running easterly from the main plant yard. Other areas will be considered on the basis of survey.