



CITY OF CAMBRIDGE

CITY HALL, CAMBRIDGE, MASSACHUSETTS 02139 • (617) 498-9017

OFFICE OF
THE CITY CLERK

October 27, 1981

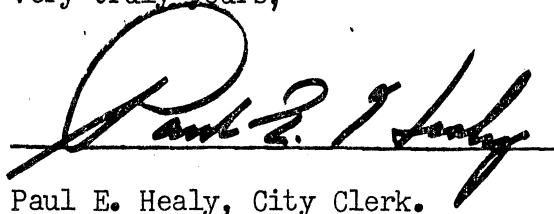
Mr. Lincoln Clark, Jr., Director
Massachusetts Institute of Technology
138 Albany Street
Cambridge, Massachusetts 02139

Dear Mr. Clark:

In reference to your communication dated October 23, 1981, a copy of which is enclosed, the City Council has scheduled, tentatively, a hearing relative to this matter for Monday, November 16, 1981 at 6:00 p.m.

If you have any questions relative to this matter, or regarding the scheduling of this hearing, please contact this office at 498-9017.

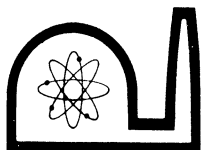
Very truly yours,


Paul E. Healy, City Clerk.

PEH/mh

Enclosure

cc: Walter Milne



NUCLEAR REACTOR LABORATORY
RECEIVED BY
OFFICE OF CITY CLERK
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
OCT 26 4 05 PM '81



O.K. HARLING
Director

138 Albany Street Cambridge, MASS.
(617) 253-4202

L. CLARK, JR.
Director of Reactor Operations

October 23, 1981

Mr. Paul E. Healy, City Clerk
City Hall
Cambridge, MA 02139

Dear Mr. Healy:

In response to the City Council's request for a person having knowledge of the subject matter in a September 28, 1981 letter addressed to me to appear at the City Council meeting of October 26, 1981, please be advised that I am the person who should appear.

It will be a pleasure to assist the City Council in any way possible regarding this matter, but I respectfully request that my appearance be scheduled for any time starting Wednesday, November 4th, since I shall be on a long-planned trip to Washington, D. C., and Virginia until that time. I regret that my appearance on October 26th will not be possible and have communicated that information to your office for the purpose of minimizing any inconvenience that may result.

Sincerely,

Lincoln Clark, Jr.

LC/sbs

cc: Walter Milne, MIT



CITY OF CAMBRIDGE

CITY HALL, CAMBRIDGE, MASSACHUSETTS 02139 • (617) 498-9017

OFFICE OF
THE CITY CLERK

October 22, 1981

Mr. Lincoln Clark, Jr., Director
Massachusetts Institute of Technology
138 Albany Street
Cambridge, Massachusetts 02139

Dear Mr. Clark:

In reference to your communication dated September 28, 1981, the City Council has requested that the person in charge of waste disposal and any other person with knowledge of the subject matter of said communication appear at the City Council meeting of October 26, 1981 at 6:30 p.m. for a public hearing.

A copy of the communication is enclosed for your files. If you have any problems in regard to this matter, please contact me at 498-9017.

Very truly yours,

A handwritten signature in dark ink, reading "Paul E. Healy", is written over a horizontal line. The signature is fluid and cursive.

Paul E. Healy, City Clerk.

PEH/mh
Enclosure
cc: Walter Milne



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555
SEP 28 1981

Docket No.: 50-20

Mr. Lincoln Clark, Jr., Director
Massachusetts Institute of Technology
138 Albany Street
Cambridge, MA 02139

Dear Mr. Clark:

The Commission has issued the enclosed Amendment No. 18 to Facility Operating License No. R-37 for the Massachusetts Institute of Technology tank-type reactor in response to your request for amendment dated May 14, 1981.

This amendment changes Technical Specification 3.8.1.a to delete the 1 curie limitation for the annual total quantity of radioactive material released to the sanitary sewer system. Since your Technical Specifications were written in 1975 and since Section 20.303(d) of 10 CFR Part 20 has been recently amended, the 1 curie limitation is no longer appropriate.

Technical Specification 3.8.1 specifies that the release of radioactive effluents from the reactor site will comply with all provisions of Part 20, Title 10, Code of Federal Regulations. Section 20.303(d), as amended, now specifies: "The total quantity of licensed and radioactive material, excluding hydrogen-3 and Carbon 14, released into the sewerage system by the licensee does not exceed one curie per year. The quantities of hydrogen-3 and carbon-14 released into the sanitary sewerage system may not exceed 5 curies per year for hydrogen-3 and 1 curie per year for carbon-14." Per your request, your Technical Specifications now permit you to release more than 1 curie of hydrogen-3 into the sanitary sewerage system.

Based on the fact that this amendment involves changes to your Technical Specifications which reflect the recent amendment to 10 CFR 20.303(d) for release of radioactive material into the secondary sewerage system, we have determined that this amendment is administrative in nature. Therefore, we have concluded that:

- (1) the amendment does not involve a significant increase in the probability or consequence of accidents previously considered, does not involve a significant decrease in a safety margin, and therefore, does not involve a significant hazards consideration;

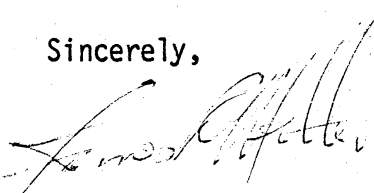
SEP 28 1981

- (2) there is reasonable assurance that the health and safety of the public will not be endangered by this action; and
- (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

We have determined that this amendment will not result in any significant environmental impact and that it does not constitute a major Commission action significantly affecting the quality of the human environment.

We have also determined that this action is not one of those covered by 10 CFR 51.5(a) or (b). Having made these determinations, we have further concluded that, pursuant to 10 CFR 51.5(d)(4), an environmental impact and negative declaration need not be prepared in connection with issuance of this amendment.

Sincerely,



James R. Miller, Chief
Standardization & Special
Projects Branch
Division of Licensing

Enclosure:
Amendment No. 18

Massachusetts Institute of
Technology

-3-

cc w/enclosure(s):

Mayor of the City of Cambridge
Cambridge, Massachusetts 01401

Energy Facilities Siting Council
14th Floor
One Ashburton Place
Boston, Massachusetts 02108



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

DOCKET NO.: 50-20

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 18
License No. R-37

1. The Nuclear Regulatory Commission (the Commission) has found that:

- A. The application for amendment by Massachusetts Institute of Technology (the licensee) dated May 14, 1981, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
- B. The facility will operate in conformity with the provisions of the Atomic Energy Act of 1954, as amended, and the rules and regulations of the Commission;
- C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
- D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public;
- E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied; and
- F. Publication of notice of this amendment is not required since it does not involve a significant hazards consideration nor amendment of a license of the type described in 10 CFR Section 2.106(a)(2).

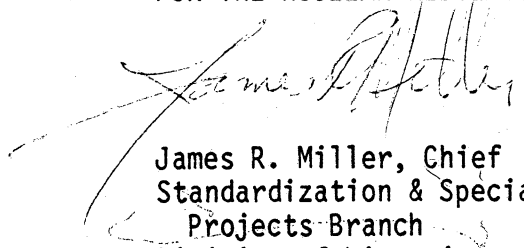
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the Attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. R-37 is hereby amended to read as follows:

2.C.(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 18, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. The license amendment is effective 30 days from the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



James R. Miller, Chief
Standardization & Special
Projects Branch
Division of Licensing

Date of Issuance: September 28, 1981

ATTACHMENT TO LICENSE AMENDMENT NO. 18

FACILITY OPERATING LICENSE NO. R-37

DOCKET NO. 50-20

Revise Appendix A as follows:

Remove Page

3-26

Insert Page

3-26

3.8 Radioactive Effluents and Radiation Monitors

Applicability

This specification applies to radioactive effluents released from the reactor site and the radiation monitors.

Objective

To assure that the release of radioactive effluents to the environs are within the limits of 10 CFR Part 20.

Specification

1. The release of radioactive effluents from the reactor site will comply with all provisions of Part 20, Title 10, Code of Federal Regulations with the following exemptions:

- a. Recognizing that periodic leakage can occur between the D₂O system and the cooling tower water, tritium from the reactor secondary coolant system is exempt with the requirement that on indication of 1 uCi/liter of tritium in the secondary coolant water, the cooling tower spray shall be shut down, the secondary system water discharge shall be stopped and the D₂O reflector heat exchange shall be isolated until tritium leakage into the secondary system has been controlled.
- b. A dilution factor of 3,000 shall be applicable to the concentration of airborne effluents released from the stack except for particulates and iodines with half lives greater than 8 days in each case. A reconcentration factor of 700 will be used for these particulates and iodines.

2. Whenever the containment is not isolated and containment is required, the following shall be provided:

3-610
Comm. from James R. Miller, Chief, Nuclear
Regulatory Commission re: amendment to
the facility operating license of the
M.I.T. tank-type reactor.

11/16/81 Hearing Hcl4
See NOTES OF Hearing
10-19-81

Referred to Hearing
for October 26/1981
on Motion of Councilor
Vellucci

Mr. Clarke notified of
hearings scheduled for
In City Council, Nov. 16, 1981 at 6:00 p.m.
October 19, 1981 on 10/28/81 cc Walter/Mr. Mc
mh

10-19-81
Ind notification along
with hearing schedule form
to Mr. Clarke 11/12/81
Requested Mr. Clark
mh

To appear before
City Council next week -

Bring along officer
in charge of waste
disposal 10/22/81 cc Walter/Mr. Mc
mh