



NUCLEAR REACTOR LABORATORY
AN INTERDEPARTMENTAL CENTER OF
MASSACHUSETTS INSTITUTE OF TECHNOLOGY



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Activation Analysis
Coolant Chemistry
Nuclear Medicine
Reactor Engineering

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Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555


Subject: Submission of Revision One of Safety Analysis Report, Operating License No. R-37, Massachusetts Institute of Technology, Docket No. 50-20

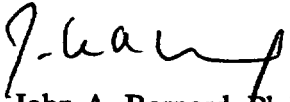
Gentlemen:

On 8 July 1999, the Massachusetts Institute of Technology requested renewal of Reactor Operating License No. R-37. As part of that request, an updated safety analysis report (revision zero) was submitted. Enclosed is revision one to that Safety Analysis Report. This replaces revision zero in its entirety. Most of the changes incorporated in revision one were made at the suggestion of the MIT Committee on Reactor Safeguards for the purpose of improving clarity. There were also several substantive changes. These include a reduction in the amount of byproduct material that may be received on the MITR Operating License, a more conservative approach to the handling of radiolytic gas generated in the reactor core or reflector tanks, and an updated description of the secondary coolant system. The latter includes the new cooling tower for which installation was completed in September 1999. Also submitted at this time are a revised set of technical specifications.

Please contact the undersigned if further information is required.

Sincerely,


Lin Wen Hu, Ph.D.
Reactor Relicensing Engineer


John A. Bernard, Ph.D.
Director

JAB/koc

Enclosure

cc: USNRC - Senior Project Manager,
NRR/ONDD
USNRC - Region I - Project Scientist
Effluents Radiation Protection Section (ERPS)
FRSSB/DRSS