

July 26, 1984

Dr. Ronald S. Kane
Reactor Administrator
Zero Power Reactor
Manhattan College
c/o Mechanical Engineering Dept.
Riverdale, New York 10471

Dear Dr. Kane:

By letter dated June 1, 1984, you submitted Revision 3 to the Manhattan College Operator Requalification Program. The staff of the Nuclear Regulatory Commission has completed its review of your submittal and has found that it meets the requirements of Appendix A to 10 CFR Part 55 for non-power reactors. The plan is therefore approved. The enclosure contains our evaluation of your revised program. If you have any questions, please contact Angela Chu, our Project Manager for your facility at (301) 492-9798.

Sincerely,

ORIGINAL SIGNED BY
Cecil O. Thomas, Chief
Standardization & Special
Projects Branch
Division of Licensing

Enclosure: As stated

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

July 26, 1984

Docket No.: 50-199

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Manhattan College

50-199

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Evaluation of Manhattan College
Operator Requalification Program - Revision 3
Docket No. 50-199

Background - In response to Inspection Report 50-199/83-01 conducted by Region 1 during June 6-8, 1983, the licensee submitted an Operator Requalification Program on August 17, 1983. In response to this submittal, an RAI was developed by the Licensee Qualifications Branch and transmitted to the licensee on October 31, 1983. The licensee response to the RAI on January 9, 1984 resolved all but two issues. NRR position on these issues was transmitted to the licensee on April 23, 1984, which resulted in the licensee submitting Revision 3 of their program on June 1, 1984.

- I. Evaluation - The Manhattan College Zero Power Reactor (MCZPR) Operator Requalification Program contains the following elements: Schedule, Lectures, On-the-Job Training, Evaluation and Records.

Schedule - The schedule requires that the program be conducted continuously over two year cycles that begin on September 1 of even number years. Since we have informed the licensee to implement the program, we assume the program was implemented in September 1983. The schedule also requires that a written examination be administered to licensed personnel as their license approaches expiration. We find these conditions are acceptable for the MCZPR program.

Lectures - Since the MCZPR licensed personnel participate as professors, the program requires them to prepare and present lectures each semester on theory, operation and safety features of the MCZPR. In addition, at least one lecture with laboratory demonstration will be required by each licensed professor each semester. We find that this method does provide licensed personnel the opportunity to prepare and present subject material which should keep licensed personnel proficient in theory and operation of the MCZPR.

On the Job Training - The program requires each licensed personnel to perform a complete checkout at least once every four months and to perform at least 10 reactivity manipulations over the two year period. In addition, since the licensed personnel also serve on the Reactor Operations Committee, they will be aware of facility design, procedures, and license changes. We find these conditions acceptable.

Evaluations - The written examinations will contain those subjects in Appendix A of 10CFR Part 55. In addition, each licensed person is required to attain an overall grade of 80% or 70% in a category. Additional training and reexaminations are required if these grades are not attained. Evaluations of licensed personnel performance on the MCZPR is conducted at least once every four months. We find these evaluations acceptable for the MCZPR.

Records - Documentation of licensed personnel will be maintained for a minimum of two years as required by Appendix A of 10 CFR Part 55.

II. Evaluation Criteria - The following documents were used in our evaluation of the MCZPR Requalification Program.

- ° Appendix A of 10 CFR Part 55
- ° ANSI/ANS 15.4 Selection and Training of Personnel at Research Reactors. (Referenced in Generic Letter 83-12A)

This evaluation was conducted by Joseph J. Buzy, Licensee Qualifications Branch, Division of Human Factors Safety.