

U. S. NUCLEAR REGULATORY COMMISSION  
REGION I

Docket No. 50-199

License No. R-94

Licensee: Manhattan College Corporation  
Mechanical Engineering Department  
Riverdale, New York 10471

Facility Name: Zero Power Reactor

Type of Meeting: Management Meeting

Meeting Date: January 7, 1991

Prepared by: *M. A. Austin* 1/25/91  
M. A. Austin, Radiation Specialist,  
Effluents Radiation Protection Section  
(ERPS), Facilities Radiological Safety  
and Safeguards Branch (FRSSB) date

Approved by: *R. J. Bones* 1/28/91  
R. J. Bones, Chief, ERPS, FRSSB, Division  
of Radiation Safety and Safeguards date

Meeting Summary: Recent changes in the NRC Region I inspection program for non-power reactors were discussed. The findings of the recent NRC Inspection Report No. 50-199/90-02 were reviewed. The licensee representatives described the actions they were taking to address these findings. The licensee representatives were advised to carefully review their Technical Specifications to determine overall compliance status.

## DETAILS

### 1.0 Meeting Attendees

#### 1.1 Manhattan College Corporation

R. Berlin, Reactor Administrator  
W. Duggan, Chief Reactor Supervisor  
A. Mella, Graduate Laboratory Assistant

#### 1.2 Nuclear Regulatory Commission (NRC)

M. Austin, Radiation Specialist  
R. Bores, Chief, Effluents Radiation Protection Section  
T. Dragoun, Project Scientist  
T. Michaels, Licensing Project Manager

### 2.0 Summary of Discussion

Dr. Bores opened the meeting by presenting a summary of background information describing the changes made within NRC Region I regarding the inspection of non-power reactors (NPR). Dr. Bores explained that the responsibility to implement the NPR inspection program in Region I had been consolidated and assigned to the Effluents Radiation Protection Section (ERPS) of the Division of Radiological Safety and Safeguards (DRSS). Dr. Bores stated that Mr. Dragoun, Project Scientist, was responsible for coordinating the overall NPR inspection program, and that Mr. Austin, Radiation Specialist, was assigned as Principal Inspector of the Manhattan College Zero Power Reactor (MCZPR). Dr. Bores explained that these organizational changes had been made to improve the continuity and consistency of the NPR inspection program, which had been items of concern expressed by the NPR community to the NRC.

Dr. Berlin responded by stating that the MCZPR organization had also changed in that Dr. Duggan had been hired as the new Chief Reactor Supervisor in August 1990. Dr. Berlin also explained that the licensee was still in a transition of evaluating and changing old practices that were established by the previous Reactor Administrator and had been implemented many years ago.

Dr. Berlin provided information regarding actions taken or planned by the licensee to address the two violations and certain other findings described in NRC Inspection Report 50-199/90-02.

Regarding the violation involving failure to calibrate the two radiation monitoring channels of the Radiation Monitoring System, the licensee had not yet determined the specific method that would be used, but the licensee committed that these calibrations would be completed before the new fuel is loaded into the reactor core.

Regarding the violation involving failure to perform biennial audits of the reactor facility operations, the licensee's Reactor Operations Committee had not yet decided who it would use to conduct these audits, but the licensee was considering utilizing personnel from the Manhattan College facility, nearby power reactor staffs, or other nearby NPR organizations.

Regarding the finding of a poorly maintained health physics (HP) logbook, the licensee planned to develop and use a standardized page format that would help ensure all required HP surveillance data are collected and recorded. The licensee planned to retain this HP Logbook data record in a looseleaf notebook. Dr. Bores suggested that these standard format pages be numbered in some way to readily identify if any pages were missing.

Regarding the concern about the adequacy of radioanalyses performed by the health physics consultant, the licensee planned to meet with the consultant to discuss this concern and ensure that a proper evaluation of the radioanalytical methods was conducted.

Regarding the concern about the radioanalysis of spent demineralizer resin, the licensee planned to send a representative sample of the spent resin to the Indian Point Power Plant laboratory for radioisotopic analysis. Dr. Berlin stated that there has been no offsite disposal of spent resin for approximately five years.

### 3.0 Conclusions

Dr. Bores stated that the findings of the most recent NRC Inspection Report No. 50-199/90-02 indicated that the licensee representatives should closely review the technical specifications of their license to determine their compliance status and to identify where changes (e.g., amendments) may be needed.

The meeting concluded with a brief discussion of the type of information that the licensee must include in its reply to the Notice of Violation, which was transmitted to the licensee by an NRC letter, dated December 27, 1990, pertaining to Inspection No. 50-199/90-02. The meeting attendees were in agreement that the meeting had been helpful to both the NRC and licensee in understanding more clearly the expressed concerns and planned actions.