



Rensselaer Polytechnic Institute Troy, New York 12181

March 1, 1981

Director  
Division of Reactor Licensing  
U.S. Nuclear Regulatory Commission  
Washington, DC 20545

Re: Rensselaer Polytechnic Institute  
Facility License CX-22  
Docket 50-225  
Report of Tests and Experiments



Dear Sir:

This report of tests and experiments is submitted, in accordance with Title 10 of the Code of Federal Regulations Part 50.59, for the period March 1, 1980 to March 1, 1981.

The fuel plates used comprised a core loading of 152 MTR type, flat, stationary plates and 24 MTR type flat, control rod plates. Ten stationary and 2 control rod plates are stored in the fuel vault. All of the fuel plates are leased by the U.S. Department of Energy under contract DE-AC02-76ER03457.

Through periods March 1, 1980 to April 23, 1980 and July 7, 1980 to August 13, 1980 the Facility was used to conduct a graduate level course on reactor experiments for classes of 12 and 7 students respectively. The Facility was also used for two days as part of the Rensselaer Polytechnic Institute's summer course for industry on reactor design. Further, three students were involved in project work at the Facility to satisfy degree requirements. The reactor experiments course is currently being taught and three students are working on projects (two masters and one senior project).

Routine scheduled maintenance was performed in June, January and February.

Two projects were completed during the report period. The core was successfully reconfigured within the license limits and the neutron activation analysis project was completed.

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The experiments, operations, and topics covered in association with the use of the facility remain the same as described in previous reports.

All activities and experiments have been conducted in accordance with our NRC reactor license CX-22. There have been no changes to our Technical Specifications and our activities did not involve any unreviewed safety questions.

Sincerely yours,

*Peter Nelson*  
Peter R. Nelson, Supervisor  
RPI Critical Experiments Facility  
L. David Walthousen Laboratory

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cc: D. R. Harris  
R. T. Lahey, Jr.  
R. E. Scammell