



Rensselaer Polytechnic Institute Troy, New York 12181

March 1, 1984

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

Re: Rensselaer Polytechnic Institute
Facility License CX-22
Docket 50-225
Annual 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, 1982 to March 1, 1983.

The fuel plates used comprised a core loading of 152 MTR type, flat, stationary plated and 24 MTR type flat, control rod plates. One stationary plate is 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 January 1, 1982 to May 1982 and May 1982 to July 1982, the Facility was used to conduct a graduate level course on reactor experiments for classes of 15 and 7 students, respectively. The Facility was also used for 2 weeks in July and August for an operational reactor physics and engineering course for 3 engineers from Rochester Gas and Electric Company. Further, two students were in project work at the Facility to satisfy degree requirements. The reactor experiments course is currently being taught to 15 students.

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

One Master's project was completed during the report period. This project measured sensitivity to bubble voids in the center cell and measured transport times.

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

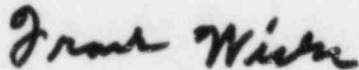
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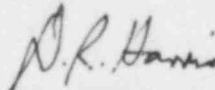
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All activities and experiments have been conducted in accordance with our NRC reactor License CX-22. Our activities did not involve any unreviewed safety questions. CX-22 was relicensed on December 2, 1983, for a twenty-year period. The Technical Specifications were modified. The maximum allowable excess reactivity is now .60\$. Safety Evaluation Report (NUREG-1023) issued October, 1983 related to the renewal.

Sincerely yours,



Dr. Frank Wicks, Supervisor
RPI Critical Experiments Facility
L. David Walthousen Laboratory



Dr. Donald R. Harris, Director
RPI Critical Experiments Facility
L. David Walthousen Laboratory

FW:mb

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