



The University of New Mexico

Chemical & Nuclear Engineering
MSC01 1120
1 University of New Mexico
Albuquerque, NM 87131-0001

August 5, 2004

Pat Isaac
Project Manager
Non-Power Reactors and Decommissioning Project Directorate
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington D.C. 20555-0001

Dear Mr. Isaac;

Enclosed is the 2004 Annual Report for the AGN-201M reactor located at the University of New Mexico - Docket 50-252.

Sincerely,

Robert D. Busch, Ph.D. P.E.
Chief Reactor Supervisor

Anil K. Prinja, Ph.D.
Reactor Administrator

cc: *Document Control Desk, USNRC*

A020

REPORT ON FACILITY LICENSE NO. R-102

THE UNIVERSITY OF NEW MEXICO

JULY 1, 2003 - JUNE 30, 2004

The University of New Mexico's AGN-201M reactor was used for some research during 2003-2004. This was a continuation of the research from the previous year and involved subcritical multiplication and die-away measurements at power levels below 1 microWatt. There were no changes in facility design, performance characteristics, or operating procedures related to reactor safety during the reporting period. The NRC did an on-site review of the facility in October 2003 and found no safety concerns or noncompliance issues.

The AGN-201M Reactor Facility is an essential part of our educational program, including public education, and continues to serve us well. The use of the reactor from July of 2003 through June of 2004 was as follows:

Type of Use	July 03 - June 04 Hours	July 03 - June 04 Watt-hours
Class Demonstrations	0.8	0.8
Faculty Research	3.0	0.0
Graduate Student Research	0.0	0.0
Maintenance and Equipment Check	12.5	0.0
Operator Training and Requalification	12.1	29.1
Teaching	40.0	98.7
Totals for the Year	68.4	128.65

During the annual maintenance in August 2003, we checked the detector cans and found corrosion on the Channel 1 can. This can was replaced with a PVC container as an interim. All detector cans will be inspected again as part of the 2004 annual maintenance.

There were no changes to the facility as it is described in the application for license and amendments thereto, nor were there any changes to the procedures as described in Facility Technical Specifications. No new experiments were performed during the reporting period.

There were no 10 CFR 50.59 issues during the reporting period. During the reporting period, there was no liquid radioactive waste released from the facility nor was there any solid waste released. There were no environmental radiation surveys performed outside the facility. All personnel exposures received during the reporting period were below 50 mrem per person with the majority of personnel receiving below 5 mrem. No facility visitors received measurable exposures.

Dr. Anil Prinja has replaced Dr. Norman Roderick as director of the nuclear engineering program and reactor administrator. The current personnel assignments are:

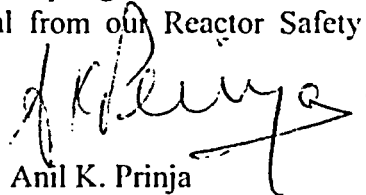
Dean, College of Engineering	Joseph Cecchi
Chair, Department of Chemical and Nuclear Engineering	Julia Fulghum
Reactor Administrator	Anil K. Prinja
Chief Reactor Supervisor	Robert D. Busch
USNRC-licensed Senior Reactor Operators	Robert D. Busch Ken Carpenter Gary Cooper

The current makeup of the Reactor Safety Advisory Committee is:

James Bryson
Ron Knief
Robert Long
Ted Schmidt
Joseph Sholtis
David Summers

with no vacant position although Ted Schmidt has retired from Sandia and may soon be retiring from the committee.

The University of New Mexico's AGN-201M reactor continues to be used extensively for teaching experiments as a part of our undergraduate and graduate programs. These experiments include approach-to-critical, reactor period and reactivity measurements, importance functions measurements, sample activation, control rod calibrations, and reactor power and neutron fluence measurements. The reactor is also used throughout the Fall, Spring and Summer sessions of the University. All experiments have received prior approval from our Reactor Safety Advisory Committee.



Anil K. Prinja
Reactor Administrator