



The University of New Mexico

Chemical & Nuclear Engineering
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September 18, 2007

Director, Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Enclosed is the 2007 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

UNIVERSITY OF NEW MEXICO
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REPORT ON FACILITY LICENSE NO. R-102

THE UNIVERSITY OF NEW MEXICO

JULY 1, 2006 - JUNE 30, 2007

The University of New Mexico's AGN-201M reactor was not used for some research during 2006-2007. 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 April 2007 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 2006 through June of 2007 was as follows:

Type of Use	July 05 - June 06 Hours	July 05 - June 06 Watt-hours
Class Demonstrations	3.8	3.8
Faculty Research	0.0	0.0
Graduate Student Research	0.0	0.0
Maintenance and Equipment Check	34.5	0.0
Operator Training and Requalification	12.0	28.5
Teaching	53.5	126.8
Totals for the Year	103.8	159.1

During the annual maintenance in August 2006, we checked the detector cans and found all to be in good condition including the Poly container for Channel 1. We created a final can design that will allow replacement of all containers as needed. In December 2006, we installed the new can design for channel 2. A 50.59 review of the can replacement was done and no safety issues were identified. Little change in current was noted with a new polyethylene detector can for channel 2. The detector location in the water already provided adequate moderation so the additional moderation provided by the Poly can had minimal impact. All detector cans will be inspected again as part of the 2007 annual maintenance, and the can for Channel 3 will be replaced (A 50.59 review will be done at that time as this is a safety channel).

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.

An application for license extension was filed on February 22, 2007.

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
USNRC-licensed Reactor Operators (inactive)	David Hinder
License terminated	Eduardo Padilla

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