



The University of New Mexico

Chemical & Nuclear Engineering
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September 29, 2005

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

Enclosed is the 2005 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. Prihja, Ph.D.
Reactor Administrator

cc: *Document Control Desk, USNRC*

A020

REPORT ON FACILITY LICENSE NO. R-102

THE UNIVERSITY OF NEW MEXICO

JULY 1, 2004 - JUNE 30,2005

The University of New Mexico's AGN-201M reactor was used for some research during 2004-2005. 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 July 2004 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 2004 through June of 2005 was as follows:

Type of Use	July 04 - June 05 Hours	July 04 - June 05 Watt-hours
Class Demonstrations	2.4	6.7
Faculty Research	3.1	1.7
Graduate Student Research	0.0	0.0
Maintenance and Equipment Check	12.5	0.0
Operator Training and Requalification	18.2	50.6
Teaching	86.5	173.8
Totals for the Year	110.1	232.8

During the annual maintenance in August 2004, we checked the detector cans and found all to be in good condition including the interim PVC container for Channel 1. We are working on a new can design that will allow replacement of all containers as needed. All detector cans will be inspected again as part of the 2005 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.

In April 2005, six undergraduate students took the NRC licensing exam and three passed, receiving their Reactor Operator licenses. 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	Daniel Casey David Hinder 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