UNM

Chemical & Nuclear Engineering

September 9, 2011

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Enclosed is the 2011 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: *Linh Tran*

A020
NRR

The University of New Mexico • MSC01 1120 • 1 University of New Mexico • Albuquerque, NM 87131-0001 • Phone 505.277.5431 • Fax 505.277.5433 • www.unm.edu
209 Farris Engineering Building

REPORT ON FACILITY LICENSE NO. R-102

THE UNIVERSITY OF NEW MEXICO

JULY 1, 2010 - JUNE 30, 2011

The University of New Mexico's AGN-201M reactor was used for one graduate research project during 2009-2010. The project was to revise and enhance two laboratory experiments involving neutron temperature and foil self shielding. There were no changes in facility design, performance characteristics, or operating procedures related to reactor safety during the reporting period.

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 2010 through June of 2011 was as follows:

Type of Use	July 10 - June 11 Hours	July 10 - June 11 Watt-hours
Class Demonstrations	9.0	16.66
Faculty Research	0.0	0.0
Graduate Student Research	5.2	9.12
Maintenance and Equipment Check	59.0	0.0
Operator Training and Requalification	22.5	43.68
Teaching	85.6	245.04
Totals for the Year	181.3	314.50

During the annual maintenance in August 2010, we checked the detector cans and found the poly containers for Channel 1, Channel 2, and Channel 3 to be in good condition. The poly containers appear to be holding up well in the water environment. All detector cans will be inspected again as part of the 2011 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.

The current personnel assignments are (as of July 1, 2011):

Dean, School of Engineering	Gruia-Catalin Roman
Chair, Department of Chemical and Nuclear Engineering	Tim L. Ward
Reactor Administrator	Anil K. Prinja
Chief Reactor Supervisor	Robert D. Busch
USNRC-licensed Senior Reactor Operators	Robert D. Busch Ken Carpenter Gary Cooper

The makeup of the Reactor Safety Advisory Committee as of June 30, 2011 is:

James Bryson
Charles Harmon II
Ron Knief
Ted Schmidt
David Summers
Darren Talley

There are currently no vacant positions on 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