

2004 ANNUAL REPORT

TAMUS HSC College of Medicine
Medical Research Building
Radioactive Material License No. L05494

The following report reflects the calendar year 2004 activity on the Radioactive Material License No L05494, initially issued on February 28, 2002. Amendment 03 issued on March 15, 2004 was in regards to in-house disposal via landfill and sanitary sewer. Amendment 04 issued on September 27, 2004 was adding Dr. Cao as a permit holder.

There were fifteen individuals monitored for external radiation exposure for the calendar year 2004. The highest Deep Dose Equivalent (DDE) recorded was 35 mrem and the total annual dose for all the monitored employees was 86 mrem.

The radiation safety training program in 2004 consisted of five components: General Radiological Safety Training taught by the TAMU Environmental Safety and Health Department in College Station; MRB site-specific procedures and regulations presented as a self-study power point presentation or formal class and examination; check-in procedures for radioactive materials presented as a hands-on workshop and examination; radiation awareness training geared towards ancillary personnel and non-radiation workers in the building; and biennial general radiation safety refresher presented as self-study and examination. Three people attended the TAMU General Radiological Safety Training, ten attended site-specific, and three people went through check-in workshop. Twenty eight ancillary personnel attended the general radiation awareness training, and two completed the biennial radiation safety refresher training.

Three shipments of radioactive dry, aqueous, and scintillation waste to an authorized low-level waste facility were completed in 2004 utilizing Bionomics, Inc. First shipment consisting of ^3H , ^{32}P , ^{36}Cl , and ^{125}I with a total activity of 3.1 mCi was picked up on February 4, 2004; the second consisting of deregulated ^3H with an activity of 320 μCi was picked up on April 13, 2004; and the last one picked up on September 23, 2004 consisted of ^3H , ^{55}Fe , ^{36}Cl and deregulated ^3H with the total activity of 0.97 mCi.

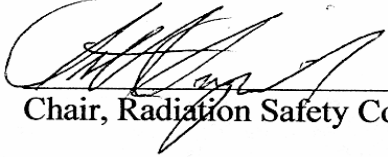
Five carboys of liquid waste were disposed of by sanitary sewer. On September 9, 2004 three carboys of ^{32}P and ^{125}I with a total activity of 0.36 mCi were disposed. The other two mixed liquid waste were allowed to decay and were disposed of as chemical waste on November 23, 2004. Seventeen ^{32}P dry solid waste bags were allowed to decay and were disposed of as "non-radioactive".

Quarterly reviews were conducted for all active permittee labs which consisted of random contamination surveys, confirmation of appropriate signage, and ensuring that survey instruments had current calibration. Thirty-six monthly random contamination surveys were conducted in the multi-user areas. Annual permittee reviews were conducted for all the permit holders. The review consisted of: the permittee's use of radioactivity; training of personnel; receipt, usage, post contamination surveys and waste paperwork; signage; portable survey instruments; security of radioactive materials; procedures; and physical inventory of materials.

Seven of the permittees whose permit expired in 2004 applied for renewal of their permits.

The Radiation Safety Committee met twice (third one deemed not necessary) in 2004. Permit holders on this license conducted activities as per the conditions of their permit.

Report submitted by: Lalka Vasudevan Date: 5/26/05
MRB Radiation Safety Officer

Reviewed by:  Date: 5/26/05
Chair, Radiation Safety Committee