



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, ILLINOIS 60532-4352

OCT 31 2011

Regis Greenwood
Radiation Safety Officer
American Radiolabeled Chemicals
101 ARC Drive
St. Louis, Missouri 63146

Dear Mr. Greenwood:

Enclosed is Amendment No. 45 to your NRC Material License No. 24-21362-01 in accordance with your request.

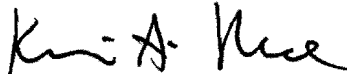
Please note that in accordance with a telephone conversation on October 28, 2011, with Regis Greenwood, we have excluded the reference to your Bioassay Program and the facility changes involving installation of the charcoal filters. These requests are still under review and will be addressed in the license renewal. In addition, the amendment request excludes the Standard Operating Procedures (SOPs) revisions. The SOPs, currently under review, will be addressed in a future license amendment.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office at (630) 829-9887 so that we can provide appropriate corrections and answers.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and the enclosed license will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). The NRC's document system is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please feel free to contact me at (630) 829-9830 if you have any questions.

Sincerely,


For Cassandra F. Frazier
Senior Health Physicist
Materials Licensing Branch

License No. 24-21362-01
Docket No. 030-20567

Enclosure: Amendment No. 45