



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

JUL 24 2011

Scott C. Brower, R.Ph.
Radiation Safety Officer
Mid-America Isotopes, Inc.
706 E. Liberty Lane
Ashland, MO 65010

Dear Mr. Brower:

Enclosed is Amendment No. 12 to your NRC Material License No. 24-26241-01MD in accordance with your request.

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.

Although your letter dated April 26, 2011, addressed your bioassay program, we noted that it was based on Regulatory Guide 8.20, which was written in 1979 and is structured upon "old" 10 CFR Part. 20.

10 CFR Part 20 was revised in its entirety in May 1991. Your licensed program is currently subject to compliance with the revised 10 CFR Part 20, regardless of where it may conflict with "old" Part 20, as expressed in Regulatory Guide 8.20.

It appears that, between the commitments made in your application dated October 6, 2010, and the letter dated April 26, 2011, the minimum internal dose assessment safety elements have been incorporated into your license.

Also, thank you for the clarification concerning the afterhours radioactive package receipt area in your facility.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the General Statement of Policy and Procedure for NRC Enforcement Actions. Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

S. Brower

In accordance with 10 Code of Federal Regulations 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Sincerely,

A handwritten signature in cursive script that reads "Colleen Carol Casey".

Colleen Carol Casey
Materials Licensing Branch

License No. 24-26241-01MD
Docket No. 030-31896

Enclosure:

Amendment No. 12