



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

APR 10 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. 11 renewing 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.

Please note that your renewal application and supporting documents were partially incomplete and that we will need the following information responded to, in writing, within 30 days of the date of this letter. If 30 days is insufficient to prepare your response, please contact me at 630-829-9841 to make alternative arrangements.

Please prepare a written response, addressed to my attention, as "additional information to control number 573734," to facilitate proper handling in our office. Since I was unable to complete my review, I temporarily retained all of the documents in the last, tie-down condition of your license to ensure your licensed program is adequately supported. I will revisit this matter when considering your response.

1. Your facility diagrams and description did not specify where and how packages of radioactive material are delivered afterhours. Please provide this information in a revised diagram and description. Please be reminded that this area must be secure from unauthorized persons and must be a restricted area.
2. Your renewal application dated October 6, 2010, with attachments, indicated which Authorized Nuclear Pharmacists (ANPs) should be listed on the license. However, eight ANPs listed on Amendment No. 10 of your license were not mentioned. Although it was not entirely clear to me what your intentions were, I deleted authorization for ANPs Andrew McKusick, Lawrence Adamovic, Joseph Huber, Stephen Potter, Frank Ruddy, Ray Wilkinson, Kyle Oelrichs and Tara Carpenter.

If it was not your intention to have these ANPs deleted, please contact me immediately at the phone number above.

Most importantly please note that you must make specific instructional statements in licensing correspondence because the lack of information does not constitute a directive to us to change your license.

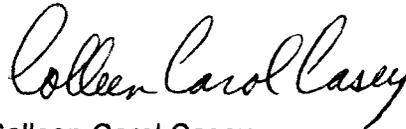
S. Brower

3. **Your application did not address bioassay frequencies, procedures, action levels, thresholds for implementation, equipment used, etc. Please specify the radiation safety program elements and characteristics for iodine-131 bioassay including, but not necessarily limited to, the above.**

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.

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,



Colleen Carol Casey
Materials Licensing Branch

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

Enclosure: Amendment No. 11