September 10, 2010

Mr. John J. Miller, CHP
International Isotopes, Inc.
4137 Commerce Circle
Idaho Falls, ID 83401

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION – INTERNATIONAL ISOTOPES FLUORINE PRODUCTS LICENSE APPLICATION FOR THE PROPOSED DECONVERSION FACILITY (TAC 32739)

Dear Mr. Miller:

The U.S. Nuclear Regulatory Commission (NRC) staff has completed its initial technical review regarding the safety and security areas of your license application for the International Isotopes Fluorine Products, Inc. for the Fluorine Extraction Process and Depleted Uranium Deconversion facility, which is proposed to be constructed and operated in Lea County, New Mexico. Your application was transmitted by letter dated December 30, 2009. Our review of your application has identified that additional information is needed before the staff can reach a final safety decision.

The enclosed Request for Additional Information (RAI) addresses the majority of review areas for the safety portion of the license application—but does not include RAIs for human factors, electrical/digital instrumentation and control, and the environmental report. RAIs associated with the review of these additional sections will be provided at a later date.

Please provide the additional information requested in the attachments within 30 days of the date of this letter.

In accordance with Title 10 of the *Code of Federal Regulations* 2.390 of the NRC's "Rules of Practice," a copy of this letter and Enclosure 1 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). ADAMS is accessible from the NRC Web site at http://www.nrc.gov/reading-rm/adams.html (the Public Electronic Reading Room).

Enclosure 2 contains Sensitive-Unclassified security information; and is, therefore, deemed Official Use Only and will neither be placed in the Public Document Room or the Publicly Available Records component of the NRC's ADAMS. As you are aware, the NRC's Regulatory Issue Summary 2005-31 provides guidance for the handling and submission of Security-Related Sensitive Unclassified Non-safeguards information by applicants.

The Enclosure contains OUO-Security Related Information. When detached from Enclosure, this letter is decontrolled.

If you have any questions regarding this letter, please contact me at 301-492-3119 or via e-mail to matthew.bartlett@nrc.gov.

Sincerely,

/RA/

Matthew Bartlett, Project Manager
Advanced Fuel Cycle, Enrichment, and
Uranium Conversion Branch
Division of Fuel Cycle Safety
and Safeguards
Office of Nuclear Material Safety
and Safeguards

Docket No.: 40-9086

Enclosures:
1. Request for Additional Information (Public)
2. Request for Additional Information (Official Use Only)

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