



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

May 12, 2016

APPLICANT: NORTHWEST MEDICAL ISOTOPES, LLC

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE CALL HELD ON  
APRIL 14, 2016 BETWEEN THE U.S. NUCLEAR REGULATORY  
COMMISSION AND NORTHWEST MEDICAL ISOTOPES, LLC  
CONCERNING CLARIFICATIONS ON RESPONSES TO REQUEST FOR  
ADDITIONAL INFORMATION FOR THE ENVIRONMENTAL REVIEW OF THE  
NORTHWEST MEDICAL ISOTOPES CONSTRUCTION APPLICATION

The U.S. Nuclear Regulatory Commission (NRC) staff and representatives of Northwest Medical Isotopes, LLC (NWMI) held a telephone conference call on April 14, 2016, to discuss and clarify NWMI responses to NRC's request for additional information (RAI) concerning the NWMI radioisotope production facility construction application environmental review. The clarification questions pertain to RAI responses submitted by NWMI on November 20, 2015 (Agencywide Document Access and Management System (ADAMS) Accession No. ML15328A010) and on February 12, 2016 (ADAMS Accession No. ML16053A221).

Enclosure 1 provides a listing of the participants and Enclosure 2 contains a listing of the clarification questions discussed with NWMI, including a brief description of the status.

NWMI had an opportunity to comment on this summary.

*/RA/*

Nancy Martinez, Environmental Project Manager  
Environmental Review and Projects Branch  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-609

Enclosure:  
As stated

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As stated

**ADAMS Accession No.: ML16110A253**

\*concurrence via e-mail

<b>OFFICE</b>	LA:DLR	PM:RERP:DLR	BC:RERP:DLR	PM:RERP:DLR
<b>NAME</b>	IBetts	NMartinez	JDanna	NMartinez
<b>DATE</b>	4/28/16	5/4/16	5/9/16	5/12/16

**OFFICIAL RECORD COPY**

**TELEPHONE CONFERENCE CALL**  
**NORTHWEST MEDICAL ISOTOPES, LLC**

LIST OF PARTICIPANTS  
APRIL 14, 2016

**PARTICIPANTS:**

Gary Dunford  
Carolyn Haass  
Nancy Martinez  
Michelle Moser

**AFFILIATIONS:**

AEM Consulting LLC  
Northwest Medical Isotopes, LLC  
U.S. Nuclear Regulatory Commission  
U.S. Nuclear Regulatory Commission

TELEPHONE CONFERENCE CALL CONCERNING  
CLARIFICATION ON RESPONSES TO REQUEST FOR ADDITIONAL INFORMATION  
RELATED TO NORTHWEST MEDICAL ISOTOPES, LLC  
CONSTRUCTION APPLICATION

APRIL 14, 2016

The U.S. Nuclear Regulatory Commission (NRC) staff and representatives of Northwest Medical Isotopes, LLC (NWMI) held a telephone conference call on April 14, 2016, to discuss and clarify responses NWMI provided on requests for additional information (RAIs) concerning the construction application environmental review. The clarification questions below pertain to RAI responses submitted by NWMI on November 20, 2015 (ADAMS Accession No. ML15328A010) and on February 12, 2016 (ADAMS Accession No. ML16053A221).

**RAI Response to ALT-2A and ALT2-3A**

NRC Clarification Request: The RAI response to ALT-2A provided an Alternative Site Evaluation. Page 9 of the evaluation states that a direct connection to the existing reactor may require below ground construction. However, RAI response to ALT2-3A states that there will be a need for construction of below-grade connection to the University of Missouri Research Reactor (MURR). Clarify if construction of a below grade connection to MURR will be needed at the MURR alternative site.

Discussion: NWMI stated that both a below grade and above ground connection was analyzed for the MURR alternative site. NWMI stated they would provide clarification on this item at a later time. Subsequent to the conference call, NWMI provided clarification on April 21, 2016 via e-mail (ADAMS No. ML16123A047) on this item.

**RAI Response to ALT-2B**

NRC Clarification Request: The RAI response states that the MURR alternative site has the minimum amount of space required to construct and operate the proposed NWMI facility. The Environmental Report (ER) states, "site is located directly to the south of the existing reactor building on a partially paved parking lot...the MURR site situated on a 3.0 ha (7.4- acre) lot in the central portion of the University Research Park..." Clarify if the 3.0 ha (7.4-acre) lot refers to the entire MURR facility complex or if this is the available space to construct the proposed facility. If the 3.0 ha (7.4-acre) lot refers to the entire MURR facility complex, what is the space that is available to construct the proposed facility?

Discussion: NWMI stated they would provide clarification on this item at a later time. Subsequent to the conference call, NWMI provided clarification on April 21, 2016 via e-mail (ADAMS No. ML16123A047) on this item.

**RAI Response to ALT-2A**

NRC Clarification Request: The RAI response to ALT-2A provided an Alternative Site Evaluation. Page 10 of the evaluation provides a preliminary Radioisotope Production Facility (RPF) layout at the MURR alternative site. The layout does not identify facility support buildings

ENCLOSURE 2

(diesel generator building, administration building, external waste management building) that were identified to be constructed at the Discovery Ridge site. Clarify if the facility support buildings would be constructed on the MURR alternative site.

Discussion: NWMI stated that for the MURR alternative site, the facility support building would be integrated within the existing infrastructure at the MURR facility. NWMI stated they would provide additional clarification on this item at a later time.

#### **RAI Response to NOI2-1B**

NRC Clarification Request: The response states that peak traffic counts to assess facility impact used an increase of 100 vehicles traveling on U.S. Highway 63 and were 918 in the southbound lane and 1,102 in the northbound lane. Clarify if the model run was conducted with the peak traffic count both in the southbound and northbound lane simultaneously?

Discussion: NWMI clarified that the noise model conducted to assess facility impact used a total increase of 200 vehicles traveling on U.S. Highway 63 (100 additional vehicles in the southbound lane and an additional 100 vehicles in the northbound lane) and was conducted with the peak traffic count both in the southbound and northbound lane simultaneously.

#### **RAI Response to NO12-1C**

NRC Clarification Request: The response states that the nearest resident distance to the proposed RPF is 792.5 m (2,600 ft). However, the ER identifies the nearest resident of 0.43 km (0.27 mi; 430 m). Clarify why a different distance to the nearest resident was used in the noise model?

Discussion: NWMI stated that the noise levels were re-analyzed using a distance of 430 m from the RPF to the nearest residence in the noise model. The increase in noise levels from traffic did not increase by more than 1 dBA.

#### **RAI Response to AIR2-2C**

NRC Clarification Request: Design File EDF-3124-0014 provided with the RAI response supports the information provided in Table 19-59 of the ER. Page 12 of 23 of design file EDF-3124-0014 contains model inputs for process boilers, however, design file EDF-3124-0014 is for construction activities not operation activities. Why does the design file contain these process boiler inputs?

Discussion: NWMI stated they would provide clarification on this item at a later time. Subsequent to the conference call, NWMI provided clarification on April 21, 2016 via e-mail (ADAMS No. ML16123A047) on this item.