



June 2, 2017
NWMI-LTR-2017-004

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
11555 Rockville Pike
Washington, DC 20555

Mr. Michael Balazik
Research and Test Reactors Branch A
Division of Policy and Rulemaking
Office of Nuclear Reactor Regulation

RE: Docket No. 50-609, Northwest Medical Isotopes, LLC, Transmittal of Revision 2 of NWMI-2014-RPT-006, MCNP 6.1 Validations with Continuous Energy ENDF/B-VII.1 Cross-Sections

References:

1. Northwest Medical Isotopes, LLC Letter NWMI-LTR-2017-002 to U.S. Nuclear Regulatory Commission, dated April 28, 2017, *Docket No. 50-609, Northwest Medical Isotopes, LLC Responses to the U.S. Nuclear Regulatory Commission Environmental Request for Additional information – Letter Dated January 25, 2017*

Dear Mr. Balazik:

Northwest Medical Isotopes, LLC (NWMI) is providing Revision 2 of NWMI-2014-RPT-006, *MCNP 6.1 Validations with Continuous Energy ENDF/B-VII.1 Cross-Sections*.

The required affidavit to withhold information from public disclosure is provided in Attachment 1. NWMI considers the information in Attachment 2 to be proprietary and requests that the attachment be withheld from public disclosure, pursuant to 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

The attachments to this letter include the following:

- Attachment 1 – The required affidavit to withhold information from public disclosure per 10 CFR 2.390
- Attachment 2 – Non-public (proprietary and business sensitive) version of Revision 2 of NWMI-2014-RPT-006; the information is provided in hard copy.

NWMI is submitting this response to the NRC in accordance with 10 CFR 50.30(b), "Oath or Affirmation," and 10 CFR 50.4, "Written Communications."

YGD
NRR

Mr. Michael Balazik

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I solemnly declare and affirm that the foregoing information is true and correct under the penalty of perjury.

Executed on June 3, 2017.

If you have questions, I can be reached at (509) 430-6921 or carolyn.haass@nwmedicalisotopes.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Carolyn C. Haass". The signature is fluid and cursive, with the first name "Carolyn" being more prominent than the last name "Haass".

Carolyn C. Haass
Chief Operating Officer

cc: Mr. Alexander Adams
Research and Test Reactors Branch A
Office of Nuclear Reactor Regulation



ATTACHMENT 1

**AFFIDAVIT TO WITHHOLD PROPRIETARY
INFORMATION FROM PUBLIC DISCLOSURE**

(Pursuant to 10 CFR 2.390)



10 CFR 2.390
Affidavit of Carolyn C. Haass

I, **Carolyn C. Haass**, hereby affirm and state as follows:

1. I am the Chief Operating Officer of Northwest Medical Isotopes, LLC (NWMI), and I have been authorized to execute this affidavit on behalf of NWMI.
2. The information contained in the enclosed document dated June 1, 2017, is proprietary commercial information related to NWMI becoming a domestic supplier of molybdenum-99 (⁹⁹Mo). The proprietary information (NWMI-2014-RPT-006, *MCNP 6.1 Validations with Continuous Energy ENDF/B-VII.1 Cross-Sections*, Rev. 2, June 2017) includes sensitive business information created by or for NWMI. This information should be held in confidence by the U.S. Nuclear Regulatory Commission (NRC) and withheld from public disclosure.
3. In making this application for withholding of proprietary information of which it is the owner, NWMI believes that the information qualifies for withholding under the exemption from disclosure set forth in the Freedom of Information Act (FOIA), 5 U.S.C. Section 552(b)(4), the Trade Secrets Act, 18 U.S.C. Section 1905, and NRC regulations in 10 CFR 2.390(a)(4) for trade secrets and commercial information because:
 - a. This information is owned by NWMI. Specifically, information related to the target dimensions, material composition, and mass or information that would reasonably allow knowledgeable people to deduce this information and experimental results should be withheld from public disclosure. This information is considered proprietary and would significantly affect any competitive advantage that this target configuration creates.
 - b. This information is of a type that is customarily held in confidence by NWMI, and there is a rational basis for doing so because the information includes sensitive business information.
 - c. The information is being transmitted to the NRC voluntarily and in confidence.
 - d. This information is not available in public sources and could not be gathered readily from other publicly available information.
 - e. Public disclosure of this information would create substantial harm to the competitive position of NWMI by disclosing certain business decisions NWMI has made or is considering, and the analysis that went behind those decisions. Development and evaluation of this commercial information was achieved at, and disclosure could lead to additional, significant cost to NWMI.
 - f. Public disclosure of the information sought to be withheld is likely to cause substantial harm to NWMI'S competitive position and foreclose or reduce the availability of profit-making opportunities. The value of the information goes beyond the disclosure of actual information pertaining to NWMI's potential business, and includes substantial time and work towards developing the project by NWMI and its associates. The research, development, engineering, and analytical costs comprise a substantial investment of time and money by NWMI. The precise value of the information is difficult to quantify, but clearly is substantial.



g. NWMI's competitive advantage will be lost if its competitors are able to use the results of NWMI's activities to aid their own commercial activities. The value of this information to NWMI would be lost if the information was disclosed to the public. Making such information available to other entities without their having been required to undertake a similar expenditure of resources would unfairly provide competitors with a significant advantage, and deprive NWMI of the opportunity to exercise its competitive advantage to seek an adequate return on a large investment.

Carolyn C. Haass

 Carolyn C. Haass, Chief Operating Officer

Subscribed and sworn before me, a Notary Public, in and for the State of Colorado, this 3rd day of June, 2017.

Witness my hand and Notarial Seal.

[Signature]

 Notary Public

DANIELLE KLUG
 NOTARY PUBLIC
 STATE OF COLORADO
 NOTARY ID 20164010643
 MY COMMISSION EXPIRES MARCH 16, 2020

3/16/2020 ^{DK} *6/3/17*

 Date

My commission expires: *3/16/2020*.