



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

June 16, 2020

MEMORANDUM TO: Robert B. Elliott, Chief
Environmental Review License Renewal Branch
Division of Division of Rulemaking, Environmental,
and Financial Support
Office of Nuclear Material Safety
and Safeguards

FROM: Jennifer A. Davis, Senior Project Manager
Environmental Review New Reactor Branch
Division of Division of Rulemaking, Environmental,
and Financial Support
Office of Nuclear Material Safety
and Safeguards

SUBJECT: SUMMARY OF PUBLIC MEETING CONDUCTED FOR THE
SHINE MEDICAL TECHNOLOGIES, LLC OPERATING LICENSE
APPLICATION ENVIRONMENTAL REVIEW
(DOCKET NUMBER: 50-608)

The U.S. Nuclear Regulatory Commission (NRC) staff conducted a public meeting (teleconference) related to the review of an operating license for the proposed SHINE Medical Technologies, LLC (SHINE) Medical Isotope Production Facility in Janesville, Wisconsin. The teleconference was conducted on June 2, 2020. The purpose of this meeting was to discuss SHINE's responses to NRC staff requests for additional information (RAI) dated May 8, 2020 (Agencywide Documents Access and Management System Accession Number ML20129J920). Specifically, the NRC staff requested clarification on SHINE's response to RAI PA-7S(b) regarding the approach and methods used in its radiological transportation analysis.

In order to support the discussion, SHINE made available to the NRC staff reference material to its electronic reading room. No sensitive or proprietary information was discussed during the teleconference. SHINE described its approach for updating the incident-free transportation dose calculation to reflect the updated number of shipments and package dose rates. To update the dose calculations for the operating license review, SHINE performed a scalable analysis for the updated shipment information which was based off the prior construction permit (CP) analysis using the RADTRAN code package.

Enclosures:
As stated

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The updated doses to workers and members of the public were a result of applying the Department of Transportation regulatory limit at 1 meter from the package surface of 40 milliroentgen man per hour (mrem/hr). This regulatory dose rate was conservatively used for all 18 shipments. SHINE also discussed its rationale for scaling the resulting population dose based on a WebTRAGIS 2012 beta version providing conservative public population densities along shipment routes. A newer version of WebTRAGIS has been issued since SHINE developed the analysis in the CP Environmental Report. The WebTRAGIS user manual for the newer version, published in September 2018, notes the prior method of determining population density along a route would give conservative (higher) values.

Twelve people participated in the public teleconference including representatives from the NRC, SHINE, and the Wisconsin Department of Health Services – Radiation Protection Section. A list of public meeting attendees is provided in Enclosure 1. Enclosure 2 is a copy of the meeting agenda.

Action Items

The NRC staff will review the 2003 and 2018 WebTRAGIS user manuals and determine if additional information is needed. During the teleconference, SHINE acknowledged an administrative error in its response to PA-7S RAI submitted on May 8, 2020 and stated that a revision will be submitted to the NRC that supersedes the prior response. SHINE will submit a revision after the NRC's staff review of the user manuals.

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MEDICAL TECHNOLOGIES, LLC OPERATING LICENSE APPLICATION
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DATED: June 15, 2020

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***via email**

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NAME	*AWalker-Smith	* NMartinez	* JDavis	* RElliott
DATE	06/10/20	06/12/20	06/16/20	06/12/20

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PUBLIC MEETING ATTENDEES

June 2, 2020

PARTICIPANTS	AFFILIATION
Jennifer Davis	U.S. Nuclear Regulatory Commission (NRC)
Nancy Martinez	NRC
Dr. Donald Palmrose	NRC
Steve Lynch	NRC
Phyllis Clark	NRC
Bill Rautzen	NRC
Paul Carmen	NRC, Region II
Bradley Davis	NRC, Region II
Jeff Bartelme	SHINE Medical Technologies, LLC (SHINE)
Jim Costedio	SHINE
Tracy Radel	SHINE
Riley McSweeney	SHINE
Paul Schmidt	Wisconsin Department of Health Services – Radiation Protection Section

ENCLOSURE 1

PUBLIC MEETING AGENDA

SHINE Medical Technologies, LLC Operating License Application Environmental Technical Discussion

June 02, 2020, 02:00 PM to 03:00 PM

Teleconference

<i>Time</i>	<i>Topic</i>	<i>Speaker</i>
2:00 pm	Welcome and Purpose of Meeting	NRC
2:05 pm	Technical Discussion	NRC/SHINE
2:45 pm	Public Questions/Comments	Public/NRC
2:55 pm	Closing	NRC

ENCLOSURE 2