

From: Jeffrey Bartelme <jeffbartelme@shinefusion.com>
Sent: Tuesday, August 16, 2022 3:57 PM
To: SHINEEnvironmental.Resource
Subject: [External_Sender] 2022-SMT-0094, "SHINE Technologies, LLC Comments on NUREG-2183, Supplement 1, "Environmental Impact Statement Related to the Operating License for the SHINE Medical Isotope Production Facility" (Draft Report for Comment) (Docket ID N...
Attachments: 2022-SMT-0094.pdf

SHINE hereby submits 2022-SMT-0094, "SHINE Technologies, LLC Comments on NUREG-2183, Supplement 1, "Environmental Impact Statement Related to the Operating License for the SHINE Medical Isotope Production Facility" (Draft Report for Comment) (Docket ID NRC-2022-0135)". Please let me know if you have any questions on the attached. Thank you.

Jeff Bartelme
Director of Licensing



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SHINE™



August 16, 2022

2022-SMT-0094

Via E-mail to: SHINEEnvironmental@nrc.gov

Office of Administration
Mail Stop: OWFN-7-A60M
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001
ATTN: Program Management, Announcements and Editing Staff

References: (1) U.S. Nuclear Regulatory Commission, "Environmental Impact Statement Related to the Operating License for the SHINE Medical Isotope Production Facility" (Draft Report for Comment), NUREG-2183, Supplement 1, June 2022 (ML22179A346)


[SHINE Technologies, LLC Comments on NUREG-2183, Supplement 1, "Environmental Impact Statement Related to the Operating License for the SHINE Medical Isotope Production Facility" \(Draft Report for Comment\) \(Docket ID NRC-2022-0135\)](#)

SHINE Technologies, LLC (SHINE) appreciates the opportunity to comment on NUREG-2183, Supplement 1, the draft supplement to the environmental impact statement (EIS) related to the operating license for the SHINE medical isotope production facility (Reference 1).

Enclosure 1 provides the SHINE comments on NUREG-2183, Supplement 1. SHINE has determined that these comments are administrative because they do not affect the conclusions provided in NUREG-2183, Supplement 1.

If you have any questions, please contact Mr. Jeff Bartelme, Director of Licensing, at 608/210-1735.

Very truly yours,

DocuSigned by:

F52DB96989224FF...

James Costedio
Vice President of Regulatory Affairs and Quality
SHINE Technologies, LLC
Docket No. 50-608

Enclosure

cc: Project Manager, USNRC
Environmental Project Manager, USNRC

ENCLOSURE 1

SHINE TECHNOLOGIES, LLC

SHINE TECHNOLOGIES, LLC COMMENTS ON NUREG-2183, SUPPLEMENT 1, “ENVIRONMENTAL IMPACT STATEMENT RELATED TO THE OPERATING LICENSE FOR THE SHINE MEDICAL ISOTOPE PRODUCTION FACILITY” (DRAFT REPORT FOR COMMENT) (DOCKET ID NRC-2022-0135)

Section 1.0 – Introduction

Page 1-1, Line 21 Recommend referencing the most recent supplement to the July 17, 2019 application for an operating license, submitted by SHINE on July 26, 2022 (Reference 1).

Section 2.0 – Proposed Federal Action

Page 2-2, Line 9 SHINE revised the approximate total facility footprint to be 375,000 square feet (ft²) (35,000 square meters [m²]) via Reference 2. Recommend revising accordingly.

Page 2-2, Line 36 SHINE revised the approximate total facility footprint to be 375,000 ft² (35,000 m²) via Reference 2. Recommend revising accordingly.

Page 2-6, Line 24 SHINE revised the Environmental Report (ER) Supplement via Reference 3 to reflect the renumbering of the Janesville City Ordinances. Janesville City Ordinance 13.16 has been renumbered to Janesville City Ordinance 40-170. Recommend revising accordingly.

Section 3.0 – Affected Environment and Environmental Consequences

Page 3-8, Line 20 A description of the likelihood of whooping cranes to appear on the SHINE site was provided via the SHINE Response to RAI SSS-2 (Reference 3). Recommend revising the reference citation from (SHINE 2022d) to (SHINE 2020a).

Page 3-16, Line 29 SHINE estimated the total number of annual medical isotope shipments to be 520 via the SHINE Response to RAI PA-7 (Reference 3). Recommend revising accordingly.

Page 3-19, Line 7 Typographical error. Recommend replacing “decreased from 26.5” with “decreased from 25.6”.

Page 3-23, Line 6 SHINE identified three chemicals (i.e., rhodium chloride, uranyl peroxide, and uranyl sulfate) which do not have published Protective Action Criteria (PAC) values in Section 13b.3 of the FSAR (Reference 4). Recommend revising accordingly.

- Page 3-23, Line 25 Typographical error in the Nearest Resident Concentration for Ammonium Hydroxide. Recommend replacing “1.89E-03-” with “1.89E-03”.
- Page 3-23, Line 25 Typographical error in the Source Term for Uranyl Peroxide. Recommend replacing “13.68” with “1368”.

References

1. SHINE Technologies, LLC letter to NRC, dated July 26, 2022, “SHINE Technologies, LLC Application for an Operating License Supplement No. 29” (ML22207A006)
2. SHINE Medical Technologies, LLC letter to NRC, dated January 22, 2021, “SHINE Medical Technologies, LLC Application for an Operating License Response to Environmental Requests for Additional Information” (ML21022A027)
3. SHINE Medical Technologies, LLC letter to NRC, dated March 13, 2020, “SHINE Medical Technologies, LLC Application for an Operating License Response to Environmental Requests for Additional Information” (ML20073E880)
4. SHINE Technologies, LLC letter to NRC, dated January 26, 2022, “SHINE Technologies, LLC Application for an Operating License Supplement No. 14” (ML22034A612)