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SHINE DRAFT ENVIRONMENTAL IMPACT STATEMENT PUBLIC MEETING

WILL BEGIN SHORTLY …

Technical contact: Caroline.Hsu@nrc.gov

Public meeting details

Public meeting slides: ML22206A042

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Public Meeting on the Draft Environmental Impact Statement Related to the Operating License for the SHINE Medical Isotope Production Facility (NUREG-2183, Supplement 1)

July 27, 2022

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Overview

- NRC's Regulatory Role
- SHINE Background
- Environmental Review
- Preliminary Findings
- Environmental Review Milestones
- Submitting Public Comments

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NRC's Regulatory Role

- **U.S. Nuclear Regulatory Commission's (NRC) Primary Governing Statutes**
  - Atomic Energy Act
  - Energy Reorganization Act
  - National Environmental Policy Act (NEPA)
- **NRC's Mission**
  - Protect public health and safety
  - Promote the common defense and security
  - Protect the environment

SHINE Background

- In **2015**, the NRC and the U.S. Department of Energy issued NUREG-2183, “Environmental Impact Statement for the Construction Permit for the SHINE Medical Radioisotope Production Facility” (the final environmental impact statement or FEIS)
  - Discusses the environmental impacts of constructing, operating, and decommissioning the SHINE Medical Isotope Production Facility
- In **2016**, the NRC issued a construction permit for the SHINE facility
- In **2019**, SHINE Medical Technologies, LLC submitted an application to the NRC for an operating license for the SHINE facility and commenced NRC-authorized construction

Environmental Review

- In connection with its review of SHINE's operating license application, the NRC prepared a **supplement** to the FEIS (NUREG-2183, Supplement 1)
- The purpose of this supplement is to evaluate the environmental impacts of the SHINE facility **with respect to any changes since the publication of the FEIS**
- The supplement updates information and only covers matters that differ from the FEIS or that reflect significant new information

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How Impacts Are Defined

- **SMALL**
  - Effects are not detectable or are so minor that they will neither destabilize nor noticeably alter any important attribute of the resource
- **MODERATE**
  - Effects are sufficient to alter noticeably, but not to destabilize, important attributes of the resource
- **LARGE**
  - Effects are clearly noticeable and are sufficient to destabilize important attributes of the resource

How Impacts Are Defined (continued)

- **Federally Listed Species and Critical Habitat (Endangered Species Act)**
  - No effect
  - May affect but is not likely to adversely affect/adversely modify
  - May affect and is likely to adversely affect/adversely modify
- **Environmental Justice (Executive Order 12898)**
  - Disproportionally high and adverse human health and environmental effects

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Preliminary Results

Resource Area	Impacts
• Land Use/Visual Resources • Air Quality/Noise • Geologic Environment • Water Resources • Ecological Resources • Historical and Cultural Resources • Socioeconomics • Human Health • Waste Management • Transportation • Accidents	ALL SMALL

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Preliminary Results

Resource Area	Impacts
Federally Listed Species and Critical Habitat	No effect; none of the four evaluated threatened and endangered species are present in the action area
Environmental Justice	Minority and low-income populations are not expected to experience any disproportionately high and adverse human health or environmental effects
Cumulative Impacts	Unchanged from the FEIS

Preliminary Recommendation

NRC staff's preliminary recommendation, unless safety issues mandate otherwise, is that the operating license be issued as proposed

Environmental Review Milestones

Action	Date
DSEIS Published	June 2022
DSEIS Public Comment Period Starts	July 8, 2022
Comment Period Ends	August 22, 2022
Issue FSEIS	December 2022

Draft SEIS Availability

- **Public Library:**
  Hedberg Public Library, 316 South Main Street, Janesville, Wisconsin 53545
- **SHINE Public Website:** https://www.nrc.gov/info-finder/nonpower/shine-medical-technologies-llc.html
- **In the NRC's Agencywide Documents Access and Management System (ADAMS):**
  - Draft SEIS accession number: ML22179A346
  - https://www.nrc.gov/docs/ML2217/ML22179A346.pdf

How to Submit Comments

You may submit comments by any of the following methods. Please include Docket ID NRC-2022-0135 in the subject line of your comments.

- **Federal Rulemaking Website:** Go to http://www.regulations.gov and search for Docket ID NRC-2022-0135
- **Mail comment to:** Office of Administration, Mail Stop: TWFN-7-A60M, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555-0001
- **Email comments to:** SHINEEnvironmental@nrc.gov

Contact: Lance Rakovan, Senior Environmental Project Manager, at 301-415-2589 or Lance.Rakovan@nrc.gov

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To Make a Comment

- For participants on Teams, use the “Raise My Hand” feature
  - Use Unmute when called upon
- For participants on the bridgeline, hit *5
  - Use *6 to unmute when called upon
- Please identify yourself and any group with which you may be associated