



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

January 3, 2023

Mr. Jason Webb  
Radiation Safety Officer  
Hi Viz, LLC  
620 S. Adams Street  
Laramie, WY 82070

SUBJECT: HI VIZ, LLC REQUEST FOR ADDITIONAL INFORMATION

Dear Mr. Webb:

This letter refers to your application dated October 5, 2022, Agencywide Documents Access and Management System (ADAMS) Accession No. ML22298A104, concerning your request to amend your Exempt Distribution Materials License and Sealed Source and Device Registration. In reviewing your amendment request, we find additional information is required to complete our review. In order to continue our review, we need clarification and additional information. In the enclosures to this letter, we have summarized the issues that need to be addressed.

We will continue our review upon receipt of this information. If we do not receive a reply from you within 30 calendar days from the date of this letter, we will assume that you do not wish to pursue your application. Any correspondence regarding your application should reference the mail control number specified below.

In accordance with Title 10 of the *Code of Federal Regulations* Section 2.390 of the U.S. Nuclear Regulatory Commission's (NRC's) "Agency Rules of Practice and Procedure," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component of NRC's ADAMS. ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>

If you have any questions regarding the Sealed Source and Device Registration you can contact Joey Rolland at (301) 415-4059 or by email at [Joseph.Rolland@nrc.gov](mailto:Joseph.Rolland@nrc.gov). For questions related

to the exempt distribution license, please contact me at (301) 415-3257 or email at [Michelle.Hammond@nrc.gov](mailto:Michelle.Hammond@nrc.gov).

Sincerely,

**Michelle M.  
Hammond**

Digitally signed by  
Michelle M. Hammond  
Date: 2023.01.03 14:17:01  
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Michelle M. Hammond, M.Sc.  
Materials Safety and Tribal Liaison Branch  
Division of Materials Safety, Security, State,  
and Tribal Programs  
Office of Nuclear Materials Safety  
and Safeguards

Docket No. 030-38863  
Mail Control No. 633308

Enclosures:  
Request for Additional Information

SUBJECT: HI VIZ, LLC REQUEST FOR ADDITIONAL INFORMATION

DATE: January 3, 2023

**ADAMS Accession Number: ML22353A498**

OFFICE	MSST/MSTB	MSST/MSTB	MSST/MSTB
NAME	MHammond	TBrockington	JRolland
DATE	12/15/2022	12/19/2022	1/03/2023
OFFICE	MSST/MSTB	MSST/MSTB	MSST/MSTB
NAME	THerrera	SXu	MHammond
DATE	01/03/2023	12/28/2022	01/03/2023

**OFFICIAL RECORD COPY**

**HI VIZ, LLC**  
**REGISTRATION CERTIFICATE AMENDMENT LETTER DATED OCTOBER 5, 2022**  
**REQUEST FOR ADDITIONAL INFORMATION**

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the Hi Viz, LLC (Hi Viz) amendment application dated October 5, 2022, and determined that additional information is needed. In order to continue with our review, please address the issues listed below. This information is required by Title 10 of the *Code of Federal Regulations* (10 CFR) Section 32.210 and described in the relevant guidance document NUREG-1556, Volume 3, Revision 2, titled "Applications for Sealed Source and Device Evaluation and Registration."

Description/Construction

1. Please confirm our understanding that the FD Series contains only rear sights and that each gun sight will only use one sealed source.
2. Please identify the sealed source models to be used in the Model FD sights. If the models used will be different from those previously approved, please identify the sealed source model(s) as well as the manufacturer(s). Please also identify the Sealed Source and Device Registration Certificate(s) for the source(s) or provide enough information to register the source(s) as part of the device.
3. Please confirm our understanding that the maximum activity of tritium used in the FD Series sights will be 92 mCi.
4. Please confirm that, with the exception of the drawing marked proprietary in red text on page 7 of 15 of Hi Viz's application, we have permission to use the drawings submitted with the application in the sealed source and device registration certificate.
5. Please identify the type of plastic used for the sight body's clear cover.
6. Please identify the steel alloy used for the sight bodies.
7. Please identify the binding agent that is used to bind the sight components.
8. Please discuss how the sealed source used in the FD Series sights will be fixed in place within the body of the sight.
9. Please provide the working life of the FD Series gun sights.
10. Please provide a photograph of the FD Series to supplement the drawings.

External Radiation Levels

11. Discuss whether the external radiation levels are expected to be the same for the gun sight models, compared to the previously approved gun sights.

Enclosure

## Prototype Testing

12. Please confirm our understanding that the tests were performed according to the guidance in NUREG-1556 Volume 8, Rev 1, Appendix D, including the test pass criteria described therein:

“Between each test the gun sights are to be visually inspected to ensure there have been no detrimental effects to the gun sights. The gun sights must not become loosened or detached from the guns (Tests 3.3.7 and 3.3.8) and the light sources must not become loosened or detached from the gun sights as a result of any of the tests.”
13. The description of the penetration test under “3.2.6 PENETRATION” summarizes the test as, “a hammer with a small point and weighing 10 g is to be dropped from a height of 1 meter onto the exposed surface of the light source”. Based on our understanding, the light source does not have an exposed surface. Please explain where the hammer was dropped.
14. Please identify the mounting style that was used for prototype testing and explain the rationale for using that mounting style for the tests.
15. Hi Viz provided the “as tested” dimensions for the gun sights. Please explain HiViz’s rationale for choosing those dimensions for the gun sights that were tested.
16. Please identify the minimum amount of material surrounding the tritium source and confirm that minimum amount of protection was the dimension that was tested.

**HI VIZ, LLC**  
**EXEMPT DISTRIBUTION AMENDMENT LETTER DATED OCTOBER 5, 2022**  
**REQUEST FOR ADDITIONAL INFORMATION**

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the Hi Viz, LLC (HiViz) letter dated October 5, 2022 and determined that additional information is needed. In order to continue with our review, please address the issues listed below. This information is required by Title 10 of the *Code of Federal Regulations* (10 CFR) Section 32.30 and described in the relevant guidance document NUREG-1556, Volume 8, Revision 1, titled "Program-Specific Guidance About Exempt Distribution Licenses."

Compliance with 10 CFR Paragraph 32.22(a)(2)(vi)

1. Please provide Maximum external radiation levels at 5 and 25 centimeters from any external surface of the product, averaged over an area not to exceed 10 square centimeters, and the method of measurement.

Compliance with 10 CFR 32.22(a)(2)(xiii)

2. The estimated external radiation doses and dose commitment resulting from the intake of byproduct material in any one year relevant to the safety criteria in 10 CFR 32.23 and the basis for these estimates

Compliance with 10 CFR 32.23

3. Please provide calculations to demonstrate that the FD Series sights meet the safety criteria as required by 10 CFR 32.23. Guidance can be found in NUREG-1556 Volume 8, Rev.1, Appendix D.

Enclosure