



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
1600 E LAMAR BLVD  
ARLINGTON, TX 76011-4511

## EMAIL



**Name:** Joseph Hirst License: 25-27488-01  
Docket: 030-33433  
**Organization:** Montana Refining Company, Inc. Control: 584286  
**E-mail Address:** Joseph.Hirst@calumetspecialty.com  
**From:** Jacqueline D. Cook  
**Date:** December 29, 2014  
**Subject:** Application dated July 1, 2014 for License Renewal  
**Pages:** 5

Mr. Hirst:

Per your application dated July 1, 2014, the items on the next pages are deficiencies which require your response. **I apologize for the short notice but if you can respond to this e-mail by tomorrow, Tuesday, December 30, 2014, it will be greatly appreciated.** If you are unable to respond by this due date, please don't hesitate to contact me so we can discuss an extension to the date. **Please note that I am out of the office ½ day Wednesday, December 31, 2014 through January 5, 2015.** Our fax number is (817) 200-1263. You may respond by e-mail in pdf format if you'd like. My email address is [Jackie.Cook@nrc.gov](mailto:Jackie.Cook@nrc.gov). When responding to this e-mail, please include the license, docket and control numbers located at the top of this page.

Please disregard my previous voice mail message asking you what different gauge models you were using and in possession. I was able to find this information on page 2 of your license.

Please note that I used NUREG-1556, Volume 4, "Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Fixed Gauge Licenses", dated October 1998. Please use this guidance when responding to the deficiencies on the following pages. (<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/v4/>).

Thanking you in advance for your cooperation, assistance, and prompt response in this matter.

/RA/  
Jacqueline D. Cook  
Senior Health Physicist

**PUBLIC**

- ☐ Immediate Release  
☒ Normal Release

**NON-PUBLIC**

- ☐ A.3 Sensitive-Security Related  
☐ A.7 Sensitive Internal  
☐ Other:

Reviewer: JAC

Date: 12/29/14

1. Please provide either of the following:

- The statement: "Before using licensed materials, authorized users will have successfully completed the training described in Criteria in the section entitled 'Authorized Users', in NUREG-1556, Vol. 4, dated October 1998."

OR

- A description of the training and experience for proposed authorized users.

2. Please provide one of the following:

- A statement that: "We will ensure that the location of each fixed gauge meets the Criteria in section entitled 'Facilities and Equipment', in NUREG-1556, Vol. 4, dated October 1998."

OR

- Confirm that the fixed gauge is secured to prevent unauthorized removal or access; and submit specific information supporting the new conditions demonstrating that they will not impact the safety or integrity of the source or device. Address any instances where the proposed conditions exceed any conditions listed in the Sealed Source and Device (SSD) Registration Certificate.

3. Please provide one of the following:

- A statement that: "Surveys pursuant to 10 CFR 20.1501 will be performed by a person specifically authorized by the NRC or an Agreement State to perform these surveys."

OR

- A statement that: "We will use instruments that meet the Criteria in the section entitled 'Radiation Safety Program-Instruments, in NUREG-1556, Vol. 4, dated October 1998, and one of the following three choices:

- "Each survey meter will be calibrated by the manufacturer or other person authorized by the NRC or an Agreement State to perform survey meter calibrations."

OR

- "We will implement the model survey meter calibration program published in Appendix I to NUREG-1556, Vol. 4, dated October 1998."

OR

PUBLIC

Normal Release

NON-PUBLIC

☐ A.3 Sensitive-Security Related

☐ A.7 Sensitive Internal

☐ Other: \_\_\_\_\_

Reviewer: gnc

Date: 12/29/14

- "We will submit alternative calibration procedures for NRC review."

4. Please provide either of the following:

- A statement that: "Physical inventories will be conducted at least every 7 months or at other intervals approved by the NRC, to account for all sealed sources and devices received and possessed under the license."

OR

- A description of the procedures for ensuring that no fixed gauge has been lost, stolen, or misplaced, and how often they will be conducted.

5. Please provide one of the following:

- A statement that: "We will perform a prospective evaluation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20 or we will provide dosimetry that meets the Criteria in the section entitled 'Radiation Safety Program – Occupational Dosimetry' in NUREG-1556, Vol. 4, dated October 1998."

OR

- A description of an alternative method for demonstrating compliance with the referenced regulations.

6. Please provide either of the following:

- If the gauge meets one or more of the safety conditions specified in "Discussion," provide either of the following:
  - A statement that: "Operating and emergency procedures will be developed, implemented, maintained, and distributed, and will meet the Criteria in the section entitled 'Radiation Safety Program – Operating and Emergency Procedures' in NUREG-1556, Vol. 4, dated October 1998."

OR

- Submit a description of alternative procedures.

If the gauge does not meet one or more of the safety conditions specified in "Discussion," please provide your operating, emergency, and lock-out (if applicable) procedures to NRC for review.

**PUBLIC**

- ☒ Immediate Release
- ☒ Normal Release

**NON-PUBLIC**

- ☐ A.3 Sensitive-Security Related
- ☐ A.7 Sensitive Internal
- ☐ Other: \_\_\_\_\_

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_

12/29/14



7. Please provide one of the following three alternatives:

- A statement that: "Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the SSD Registration Certificate. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services to other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier's instructions. Records of leak test results will be maintained."

OR

- A statement that: "We will implement the model leak test program published in Appendix M to NUREG-1556, Vol. 4, dated October 1998."

OR

- A description of alternative equipment and/or procedures for determining whether there is any radioactive leakage from sources contained in gauges.

8. For routine maintenance, please submit either of the following:

- A statement that: "We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's or distributor's written recommendations, and instructions."

OR

- Alternative procedures for NRC's review.

9. A. For non-routine operations, please expand your list of activities NOT to be performed by the licensee to include replacement, disposal of sealed sources, and alignment.

B. In order for the licensee to perform the following non-routine operations: relocation of the device, removal from service, or placing into storage, please submit a copy of the certificate of training outlining that the licensee (individual certificate of training) can perform these services and provide information listed in Appendix N to perform this work "in-house".

**PUBLIC**

- ☐ Immediate Release  
☒ Normal Release

**NON-PUBLIC**

- ☐ A.3 Sensitive-Security Related  
☐ A.7 Sensitive Internal  
☐ Other: \_\_\_\_\_

Reviewer: \_\_\_\_\_

Date: \_\_\_\_\_