



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

January 24, 1997

Mr. Darrell Basinger  
Hauni Richmond, Inc.  
2800 Charles City Rd.  
Richmond, VA 23231

Dear Mr. Basinger:

This letter is in response to your letter dated July 18, 1996, and subsequent letters, regarding registration of the Model 2314-0-0 DS density measuring head. We are in the process of evaluating your request. However, in order to continue our evaluation, the following information is necessary:

1. Section 9 states that the sources are always installed by Hauni. Please be aware that the NRC requires only that service and source exchange be performed by persons authorized by the NRC or an Agreement States to perform such activities, and that the NRC can not require that a user obtain service from a particular company.
2. Please commit that the date on the label will be the date of assay.
3. The procedures for the shutter test specified that the testing would be done at 20°C and 73°C for 300,000 cycles. It was noted that while the testing at 20°C was performed to 366,470 cycles as per the testing procedures, the testing at 73°C was performed only to 18,300 cycles. Please explain why the testing at the higher temperature was not tested to the full 300,000 cycles.
4. Upon review of the manuals, it was noted that the recommended frequency for leak testing was either not specified or was listed as 3 years. Your letter indicated that the leak test frequency would be 6 months. Please address this apparent discrepancy.
5. Please provide a description or checklist of the items that will be checked at installation. These should include ensuring that the correct device is being installed, that the manufacturer has not made any changes to the device design or documentation that would contradict the information submitted in your application, that the device is operable (particularly with respect to shutter control/movement and device safety features), and that the radiation levels around the device do not exceed the levels listed in your application.
6. The drawings provided were insufficient to allow an adequate evaluate the design of the device and its safety features. Please provide details (materials, general dimensions, etc.) for the components indicated with an asterisk on the attached drawings.
7. Please describe how the spring returns the source to the reference position. Please provide drawings or descriptions which accurately indicate how the spring is mounted. Please note that Dwg.# 2315-0-1-DS and Dwg. # 2314-1-0-DS do not agree in this respect.

D. Basinger

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8. Based on the drawings submitted, it appears that there is no barrier between the surface of the measuring tube and the source face. Please indicate if this is the case. Your submission should include a detailed drawing of this interface, including the dimensions of any air gap between the surfaces.
9. Based on the drawings, it appears that the cavity in which the source material holder moves is exposed to the environment on the indicator end, potentially allowing dust, debris, liquids, etc. to enter the device and impair the holder movement. Please verify if this is the case, or provide additional details illustrating how the indicator end of the cavity is sealed.
10. Review of your application indicates that if the air supply lines for the pneumatic cylinder were blocked, it may result in a situation where the source can not be returned to the reference position. Please address this issue.

Please provide the requested information within 30 (thirty) days of the date of this letter. If you have any questions, please contact me at (301) 415-5868 or John Lubinski at (301) 415-7868.

Sincerely,

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Michele L. Burgess, Mechanical Engineer  
Sealed Source Safety Section  
Medical, Academic, and Commercial  
Use Safety Branch  
Division of Industrial and  
Medical Nuclear Safety  
Office of Nuclear Material Safety  
and Safeguards

Enclosures: 1. Hauni Dwg.# 2314-1-0-DS  
2. Hauni Dwg.# 2315-0-1-DS

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