

Honeywell Inc.  
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Atlanta GA 30329-1266

Name E. J.  
Ref# Noble  
Date Rec'd 1-24-97  
Amt Rec'd 1200.00

REC'D JAN 24 1997

January 23, 1997

Georgia Department of Natural Resources  
Radioactive Materials Program  
Attn: Tom Hill  
4244 International Parkway Suite 114  
Atlanta, GA 30354

Dear Mr. Hill:

Honeywell, Inc. is applying for an amendment to Device Registration GA 571-D-101-G for the Lippke Models MV-FE, MV-KR, MV-PM and MV-SR devices. A check in the amount of \$1200.00 is enclosed to cover the cost of this amendment.

#### Requested Amendments

1. **Collimator Window Foils:** Honeywell is requesting that the Device Registration for Type III devices be amended to permit General Licensees to perform collimator window foil replacements. This amendment would not apply to Type I and II devices. This maintenance function does not require removal, dismounting or opening the device and does not subject the maintenance personnel to a radiation exposure. Type I and II devices actually require dismounting and opening the device enclosure and removing the shutter mechanism and radiation source to facilitate this procedure. The Type III device simply requires the removal of three screws on the external surface of the device which hold the collimator window foil in place. It is completely impossible to remove any radioactive material after the foil is removed and impossible to perform any further dismantlement.

The specific maintenance instructions to the customer are as follows.

**Replacement of Collimator Window Foils:** "It is not necessary to remove any shrouds, etc. to perform this function. You are absolutely forbidden to dismount or open the Lippke Model MV-FE, MV-KR, MV-PM or MV-SR device containing radioactive material. This function is reserved for personnel specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform this function. Separate the upper and lower scanning plates by releasing the clutch. Slide the upper scanning plate to one side. Remove the three screws surrounding the collimator window foil. The securing ring and foil will drop away. Place the new foil in position, followed by the securing ring. Re-install the three mounting screws. Slide the upper scanning plate in position over the lower scanning plate. Re-engage the clutch. Slightly move the upper scanning plate until the clutch engages. The upper and lower scanning plate should be lined up. If the upper and lower scanning plates are not lined up properly, release the clutch and re-align."

2. **Shutter Mechanism Checks:** Honeywell is requesting that the customer be permitted to perform their own shutter tests required every six months. This amendment would apply to all Type I, II and III devices. This is a simple procedure and the instructions for performing this procedure are already included in the documentation package provided to all General Licensees. These instructions are as follows:

#### **PROCEDURES**

1. Turn the system on.
2. Activate the "BEAM ON" mode for the Lippke device model MV-SR, MV-KR, MV-PM or MV-FE or Optimum model 2000 device being tested.
3. Determine the count rate, dose rate or other physical measurement being monitored by the computer/electronics console or other instrumentation such as a survey meter or VOM. Ascertain that the "BEAM ON" indicator lamps are lit.
4. Deactivate the "BEAM ON" mode for the Lippke device model MV-SR, MV-KR, MV-PM or MV-FE or Optimum model 2000 device being tested.
5. Determine the count rate, dose rate or other physical measurement being monitored by the computer/electronics console or other instrumentation such as a survey meter or VOM. Ascertain that the "BEAM OFF" indicator lamps are lit.
6. The measurement should drop from a large number to near zero of the count rate when the "BEAM ON" mode is selected. These counts are caused by background radiation and electronics noise.

If the above criteria are met, the "BEAM ON/BEAM OFF" mechanism is operating correctly. If any difficulty is encountered in completing the test or if the test fails, immediately take the entire system out of service and notify the Honeywell Radiation Safety Officer of the malfunction. Personnel should be kept clear of the system when the "BEAM OFF" mode is selected from the "BEAM ON" mode. "Near Zero" means that the count rate is zero plus no more than 0.5% of the count rate for the "BEAM ON" mode.

The wording of the Device Label will be changed to reflect that the customer is authorized to perform this test. Existing General Licensees devices will not have their Device Labels replaced with the new wording unless they specifically request the change from Honeywell. Any customer preferring to keep the previous Device Label would be legally bound by the wording of the previous Device Label and Device Registration and would not be authorized to perform shutter function checks themselves, unless specifically licensed. General Licensees are already authorized to collect their own leak test smears but are required to have them analyzed by personnel specifically licensed.

**Device Label Wording**

DEVICE SHALL BE TESTED FOR RADIOACTIVE LEAKAGE AT INSTALLATION, SOURCE REPLACEMENT AND THEREAFTER AT NO LONGER THAN SIX MONTH INTERVALS UNLESS THE SOURCE IS KR-85. PROPER FUNCTIONING OF THE SHUTTER MECHANISM SHALL BE TESTED AT INSTALLATION, SOURCE REPLACEMENT AND THEREAFTER AT NO LONGER THAN SIX MONTH INTERVALS. LEAK TESTS MUST BE ANALYZED BY AUTHORIZED PERSONNEL OF HONEYWELL OR PERSONNEL SPECIFICALLY LICENSED BY THE U.S. NUCLEAR REGULATORY COMMISSION OR AN AGREEMENT STATE.

If you have any questions, please let me know.

Sincerely,



Gary L Caines,  
Radiological Operations Manager

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