

24 August 1977

Radioisotopes Licensing Branch
Div. of Fuel Cycle and Material Safety
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

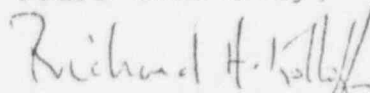
Gentlemen:

In 1975 Hewlett-Packard ceased production of new H-P Electron Capture Detectors Number 2-2837 and Microcross-section Detectors Number 2-2830 containing the U.S. Radium LAB 508-1 200 mCi H3 titanium tritide foil. However, as a customer service, H-P is continuing to clean, repair, and rebuild existing detectors. Due to a U.S. Radium numbering change, the old LAB 508-1 200 mCi H3 titanium tritide foil is now known as LAB 508-3. H-P rebuilt Electron Capture Detectors Number 2-2837 and Microcross-section Detectors Number 2-2830 will contain the same 200 mCi H3 titanium tritide foil as before, but now designated as U.S. Radium LAB 508-3. There is no change in the safety features of the detector.

Equipment evaluation (catalog sheets) should be modified to include the new foil number LAB 508-3. User instructions should be modified to read: "The detector effluent gas must be piped into a fume hood or otherwise vented in compliance with the latest revision of 10 CFR Part 20."

Also attached for your information are our revised customer instructions.

Yours sincerely,



Richard H. Kolloff
Hewlett-Packard
Product Assurance Manager

Attachment
RHK:sg

NOTICE TO USERS OF HEWLETT-PACKARD REBUILT GAS
CHROMATOGRAPHIC DETECTORS CONTAINING TITANIUM TRITIDE FOILS

In 1975 Hewlett-Packard ceased production of new H-P Electron Capture Detectors Number 2-2837 and Microcross-section Detectors Number 2-2830 containing the U.S. Radium LAB 508-1 200 mCi H3 titanium tritide foil. However, as a customer service, H-P is continuing to clean, repair, and rebuild existing detectors. Due to a U.S. Radium numbering change, the old LAB 508-1 200 mCi H3 titanium tritide foil is now known as LAB 508-3. H-P rebuilt Electron Capture Detectors Number 2-2830 and Microcross-section Detectors Number 2-2830 will contain the same 200 mCi H3 titanium tritide foil as before, but now designated as U.S. Radium LAB 508-3. There is no change in the safety features of the detector.

- IMPORTANT:
1. Licensees may have to amend their license to include the new foil number when having their detector rebuilt; and
 2. Instrument manual instructions on venting should be modified to read:
"The detector effluent gas must be piped into an operating fume hood or otherwise vented in compliance with the latest revision of 10 CFR Part 20."

Tritium Release Rate as Function of Temperature*
(Titanium Tritide Foils)

| <u>Temp (C°)</u> | <u>µCi/min</u> |
|-------------------------------------|----------------|
| 100 | 0.5 |
| 150 | 1.3 |
| 225 (Maximum operating temperature) | 13.5 |

*From recent study by U.S. Radium Corp.