

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

23-16788-01

Docket or Reference number

Amendment No. 04

Department of the Interior  
US Geological Survey, WRD  
Gulf Coast Hydroscience Center  
NASA-NSTL, Bldg. 2101  
NSTL, MS 39529

In accordance with application dated November 8, 1983, License Number 23-16788-01 is amended as follows:

The name and address of the licensee are changed from Department of the Interior, U.S. Geological Survey, WRD, NASA-NSTL, Bldg. 2101, NSTL Station, Mississippi 39529 to Department of the Interior, US Geological Survey, WRD, Gulf Coast Hydroscience Ctr, NASA-NSTL, Bldg. 2101, NSTL, MS 39529.

To Add:

- |   |   |  |
|---|---|--|
| 6. Byproduct, source, and/or special nuclear material | 7. Chemical and/or physical form  | 8. Maximum amount that licensee may possess at any one time under this license |
| C. Nickel 63  | C. Plated source contained in Hewlett Packard Model 19303 detector cell | C. Not to exceed 15 millicuries per source                                     |

9. Authorized use

C. For use in gas chromatographs for sample analysis.

Conditions 12. and 18. are amended to read:

12. Licensed material shall be used by, or under the supervision of, Ronald E. Rathbun or Doreen Y. Tai.
18. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated November 4, 1980 and November 8, 1983. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

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Condition 19. is added:

9. A. Each chromatograph detector containing Nickel 63 shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a detector received from another person shall not be put into use until tested.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the surfaces of the device in which the foil is mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the foil from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the test with the U. S. Nuclear Regulatory Commission, Region II, 101 Marietta Street, Suite 3100, Atlanta, Georgia 30303, describing the equipment involved, the test results, and the corrective action taken.
- D. The licensee is authorized to collect leak test samples in accordance with the procedures described in the licensee's application dated November 8, 1983 for analysis by Hewlett Packard. Alternatively, leak test samples may be collected and/or analyzed by other persons specifically authorized by the Commission or an Agreement State to perform such services.

DEC 12 1983

Date \_\_\_\_\_

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

By \_\_\_\_\_

Material Licensing Branch  
Division of Fuel Cycle and  
Material Safety  
Washington, D. C. 20555