



UNIVERSITY OF ALASKA, ANCHORAGE

3221 PROVIDENCE AVENUE
ANCHORAGE, ALASKA 99504

COLLEGE OF ARTS AND SCIENCES



*check Ann Hill
re. Exemption
for color*

Michael A. Lamastra
Material Licensing Branch
Division of Fuel Cycle and
Material Safety
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Lamastra,

The University of Alaska, Anchorage, has purchased a Hewlett Packard 5840 gas chromatograph, located in the Chemistry Laboratory. It has come to our attention that the NRC license will need to be revised to include the electron capture detector in this instrument which contains 15mCi of Ni-63 as a plated part. The specifics of the Hewlett Packard electron capture detector are as follows:

cell model number: 18803-60520
cell serial number: C1267
cell foil number: 53771

The wipe test procedure will be completed every 6 months according to the Hewlett Packard Service Note 5700A-5, a copy of which is included. The Ni-63 electron capture detector leak (wipe) test will be analyzed by:

Nuclear Radiation Development
2937 Alt Blvd. North
Grand Island, N.Y. 14072
716-773-7634

We would appreciate it if this additional revision could be made in our NRC License No. 50-19346-01.

Yours sincerely,

Kristine Mann

Kristine Mann, Ph.D.
Biology Department
University of Alaska, Anchorage

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8510240358 850820
REGS LIC30
50-19346-01 PDR

11642

SUPERSEDES: P-6761

NRC Lic. NO

50-19346-01

NICKEL 63 ELECTRON CAPTURE DETECTOR
LEAK (WIPE) TEST KIT INSTRUCTIONS

Cell Ser No

C1267

A. GENERAL

Performing a contamination wipe test every six months is part of the licensing requirement to possess an Electron Capture Detector which contains a Nickel 63 radioactive foil. It is essential that the test be performed to insure retention of the A.E.C. license. The first due date is six months after the date stamped on the Nickel 63 Detector.

B. SERIAL NUMBER BREAK

This note is applicable to any instrument which has an Electron Capture Detector, factory or field installed.

C. LEAK (WIPE) TEST KIT 18713-60050 Contains the following:

ITEM	DESCRIPTION	PART NO.	QTY.
1	Information Card	18713-90040	12
2	Filter Paper # 41	3152-0035	12
3	Plastic Bags 4" x 8"	9222-0308	12
4	Envelope-Wipe Test Kit	05750-80036	4
5	Service Note 5700A-5	5700A-5 (this)	1

D. PERFORMING THE LEAK (WIPE) TEST

The test should be performed as follows:

- (1) Select three information cards (Item 1) and fill out completely.
- (2) Select three pieces of filter paper (Item 2) and label them with a pencil as follows:

Sample 1 - Det. Entrance Fitting
Sample 2 - Det. Housing
Sample 3 - Det. Exit

- (3) Disconnect the column from the EC Cell.

- (4) Wipe the detector entrance fitting, (column connection) with a piece of filter paper labelled "Det. Entrance Fitting Sample", and immediately insert it and a filled-out information card into one of the plastic bags (Item 3). Wipe both the inside and outside of the fitting.
- (5) Wipe the detector housing (outside case) with the filter paper labelled "Det. Housing Sample 2", and insert it and filled-out information card into a second plastic bag.
- (6) Disconnect the teflon exit fitting, if equipped (fitting where vent tube is attached), from the detector cathode by unscrewing. Wipe the metal detector exit fitting and the inside of the tube exit fitting with the filter paper labelled "Det. Exit Sample 3", and insert it and a filled-out information card into a third plastic container.
- (7) Place the three plastic containers into one of the envelopes (Item 4) addressed to Nuclear Radiation Developments Inc. along with your purchase order for \$25 for counting these wipes.

Nuclear Radiation Developments Inc.
2957 Alt Boulevard
Grand Island, NY 14022

- (8) Sufficient material is supplied in each kit to perform four wipe tests. Extra Leak Test Kits can be purchased from Hewlett-Packard when your supply becomes exhausted.