



July 15, 1985

Dr. William J. Adam
United States Nuclear Regulatory Commission
Material Licensing Section
799 Roosevelt
Glen Ellen, Illinois

Dear Dr. Adam:

This letter is to document and clarify a telephone conversation concerning an interpretation of our license No. 34-00583-04 Condition No. 15.

In using ⁶³Nickel Electron Capture Detectors in gas chromatography our chemist would like to have the flexibility of being able to remove the detector cell assembly from the tower body. This means that using the attached copy of Varian's Catalogue 21, we could purchase ⁶³Ni detectors with removable cells (02-001972-01) instead of nonremovable cells (02-001972-00). As those cells wear out or need replacing, Varian's Cell with ⁶³Ni foil (01-001028-01) could be purchased.

This flexibility allows faster turn around time of equipment when changing detectors and also is more economical since the cell with foil is less than half the price of the entire detector.

If our interpretation of Condition 15 is correct and you agree, please indicate this by signing and returning this letter to my attention at the address below.

Sincerely,

SDS BIOTECH CORPORATION

R. Leisman
Richard J. Leisman
Radiological Safety &
Hazardous Waste Officer
Environmental and Safety Services

/kab

Enclosure

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34-00583-04
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REGION III

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15 DETECTORS AND DETECTOR PARTS

1200 AND 2100 CHROMATOGRAPHS

⁶³Ni Detector. Specify series when ordering. By-Product Material license required for use in the United States.
02-000965-02\$1,040.00

REPLACEMENT PARTS FOR ⁶³Ni ELECTRON CAPTURE DETECTORS

VISTA SERIES AND 3740 AND 3760 CHROMATOGRAPHS

ECD pulser board. For VISTA chromatographs.
03-908108-00\$485.00

ECD pulser board. For 3740 and 3760 chromatographs.
02-001933-00\$485.00

Cell with ⁶³Ni foil. For detectors with removable foil. By-Product Material license required for use in the United States.
01-001028-01\$645.00

⁶³Ni Foil Replacement Kit. For detectors with removable cell. By-Product Material license required for use in the United States.
03-949031-00\$430.00

Power (Top) Probe Assembly.
02-001974-00\$75.00

Signal (Bottom) Probe Assembly.
02-001973-00\$46.00

Pulser Cable Assembly. For detector mounted in rear oven, VISTA Series chromatographs.
03-908376-00\$79.00

Pulser Cable Assembly. For detector mounted in front oven, VISTA Series chromatographs.
03-908376-01\$79.00

Power Cable Assembly. For 3740 and 3760 chromatographs.
02-001949-00\$79.00

Signal Cable Assembly. For detector mounted in rear oven, VISTA Series chromatographs.
03-908263-00\$42.00

Signal Cable Assembly. For detector mounted in front oven, VISTA Series chromatographs.
03-908263-01\$46.00

Signal Cable Assembly. For 3740 and 3760 chromatographs.
02-001877-00\$46.00

Flow-Tube Assembly. 1/8-in o.d. TFE.
02-001967-00\$5.70

Universal detector base crossover.
01-000994-00\$120.00

Detector insert. For adapting 1/8-in base to 1/4-in column.
01-000996-00\$75.00

Glass-lined capillary detector insert. For Option 1070, 1080, 11070, and 11080 capillary systems.
03-949578-00\$135.00

Detector Insert Assembly. For quartz capillary adapter kit, option 1070, 1080, 11070, and 11080 capillary systems.
03-908334-00\$77.00

1200, 1440, 1740, 1840, 1860, 2100, 2440, 2740, 2760, 2840, AND 2860 CHROMATOGRAPHS

⁶³Ni tower.
01-000683-00\$295.00

Cell with ⁶³Ni foil. By-Product Material license required for use in the United States.
02-000969-00\$645.00

Mounting nut for cells.
15-001207-00\$7.90

Silver-plated ferrules. For mounting cells.
16-000631-01
(10 ferrules)\$28.00

Tower clamp. For 1200 and 2100 chromatographs.
08-000072-00\$1.60

Signal (Bottom) Probe Assembly. For 1440, 1740, 1840, 1860, 2440 B-position, 2740, 2760, 2840, and 2860 chromatographs.
02-000954-00\$105.00

Signal (Bottom) Probe Assembly. For 1200, 2100, and 2440 A-position chromatographs.
02-000954-01\$105.00

Power (Top) Probe Assembly. For 1440, 1740, 1840, 1860, 2440 B-position, 2740, 2760, 2840, and 2860 chromatographs.
02-000958-00\$120.00

Power (Top) Probe Assembly. For 1200, 2100, and 2440 A-position chromatographs.
02-000958-01\$120.00

Signal cable. (Not for 2100 chromatographs.)
02-000606-00\$71.00

Signal cable. For 2100 chromatographs.
02-000840-00\$88.00

Power cable. For 1740, 1840, 1860, 2740, 2760, 2840, and 2860 chromatographs.
01-000680-00\$88.00

Power cable. For 1200, 1440, and 2440 chromatographs.
02-000695-00\$79.00

Power cable. For 2100 chromatographs.
02-000841-00\$88.00

Detector base. For 1740, 1840, 1860, 2740, 2760, 2840, and 2860 chromatographs.
02-000944-00\$265.00

Detector base, 1/8 in. For 1440 chromatographs.
01-000745-00\$285.00

Detector base, 1/4 in. For 1440 chromatographs.
01-000815-00\$285.00

Detector base, 1/4 in. For 2440 chromatographs.
01-000911-00\$285.00

Detector base. For 2100 chromatographs.
02-000815-00\$335.00

Detector insert. Adapts 1/8-in base to 1/4-in columns, 1440 chromatographs.
02-000653-01\$45.00

Detector insert. For adapting 1/8-in base to 1/4-in columns, 2440 chromatographs.
02-000653-03\$79.00

Detector insert (1/8-in columns). For 2100 chromatographs.
02-000579-00\$70.00

Detector insert (1/4-in columns). For 1200 chromatographs.
12-000866-00\$93.00

Crossover: 1/8-in column to detector oven. For 1740, 1840, 1860, 2740, 2760, 2840, and 2860 chromatographs.
01-000660-00\$65.00

Crossover: Capillary column to detector oven. For 1740, 1840, 1860, 2740, 2760, 2840, and 2860 chromatographs.
01-000715-00\$35.00

204, 550, 600, 705, AND 1520 CHROMATOGRAPHS

Mounting nut for cells.
15-000617-00\$3.50

Signal cable.
02-000107-00\$88.00

Power cable.
02-000106-00\$88.00

Teflon seal, detector base.
21-000006-00\$12.00

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Electron Capture Detectors

BY-PRODUCT MATERIAL LICENSE

Varian is required to have a copy of the customer's By-Product Material license or a certification letter, before radioactive detectors and parts can be shipped. (The general license electron capture detectors, noted in the ordering information subsections that follow, are excepted.) The license shows isotope, possession limits, license number, expiration date, and licensee's address to which shipment can be made. If you need help in verifying your individual requirements, please contact a Varian representative.

REPAIR SERVICE

Electron capture detectors can be returned for repair, refurbishing, and evaluation. The price for this service depends, of course, on the parts and labor required. For details, call Varian, (415)939-2400, or contact:

Radiation Safety Officer
Varian Walnut Creek Instrument Div.
2700 Mitchell Drive
Walnut Creek, California 94598

⁶³Ni ELECTRON CAPTURE DETECTOR: PULSED

The ⁶³Ni electron capture detector (ECD) is selectively sensitive to electron-absorbing compounds in quantities to the picogram level. Because it can operate at temperatures as high as 420°C, this ECD is the preferred detector for a broad range of pesticide analyses and for analyses of compounds (drugs, sugars, amino acids, carboxylic acids, and amines) in biological systems, after the samples have been suitably derivatized. The constant-current, pulse-modulated design, available for use with VISTA Series and 3740 and 3760 chromatographs only, has a linear dynamic range greater than 10⁴. As a result, the capability of the detector to handle large samples is extended, and detector stability (for reproducible responses) is increased.

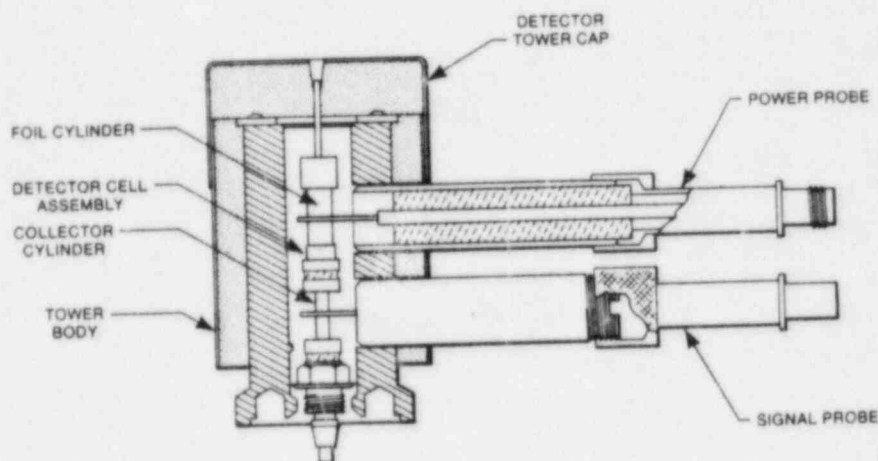
VISTA SERIES CHROMATOGRAPHS

⁶³Ni Detector with nonremovable cell. Includes ECD pulser board. No By-Product Material license required.

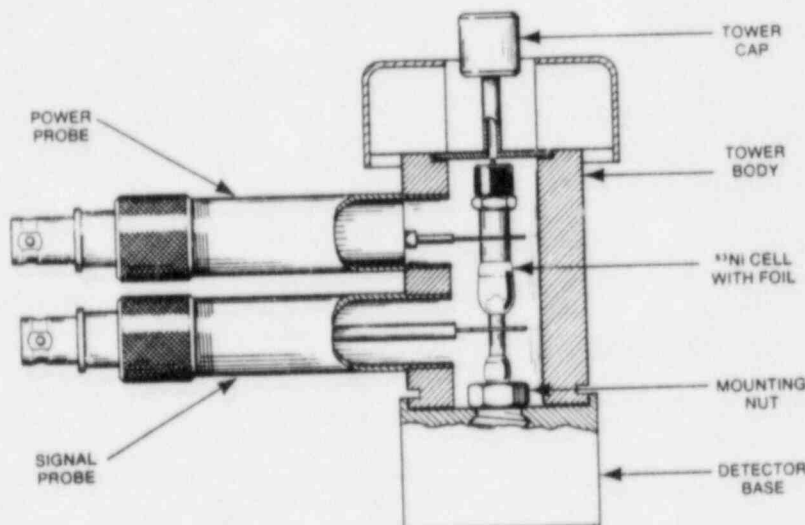
03-908366-90 \$2,580.00

⁶³Ni Detector with removable cell. Includes ECD pulser board. By-Product Material license required for use in the United States.

03-908366-91 \$2,580.00



⁶³Ni ECD configuration for VISTA Series and 3740 and 3760 chromatographs



⁶³Ni ECD configuration for 1440, 1740, 2740, 2760, 2840, and 2860 chromatographs

3740 and 3760 CHROMATOGRAPHS

⁶³Ni Detector with nonremovable cell.

Requires ECD pulser board (02-001933-00)

No By-Product Material license required

02-001972-00 \$1,340.00

⁶³Ni Detector with removable cell.

Requires ECD pulser board (02-001933-00). By-Product Material license required for use in the United States.

02-001972-01 \$1,340.00

⁶³Ni ELECTRON CAPTURE DETECTORS: NONPULSED

1440; 1740; 1840; 1860; 2440, B-POSITION; 2740; 2760; 2840; and 2860 CHROMATOGRAPHS

⁶³Ni Detector. By-Product Material license required for use in the United States

02-000965-00 \$1,040.00

2440 CHROMATOGRAPHS:

A-POSITION

⁶³Ni Detector. By-Product Material license required for use in the United States.

02-000965-01 \$1,040.00