

**PEDCO ENVIRONMENTAL, INC.**

11499 CHESTER ROAD  
CINCINNATI, OHIO 45246  
(513) 782-4700  
TELEX (513) 782-4807

January 5, 1982

Mr. Mike McCann  
Region III Licensing Section  
Nuclear Regulatory Commission, Region III  
Material Licensing Branch Division of Fuel  
Cycle and Material Safety  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

RE: Control Number 05550 (License Renewal Application)

Dear Mr. McCann:

As requested in your letter to Eugene W. Koesters dated December 16, 1981, I am providing the following items of information to clarify and complete our application for license renewal. (Control Number 05550)

1. Name of Radiation Safety Officer:

Timothy Ian Miller Sander

2. The chromatograph will be stationary and only used at 11499 Chester Road, Cincinnati, Ohio.

3. The radioactive foil is never removed from the detector cell for cleaning. We follow the manufacturers recommended procedures for cleaning and wipe testing (see Attachment I). When cleaning beyond bake-out is required the detector cell is removed, intact, from the chromatograph and shipped with appropriate labelling to:

Nuclear Sources and Services, Inc.  
P.O. Box 34042  
Houston, Texas 77034

4. Users listed in our application are to replace the previous authorized users.

BRANCH OFFICES

DALLAS, TEXAS  
KANSAS CITY, MISSOURI

COLUMBUS, OHIO  
DURHAM, NORTH CAROLINA



CHESTER TOWERS

8803040202 870323  
REG3 LIC30  
34-17048-02 BCD

I hope that this additional information will help you to complete your review of our application for license renewal. If you have any further questions, we will be most happy to help in any way we can.

Sincerely,

PEDCo ENVIRONMENTAL, INC.

A handwritten signature in cursive script, appearing to read "Tim I. Sander".

Tim I. Sander  
Radiation Safety Officer

TIS/sg

Enclosure

# PEDCO ENVIRONMENTAL, INC.

11499 CHESTER ROAD  
CINCINNATI, OHIO 45246  
(513) 782-4700  
TELECOPIER (513) 782-4807

May 17, 1983

Mr. Mike McCann  
United States Nuclear Regulatory Commission  
Region III Licensing Section  
Material Licensing Branch  
Division of Fuel Cycle and Material Safety  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

Ref: License No. 34-17048-02  
Control No. 05550

Dear Mr. McCann:

Applicant... 19308  
Check No. 19308  
Amount/Fee Category \$40.31  
Type of Fee Amendment  
Date Check Received 6/1/83  
Received By Brown

RECEIVED BY LFMB  
Date... 6/1/83  
Log... June 2 III  
By... Brown  
Orig. To...  
Action Compl... 6/4/83

This letter is a request to amend items 10 and 12 of the above referenced license, a copy of which is enclosed. The amendment to item 10 is required in order to authorize the transportation of the licensed material to temporary work sites in various States in a vehicle owned and operated exclusively by the licensee. The amendment to item 12 is requested in order to add the name of another operator of the gas chromatograph.

Pursuant to item 2 of your letter of December 16, 1981 to me, the following information is submitted.

- In the event of an emergency involving the radiation source, our Radiation Protection Officer, Mr. Timothy Sander, will be notified and he in turn will notify the appropriate local and State authorities and the Nuclear Regulatory Commission.
- The foil containing 15 millicuries of Nickel 63 is contained within a sealed detector cell which, under the provisions of the above referenced license, may not be removed from the detector cell. The cell is mounted securely inside and totally enclosed by the gas chromatograph as it was received from the manufacturer. The detector cell will remain secured inside the chromatograph at all times except when performing the leak test specified under item 13 of the referenced license.
- The gas chromatograph will be transported in a van or a mobile laboratory (trailer) and used when off-site, in a mobile laboratory. The van and/or the mobile laboratory will be securely locked to prevent the unauthorized use or removal of equipment during periods when they are not manned. The gas chromatograph will not be used while the trailer is in motion. When the device is in use, the trailer will be manned, and at all other times remain locked. Access to the trailer is limited to employees of PEDCO Environmental, Inc.



CHESTER TOWERS

## BRANCH OFFICES

DALLAS, TEXAS RECEIVED COLUMBUS, OHIO  
KANSAS CITY, MISSOURI DURHAM, NORTH CAROLINA

MAY 20 1983

REGION III



MAY 20 1983

7803040148 Control No. 7950  
2/1/83

May 17, 1983

- d. When the gas chromatograph is in use, it will be mounted on a laboratory bench fixed to the walls of the trailer. When the device is being transported, however, it will be mounted inside a specially constructed box for that purpose, and the box will be secured to the floor of the vehicle to prevent damage or movement in the event of collision with another object. The trailer will not be manned when it is in transit.
- e. One of the individuals named in item 12 will accompany the licensed material whenever it is in transit.

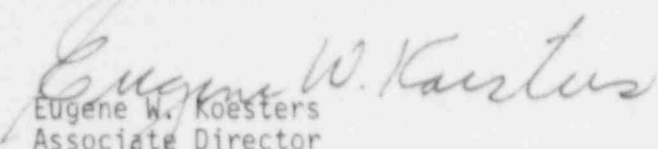
It is believed that the specifications of the device and the precautions described above meet or exceed the requirements set forth by the Nuclear Regulatory Commission and the Department of Transportation. Therefore it is requested that the referenced license be amended to permit the transportation of the licensed material to temporary work sites as required within the continental United States.

It is also requested that item 12 be amended in that the name Gregory Clemens Meiners be added as a supervisor/user of the licensed material. The other names in item 12 shall remain.

A check in the amount of \$40.00 (forty dollars) for the amendment fee is enclosed.

Sincerely,

PEDCo ENVIRONMENTAL, INC.

  
Eugene W. Koesters  
Associate Director  
Field Studies/Laboratory Division

EWK:sk

Enclosures

NUCLEAR REGULATORY COMMISSION  
MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 31, 32, 33, 34, 35, 36, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s); and to import such byproduct and source material. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		
1. PEDCo Environmental, Incorporated		3. License number 34-17048-02
2. 11499 Chester Road Post Office Box 46100 Cincinnati, Ohio 45246-0100		4. Expiration date February 28, 1987
		5. Docket or Reference No. 34-17048-01
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
A. Nickel-63	A. Foil Sources (Perkin-Elmer Model 009-0282 Detector Cell)	A. No single cell to exceed 15 millicuries

## 9. Authorized use

A. To be used in Perkin-Elmer gas chromatographs for sample analysis.

## CONDITIONS

10. Licensed material shall be used only at 11499 Chester Road, Cincinnati, Ohio 45246-0100.
11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
12. Licensed material shall be used by, or under the supervision of, Harry William Jess, Timothy Ian Miller Sander or Alan Dominic Zaffiro.

880304/0192 SPP  
Compl. 7/4/82

## U. S. NUCLEAR REGULATORY COMMISSION

## MATERIALS LICENSE

License Number 34-17048-12

## Supplementary Sheet

Docket or

Reference No. \_\_\_\_\_

Continued from Page 1

## CONDITIONS:

13. A. Each chromatograph detector cell containing Nickel-63 shall be tested for leakage and/or contamination at intervals not to exceed six (6) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to the transfer, a detector cell 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 Nickel-63 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 detector cell 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 five (5) days of the test with the U. S. Nuclear Regulatory Commission, Region III, Office of Inspection and Enforcement, 799 Roosevelt Road, Glen Ellyn, Illinois 60137, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an Agreement State to perform such services.
14. In lieu of using the conventional radiation caution colors (orange or purple on yellow background) as provided in Section 20.203(a)(1), Title 10, Code of Federal Regulations, Part 20, the licensee is hereby authorized to label detector cells and cell baths, containing licensed material and used in gas chromatography devices, with conspicuously etched or stamped radiation caution symbols without a color requirement.
15. Detector cells containing licensed material shall not be opened by the licensee.
16. Maintenance, repair, cleaning, replacement and disposal of foils contained in detector cells shall be performed only by the device manufacturer or other persons specifically authorized by the Commission or an Agreement State to perform such services.
17. Except as otherwise specified in this license, the licensee shall have available and follow the instructions contained in the manufacturer's instruction manual for the chromatography device.

RECEIVED

Control No. 7969

MAY 20 1983

REGION III



## U. S. NUCLEAR REGULATORY COMMISSION

## MATERIALS LICENSE

## Supplementary Sheet

License Number 34-17048-02Docket or  
Reference No. \_\_\_\_\_

Continued from Page 2

## CONDITIONS:

18. The licensee shall conduct a physical inventory every six (6) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for two (2) years from the date of the inventory for inspection by the Commission, and shall include the quantities and kinds of byproduct material, location of sealed sources, and the date of the inventory.
19. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 4., 7., and 8. of this license in accordance with statements, representations, and procedures contained in application dated September 16, 1981 and letter dated January 3, 1982. 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.

For the U. S. Nuclear Regulatory Commission

ORIGINAL SIGNED BY BRUCE S. MALLETby Material Licensing BranchDivision of Fuel Cycle and  
Material Safety  
Washington, D. C. 20555

5

Date: FEB 19 1982Control No. 7959



# NUCLEAR SOURCES & SERVICES, INC.

P. O. BOX 34042

HOUSTON, TEXAS 77034

AREA CODE 713 / 641-0391

## SEALED SOURCE LEAK TEST CERTIFICATE

PEDCO ENVIRONMENTAL  
11499 CHESTER ROAD  
CINCINNATI, OHIO 45246

ATTN: TIM SANDER

DISC \_\_\_\_\_ FILE \_\_\_\_\_

MO. 3 MO. 9

TEST DUE: SEPTEMBER 1983

RADIONUCLIDE Ni-63

ACTIVITY 15 MCI

SERIAL NO. 736

WIPE DATE 3/28/83

WIPED BY K.H.

THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIO-ACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 MICROCURIE OR MORE OF ACTIVITY.

THE REMOVABLE ACTIVITY WAS ASSAYED TO BE:

$3.1 \times 10^{-5}$  MICROCURIE

ASSAY NO. 68483 DATE 3/28/83

ASSAYED BY *[Signature]*

CUSTOMER REPORT

Control No. 7959