

## APPLICATION FOR MATERIAL LICENSE

**INSTRUCTIONS:** SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

**FEDERAL AGENCIES FILE APPLICATIONS WITH:**

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS  
WASHINGTON, DC 20555

**ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:**

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIAL SECTION B  
631 PARK AVENUE  
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
MATERIAL RADIATION PROTECTION SECTION  
101 MARIETTA STREET, SUITE 2900  
ATLANTA, GA 30323

**IF YOU ARE LOCATED IN:**

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
MATERIALS LICENSING SECTION  
799 ROOSEVELT ROAD  
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
MATERIAL RADIATION PROTECTION SECTION  
611 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V  
MATERIAL RADIATION PROTECTION SECTION  
1450 MARIA LANE, SUITE 210  
WALNUT CREEK, CA 94596

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION.

**1. THIS IS AN APPLICATION FOR (Check appropriate item)**

- ☒ A. NEW LICENSE  
☐ B. AMENDMENT TO LICENSE NUMBER \_\_\_\_\_  
☐ C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

**2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)**

S. & W. Waste, Inc.  
115 Jacobus Avenue  
South Kearny, NJ 07032

**3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.**

S. & W. Waste, Inc.  
115 Jacobus Avenue  
South Kearny, NJ 07032 (Laboratory)

**4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION**

Kevin F. Vasilik

TELEPHONE NUMBER  
201-344-4004

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

**5. RADIOACTIVE MATERIAL**

a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time.

**6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.**

**7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.**

**8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.**

**9. FACILITIES AND EQUIPMENT.**

**10. RADIATION SAFETY PROGRAM.**

**11. WASTE MANAGEMENT.**

**12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)**  
FEE CATEGORY 3 P AMOUNT ENCLOSURE \$230.00 Paid

**13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.**

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN, IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948, 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

**SIGNATURE—CERTIFYING OFFICER**

**TYPED/PRINTED NAME**

**TITLE**

**DATE**

Kevin Vasilik

Kevin F. Vasilik

Laboratory Manager

6/14/85

**14. VOLUNTARY ECONOMIC DATA**

**a. ANNUAL RECEIPTS**

<\$250K		\$1M-3.5M
\$250K-500K		\$3.5M-7M
\$500K-750K		\$7M-10M
\$750K-1M	X	>\$10M

**b. NUMBER OF EMPLOYEES (Total for entire facility excluding outside contractors)**

**c. NUMBER OF BEDS**

**d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dollar and/or staff hours) ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit it to protect confidential commercial or financial—proprietary—information furnished to the agency in confidence)**

☐ YES ☐ NO

**FOR NRC USE ONLY**

**TYPE OF FEE FEE LOG FEE CATEGORY COMMENTS**

8507250011 850702  
REG1 LIC30  
29-20843-01 PDR

**APPROVED BY**

**DATE**

## PRIVACY ACT STATEMENT

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the Nuclear Regulatory Commission on NRC Form 313. This information is maintained in a system of records designated as NRC-3 and described at 40 Federal Register 45334 (October 1, 1975).

1. **AUTHORITY:** Sections 81 and 161(b) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2111 and 2201(b)).
2. **PRINCIPAL PURPOSE(S):** The information is evaluated by the NRC staff pursuant to the criteria set forth in 10 CFR Parts 30, 32, 33, 34, 35 and 40 to determine whether the application meets the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations, for the issuance of a radioactive material license or amendment thereof.
3. **ROUTINE USES:** The information may be (a) provided to State health departments for their information and use; and (b) provided to Federal, State, and local health officials and other persons in the event of incident or exposure, for their information, investigation, and protection of the public health and safety. The information may also be disclosed to appropriate Federal, State, and local agencies in the event that the information indicates a violation or potential violation of law and in the course of an administrative or judicial proceeding. In addition, this information may be transferred to an appropriate Federal, State, or local agency to the extent relevant and necessary for an NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you.
4. **WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION:** Disclosure of the requested information is voluntary. If the requested information is not furnished, however, the application for radioactive material license, or amendment thereof, will not be processed. A request that information be held from public inspection must be in accordance with the provisions of 10 CFR 2.790. Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned need to inspect the document.
5. **SYSTEM MANAGER(S) AND ADDRESS:** U.S. Nuclear Regulatory Commission  
Director, Division of Fuel Cycle and Material Safety  
Office of Nuclear Material Safety and Safeguards  
Washington, D.C. 20555

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c. NUMBER OF BEDS

YES

NO

**FOR NRC USE ONLY**

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS	APPROVED BY
AMOUNT RECEIVED	CHECK NUMBER			DATE

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Director, Division of Fuel Cycle and Material Safety  
Office of Nuclear Material Safety and Safeguards  
Washington, D.C. 20555

ATTACHMENT FORM 313

APPLICATION FOR MATERIAL LICENSE

Item No. 5      RADIOACTIVE MATERIAL

- a. Nickel 63
- b. New England Nuclear  
331 Treble Cove  
North Billerica, Mass. 01862  
  
Sealed Source : Model NER-004
- c. 10 mCi
- d. Shimadzu Scientific Instruments, Inc.  
7102 Riverwood Drive  
Columbia, Maryland 21046  
  
Detector cell : Model ECD-8

Item No. 6

The purpose of the gas chromatograph is to detect, identify and quantify certain chlorinated organic compounds.

Item No. 7

- a. The specific operations which will be performed will be: Analysis of samples using the instrument, leak testing and cleaning of the detector cell as described below.

Leaks testing of the detector cell:

S. & W. Laboratory is enrolled in the Varian Leak Test Program sponsored by;

Varian Instrument Division  
2700 Mitchell Drive  
Walnut Creek, CA 94598  
Radiation Safety Department



ATTACHMENT FORM 313

Item No. 7 (Continued) Leak Testing -

S. & W. Laboratory follows the proper leak test procedure as described in section 5.3 of the attached Radiation Safety Manual.

Cleaning of the Detector Cell:

S. & W. Laboratory cleans the detector cell used in the gas chromatograph but does not remove the source or foil from the detector cell. ECD cleaning procedures are followed.

b. The responsible individuals who will perform the above operations are:

- Kevin F. Vasilik - B.S. in Chemistry and 6 years of GC/ECD experience.
  - Sher Malik - M.S. in Chemistry and 10 years of GC/ECD experience.
  - Greg Mor<sup>SCH</sup> - B.S. in Chemistry and 1 year of GC/ECD experience.
- c. S. & W. Waste Laboratory does not propose to perform any maintenance or repair on the GC/ECD device that involve removal of the radioactive sources from the device or maintenance and repair of the device that involves the source.

Subsequently, the above individuals do not have any formal specific training or instruction other than that received by work experience with GC's equipped with ECD's. The above individuals have read and understood section 5 of the Radiation Safety Manual attached.

ATTACHMENT FORM 313

Item 8

The individuals listed in Item 7 will only use the gas chromatograph and are not permitted to perform any maintenance or repair operations on the radioactive device.

Item 9

S. & W. Waste Laboratory is certified by the State of New Jersey, Department of Environmental Protection to perform limited analysis which include PCB and pesticide analysis by GC/ECD. The Laboratory is secured under lock and key and restricted to authorized laboratory personnel only. The Laboratory area is locked when an authorized person is not physically present.

The Laboratory is presently equipped with one GC/ECD manufactured by Varian Instruments. The Laboratory will be receiving, upon approval of this application, a Shimadzu GC-8AIE with an ECD. Radioactive labels are visible on both instruments.

Both instruments listed above contain a sealed cell inside a electron capture device.

ATTACHMENT FORM 313

Item 10 - Radiation Safety Program

The Radiation Safety Program followed by S. & W. Laboratory is described in Section 5 of attached document. Our laboratory is using GC devices equipped with Nickel - 63 sealed sources and these are for routine use. We therefore do not use radiation personnel ~~monitoring~~ devices. Also our program does not include maintenance and repair operations as described in Item 7.

Our facility does perform leak testing of the GC/ECD device to determine if there is any leakage from the radioactive sources as will be performed by one of the individuals specified in Item 7. We are using Wipe Kit P/N 03-949041-00 by Varian Instrument Division, Walnut Creek, CA 94598 and sending the smear to the kit supplier.

Item 11 - Waste Management

The disposal of our GC/ECD device will be by transfer of the radioactive material to either of the two original manufacturers of the radioactive device. For the Varian GC/ECD instrument the material will be sent to:

Varian Instrument Division  
2700 Mitchell Drive  
Walnut Creek, CA 94598

For the Shimadzu GC/ECD instrument the material will be sent to:

New England Nuclear  
331 Treble Cove  
North Billerica, Mass. 01862

Both of these manufacturers are licensed and specifically authorized to dispose of the licensed material.



ATTACHMENT FORM 313

Item 12        - License Fee

As shown in the attached copy of our previous  
application we have already paid in<sup>full</sup> the license fee.