

Estimated burden per response to comply with this mandatory collection request: 15 minutes. This notification is required so that NRC may schedule inspection of the activities to ensure that they are conducted in accordance with requirements for protection of the public health and safety. Send comments regarding burden estimate to the Records Management Branch (T-8 EB), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0013), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

## REPORT OF PROPOSED ACTIVITIES IN NON-AGREEMENT STATES, AREAS OF EXCLUSIVE FEDERAL JURISDICTION, OR OFFSHORE WATERS

(Please read the instructions before completing this form)

|  |  |  |  |
|--|--|--|--|
| <p>1. NAME OF LICENSEE (Person or firm proposing to conduct the activities described below)</p> <p style="text-align: center;">Volunteer NDT Corporation</p> | <p>2. TYPE OF REPORT</p> <p><input checked="" type="checkbox"/> INITIAL    <input type="checkbox"/> REVISION    <input type="checkbox"/> CLARIFICATION</p>   |  |  |
| <p>3. ADDRESS OF LICENSEE (Mailing address or other location where licensee may be located)</p> <p>6046 Dayton Blvd.<br/>Chattanooga, TN 37415</p>           | <p>4. LICENSEE CONTACT AND TITLE</p> <p style="text-align: center;">Glen C. Brotton VP/RSO</p>   |  |  |
|  | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> <p>5. TELEPHONE NUMBER<br/>(Include Area Code)</p> <p style="text-align: center;">423-877-7799</p> </td> <td style="width: 50%;"> <p>6. FACSIMILE NUMBER<br/>(Include Area Code)</p> <p style="text-align: center;">423-877-3470</p> </td> </tr> </table> | <p>5. TELEPHONE NUMBER<br/>(Include Area Code)</p> <p style="text-align: center;">423-877-7799</p> | <p>6. FACSIMILE NUMBER<br/>(Include Area Code)</p> <p style="text-align: center;">423-877-3470</p> |
| <p>5. TELEPHONE NUMBER<br/>(Include Area Code)</p> <p style="text-align: center;">423-877-7799</p>   | <p>6. FACSIMILE NUMBER<br/>(Include Area Code)</p> <p style="text-align: center;">423-877-3470</p>   |  |  |

7. ACTIVITIES TO BE CONDUCTED UNDER THE GENERAL LICENSE GIVEN IN 10 CFR 150.20

WELL LOGGING   
  LEAK TESTING AND/OR CALIBRATIONS   
  TELETHERAPY/IRRADIATOR SERVICE  
 PORTABLE GAUGES   
  OTHER (Specify) \_\_\_\_\_  
 RADIOGRAPHY   
 REGISTERED AS USER OF PACKAGING (CERTIFICATES OF COMPLIANCE NUMBERS): \_\_\_\_\_

|  |   |  |   |
|--|---|--|---|
| <p>8. CLIENT NAME, ADDRESS, CITY/COUNTY, STATE, ZIP CODE</p> <p>National Boiler Service, Inc.<br/>176 North Industrial Drive<br/>Trenton, GA 30752</p> | <p>9. ACTUAL PHYSICAL ADDRESS OF WORK LOCATION<br/>(Street and Number or other location. Give as complete an address or directions as possible.)</p> <p style="text-align: center;">Smurfitt-Stone Container<br/>19th &amp; Main Street<br/>West Point, VA 23181</p>  |  |   |
|  | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> <p>10. CLIENT TELEPHONE NUMBER<br/>(Include Area Code)</p> <p style="text-align: center;">706-657-6200</p> </td> <td style="width: 50%;"> <p>11. WORK LOCATION TELEPHONE NUMBER<br/>(Include Area Code)</p> <p style="text-align: center;">804-843-3707</p> </td> </tr> </table> | <p>10. CLIENT TELEPHONE NUMBER<br/>(Include Area Code)</p> <p style="text-align: center;">706-657-6200</p> | <p>11. WORK LOCATION TELEPHONE NUMBER<br/>(Include Area Code)</p> <p style="text-align: center;">804-843-3707</p> |
| <p>10. CLIENT TELEPHONE NUMBER<br/>(Include Area Code)</p> <p style="text-align: center;">706-657-6200</p>   | <p>11. WORK LOCATION TELEPHONE NUMBER<br/>(Include Area Code)</p> <p style="text-align: center;">804-843-3707</p>   |  |   |

|                     |                         |         |            |                               |
|---------------------|-------------------------|---------|------------|-------------------------------|
| 12. DATES SCHEDULED | 13. NUMBER OF WORK DAYS | 14. ADD | 15. DELETE | 16. LOCATION REFERENCE NUMBER |
| FROM TO             |                         |         |            | NUMBER TO BE ASSIGNED BY NRC  |
| 4/08/02 4/14/02     | 7                       |         |            |                               |

17. LIST ADDITIONAL WORK SITES ON SEPARATE SHEET(S) TO INCLUDE ALL INFORMATION CONTAINED IN ITEMS 9-16 ABOVE.

17. LIST RADIOACTIVE MATERIAL, WHICH WILL BE POSSESSED, USED, INSTALLED, SERVICED, OR TESTED (Include description of type and quantity of radioactive material, sealed sources, or devices to be used.)

IR-192 AEA Technology Model #424-9 Serial #03145B 59.9 Ci (2.22TBq)  
Sentinel Model #660B Serial #3103

|   |                |       |                 |
|---|----------------|-------|-----------------|
| 18. AGREEMENT STATE SPECIFIC LICENSE WHICH AUTHORIZES THE UNDERSIGNED TO CONDUCT ACTIVITIES WHICH ARE THE SAME, EXCEPT FOR LOCATION OF USE, AS SPECIFIED IN ITEM 9 ABOVE. (Four copies of the specific license must accompany the initial NRC Form 241) | LICENSE NUMBER | STATE | EXPIRATION DATE |
|   | R33-139-C04    | TN    | 3/31/04         |

19. CERTIFICATION (MUST BE COMPLETED BY APPLICANT)

I, THE UNDERSIGNED, HEREBY CERTIFY THAT:

- All information in this report is true and complete.
- I have read and understand the provision of the general license 10 CFR 150.20 reprinted on the instructions of this form; and I understand that I am required to comply with these provisions as to all byproduct, source, or special nuclear material which I possess and use in non-Agreement States or offshore waters under the general license for which this report is filed with the U.S. Nuclear Regulatory Commission.
- I understand that activities, including storage, conducted in non-Agreement States under general license 10 CFR 150.20 are limited to a total of 180 days in calendar year. With the exception of work conducted in off-shore waters, which is authorized for an unlimited period of time in the calendar year.
- I understand that I may be inspected by NRC at the above listed work site locations and at the Licensee home office address for activities performed in non-Agreement States or offshore waters.
- I understand that conduct of any activities not described above, including conduct of activities on dates or locations different from those described above or without NRC authorization, may subject me to enforcement action, including civil or criminal penalties.

|  |                        |        |
|--|------------------------|--------|
| CERTIFYING OFFICER - RSO or Management Representative (Name and Title) | SIGNATURE              | DATE   |
| Glen C. Brotton VP/RSO   | <i>Glen C. Brotton</i> | 4-2-02 |

**WARNING: False statements in this certificate may be subject to civil and/or criminal penalties. NRC regulations require that submissions to the NRC be complete and accurate in all material respects. 18 U.S.C. Section 1001 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.**

|                  |   |           |      |                            |
|------------------|---|-----------|------|----------------------------|
| FOR NRC USE ONLY | REVIEWING OFFICIAL (Typed/Printed Name and Title) | SIGNATURE | DATE | TOTAL USAGE - DAYS TO DATE |
|------------------|---|-----------|------|----------------------------|

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
 DIVISION OF RADIOLOGICAL HEALTH



SRK 3/9/99  
 RIF  
 BFG  
 BDD } copy to  
 CS }

**RADIOACTIVE MATERIAL LICENSE**

Pursuant to Tennessee Department of Environment and Conservation Regulations, 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 radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules and regulations of the Tennessee Department of Environment and Conservation and orders of the Division of Radiological Health, now or hereafter in effect and to any conditions specified below.

|  |  |  |
|--|--|--|
| LICENSEE   |  | 3. License number  |
| 1. Name  | Volunteer NDT Corporation                      | R-33139-C04  |
| 2. Address   | 6046 Dayton Boulevard<br>Chattanooga, TN 37415 | 4. Expiration date   |
|  |  | March 31, 2004   |
|  |  | 5. File no.  |
|  |  | R-33139  |
| 6. Radioactive Material<br>(Element and Mass Number) | 8. Chemical and/or physical form               | 9. Maximum Radioactivity and/or<br>quantity of material which licensee<br>may possess at any one time. |
|  | See Supplementary Sheets                       |  |
| 10. Authorized Use                                   |  |  |
| See Supplementary Sheets                             |  |  |

CONDITIONS

11. Unless otherwise specified, the authorized place of use is the licensee's address stated in item 2, above.

See Supplementary Sheets

For the Commissioner  
 Tennessee Department of Environment and Conservation

Date of Issuance March 31, 1999  
 Page 1 of 5 Pages

By: Sasi Krishnasarma  
 DIVISION OF RADIOLOGICAL HEALTH  
 Sasi Krishnasarma  
 Health Physicist

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH

**RADIOACTIVE MATERIAL LICENSE**

**Supplementary Sheet**

Page 2 of 6 Pages

License Number R-33139-C04

| 6. Radioactive<br>Material ( Element<br>and Mass Number | 8. Chemical and/or<br>Physical Form            | 9. Maximum Radioactivity<br>and/or Quantity of<br>Material Which<br>Licensee May Possess<br>at Any One Time |
|---|--|---|
| A. Cobalt 60  | A. Sealed Sources (Amersham<br>Model A-424-18) | A. No single source to<br>exceed 33 Curies.   |
| B. Cobalt 60  | B. Sealed Sources (Amersham<br>Model A-424-14) | B. No single source to<br>exceed 110 Curies<br>each.  |
| C. Iridium 192  | C. Sealed Source(Amersham<br>Model 424-9)      | C. Two (2) sources not<br>to exceed 240 Curies<br>each.   |
| D. Depleted Uranium                                     | D. Metal                                       | D. 999 kilograms  |

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10. Authorized use

- A. For use in Amersham Model NO. 741 A/B exposure device and in Amersham Model No. 771 source changers for storage and replacement of sources.
- B. For use in Amersham Model No. 680 A/B exposure device and in Amersham Model No. 771 source changers for storage and replacement of sources.
- C. For use in Amersham model 660- A/B exposure device for industrial radiography and in Amersham Model 650 and 650L source changers for storage and replacement of sources.
- D. Shielding of radiographic devices.

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**Conditions (continued)**

- 12. The licensee shall comply with applicable provisions of 1200-2-4, 1200-2-5, 1200-2-8, and 1200-2-10, of "State Regulations for Protection Against Radiation."

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH

**RADIOACTIVE MATERIAL LICENSE**

**Supplementary Sheet**

Page 3 of 6 Pages

License Number R-33139-C04

13. Radioactive material authorized by this license shall be stored at 6046 Dayton Boulevard, Chattanooga, TN 37415.
14. Radioactive material authorized by this license may be used at temporary job sites of the licensee, in areas not under exclusive Federal jurisdiction, throughout the State of Tennessee.

Before radioactive materials can be used at a temporary job site at any Federal facility, the jurisdictional status of the job site must be determined. If the jurisdictional status is unknown, the Federal agency should be contacted to determine if the job site is under exclusive Federal jurisdiction. A response should be obtained in writing or a record should be made of the name and title of the person at the Federal agency who provided the determination and the date that it was provided. Authorization for use of radioactive materials at job sites under exclusive Federal jurisdiction shall be obtained either by: (1) filing a NRC Form-241 in accordance with 10 CFR 150.20(b), "Recognition of Agreement State Licenses", or (2) by applying for a specific NRC license.

Before radioactive materials can be used at a temporary job site in another State, authorization shall be obtained from the State if it is an Agreement State, or from the NRC for any non-Agreement State, either by filing for reciprocity or applying for a specific license.

15. The licensee shall not open sealed sources containing radioactive material.
16. A. The licensee shall exercise appropriate administrative control to ensure that no person will use or personally supervise the use of radioactive material until such person has received instruction in applicable Sections of 1200-2-4, 1200-2-5, 1200-2-8, and 1200-2-10 of "State Regulations for Protection Against Radiation", the licensee's written instructions referred to in Condition 16, and in the provision of this license as to possession and use within Tennessee.  
  
B. The Radiation Safety Officer for this license is Glen Brotton.  
  
C. The Assistant Radiation Safety Officer is Terry A. Kelly.
17. Written instructions included in your "RADIATION SAFETY MANUAL" shall be followed except where they may conflict with "State Regulations for Protection Against Radiation", or specific conditions of this license. A copy of these instructions shall be supplied to each individual using or having responsibility for the use of radioactive material. Any changes in these instructions shall have the prior approval of the Department.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH

**RADIOACTIVE MATERIAL LICENSE**

**Supplementary Sheet**

Page 4 of 6 Pages

License Number R-33139-C04

18. Pursuant to 1200-2-8-. 04(5) of "State Regulations for Protection Against Radiation", the licensee is authorized to perform tests for leakage and/or contamination in accordance with procedures contained in the "RADIATION SAFETY MANUAL" attached to the application dated January 18, 1999.
19. The licensee is authorized to receive, possess, and use sources of Iridium 192 where the radioactivity exceeds the maximum amount of radioactivity specified in Item 9 of this license provided:
  - A. Such possession does not exceed the quantity specified in Item 9 by more than 20% for Iridium 192;
  - B. Records of the licensee show that no more than the maximum amount of radioactivity per source specified in Item 9 of this license was ordered from the supplier or transferor of the radioactive material;
  - C. The levels of radiation for radiographic exposure devices and storage containers do not exceed those specified in 1200-2-8 of "State Regulations for Protection Against Radiation."
20. Sealed sources of radioactive material shall not be combined for use to produce a radiation level in excess of the level produced by the largest source authorized by this license.
21. The licensee shall maintain complete and accurate records of the receipt and disposal of radioactive material. The licensee shall, for radioactive material no longer useful for any purpose and for any equipment or supplies contaminated with such material for which further use and decontamination is not planned, define those materials as radioactive waste and treat them as such in accordance with the following provisions:
  - A. Radioactive waste material shall not be stored with non-radioactive waste.
  - B. A written record of all radioactive waste material shall be maintained until it has been determined by a suitable survey or radioassay that it has decayed to background levels or until it has been shipped to an authorized recipient in accordance with all applicable

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH

**RADIOACTIVE MATERIAL LICENSE**

**Supplementary Sheet**

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License Number R-33139-C04

regulations. Accountability of radioactive waste material prepared for shipment but not yet shipped from the licensee's premises shall be maintained by the licensee by an internal record system such that the licensee is constantly aware of the material's location and the proposed time of shipment. Individuals who are involved in the shipping of such material and/or the storage of such material prior to shipment, shall be trained in the precautions necessary for such handling and storage.

- C. For material which has decayed to background levels as determined by radioassay or external level as measured with appropriately calibrated instruments, records shall indicate that the material was determined to be no longer radioactive and will indicate the methods and results of the survey or analysis.
- D. Shipment records of radioactive waste material shall be maintained and the licensee shall require written confirmation from the authorized recipient of such material that this material has been received.
- E. All records and written confirmations required by this condition shall be maintained for inspection by the Department.

The requirements for this condition are in addition to any other requirements for the handling and/or disposal of radioactive material contained in this license and "State Regulations for Protection Against Radiation."

- 22. The licensee's inspection program for radiographers and radiographer's assistants shall comply with the provisions of 1200-2-8-.10(3) of "State Regulations for Protection Against Radiation".
- 23. Notwithstanding the requirements of SRPAR 1200-2-8-.04(10)(a), and pursuant to SRPAR 1200-2-4-.08, radiographic equipment authorized for use in radiographic operations under this license need not comply with the torque criteria of Section 8.9.2(c) of American National Standard N432-1980.
- 24. No provision of this license relieves the licensee from compliance with other Federal, State and local laws, ordinances, and regulations applicable to the licensee's activities.
- 25. All records required to be maintained by this license and "STATE REGULATIONS FOR PROTECTION AGAINST RADIATION" shall be on file at 6046 Dayton Boulevard, Chattanooga, TN 37415.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH

**RADIOACTIVE MATERIAL LICENSE**

**Supplementary Sheet**

**Page 6 of 6 Pages**

**License Number R-33139-C04**

26. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 8, and 9 of this license in accordance with statements, representations, and procedures contained in application dated January 18, 1999, with the attached, " RADIATION SAFETY MANUAL", and letter dated February 18, 1999, with attachments.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH

**RADIOACTIVE MATERIAL LICENSE**

**Amendment 1**

Page 1 of 1 Page

License Number R-33139-C04

Volunteer NDT Corporation  
6046 Dayton Boulevard  
Chattanooga, Tennessee 37415

Attention: Glen C. Brotton, Vice President/RSO

Gentlemen:

As requested by Glen Brotton and in accordance with his letter dated April 21, 1999, your Tennessee Radioactive Material License number R-33139-C04 is amended as follows:

To change Item 9.C and Condition 26. This item and this condition will now read as follows:

- |   |   |   |
|---|---|---|
| 6. Radioactive Material<br>(Element and<br><u>Mass Number</u> ) | 8. Chemical<br>and/or<br><u>Physical Form</u> | 9. Maximum Radioactivity<br>and/or Quantity of Material<br>Which Licensee May<br><u>Possess at Any One Time</u> |
| C. Iridium 192  | C. Sealed Source<br>(Amersham<br>Model 424-9) | C. No single source to<br>exceed 240 Curies.  |

26. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 8, and 9 of this license in accordance with statements, representations, and procedures contained in application dated January 18, 1999, with the attached, "RADIATION SAFETY MANUAL", and letters dated February 18, 1999, with attachments, and April 21, 1999.

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This amendment acknowledges the calibration of survey meters on six month intervals, radiographer and assistant radiographer performance observations on six month intervals, and the use of Laudauer Optically Stimulated Luminescence (OSL) badges.

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**All other parts of this license remain unchanged.**

**Date: May 11, 1999**

**For the Commissioner  
Tennessee Department of  
Environment and Conservation**

By   
**Gerald W. Bacon  
Health Physicist  
Division of Radiological Health**