

<b>NRC FORM 241</b> <small>(7-1999)</small>		<b>U.S. NUCLEAR REGULATORY COMMISSION</b>		<b>APPROVED BY OMB: NO. 3150-0013</b> <b>EXPIRES: 07/31/2002</b> <small>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-6 E6), 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, NECB-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.</small>	
<b>REPORT OF PROPOSED ACTIVITIES IN  NON-AGREEMENT STATES, AREAS OF EXCLUSIVE  FEDERAL JURISDICTION, OR OFFSHORE WATERS</b> <i>(Please read the instructions before completing this form)</i>					
<b>1. NAME OF LICENSEE</b> <small>(Person or firm proposing to conduct the activities described below)</small> K. S. Ware and Associates, LLC			<b>2. TYPE OF REPORT</b> <input checked="" type="checkbox"/> INITIAL <input type="checkbox"/> REVISION <input type="checkbox"/> CLARIFICATION		
<b>3. ADDRESS OF LICENSEE</b> <small>(Mailing address or other location where licensee may be located)</small> 54 Lindsley Ave Nashville, TN 37210			<b>4. LICENSEE CONTACT AND TITLE</b> Charles Ervin    RSO		
			<b>5. TELEPHONE NUMBER</b> <small>(Include Area Code)</small> 615-742-7476		<b>6. FACSIMILE NUMBER</b> <small>(Include Area Code)</small> 615-742-3166
<b>7. ACTIVITIES TO BE CONDUCTED UNDER THE GENERAL LICENSE GIVEN IN 10 CFR 150.20</b> <input type="checkbox"/> WELL LOGGING <input type="checkbox"/> LEAK TESTING AND/OR CALIBRATIONS <input type="checkbox"/> TELE THERAPY/RADIATOR SERVICE <input checked="" type="checkbox"/> PORTABLE GAUGES <input type="checkbox"/> OTHER (Specify) ⇒ _____ <input type="checkbox"/> RADIOGRAPHY ⇒ _____ REGISTERED AS USER OF PACKAGING (CERTIFICATES OF COMPLIANCE NUMBERS)					
<b>8. CLIENT NAME, ADDRESS, CITY/COUNTY, STATE, ZIP CODE</b> Mactec Constructors 97B Midway Lane Oak Ridge, TN 37830			<b>9. ACTUAL PHYSICAL ADDRESS OF WORK LOCATION</b> <small>(Street and Number or other location. Give as complete an address or directions as possible.)</small> SW 54 and IHP Oak Ridge National Laboratory Oak Ridge, TN		
			<b>10. CLIENT TELEPHONE NUMBER</b> <small>(Include Area Code)</small> 865-483-1280		<b>11. WORK LOCATION TELEPHONE NUMBER</b> <small>(Include Area Code)</small> 865-574-0996
<b>12. DATES SCHEDULED</b> FROM Jan. 21, 2003 TO August 29, 2003		<b>13. NUMBER OF WORK DAYS</b> 157 <i>see attachment #1</i>	<b>14. ADD</b>	<b>15. DELETE</b>	<b>16. LOCATION REFERENCE NUMBER</b> NUMBER TO BE ASSIGNED BY NRC 000158
<b>LIST ADDITIONAL WORK SITES ON SEPARATE SHEET(S) TO INCLUDE ALL INFORMATION CONTAINED IN ITEMS 9-16 ABOVE.</b>					
<b>17. LIST RADIOACTIVE MATERIAL, WHICH WILL BE POSSESSED, USED, INSTALLED, SERVICED, OR TESTED</b> <small>(include description of type and quantity of radioactive material, sealed sources, or devices to be used)</small> Cesium 137 NO single source to exceed 9 millicuries Americium 241/Beryllium NO single source to exceed 44 millicuries					
<b>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</b> <small>(Four copies of the specific license must accompany the Initial NRC Form 241.)</small>			<b>LICENSE NUMBER</b> R-19218-D07	<b>STATE</b> TN	<b>EXPIRATION DATE</b> April 30, 2007
<b>19. CERTIFICATION (MUST BE COMPLETED BY APPLICANT)</b>					
<b>I, THE UNDERSIGNED, HEREBY CERTIFY THAT:</b>					
a. All information in this report is true and complete. b. 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. c. 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. d. 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. e. 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.					
<b>CERTIFYING OFFICER - RSO or Management Representative (Name and Title)</b> Charlie Ervin    RSO			<b>SIGNATURE</b> <i>Charlie Ervin</i>		<b>DATE</b> 1-2-2003
<b>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.</b>					
<b>FOR NRC USE ONLY</b>		<b>REV</b> Janice H. Kirby Licensing Assistant	<b>SIGNATURE</b> <i>Janice Kirby</i>		<b>DATE</b> 1/13/03
					<b>TOTAL USAGE - DAYS TO DATE</b>

Attachment # 1

Calendar Year 2003

January 21-24, 27-31 = 9 days

February 3-7, 10-14, 17-21, 24-28 = 20 days

March 3-7, 10-14, 17-21, 24-28, 31 = 21 days

April 1-4, 7-11, 14-18, 21-25, 28-30 = 22 days

May 1-2, 5-9, 12-16, 19-23, 27-30 = 21 days

June 2-6, 9-13, 16-20, 23-27, 30 = 21 days

July 1-3, 7-11, 14-18, 21-25, 28-31 = 22 days

August 1, 4-8, 11-15, 18-22, 25-29, = 21 days

total = 157 days

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH



## 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.

<b>LICENSEE</b>		3. License number
1. Name	K. S. Ware & Associates, LLC	R-19218-D02
2. Address	315 10th Ave. N., Suite 122 Nashville, TN 37203	4. Expiration date
		April 30, 2002
		5. File no.
		R-19218
6. Radioactive Material (Element and Mass Number)	8. Chemical and/or physical form	9. Maximum Radioactivity and/or quantity of material which licensee may possess at any one time.
<b>See Supplementary Sheets</b>		

10. Authorized Use
<b>See Supplementary Sheets</b>

### 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 April 23, 1997

Page 1 of 5 Pages

By: \_\_\_\_\_

DIVISION OF RADIOLOGICAL HEALTH

Ronald E. Wynn  
Health Physicist

CM-0719 (Rev. 9-92)  
Form RRS 8-7

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH

**RADIOACTIVE MATERIAL LICENSE**

**Supplementary Sheet**

Page 2 of 5 Pages

License Number R-19218-D02

6. Radioactive  
Material (Element  
and Mass Number)

8. Chemical and/or  
Physical Form

9. Maximum Radioactivity  
and/or Quantity of  
Material Which  
Licensee May Possess  
at Any One Time

A. Cesium 137

A. Sealed Source  
(CPN-131A)

A. No single source to  
exceed 10 millicuries.

B. Americium 241:  
Beryllium

B. Sealed Source  
(CPN-131B)

B. No single source to  
exceed 50 millicuries.

C. Cesium 137

C. Sealed Source  
(Troxler Drawing  
Number A-102112C)

C. No single source to  
exceed 9 millicuries.

D. Americium 241:  
Beryllium

B. Sealed Source  
(Troxler Drawing  
Number A-102451D)

B. No single source to  
exceed 44 millicuries.

10. Authorized use

A. and B. To be used in Campbell Pacific Nuclear Corporation Model MC series soil gauge for the measurement of moisture and density of construction materials at various jobsites within the license jurisdiction.

C. and D. To be used in Troxler Electronics Laboratory Models 3411 or 3430 compac moisture density gauge for the measurement of moisture and density of construction materials at various jobsites within the license jurisdiction.

Conditions (continued)

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

13. 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.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH

**RADIOACTIVE MATERIAL LICENSE**

**Supplementary Sheet**

Page 3 of 5 Pages

License Number R-19218-D02

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.

14. A. Radioactive material authorized by this license shall be used by James E. Trotter.
- B. The Radiation Safety Officer for this license is James E. Trotter.
15. A. Sealed sources authorized by this license 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 transfer, the sealed source 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 sealed source or from the surface of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak tests shall be kept in units of microcuries and maintained for inspection by the Department.
- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Department regulations. A report shall be filed within five (5) days of the test with the Division of Radiological Health, Tennessee Department of Environment and Conservation, 3rd Floor L & C Annex, 401 Church Street, Nashville, Tennessee, 37243-1532, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by persons authorized by this Department, the U.S. Nuclear Regulatory Commission, or another Agreement state to perform such services.
16. The licensee shall not open sealed sources containing radioactive material or remove sealed sources from their respective source holders.
17. Maintenance and repair of devices containing radioactive material, and installation, replacement, removal from service, and disposal of sealed sources containing radioactive material used in devices shall be performed only by the respective device manufacturer or by other persons specifically authorized by this Department, the U. S. Nuclear Regulatory Commission, a Licensing State, or another Agreement State, as appropriate, to perform such services.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH

**RADIOACTIVE MATERIAL LICENSE**

**Supplementary Sheet**

Page 4 of 5 Pages

License Number R-19218-D02

18. To prevent tampering or removal by unauthorized personnel, each radioactive device authorized by this license shall be secured in a locked storage container or area when not being used.
19. 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 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."

20. The licensee shall conduct a physical inventory every six (6) months to account for all sources and/or devices received and possessed under this license. Records of inventories shall be maintained for inspection by the Department.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH

**RADIOACTIVE MATERIAL LICENSE**

**Supplementary Sheet**

Page 5 of 5 Pages

License Number R-19218-D02

- 21. 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.
- 22. 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 April 14, 1997, 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-19218-D02

K.S. Ware & Associates, LLC  
315 10th Ave. N., Suite 122  
Nashville, TN 37203

Attention: James E. Trotter, Radiation Safety Officer

Gentlemen:

As requested by James E. Trotter and in accordance with his letter dated June 2, 1997, your Tennessee Radioactive Material License number R-19218-D02 is amended as follows:

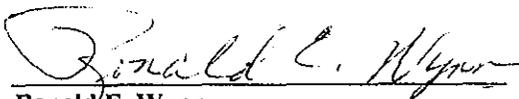
To change Items 10.C and D and Condition 22. These items and this condition will now read as follows:

- 10.C. and D. To be used in Troxler Electronics compac moisture density gauges, all models within the 3400 series, for the measurement of moisture and density of construction materials at various jobsites within the license jurisdiction.
22. 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 April 14, 1997, with attachments, and letter dated June 2, 1997.

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All other parts of this license remain unchanged.  
Date June 2, 1997

For the Commissioner  
Tennessee Department of  
Environment and Conservation

By   
Ronald E. Wynn  
Health Physicist  
Division of Radiological Health

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH

**RADIOACTIVE MATERIAL LICENSE**

**Amendment 2**

Page 1 of 1 Page

License Number R-19218-D02

K.S. Ware & Associates, LLC  
315 10th Ave. N., Suite 122  
Nashville, TN 37203

Attention: James E. Trotter, Radiation Safety Officer

Gentlemen:

As requested by James E. Trotter and in accordance with his letter dated July 11, 1997, with attachment, your Tennessee Radioactive Material License number R-19218-D02 is amended as follows:

To change Conditions 14A. and 22. These conditions will now read as follows:

14. A. Radioactive material authorized by this license shall be used by James E. Trotter, or Charles Ervin.
22. 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 April 14, 1997, with attachments, and letters dated June 2, 1997, and July 11, 1997, with attachment.

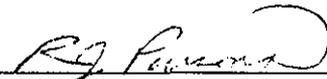
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All other parts of this license remain unchanged.

Date July 11, 1997

For the Commissioner  
Tennessee Department of  
Environment and Conservation

By

  
\_\_\_\_\_  
Ronald J. Parsons

Health Physicist  
Division of Radiological Health

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH

## RADIOACTIVE MATERIAL LICENSE

Amendment 3Page 1 of 1 PageLicense Number R-19218-D02K.S. Ware & Associates, LLC  
315 10th Ave. N., Suite 122  
Nashville, TN 37203

Attention: James E. Trotter, Radiation Safety Officer

Gentlemen:

As requested by James E. Trotter and in accordance with his letter dated July 31, 1997, with attachments, your Tennessee Radioactive Material License number R-19218-D02 is amended as follows:

To change Conditions 14A. and 22. These conditions will now read as follows:

14. A. Radioactive material authorized by this license shall be used by James E. Trotter, Charles Ervin, or by individuals who have satisfactorily completed the licensee's training course or a training course provided by a device manufacturer, and have been instructed in the licensee's operating and emergency procedures. Records of training for each user shall be maintained by the licensee for inspection by the Department.
22. 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 April 14, 1997, with attachments, and letters dated June 2, 1997, July 11, 1997, with attachment, and July 31, 1997, with attachments.

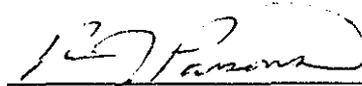
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All other parts of this license remain unchanged.

Date August 6, 1997

For the Commissioner  
Tennessee Department of  
Environment and Conservation

By



Ronald J. Parsons  
Health Physicist  
Division of Radiological Health

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH

**RADIOACTIVE MATERIAL LICENSE**

**Amendment 4**

Page 1 of 1 Page

License Number R-19218-D02

K.S. Ware & Associates, LLC  
315 10th Ave. N., Suite 122  
Nashville, TN 37203

Attention: James E. Trotter, Radiation Safety Officer

Gentlemen:

As requested by James E. Trotter and in accordance with his letter dated April 29, 1998, your Tennessee Radioactive Material License number R-19218-D02 is amended as follows:

To delete Items 6A, 6B, 8A, 8B, 9A, 9B, 10A, and 10B. These Items are hereby deleted.

To change Items 9C, 9D, and Condition 22. These items and this condition will now read as follows:

9.C. Two (2) sources. No single source to exceed 9 millicuries

9.D. Two (2) sources. No single source to exceed 44 millicuries

22. 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 April 14, 1997, with attachments, and letters dated June 2, 1997, July 11, 1997, with attachment, July 31, 1997, with attachments, and April 29, 1998.

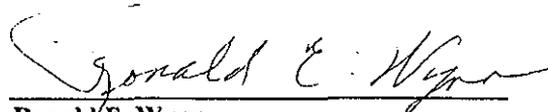
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All other parts of this license remain unchanged.

Date April 30, 1998

For the Commissioner  
Tennessee Department of  
Environment and Conservation

By



Ronald E. Wynn  
Health Physicist  
Division of Radiological Health

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH

**RADIOACTIVE MATERIAL LICENSE**

**Amendment 5**

Page 1 of 1 Page

License Number R-19218-D02

K.S. Ware & Associates, LLC  
315 10th Ave. N., Suite 122  
Nashville, TN 37203

Attention: James E. Trotter, Radiation Safety Officer

Gentlemen:

As requested by James E. Trotter and in accordance with his letter dated September 15, 1998, with attachments, your Tennessee Radioactive Material License number R-19218-D02 is amended as follows:

To change Conditions 14A. and 22. These conditions will now read as follows:

14. A. Radioactive material authorized by this license shall be used by James E. Trotter, Charles Ervin, Laurie Bourg, or by individuals who have satisfactorily completed the licensee's training course or a training course provided by a device manufacturer, and have been instructed in the licensee's operating and emergency procedures. Records of training for each user shall be maintained by the licensee for inspection by the Department.
22. 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 April 14, 1997, with attachments, and letters dated June 2, 1997, July 11, 1997, with attachment, July 31, 1997, with attachments, April 29, 1998, and September 15, 1998, with attachments.

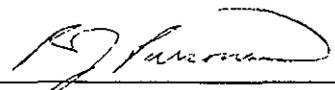
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**All other parts of this license remain unchanged.**

**Date September 23, 1998**

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

By

  
\_\_\_\_\_  
**Ronald J. Parsons  
Health Physicist  
Division of Radiological Health**

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH**

**RADIOACTIVE MATERIAL LICENSE**

**Amendment 6**

Page 1 of 1 Page

License Number R-19218-D02

K.S. Ware & Associates, LLC  
315 10th Avenue North, Suite 122  
Nashville, Tennessee 37203

Attention: James E. Trotter, Radiation Safety Officer

Gentlemen:

As requested by James E. Trotter and in accordance with his letters dated December 31, 1998, with attachments, and March 17, 1998 (received March 22, 1999), with attachment, your Tennessee Radioactive Material License number R-19218-D02 is amended as follows:

To change Condition 22. This condition will now read as follows:

22. 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 April 14, 1997, with attachments, and letters dated June 2, 1997, July 11, 1997, with attachment, July 31, 1997, with attachments, April 29, 1998, September 15, 1998, with attachments, December 31, 1998, with attachment, and March 17, 1998 (received March 22, 1999), with attachments.

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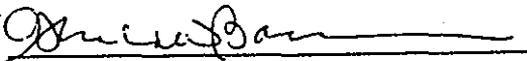
This amendment acknowledges the change of the physical storage location of the gauges listed on this license, to a new location within the lab.

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All other parts of this license remain unchanged.

Date: April 7, 1999

For the Commissioner  
Tennessee Department of  
Environment and Conservation

By   
Gerald W. Bacon  
Health Physicist  
Division of Radiological Health

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH**

**RADIOACTIVE MATERIAL LICENSE**

**Amendment 7**

**Page 1 of 1 Page**

**License Number R-19218-D02**

K.S. Ware & Associates, LLC  
315 10<sup>th</sup> Avenue North, Suite 122  
Nashville, Tennessee 37203

Attention: James E. Trotter, Radiation Safety Officer

Gentlemen:

As requested by James E. Trotter and Charles Ervin, and in accordance with their letter dated April 14, 1999, your Tennessee Radioactive Material License number R-19218-D02 is amended as follows:

To change Conditions 14 and 22. These conditions will now read as follows:

14. A. Radioactive material authorized by this license shall be used by James E. Trotter, Charles Ervin, Laurie Bourg, or by individuals who have satisfactorily completed the licensee's training course or a training course provided by a device manufacturer, and have been instructed in the licensee's operating and emergency procedures. Records of training for each user shall be maintained by the licensee for inspection by the Department.
- B. The Radiation Safety Officer for this license is Charles Ervin.
22. 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 April 14, 1997, with attachments, and letters dated June 2, 1997, July 11, 1997, with attachment, July 31, 1997, with attachments, April 29, 1998, September 15, 1998, with attachments, December 31, 1998, with attachment, March 17, 1998 (received March 22, 1999), with attachments, and April 14, 1999.

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

**Date: April 26, 1999**

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

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

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH**

**RADIOACTIVE MATERIAL LICENSE**

**Amendment 8**

**Page 1 of 1 Page**

**License Number R-19218-D02**

K.S. Ware & Associates, LLC  
315 10<sup>th</sup> Avenue North, Suite 122  
Nashville, Tennessee 37203

Attention: James E. Trotter, Radiation Safety Officer

Gentlemen:

As requested by Charles Ervin and in accordance with his letter dated July 6, 2000, your Tennessee Radioactive Material License number R-19218-D02 is amended as follows:

To change Items 9.C and 9.D, and Conditions 14 and 22. These items and this condition will now read as follows:

9.C. Three (3) sources. No single source to exceed 9 millicuries.

9.D. Three (3) sources. No single source to exceed 44 millicuries.

14. A. Radioactive material authorized by this license shall be used by Charles Ervin, Eric Snyder, Victor B. Pusser, Emily Hughes, Bill Bruce, or by other individuals who have satisfactorily completed the licensee's training course or a training course provided by the device manufacturer, and have been instructed in the licensee's operating and emergency procedures. Records of training for each user shall be maintained by the licensee for inspection by the Department.

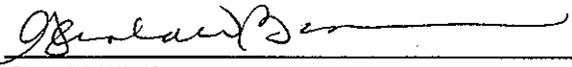
B. The Radiation Safety Officer for this license is Charles Ervin.

22. 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 April 14, 1997, with attachments, and letters dated June 2, 1997, July 11, 1997, with attachment, July 31, 1997, with attachments, April 29, 1998, September 15, 1998, with attachments, December 31, 1998, with attachment, March 17, 1998 (received March 22, 1999), with attachments, April 14, 1999, and July 6, 2000.

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

**Date: November 27, 2000**

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

By 

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

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF RADIOLOGICAL HEALTH**

**RADIOACTIVE MATERIAL LICENSE**

**Amendment 9**

Page 1 of 1 Page

License Number R-19218-D07

K.S. Ware & Associates, LLC  
54 Lindsley Avenue  
Nashville, Tennessee 37210

Attention: Charlie Ervin, Radiation Safety Officer

Gentlemen:

As requested by Charlie Ervin and in accordance with his letters dated January 3, 2002, with attachment, and May 9, 2002, with attachment, your Tennessee Radioactive Material License number R-19218-D02 is amended as follows:

To change Items 2, 3, 4, and Condition 22. These will now read as follows:

2. 54 Lindsley Avenue  
Nashville, Tennessee 37210
3. R-19218-D07
4. April 30, 2007
22. 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 April 14, 1997, with attachments, and letters dated June 2, 1997, July 11, 1997, with attachment, July 31, 1997, with attachments, April 29, 1998, September 15, 1998, with attachments, December 31, 1998, with attachment, March 17, 1998 (received March 22, 1999), with attachments, April 14, 1999, July 6, 2000, January 3, 2002, with attachment, and May 9, 2002, with attachment.

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This amendment extends the expiration date of the license to that in Item 4.

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

**Date: May 17, 2002**

For the Commissioner  
Tennessee Department of  
Environment and Conservation

By 

Gerald W. Bacon  
Health Physicist  
Division of Radiological Health