

REGION II
Calendar Year 2000

TRANSMITTAL FOR NRC FORM 241 & REVISION SUBMITTALS

[] INITIAL 241 PACKAGE LRN 0001075
[] REVISION LRN _____
[] CLARIFICATION LRN _____

LICENSEE NAME : Consolidated Testing Services
LICENSE STATE : TN NUMBER : R 82055-H10
CHECK NO: 1243
CHECK AMOUNT: \$ 100.00
FORWARDED BY: Crane Helm

	Initial	Revision	Clarification
includes: Form 241	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fee	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
License Copy	<input checked="" type="checkbox"/>		

LICENSE FEE & ACCOUNT RECEIVABLE BRANCH

1. Fee Category and Amount: _____
2. Correct Fee Paid. Submittal may be processed for:

General License _____

Revision _____

Signed _____ Date _____

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.

LICENSEE 1. Name Consolidated Testing Services 2. Address 1936 Brookside Drive, Suite E Kingsport, TN 37660	3. License number R-82055-H10
	4. Expiration date August 31, 2010
	5. File no. R-82055

6. Radioactive Material (Element and Mass Number) See	8. Chemical and/or physical form Supplementary	9. Maximum Radioactivity and/or quantity of material which licensee may possess at any one time. Sheets
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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 August 10, 2000
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By: Charles Arnott
DIVISION OF RADIOLOGICAL HEALTH
Charles Arnott
Health Physicist

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DIVISION OF RADIOLOGICAL HEALTH**

RADIOACTIVE MATERIAL LICENSE

Supplementary Sheet

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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 (Troxler Drawing No. A-102112)	A. One (1) source not to exceed 9 millicuries
B. Americium 241; Beryllium	B. Sealed Source (Troxler Drawing No. A-102451)	B. One (1) source not to exceed 44 millicuries

10. Authorized use

A. and B. To be used as components of a Troxler Model 3411B moisture and surface density gauge to measure properties of construction materials.

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 shall be stored at 1936 Brookside Drive, Suite E, Kingsport, TN in accordance with statements, representations, and procedures contained in the documents referenced in Condition 24 of this license.
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)

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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. A. Radioactive material authorized by this license shall be used by, or under the supervision of and in the physical presence of, William Duke, Todd King, or other individuals who have completed 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 William Duke.
16. 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.

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- D. The licensee is authorized to collect leak test samples for analysis by InstroTek, Inc. or other persons authorized by this Department, the U.S. Nuclear Regulatory Commission, or another Agreement state to perform such services, or 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.
17. The licensee shall not open sealed sources containing radioactive material or remove sealed sources from their respective source holders.
18. 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.
19. Maintenance of devices containing radioactive material may be performed by the licensee in accordance with the manufacturer's procedures.
20. 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.
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 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

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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 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.
- 23. 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.
- 24. 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 received July 31, 2000, with attachments, letter dated August 10, 2000, with attachment, and telefax received August 10, 2000, with attachments.