

REGION II
Calendar Year 2001

TRANSMITTAL FOR NRC FORM 241 & REVISION SUBMITTALS

4/27/01

[☒] INITIAL 241 PACKAGE LRN 000851
[] REVISION LRN _____
[] CLARIFICATION LRN _____

LICENSEE NAME : World Testing, Inc
LICENSE STATE : TN NUMBER : R-95009-H01
CHECK NO: 8493
CHECK AMOUNT: \$ 1200.00
FORWARDED BY: Joanna Kirby

| | 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 _____

**REPORT OF PROPOSED ACTIVITIES IN
NON-AGREEMENT STATES, AREAS OF EXCLUSIVE
FEDERAL JURISDICTION, OR OFFSHORE WATERS***(Please read the instructions before completing this form)*

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, 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.

1. NAME OF LICENSEE (Person or firm proposing to conduct the activities described below)

World Testing, Inc.

2. TYPE OF REPORT

☒ INITIAL ☐ REVISION ☐ CLARIFICATION

3. ADDRESS OF LICENSEE (Mailing address or other location where licensee may be located)

72 East Hill St
Mt. Juliet, TN

4. LICENSEE CONTACT AND TITLE

Robert C'Neal

5. TELEPHONE NUMBER
(Include Area Code)

615-754-4147

6. FACSIMILE NUMBER
(Include Area Code)

615-758-6239

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) \Rightarrow _____
- ☒ RADIOGRAPHY \Rightarrow REGISTERED AS USER OF PACKAGING (CERTIFICATES OF COMPLIANCE NUMBERS) _____

8. CLIENT NAME, ADDRESS, CITY/COUNTY, STATE, ZIP CODE

Pittsburg Tank & Tower Co
P.O. Box 36
Henderson, KY 424209. ACTUAL PHYSICAL ADDRESS OF WORK LOCATION
(Street and Number or other location. Give as complete an address or directions as possible.)Fort Campbell, KY (Military Base)
Across from Sabre Airfield
Woodtown Rd (Directions attached)10. CLIENT TELEPHONE NUMBER
(Include Area Code)

270-826-9000 x270

11. WORK LOCATION TELEPHONE NUMBER
(Include Area Code)

931-431-7619

12. DATES SCHEDULED

13. NUMBER OF
WORK DAYS

14. ADD

15. DELETE

16. LOCATION
REFERENCE NUMBER

FROM

TO

May 15, 2001

May 15, 2001

1

NUMBER TO BE
ASSIGNED BY NRC

000 851

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.)

Two (2) Amertest 660B cameras, each containing Iridium 192

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

R-95009-HOI

STATE

TN

EXPIRATION DATE

August 31, 2001

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)

Robert C'Neal - RSC

SIGNATURE

Robert C'Neal

DATE

4-25-01

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**

REVIEW

Janice H. Kirby
Licensing Assistant

a)

SIGNATURE

Janice Kirby

DATE

4/27/01

TOTAL USAGE - DAYS TO DATE

1

| 8. CLIENT NAME/ADDRESS | 9. WORK LOCATION ADDRESS | 10. CLIENT TELEPHONE | 11. WORK LOCATION TELEPHONE | 12. DATES SCHEDULED | 13. NUMBER OF WORK DAYS |
|---|--------------------------------------|----------------------|-----------------------------|---------------------|-------------------------|
| Virginia Gas, P.O. Box K 900 Palmer Avenue Saltsville, VA 24370 | Virginia Gas Saltsville, VA 24370 | 504-496-7004 | 540-496-7004 | Not scheduled | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | | | |
|------------------------|----------------------|------|--------------|
| Post-It* Fax Note 7671 | | Date | # of pages 1 |
| To Robert C. Neal | From Jason | | |
| Co./Dept. | Co. | | |
| Phone # | Phone # 270-826-9000 | | |
| Fax # 615-758-6239 | Fax # | | |

**DIRECTIONS TO
SABRE AIRFIELD WATER PROJECT
FORT CAMPBELL, KY.
JOB #4522**

Take Highway 41S through Hopkinsville, KY past Fort Campbell, KY to Hwy 374 North.

Take Hwy 374N (101ST Airborne Division Parkway) to Lafayette Rd. Take a RIGHT onto Lafayette.

Turn LEFT onto Woodlawn Rd and the job site is directly across the street from Sabre Airfield (helicopters).

The above directions will enable you to get into the base without going through any guard posts.

Contact Mike Gullett w/ TJC Engineering if there are any questions. 931.431.7619

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH



RADIOACTIVE MATERIAL LICENSE

AMENDMENT 26

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 | World Testing, Inc. | | R-95009-H01 AMENDED IN ITS ENTIRETY | |
| 2. Address | 72 East Hill Street Mt. Juliet, TN 37122 | | 4. Expiration date August 31, 2001 | |
| | | | 5. File no. R-95009 | |
| 6. Radioactive Material (Element and Mass Number) | 8. Chemical and/or physical form See Supplementary Sheets | | 9. Maximum Radioactivity and/or quantity of material which licensee may possess at any one time. | |
| 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 28, 1996

Page 1 of 6 Pages

By: RJ Parsons

DIVISION OF RADIOLOGICAL HEALTH

Ronald J. Parsons
Health Physicist

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH

RADIOACTIVE MATERIAL LICENSE

Amendment 26

Supplementary Sheet

Page 2 of 6 PagesLicense Number R-95009-H016. Radioactive
Material (Element
and Mass Number)8. Chemical and/or
Physical Form9. Maximum Radioactivity
and/or Quantity of
Material Which
Licensee May Possess
at Any One Time

A. Iridium 192

A. Sealed Source
(Amersham Corp.
Model A424-9)A. No single source to
exceed 120 curies

B. Iridium 192

B. Sealed Source
(Amersham Corp.
Model A424-9)B. No single source to
exceed 140 curies

C. Iridium 192

C. Sealed Source
(Amersham Corp.
Model 87551/87556)C. No single source to
exceed 100 curies

D. Iridium 192

D. Sealed Source
(SPEC Products
Model G-60)D. No single source to
exceed 150 curies

E. Iridium 192

E. Sealed Source
(SPEC Products
Model T-5/T-5F)E. No single source to
exceed 100 curies

F. Iridium 192

F. Sealed Source
(SPEC Products
Model G-23)F. No single source to
exceed 100 curies

G. Cobalt 60

G. Sealed Source
(Amersham Corp.
Model A424-14)G. No single source to
exceed 110 curies

H. Cobalt 60

H. Sealed Source
(Amersham Corp.
Model A424-14)H. No single source to
exceed 110 curies

I. Depleted Uranium

I. Metal

I. 999 kilograms

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH

RADIOACTIVE MATERIAL LICENSE

Amendment 26

Supplementary Sheet

Page 3 of 6 Pages

License Number R-95009-H01

10. Authorized use

- A. For use in Amersham Corporation Model 660A exposure devices for industrial radiography and in Amersham Corporation Models 650L source changers for storage and replacement of sources. Also, for use in SPEC C-1 source changers for storage and replacement of sources where the total activity in the source changer does not exceed 120 curies.
 - B. For use in Amersham Corporation Model 660B exposure devices for industrial radiography and in Amersham Corporation Models 650L source changers for storage and replacement of sources. Also, for use in SPEC C-1 source changers for storage and replacement of sources where the total activity in the source changer does not exceed 120 curies.
 - C. For use in Amersham Pipeliner Model 1 exposure devices for industrial radiography.
 - D. For use in SPEC-150 exposure devices for industrial radiography and in SPEC C-1 source changers for storage and replacement of sources where the total activity in the source changer does not exceed 120 curies.
 - E. For use in Amersham Corporation Models 660B exposure devices for industrial radiography and in Amersham Corporation Model 650L and SPEC C-1 source changers for storage and replacement of sources.
 - F. For use in Amersham Pipeliner Model 1 exposure devices for industrial radiography.
 - G. For use in Amersham Corporation Model 680A exposure devices for industrial radiography.
 - H. For use in Amersham Corporation Model 680B exposure devices for industrial radiography
 - I. Shielding of radiographic devices.
-

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."
- 13. Radioactive material authorized by this license may be used at 72 and 72-B East Hill Street, Mt. Juliet, TN, 37122, and at temporary job sites of the licensee, in areas not under exclusive Federal jurisdiction, throughout the State of Tennessee.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH

RADIOACTIVE MATERIAL LICENSE

Amendment 26

Supplementary Sheet

Page 4 of 6 Pages

License Number R-95009-H01

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.

14. An exemption is granted to the requirements of 1200-2-5-.80(1) of "State Regulations for Protection Against Radiation" for the use of radioactive material at 72-B East Hill Street, Mt. Juliet, TN 37122.

This exemption may be withdrawn or modified by the Department at any time it is determined necessary in order to protect the public health and safety or if it is found that the conditions upon which this exemption has been granted have been violated.

15. 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 licensee is Robert W. O'Neal.

16. Written instructions entitled "Operating and Emergency Procedures" attached to application dated July 17, 1996, with attachments, 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.

17. An exemption is granted to the requirements of 1200-2-8-.04(10)(a),(d), and (e) of "State Regulations for Protection Against Radiation" to not require the Amersham Pipeliner Model 1 and associated equipment to meet the requirements of American National Standard N432-1980 "Radiological Safety for the Design and Construction of Apparatus for Gamma Radiography." (published as NBS Handbook 136, issued January 1981) American National Standards Institute, Inc., 1430 Broadway, New York, NY 10018 (ANSI N432).

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

RADIOACTIVE MATERIAL LICENSE

Amendment 26

Supplementary Sheet

Page 5 of 6 Pages

License Number R-95009-H01

This exemption may be withdrawn or modified by the Department at any time it is determined necessary in order to protect the public health and safety or if it is found that the conditions upon which this exemption has been granted have been violated.

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 application dated July 17, 1996, with attachments.
19. The licensee is authorized to receive, possess, and use sources of Iridium 192 and Cobalt 60 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 and 10% for Cobalt 60;
 - 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 not open sealed sources containing radioactive material.
22. 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.

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

RADIOACTIVE MATERIAL LICENSE

Amendment 26

Supplementary Sheet

Page 6 of 6 Pages

License Number R-95009-H01

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."

- 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 dated July 17, 1996, with attachments, and letter dated July 17, 1996.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH

RADIOACTIVE MATERIAL LICENSE

Amendment 27

Page 1 of 1 Pages

License Number R-95009-H01

World Testing, Inc.
72 East Hill Street
Mt. Juliet, TN 37122

Attention: Robert W. O'Neal, Radiation Safety Officer

Gentlemen:

Your Tennessee Radioactive Material License number R-95009-H01 is amended as follows:

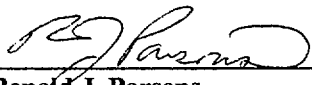
To add Condition 25. This conditions will read as follows:

25. 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.

All other parts of this license remain unchanged.

Date January 13, 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 28

Page 1 of 1 Page

License Number R-95009-H01

World Testing, Inc.
72 East Hill Street
Mt. Juliet, Tennessee 37122

Attention: Robert W. O'Neal, Radiation Safety Officer

Gentlemen:

As requested by Robert W. O'Neal and in accordance with letter dated May 11, 1999, with attachments, your Tennessee Radioactive Material License number R-95009-H01 is amended as follows:

To change Condition 24. This condition will now read as follows:

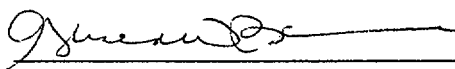
24. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 8, and 9 of this license in accordance with statements, representations, and procedures contained in application dated July 17, 1996, with attachments, and letters dated July 17, 1996 and May 11, 1999, with attachments.

This amendment authorizes the temporary storage of all radioactive material in the exposure room, however, it does not approve the future addition of a new storage vault at this time.

All other parts of this license remain unchanged.

Date: June 4, 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 29

Page 1 of 1 Page

License Number R-95009-H01

World Testing, Inc.
72 East Hill Street
Mt. Juliet, Tennessee 37122

Attention: Robert W. O'Neal, Radiation Safety Officer

Gentlemen:

As requested by Robert W. O'Neal and in accordance with letters dated May 11, 1999, with attachments, and September 8, 1999, with attachments, your Tennessee Radioactive Material License number R-95009-H01 is amended as follows:

To add Condition 26. This condition will read as follows:

26. The licensee shall submit a survey of the four outside walls, including the door, of the new storage vault for radioactive materials. This survey shall take into account occupancy factors, radiation levels in mR/hr (minus background), and hours per year (2000 hours inside the building and 8760 hours at the exterior wall of the building). The survey must take into account the fully authorized source activities and may take into account source residence time in the storage vault. This survey shall show that radiation levels outside the vault shall not exceed 100 mrem in a year.

To change Condition 24. This condition will now read as follows:

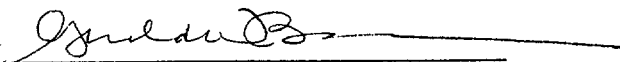
24. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 8, and 9 of this license in accordance with statements, representations, and procedures contained in application dated July 17, 1996, with attachments, and letters dated July 17, 1996, May 11, 1999, with attachments, and September 8, 1999, with attachments.

This amendment authorizes the new storage vault for radioactive material .

All other parts of this license remain unchanged.

Date: September 15, 1999

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

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