

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH



44 pages

RADIOACTIVE MATERIAL LICENSE

Amendment 93 - Corrected copy, pages 9 & 10

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	Duratek Services, Inc.	R-73006-F13 amended in its entirety
2. Address	1560 Bear Creek Road P.O. Box 2530 Oak Ridge, TN 37831-2530	4. Expiration date June 30, 2013
		5. File no. R-73006
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.
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 June 19, 2003

By: Charles Arnott
DIVISION OF RADIOLOGICAL HEALTH
Charles Arnott Health Physicist

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6. Radioactive Material (Element and Mass Number)	8. Chemical and/or <u>Physical Form</u>	9. Maximum Radioactivity and/or Quantity of Material Which Licensee May Possess <u>at Any One Time</u>
A. Mixed activation and fission products with atomic numbers 3-83 inclusive (not C-14)	A. Any form as suitable for transport under U.S. DOT Regulations	A. 400 Curies
B. Hydrogen 3	B. Same as 8.A.	B. 330 Curies
C. Carbon 14	C. Same as 8.A.	C. 110 Curies
D. Radium 226	D. Same as 8.A.	D. 11 Curies
E. Thorium 232	E. Same as 8.A.	E. 11 Curies
F. Uranium-depleted and natural	F. Same as 8.A.	F. 110 Curies
G. Uranium 233	G. Same as 8.A.	G. 200 grams*
H. Uranium enriched in the U-235 isotope	H. Same as 8.A.	H. 350 grams* of contained U-235
I. Plutonium	I. Same as 8.A.	I. 200 grams*

* For each kind of special nuclear material determine the ratio between the quantity of that special nuclear material and the quantity specified here for the same kind of special nuclear material. The sums of such ratios for all kinds of special nuclear material in combination shall not exceed "1" (i.e. unity).

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J. Americium 241	J. Same as 8.A.	J. 250 Curies
K. Transuranics (not Pu or Am-241)	K. Same as 8.A.	K. 1.1 Curies
L. Radioactive materials with atomic numbers 84-91 inclusive (not Po-210, Ra-226, or Th-232)	L. Same as 8.A.	L. 1.1 Curies
M. Polonium 210	M. Same as 8.A.	M. 11 Curies
N. Uranium (not U-233, U-235, or U-238)	N. Same as 8.A.	N. 1.1 Curies
O. Hydrogen 3	O. Sealed source (Kaman Model 1-32H-115-622-022)	O. One (1) source not to exceed 2 Curies.
P. Cesium 137	P. Sealed sources (J. L. Shepherd & Associates Type 6810 Capsule, Serial # 132, and New England Nuclear Type G-316B Capsule, Serial # KR-2751)	P. Two (2) sources. One (1) source, J. L. Shepherd, not to exceed 400 Curies and one (1) source, New England Nuclear, not to exceed 130 millicuries.
Q. Cesium 137	Q. Sealed sources (Model numbers listed in NRC Registry of Sealed Sources and Devices No. CA598D106S)	Q. One (1) source not to exceed 30 millicuries.

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R. Cesium 137	R. Sealed sources (Model numbers listed in NRC Registry of Sealed Sources and Devices No. CA598D106S)	R. One (1) source not to exceed 1.2 curies.
S. Cesium 137	S. Sealed sources (J. L. Shepherd & Associates Model 6810 Capsule)	S. One (1) source not to exceed 600 millicuries.
T. Cesium 137	T. Sealed sources (Model numbers listed in NRC Registry of Sealed Sources and Devices No. CA598D112S)	T. One (1) source not to exceed 20 millicuries.
U. Any radioactive material (except special nuclear)	U. Sealed sources (Model numbers listed in NRC Registry of Sealed Sources and Devices)	U. No single source to exceed 5 millicuries. Total not to exceed 10 millicuries.
V. Cesium 137	V. Sealed sources (J. L. Shepherd Model 6810, Type A0096-5, S.N. 81Cs-s55)	V. One (1) source not to exceed 400 curies.
W. Cesium 137	W. Sealed sources (Amersham Models in NRC Registry of Sealed Sources and Devices No. CA598D106S, X-9 capsule, S.N. S-49)	W. One (1) source not to exceed 200 millicuries.

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10. Authorized Use

- A. through N. Receipt, possession, storage, and transfer of radioactive waste when packaged in accordance with U.S. Department of Transportation requirements for interstate commerce in accordance with documents referenced in conditions of this license. Receipt, possession, storage, and transfer of radioactive material associated with transport container opening, decontamination, refurbishment, survey, process equipment activities, and waste processing activities in accordance with documents referenced in conditions of this license. In addition, the storage of contaminated equipment inside Building 3 or Building 4 is authorized provided such equipment is packaged in wooden or metal containers, or wrapped in plastic, sealed to prevent the spread of contamination, or fixed in such a way as to prevent the spread of contamination from external surfaces.
- O. For storage only.
- P. For receipt, possession, and use in a J.L. Shepherd Model 89 Calibrator for the purpose of calibration of portable radiation detection equipment.
- Q. For use in a J. L. Shepherd & Associates Model 28-5 Low Range Beam Calibrator for the purpose of calibration of portable radiation detection equipment and calibration of pocket and electronic dosimeters.
- R. For use in a J. L. Shepherd & Associates Model 28-6a Medium Range Beam Calibrator for the purpose of calibration of portable radiation detection equipment and calibration of pocket and electronic dosimeters.
- S. For use in a J. L. Shepherd & Associates Model 142S Dosimeter Calibrator/Irradiator for the purpose of calibration of pocket and electronic dosimeters.
- T. For use in a J. L. Shepherd & Associates Model 423 Dosimeter Calibrator/Irradiator for the purpose of calibration of pocket and electronic dosimeters.
- U. For use as calibration and/or standardization sources.
- V. For use in a J. L. Shepherd & Associates Model 89 calibrator for the purpose of calibration of radiation detection equipment.

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W. For use in a J. L. Shepherd & Associates Model 28-5a calibrator for the purpose of calibration of radiation detection equipment.

Conditions (continued)

12. The licensee shall comply with applicable provisions of 1200-2-4, 1200-2-5, 1200-2-10, and 1200-2-11 of "State Regulations for Protection Against Radiation."

13. Radioactive material authorized by this license shall be used and stored at Duratek Services, Inc., 628 Gallaher Road, Kingston, TN.

14. A. Radioactive material authorized by this license shall be used by, or under the supervision of, authorized users as specified below:

All facility operations - Darrell G. Hutton, Bryan L. Woody, Jeffrey W. Dickinson, Marsha Wilson, Brad Moore, Jerry Mitchell Parker, or John E. Hess

Calibration Facility - Thomas F. Scott, Anthony Riggs, Michael D. Pauli, Keith Thomas, Willard Yuna, or a Health Physics Technician

Building 3 Operations - Gene Atchison, Gregory K. McGinnis, or Eddie W. James, Jr.

B. Authorized user presence during operations is defined below:

1. An authorized user shall be present on site during any processing work in Building 3. Processing is defined as any movement, opening, transfer, dewatering, solidifying, or encapsulation of radioactive material.

2. All source work in the calibration facility shall be performed by, or under the supervision of, an authorized user or a Health Physics Technician.

3. An authorized user shall be available for telephone consultation during periods when other license activities are being conducted.

4. A Health Physics Technician shall be on site during all work in Radiologically Controlled Areas associated with this license.

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- C. The Radiation Safety Officer for this license is Philip Gianutsos.
15. A. The licensee shall develop and maintain a written radiation protection manual that ensures the implementation of the radiation protection program in accordance with "State Regulations for Protection Against Radiation" (SRPAR), ALARA, and documents referenced in conditions of this license. Changes to this manual require prior written approval from the Department.
- B. In addition, the licensee shall develop and implement written standard operating procedures to ensure all activities involving the handling and/or use of radioactive materials authorized by this license are carried out in a manner consistent with SRPAR, ALARA, the licensee's Radiation Protection Manual, and the documents referenced in conditions of this license.
- C. These procedures may be modified without prior approval of the Department when deemed appropriate and documented by the Radiation Safety Officer. However, adherence to the current procedures as written shall be considered a condition of this license. The written procedures required by this condition shall be available for inspection by the Department. A copy of the current procedures shall be forwarded to the Department upon request.
16. The licensee is authorized to perform calibrations of radiation detection equipment and pocket and electronic dosimeters, including for hire, at the Instrument Services Facility in accordance with statements, representations, and procedures contained in letter dated February 27, 2003, with attachments.
17. Processing activities and radioactive material storage are authorized to be performed in Building 3 in accordance with statements, representations, and procedures contained in letter dated February 27, 2003, with attachments.
18. Container decontamination and refurbishment, radioactive material storage, and the Bulk Waste Assay Program are authorized to be performed in Building 4 in accordance with statements, representations, and procedures contained in letter dated February 27, 2003, with attachments.

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19. A. The licensee is authorized to conduct the Bulk Waste Assay Program (BWAP) which includes Green is Clean (GIC), the Safe Check program for gamma emitters, the Safe Check program for non-gamma emitters, or Decay Check. The BWAP shall be conducted in accordance with statements, representations, and procedures contained in documents referenced in conditions of this license.
- B. The licensee is authorized to implement BWAP release limits for designated landfill disposal of Safe Check and Decay Check program licensed material in accordance with statements, representations, and procedures contained in letters dated February 27, 2003, with attachments, and June 11, 2003, with attachments, including the "Technical Basis for Safe Check and Decay Check Conditional Release Limits," Revision 2.
- C. All BWAP radioactive waste that meets the license authorized criteria for landfill disposal may be disposed of at the landfill designated by the licensee in letter dated February 27, 2003, with attachments. The maximum amount of Safe Check and Decay Check processed waste is restricted to less than 15 million pounds per year (not to exceed 1.5 million pounds in any one month time period). This authorization shall expire June 30, 2013.
- D. The licensee shall submit an annual report to the Division of all BWAP Safe Check and Decay Check disposals including the total amount of waste in pounds released to the landfill, and verification that the license allowable activity concentrations have been met for all materials released during the year. Records of GIC disposals updated monthly shall be maintained for inspection by the Department.
20. The Box Assay System shall be operated in accordance with the requirements and specifications found in the "Technical Basis for Design and Calibration of the Duratek Box Assay System," Revision 0. Additionally, the waste density shall not exceed 3.0 g/cc, the volume of waste assayed in any single container shall not exceed 100 cubic feet, and oversized containers shall have multiple counts to ensure each four-foot by six-foot cross section (or less) of the container or item is assayed by the system.

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21. The licensee is authorized to free release asphalt/concrete from areas previously used for radioactive material storage in accordance with statements, representations, and procedures contained in the Duratek Services, Inc. Radiation Safety Guide (RSG-1), attached to letter dated February 27, 2003. All asphalt/concrete free released in accordance with this condition shall be disposed of at the licensee's contracted industrial landfill and shall not be reintroduced to the general public for use as fill or recycling.

22.A. No radioactive materials (excluding calibration and standardization sources) or radioactive waste may be possessed under this license, from the time of receipt until its transfer from the facility, for a period of time greater than three hundred sixty five (365) days. An exception to this three hundred sixty five (365) day time limit is equipment, specifically licensed or otherwise authorized, and stored on-site for future use: (1) at a location authorized by a **Duratek Services, Inc.** Tennessee Radioactive Material License or (2) at a location where such equipment is authorized by the agency having jurisdiction.

B. No radioactive material or radioactive waste may be stored so as to exceed the following stacking limits:

<u>Container Type</u>	<u>Stacking Limit</u>
1. Drums	3 high
2. B-25 Boxes	3 high
3. B-12 Boxes	5 high
4. Sea-Land Cont.	2 high
5. Any other strong tight container.	10 feet nominal

C. This condition also includes "waste radioactive material" generated under the authority of this license.

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23. Radioactive material, contaminated equipment, and empty radioactive material containers may be stored in accordance with statements representations, and procedures contained in application dated February 28, 2003, and letter dated February 27, 2003, with attachments, provided that radiation levels for unrestricted areas are not exceeded. This material must be stored in either locked DOT intermodal containers as described in Title 49 Code of Federal Regulations (CFR), Part 171.8 or DOT approved strong tight containers. In addition to these requirements the following criteria and restrictions must be adhered to whenever radioactive materials are stored:

1. Containers used for outside storage of radioactive materials must be capable of withstanding environmental conditions. Wooden containers are not considered suitable for outside storage. Materials received in wooden containers may remain outside for a period not to exceed fifteen (15) days, provided the containers are covered with a waterproof tarp so as to prevent the infiltration of rainwater. After 15 days the material must be moved inside or repackaged in a container suitable for outside storage.
2. Radiation levels from stored empty containers shall not exceed an average of 0.5 mR/hr, and hot spot activity shall not exceed 2 mR/hr.
3. Outside storage of radioactive materials is only permitted in paved (asphalt or concrete) areas. Storage on grass, dirt, or gravel is specifically prohibited.
4. Soil samples must be collected and analyzed at least quarterly along the edges of outside asphalt or concrete pads where radioactive materials are stored and along the perimeter fence as shown in drawing attached to letter dated February 27, 2003 to ensure that there is no buildup of radioactive contamination. Data from these samples must be maintained for inspection by the Department.
5. Each designated outside storage area shall be equipped with concrete barriers at each corner to clearly identify the boundary. In addition, the space between these barriers shall be painted on the surface of the asphalt/concrete to further identify the storage areas.

The combined authorizations for storage granted by this license shall not exceed a total of 113,621 square feet.

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24. 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 are 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 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. Transfer of radioactive waste to a land disposal facility or a licensed waste handler shall be done in accordance with 1200-2-5-.125 of "State Regulations for Protection Against Radiation."
- F. All records and written confirmations required by this condition shall be maintained for inspection by the Department.

The requirements of 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."

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25. The licensee shall not accept either radioactive waste and/or items contaminated or potentially contaminated with licensable quantities of radioactive material or radioactive materials or items from licensable activities for repackaging, processing, refurbishing, storage pending disposal or disposal unless the shipper of such waste possesses a valid license for delivery issued pursuant to 1200-2-10-32 of "State Regulations for Protection Against Radiation."
26. Written assurances must be furnished by the facility shipping the radioactive material indicating that the facility may accept return of the material processed or unprocessed. In addition, for states outside the Southeast Compact the state or appropriate Compact must be a signatory to the Interregional Access Agreement for Waste Management or assurances shall be obtained from the appropriate state governor's office, the state radiation control program, and the appropriate Compact official, if any.
27. The licensee shall establish in every contractual obligation relating to radioactive materials the ability to return radioactive materials, processed or unprocessed, to the prior licensed or exempt possessor.
28. A. With the exception of Item 6.O., beta and/or gamma sources containing equal to or less than 100 microcuries, and alpha sources containing equal to or less than 10 microcuries, 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 licensee is authorized to perform leak testing of sealed sources and analytical services for Duratek facilities in accordance with statements, representations, and procedures contained in Tennessee Radioactive Material License Number R-73008.
 - C. The tests shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample, or in the case of radium, the escape of radon at the rate of 0.001 microcurie per 24 hours. 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.

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- D. If the test reveals the presence of 0.005 microcurie or more of removable contamination, or in the case of radium, the escape of radon at the rate of 0.001 microcurie or more per 24 hours, 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.
29. The licensee shall not open or remove sealed sources containing radioactive material from their respective source holders.
30. Maintenance and repair of instrument calibrators shall be performed in accordance with the manufacturer's instructions.
31. To prevent tampering or removal by unauthorized personnel, each calibration device containing radioactive material authorized by this license shall be secured in a locked storage container or area when not being used.
32. 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.
33. Except for plutonium contained in a medical device designed for individual human application, no plutonium, regardless of form, shall be delivered to a carrier for shipment by air transport or transported in an aircraft by the licensee, except in packages the design of which the NRC has specifically approved for transport of plutonium by air.
34. The licensee is authorized to receive, possess, and use any radioactive material distributed under a general license, issued by the U. S. Nuclear Regulatory Commission, or another Agreement State, without being specifically referenced in Items 6, 8, 9 and 10 of this license. Notwithstanding any other conditions of this license, the general licensee may possess and use radioactive material received under the provisions of 1200-2-10 of "State Regulations for Protection Against Radiation" in accordance with the requirements provided at the time of the transfer of the radioactive material under the terms of the general license.

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35. The following evaluations shall be performed for all process ventilation systems:
- 1) Air balance within the RCA at least semi-annually, and following any ventilation system or process changes which could potentially alter the effectiveness of the system,
 - 2) Particulate removal efficiency of the main filtration system HEPA filters by DOP or comparable testing in accordance with pertinent ANSI standards immediately following installation of new HEPA filters or at least semi-annually.
36. In addition to other requirements of this license or of Chapter 1200-2-5-.60 of "State Regulations for Protection Against Radiation," the licensee shall conduct operations so that radiation levels in unrestricted areas would not cause an individual, assuming an occupancy of one (1), to receive a total effective dose equivalent in excess of 500 millirems in one calendar year. These radiation levels shall be appropriately monitored by the licensee, and records of such monitoring shall be maintained for inspection by the Department. For calculational purposes of this condition, the licensee shall base its anticipated exposure to a member of the public upon the sum of the maximally exposed TLD and the highest air concentration derived using the latest available pertinent data.
37. 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.
38. 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 February 28, 2003, with attachment, and letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, and June 11, 2003, with attachments.

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GALLAHER RD.

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Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530

COPY

Attention: Philip L. Gianutsos, Radiation Safety Officer

Gentlemen:

As requested by Philip L. Gianutsos and in accordance with his letter dated September 4, 2003, your Tennessee Radioactive Material License Number R-73006-F13 is amended as follows:

To change Item 8.U. and Condition 38. This item and this condition will now read as follows:

- 8.U. Sealed sources (Model numbers listed in NRC Registry of Sealed Sources and Devices), surface-deposited disc and plane sources, and volumetric reference sources (as described in letter dated September 4, 2003)
38. 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 February 28, 2003, with attachment, and letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, and September 4, 2003.

All other parts of this license remain unchanged.

Date: September 9, 2003

For the Commissioner
Tennessee Department of
Environment and Conservation

By Charles Arnott
Charles Arnott
Health Physicist
Division of Radiological Health

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Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530

Attention: Philip L. Gianutsos, Radiation Safety Officer

Gentlemen:

As requested by Philip L. Gianutsos and in accordance with his letter dated February 6, 2004, and in accordance with our action to modify the license, your Tennessee Radioactive Material License Number R-73006-F13 is amended as follows:

To change Conditions 17, 21, 28, and 38. These conditions will now read as follows:

17. Processing activities and radioactive material storage are authorized to be performed in Building 3 in accordance with statements, representations, and procedures contained in documents referenced in Condition 38 of this license.
21. The licensee is authorized to free release asphalt/concrete from areas previously used for radioactive material storage in accordance with statements, representations, and procedures contained in the Duratek Services, Inc. Radiation Safety Guide (RSG-1), Revision 5. All asphalt/concrete free released in accordance with this condition shall be disposed of at the licensee's contracted industrial landfill and shall not be reintroduced to the general public for use as fill or recycling.
28. A. With the exception of Item 6.O., beta and/or gamma sealed sources containing more than 100 microcuries, and alpha sealed sources containing more than 10 microcuries, 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 licensee is authorized to perform leak testing of sealed sources and analytical services for Duratek facilities in accordance with statements, representations, and procedures contained in Tennessee Radioactive Material License Number R-73008.
- C. The tests shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample, or in the case of radium, the escape of radon at the rate of 0.001 microcurie per 24 hours. 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.

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- D. If the test reveals the presence of 0.005 microcurie or more of removable contamination, or in the case of radium, the escape of radon at the rate of 0.001 microcurie or more per 24 hours, 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.
38. 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 February 28, 2003, with attachment, and letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, September 4, 2003, and February 6, 2004.

All other parts of this license remain unchanged.

Date: March 11, 2004

For the Commissioner
Tennessee Department of
Environment and Conservation

By Charles Arnott
Charles Arnott
Health Physicist
Division of Radiological Health

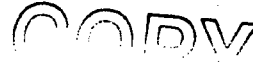
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Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530



Attention: Philip L. Gianutsos, Radiation Safety Officer

Gentlemen:

Your Tennessee Radioactive Material License Number R-73006-F13 is amended as follows:

To change Items 10.A. through N. and Condition 19. These items and this condition will now read as follows:

- A. through N. Receipt, possession, storage, and transfer of radioactive waste when packaged in accordance with U.S. Department of Transportation requirements for interstate commerce in accordance with documents referenced in conditions of this license. Receipt, possession, storage, and transfer of radioactive material associated with transport container opening, decontamination, refurbishment, survey, process equipment activities, and waste processing activities in accordance with documents referenced in conditions of this license. In addition, the storage of contaminated equipment inside Building 3 or Building 4 is authorized provided such equipment is packaged in wooden or metal containers, or wrapped in plastic, sealed to prevent the spread of contamination, or fixed in such a way as to prevent the spread of contamination from external surfaces. These authorizations shall only be conducted at the licensee's facilities specified in Condition 13 of this license in accordance with statements, representations, and procedures contained in documents referenced in Conditions of this license.
19. A. The licensee is authorized to conduct the Bulk Waste Assay Program (BWAP) which includes Green is Clean (GIC), the Safe Check program for gamma emitters, the Safe Check program for non-gamma emitters, or Decay Check. The BWAP shall be conducted in accordance with statements, representations, and procedures contained in documents referenced in conditions of this license. Monitoring of materials for contamination for release as authorized by this condition is only to be conducted at the licensee's facilities specified in Condition 13 of this license, and not at customer or other job sites.
- B. The licensee is authorized to implement BWAP release limits for designated landfill disposal of Safe Check and Decay Check program licensed material in accordance with statements, representations, and procedures contained in letters dated February 27, 2003, with attachments, and June 11, 2003, with attachments, including the "Technical Basis for Safe Check and Decay Check Conditional Release Limits," Revision 2.
- C. All BWAP radioactive waste that meets the license authorized criteria for landfill disposal may be disposed of at the landfill designated by the licensee in letter dated February 27, 2003, with attachments. The maximum amount of Safe Check and Decay Check processed

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waste is restricted to less than 15 million pounds per year (not to exceed 1.5 million pounds in any one month time period). This authorization shall expire June 30, 2013.

- D. The licensee shall submit an annual report to the Division of all BWAP Safe Check and Decay Check disposals including the total amount of waste in pounds released to the landfill, and verification that the license allowable activity concentrations have been met for all materials released during the year. Records of GIC disposals updated monthly shall be maintained for inspection by the Department.

All other parts of this license remain unchanged.

Date: March 24, 2004

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

By Charles Arnott
**Charles Arnott
Health Physicist
Division of Radiological Health**

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH

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License Number R-73006-F13

Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530

Attention: Philip L. Gianutsos, Radiation Safety Officer

Gentlemen:

As requested by you and in accordance with your letter dated May 11, 2004, with attachments, Tennessee Radioactive Material License Number R-73006-F13 is amended as follows:

To change Conditions 20 and 38. These conditions will now read as follows:

20. The Box Assay System shall be operated in accordance with the requirements and specifications found in the "Technical Basis for Design and Calibration of the Duratek Box Assay System," Revision 1. Additionally, the waste density shall not exceed 3.0 g/cc, the volume of waste assayed in any single container shall not exceed 100 cubic feet, and oversized containers shall have multiple counts to ensure each four-foot by six-foot cross section (or less) of the container or item is assayed by the system.
38. 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 February 28, 2003, with attachment, and letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, September 4, 2003, February 6, 2004, and May 11, 2004, with attachments.

All other parts of this license remain unchanged.

Date: May 13, 2004

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

By Charles Arnott

**Charles Arnott
Health Physicist
Division of Radiological Health**

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

RADIOACTIVE MATERIAL LICENSE

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License Number R-73006-F13

Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530

Attention: Philip Gianutsos, Radiation Safety Officer

Gentlemen:

As requested by Philip Gianutsos and in accordance with his letters dated June 28, 2004, with attachments, and June 29, 2004, Tennessee Radioactive Material License Number R-73006-F13 is amended as follows:

To change Conditions 19, 21, and 38. These conditions will now read as follows:

19. A. The licensee is authorized to conduct the Bulk Waste Assay Program (BWAP) which includes Green is Clean (GIC), the Safe Check program for gamma emitters, the Safe Check program for non-gamma emitters, or Decay Check. The BWAP shall be conducted in accordance with statements, representations, and procedures contained in documents referenced in conditions of this license. Monitoring of materials for contamination for release as authorized by this condition is only to be conducted at the licensee's facilities specified in Condition 13 of this license, and not at customer or other job sites.
 - B. The licensee is authorized to implement BWAP release limits for designated landfill disposal of Safe Check and Decay Check program licensed material in accordance with statements, representations, and procedures contained in letters dated February 27, 2003, with attachments, June 11, 2003, with attachments, including the "Technical Basis for Safe Check and Decay Check Conditional Release Limits," Revision 2, and June 28, 2004, with attachments.
 - C. All BWAP radioactive waste that meets the license authorized criteria for landfill disposal may be disposed of at the landfill designated by the licensee in letter dated February 27, 2003, with attachments. The maximum amount of Safe Check and Decay Check processed waste is restricted to less than 15 million pounds per year (not to exceed 1.5 million pounds in any one month time period). This authorization shall expire June 30, 2013.
 - D. The licensee shall submit an annual report to the Division of all BWAP Safe Check and Decay Check disposals including the total amount of waste in pounds released to the landfill, and verification that the license allowable activity concentrations have been met for all materials released during the year. Records of GIC disposals updated monthly shall be maintained for inspection by the Department.
21. The licensee is authorized to release asphalt/concrete from areas previously used for radioactive material storage in accordance with statements, representations, and procedures contained in the Duratek Services, Inc. Radiation Safety Guide (RSG-1). Asphalt/concrete

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released in accordance with this condition shall not be reintroduced to the general public for use as fill or recycling.

38. 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 February 28, 2003, with attachment, and letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, September 4, 2003, February 6, 2004, May 11, 2004, with attachments, June 28, 2004, with attachments, and June 29, 2004.

All other parts of this license remain unchanged.

Date: July 6, 2004

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

By Charles Arnott
**Charles Arnott
Health Physicist
Division of Radiological Health**

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH

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License Number **R-73006-F13**

Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530

Attention: Philip L. Gianutsos, Radiation Safety Officer

Gentlemen:

As requested by you and in accordance with your letter dated June 15, 2004, with attachments, Tennessee Radioactive Material License Number R-73006-F13 is amended as follows:

To change Conditions 20 and 38. These conditions will now read as follows:

20. A. The Box Assay System shall be operated in accordance with the requirements and specifications found in the "Technical Basis for Design and Calibration of the Duratek Box Assay System," Revision 1. Additionally, the waste density shall not exceed 3.0 g/cc, the volume of waste assayed in any single container shall not exceed 100 cubic feet, and oversized containers shall have multiple counts to ensure each four-foot by six-foot cross section (or less) of the container or item is assayed by the system.
- B. The Gardian assay system and the portable characterization system (ISOCS) shall be operated in accordance with the requirements and specifications found in the "Technical Basis for Design, Calibration, and Operation of the Gardian Mobile Assay System," Revision 0, and statements, representations, and procedures contained in letter dated June 15, 2004, with attachments.
38. 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 February 28, 2003, with attachment, and letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, September 4, 2003, February 6, 2004, May 11, 2004, with attachments, June 15, 2004, with attachments, June 28, 2004, with attachments, and June 29, 2004.

All other parts of this license remain unchanged.

Date: July 21, 2004

For the Commissioner
Tennessee Department of
Environment and Conservation

By Charles Arnott
Charles Arnott
Health Physicist
Division of Radiological Health

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH
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License Number R-73006-F13

Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530

received
10-18-04

Attention: Philip L. Gianutsos, Radiation Safety Officer

Gentlemen:

As requested by you and in accordance with your letter dated October 8, 2004, with attachments, Tennessee Radioactive Material License Number R-73006-F13 is amended as follows:

To change Conditions 14 and 38. These conditions will now read as follows:

14. A. Radioactive material authorized by this license shall be used by, or under the supervision of, authorized users as specified below:

All facility operations - Darrell G. Hutton, Bryan L. Woody, Jeffrey W. Dickinson, Jerry Mitchell Parker, Timothy J. Cook, Donna R. Webb, or R. Dale Roberts

Calibration Facility - Thomas F. Scott, Anthony Riggs, Michael D. Pauli, Keith Thomas, Willard Yuna, John C. Barncord, or a Health Physics Technician

Building 3 Operations - Gene Atchison, Eddie W. James, Jr., Randy S. Owensby, or Garvin Clay Morris

B. Authorized user presence during operations is defined below:

1. An authorized user shall be present on site during any processing work in Building 3. Processing is defined as any movement, opening, transfer, dewatering, solidifying, or encapsulation of radioactive material.
2. All source work in the calibration facility shall be performed by, or under the supervision of, an authorized user or a Health Physics Technician.
3. An authorized user shall be available for telephone consultation during periods when other license activities are being conducted.
4. A Health Physics Technician shall be on site during all work in Radiologically Controlled Areas associated with this license.

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License Number R-73006-F13

C. The Radiation Safety Officer for this license is Philip Gianutsos.

38. 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 February 28, 2003, with attachment, and letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, September 4, 2003, February 6, 2004, May 11, 2004, with attachments, June 15, 2004, with attachments, June 28, 2004, with attachments, June 29, 2004, and October 8, 2004, with attachments.

All other parts of this license remain unchanged.

Date: October 13, 2004

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

By



**Charles Arnott
Health Physicist
Division of Radiological Health**

17-741

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
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License Number R-73006-F13

Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530

GALLAHER RD.

Attention: Philip L. Gianutsos, Radiation Safety Officer

Gentlemen:

As requested by you and in accordance with your letter dated March 16, 2005, and in accordance with our action to modify Condition 15, Tennessee Radioactive Material License Number R-73006-F13 is amended as follows:

To change Conditions 15, 19, and 38. These conditions will now read as follows:

15. A. The licensee shall develop and maintain a written radiation protection manual that ensures the implementation of the radiation protection program in accordance with "State Regulations for Protection Against Radiation" (SRPAR), ALARA, and documents referenced in conditions of this license. Changes to this manual require prior written approval from the Department. Department approval of the current revision of this manual [Duratek, Inc. Radiation Safety Guide (RSG-1)] also conveys its approval under Duratek Tennessee Radioactive Material Licenses R-73008 and R-73016.
 - B. In addition, the licensee shall develop and implement written standard operating procedures to ensure all activities involving the handling and/or use of radioactive materials authorized by this license are carried out in a manner consistent with SRPAR, ALARA, the licensee's Radiation Protection Manual, and the documents referenced in conditions of this license.
 - C. These procedures may be modified without prior approval of the Department when deemed appropriate and documented by the Radiation Safety Officer. However, adherence to the current procedures as written shall be considered a condition of this license. The written procedures required by this condition shall be available for inspection by the Department. A copy of the current procedures shall be forwarded to the Department upon request.
19. A. The licensee is authorized to conduct the Bulk Waste Assay Program (BWAP) which includes Green is Clean (GIC), the Safe Check program for gamma emitters, the Safe Check program for non-gamma emitters, or Decay Check. The BWAP shall be conducted in accordance with statements, representations, and procedures contained in documents referenced in conditions of this license. Monitoring of materials for contamination for release as authorized by this condition is only to be conducted at the licensee's facilities specified in Condition 13 of this license, and not at customer or other job sites.
 - B. The licensee is authorized to implement BWAP release limits for designated landfill disposal of Safe Check and Decay Check program licensed material in accordance with

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statements, representations, and procedures contained in letters dated February 27, 2003, with attachments, June 11, 2003, with attachments, including the "Technical Basis for Safe Check and Decay Check Conditional Release Limits," Revision 2, and June 28, 2004, with attachments.

- C. All BWAP radioactive waste that meets the license authorized criteria for landfill disposal may be disposed of at the landfill designated by the licensee in letter dated February 27, 2003, with attachments. The maximum amount of Safe Check and Decay Check processed waste is restricted to less than 15 million pounds per year (not to exceed 1.5 million pounds in any one month time period). These limits apply to the amount of conditionally released waste equivalent to the maximum nuclide limits (i.e. sum of the fraction requirement) in accordance with letter dated March 16, 2005. This authorization shall expire June 30, 2013.
- D. The licensee shall submit an annual report to the Division of all BWAP Safe Check and Decay Check disposals including the total amount of waste in pounds released to the landfill, and verification that the license allowable activity concentrations have been met for all materials released during the year. Records of GIC disposals updated monthly shall be maintained for inspection by the Department.
38. 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 February 28, 2003, with attachment, and letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, September 4, 2003, February 6, 2004, May 11, 2004, with attachments, June 15, 2004, with attachments, June 28, 2004, with attachments, June 29, 2004, October 8, 2004, with attachments, and March 16, 2005.

All other parts of this license remain unchanged.

Date: March 22, 2005

For the Commissioner
Tennessee Department of
Environment and Conservation

By Charles Arnott
Charles Arnott
Health Physicist
Division of Radiological Health

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

RADIOACTIVE MATERIAL LICENSE

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License Number R-73006-F13

Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530

Attention: Philip L. Gianutsos, Radiation Safety Officer

As requested by you and in accordance with your letter dated April 25, 2005, with attachments, Tennessee Radioactive Material License Number R-73006-F13 is amended as follows:

To change Conditions 14 and 38. These conditions will now read as follows:

14. A. Radioactive material authorized by this license shall be used by, or under the supervision of, authorized users as specified below:

All facility operations - Darrell G. Hutton, Jeffrey W. Dickinson, Jerry Mitchell Parker, Donna R. Webb, Marsha Wilson, Brad Moore, or Garvin Clay Morris

Calibration Facility - Thomas F. Scott, Anthony Riggs, Michael D. Pauli, Keith Thomas, Willard Yuna, John C. Barncord, or a Health Physics Technician

Building 3 Operations - Gene Atchison, Eddie W. James, Jr., or Randy S. Owensby

Site Logistics (storage, tracking, inventory) - Brian A. Cooley, Brian E. Mayes, Bruce William Stephenson, or Thomas Fred Schulz

B. Authorized user presence during operations is defined below:

1. An authorized user shall be present on site during any processing work in Building 3. Processing is defined as any movement, opening, transfer, dewatering, solidifying, or encapsulation of radioactive material.
2. All source work in the calibration facility shall be performed by, or under the supervision of, an authorized user or a Health Physics Technician.
3. An authorized user shall be available for telephone consultation during periods when other license activities are being conducted.
4. A Health Physics Technician shall be on site during all work in Radiologically Controlled Areas associated with this license.

C. The Radiation Safety Officer for this license is Philip Gianutsos.

38. 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 the following:

- Application dated February 28, 2003, with attachment

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DIVISION OF RADIOLOGICAL HEALTH**

RADIOACTIVE MATERIAL LICENSE

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- Letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, September 4, 2003, February 6, 2004, May 11, 2004, with attachments, June 15, 2004, with attachments, June 28, 2004, with attachments, June 29, 2004, October 8, 2004, with attachments, March 16, 2005, and April 25, 2005, with attachments.

All other parts of this license remain unchanged.

Date: May 4, 2005

**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 103

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License Number R-73006-F13

Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530

GALLAHER RD.

Attention: Philip L. Gianutsos, Radiation Safety Officer

As requested by you and in accordance with your letters dated June 2, 2005, with attachments, and June 6, 2005, with attachments, Tennessee Radioactive Material License Number R-73006-F13 is amended as follows:

To delete Items O. and S. These items are hereby deleted.

To change Conditions 16, 28, and 38. These conditions will now read as follows:

16. The licensee is authorized to perform calibrations of radiation detection equipment and pocket and electronic dosimeters, including for hire, at the Instrument Services Facility in accordance with statements, representations, and procedures contained in letter dated June 2, 2005, with attachments.
28. A. Beta and/or gamma sealed sources containing more than 100 microcuries, and alpha sealed sources containing more than 10 microcuries, 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 licensee is authorized to perform leak testing of sealed sources and analytical services for Duratek facilities in accordance with statements, representations, and procedures contained in Tennessee Radioactive Material License Number R-73008.
- C. The tests shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample, or in the case of radium, the escape of radon at the rate of 0.001 microcurie per 24 hours. 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.

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RADIOACTIVE MATERIAL LICENSE

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- D. If the test reveals the presence of 0.005 microcurie or more of removable contamination, or in the case of radium, the escape of radon at the rate of 0.001 microcurie or more per 24 hours, 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.
38. 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 the following:
- Application dated February 28, 2003, with attachment
 - Letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, September 4, 2003, February 6, 2004, May 11, 2004, with attachments, June 15, 2004, with attachments, June 28, 2004, with attachments, June 29, 2004, October 8, 2004, with attachments, March 16, 2005, April 25, 2005, with attachments, June 2, 2005, with attachments, and June 6, 2005 with attachments

All other parts of this license remain unchanged.

Date: June 10, 2005

For the Commissioner
Tennessee Department of
Environment and Conservation

By Charles Arnott
Charles Arnott
Health Physicist
Division of Radiological Health

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH

RADIOACTIVE MATERIAL LICENSE

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License Number R-73006-F13

Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530

COPY

Attention: Philip L. Gianutsos, Radiation Safety Officer

Your Tennessee Radioactive Material License Number R-73006-F13 is amended as follows:

To change Condition 38. This condition will now read as follows:

38. A. 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 the following:
- Application dated February 28, 2003, with attachment
 - Letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, September 4, 2003, February 6, 2004, May 11, 2004, with attachments, June 15, 2004, with attachments, June 28, 2004, with attachments, June 29, 2004, October 8, 2004, with attachments, March 16, 2005, April 25, 2005, with attachments, June 2, 2005, with attachments, and June 6, 2005 with attachments
- B. The licensee shall comply with the requirements described in the Division of Radiological Health letter dated October 24, 2005, and attached document entitled "INCREASED CONTROLS FOR LICENSEES THAT POSSESS SOURCES CONTAINING RADIOACTIVE MATERIAL QUANTITIES OF CONCERN." The licensee shall complete implementation of said requirements within 6 months from the issuance of the license amendment or the first day that radionuclides in quantities of concern are possessed at or above the limits specified in Table 1 of the attachment, whichever is later. Within 25 days after the implementation of the requirements of this condition, the licensee shall notify the Division of Radiological Health in writing that it has completed the requirements of this condition.

All other parts of this license remain unchanged.

Date: October 24, 2005

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

By Charles Arnott
**Charles Arnott
Health Physicist
Division of Radiological Health**

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

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License Number R-73006-F13

Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530

Attention: Philip L. Gianutsos, Radiation Safety Officer

As requested by you and in accordance with your letter dated November 15, 2005, your Tennessee Radioactive Material License Number R-73006-F13 is amended as follows:

To add Condition 39. This condition will read as follows:

39. The licensee is authorized to institute the contractual mechanisms described in letter dated November 15, 2005, for international customers to demonstrate compliance with the ability to return radioactive materials, processed or unprocessed, to the prior licensed or exempt possessor.

To change Condition 38. This condition will now read as follows:

38. A. 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 the following:
- Application dated February 28, 2003, with attachment
 - Letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, September 4, 2003, February 6, 2004, May 11, 2004, with attachments, June 15, 2004, with attachments, June 28, 2004, with attachments, June 29, 2004, October 8, 2004, with attachments, March 16, 2005, April 25, 2005, with attachments, June 2, 2005, with attachments, June 6, 2005 with attachments, and November 15, 2005
- B. The licensee shall comply with the requirements described in the Division of Radiological Health letter dated October 24, 2005, and attached document entitled "INCREASED CONTROLS FOR LICENSEES THAT POSSESS SOURCES CONTAINING RADIOACTIVE MATERIAL QUANTITIES OF CONCERN." The licensee shall complete implementation of said requirements within 6 months from the issuance of the license amendment or the first day that radionuclides in quantities of concern are possessed at or above the limits specified in Table 1 of the attachment, whichever is later. Within 25 days after the implementation of the requirements of this condition, the licensee shall notify the Division of Radiological Health in writing that it has completed the requirements of this condition.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
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RADIOACTIVE MATERIAL LICENSE

Amendment 105

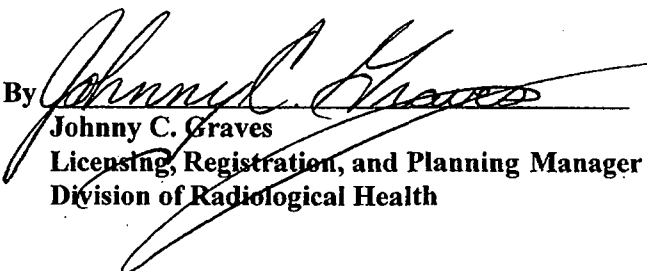
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License Number R-73006-F13

All other parts of this license remain unchanged.

Date: November 28, 2005

For the Commissioner
Tennessee Department of
Environment and Conservation

By 
Johnny C. Graves
Licensing, Registration, and Planning Manager
Division of Radiological Health

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

RADIOACTIVE MATERIAL LICENSE

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License Number R-73006-F13

Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530

GALLAHER RD.

Attention: Philip L. Gianutsos, Radiation Safety Officer

As requested by R. Steve Creamer and Robert Prince and in accordance with their letter dated March 10, 2006, with attachments, and as requested by Michael F. Johnson and in accordance with his letter dated May 22, 2006, and in accordance with letter dated June 8, 2006, from Michael F. Johnson, your Tennessee Radioactive Material License number R-73006-F13 is amended as follows:

To change Condition 38. This condition will now read as follows:

38. A. 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 the following:
- Application dated February 28, 2003, with attachment
 - Letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, September 4, 2003, February 6, 2004, May 11, 2004, with attachments, June 15, 2004, with attachments, June 28, 2004, with attachments, June 29, 2004, October 8, 2004, with attachments, March 16, 2005, April 25, 2005, with attachments, June 2, 2005, with attachments, June 6, 2005 with attachments, November 15, 2005, March 10, 2006, with attachments, May 22, 2006, and June 8, 2006.
- B. The licensee shall comply with the requirements described in the Division of Radiological Health letter dated October 24, 2005, and attached document entitled "INCREASED CONTROLS FOR LICENSEES THAT POSSESS SOURCES CONTAINING RADIOACTIVE MATERIAL QUANTITIES OF CONCERN." The licensee shall complete implementation of said requirements within 6 months from the issuance of the license amendment or the first day that radionuclides in quantities of concern are possessed at or above the limits specified in Table 1 of the attachment, whichever is later. Within 25 days after the implementation of the requirements of this condition, the licensee shall notify the Division of Radiological Health in writing that it has completed the requirements of this condition.

This amendment recognizes the transfer of control of this license from Duratek, Inc. to EnergySolutions, LLC. This amendment is considered effective June 7, 2006.

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

RADIOACTIVE MATERIAL LICENSE

Amendment 106

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License Number R-73006-F13

All other parts of this license remain unchanged.

Date: June 14, 2006

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

By Charles Arnott

**Charles Arnott
Health Physicist
Division of Radiological Health**

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH
RADIOACTIVE MATERIAL LICENSE**

Amendment 107

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License Number R-73006-F13

Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530

GALLAHER RD.

Attention: Philip L. Gianutsos, Radiation Safety Officer

As requested by Philip Gianutsos and in accordance with his letter dated July 17, 2006, with attachments, your Tennessee Radioactive Material License number R-73006-F13 is amended as follows:

To change Conditions 14 and 38. These conditions will now read as follows:

14. A. Radioactive material authorized by this license shall be used by, or under the supervision of, authorized users as specified below:

All facility operations - Darrell G. Hutton, Jeffrey W. Dickinson, Jerry Mitchell Parker, Donna R. Webb, Marsha Wilson, Brad Moore, or Garvin Clay Morris

Calibration Facility - Anthony Riggs, Michael D. Pauli, Keith Thomas, Willard Yuna, John C. Barncord, Kurt Myers, or a Health Physics Technician

Building 3 Operations - Gene Atchison, Eddie W. James, Jr., Randy S. Owensby, or Carl Douglas West

Site Logistics (storage, tracking, inventory) - Brian A. Cooley, Brian E. Mayes, Bruce William Stephenson, or Thomas Fred Schulz

B. Authorized user presence during operations is defined below:

1. An authorized user shall be present on site during any processing work in Building 3. Processing is defined as any movement, opening, transfer, dewatering, solidifying, or encapsulation of radioactive material.
2. All source work in the calibration facility shall be performed by, or under the supervision of, an authorized user or a Health Physics Technician.
3. An authorized user shall be available for telephone consultation during periods when other license activities are being conducted.
4. A Health Physics Technician shall be on site during all work in Radiologically Controlled Areas associated with this license.

C. The Radiation Safety Officer for this license is Philip Gianutsos.

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

RADIOACTIVE MATERIAL LICENSE

Amendment 107

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License Number R-73006-F13

38. A. 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 the following:
- Application dated February 28, 2003, with attachment
 - Letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, September 4, 2003, February 6, 2004, May 11, 2004, with attachments, June 15, 2004, with attachments, June 28, 2004, with attachments, June 29, 2004, October 8, 2004, with attachments, March 16, 2005, April 25, 2005, with attachments, June 2, 2005, with attachments, June 6, 2005 with attachments, November 15, 2005, March 10, 2006, with attachments, May 22, 2006, June 8, 2006, and July 17, 2006, with attachments.
- B. The licensee shall comply with the requirements described in the Division of Radiological Health letter dated October 24, 2005, and attached document entitled "INCREASED CONTROLS FOR LICENSEES THAT POSSESS SOURCES CONTAINING RADIOACTIVE MATERIAL QUANTITIES OF CONCERN." The licensee shall complete implementation of said requirements within 6 months from the issuance of the license amendment or the first day that radionuclides in quantities of concern are possessed at or above the limits specified in Table 1 of the attachment, whichever is later. Within 25 days after the implementation of the requirements of this condition, the licensee shall notify the Division of Radiological Health in writing that it has completed the requirements of this condition.

All other parts of this license remain unchanged.

Date: July 24, 2006

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

By Charles Arnott
**Charles Arnott
Health Physicist
Division of Radiological Health**

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

RADIOACTIVE MATERIAL LICENSE

Amendment 108

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License Number R-73006-F13

Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530

GALLAHER RD.

Attention: Philip L. Gianutsos, Radiation Safety Officer

As requested by Philip Gianutsos and in accordance with his letter dated September 7, 2006, with attachments, your Tennessee Radioactive Material License number R-73006-F13 is amended as follows:

To change Conditions 14 and 38. These conditions will now read as follows:

14. A. Radioactive material authorized by this license shall be used by, or under the supervision of, authorized users as specified below:

All facility operations - Darrell G. Hutton, Jeffrey W. Dickinson, Donna R. Webb, Marsha Wilson, Brad Moore, Garvin Clay Morris, or Gerard V. Policastro

Calibration Facility - Anthony Riggs, Michael D. Pauli, Keith Thomas, John C. Barncord, Kurt Myers, Michael Crouch, or a Health Physics Technician

Building 3 Operations - Gene Atchison, Eddie W. James, Jr., Randy S. Owensby, or Carl Douglas West

Site Logistics (storage, tracking, inventory) - Brian E. Mayes, Bruce William Stephenson, Thomas Fred Schulz, Brad Melton, or Nick Arden

B. Authorized user presence during operations is defined below:

1. An authorized user shall be present on site during any processing work in Building 3. Processing is defined as any movement, opening, transfer, dewatering, solidifying, or encapsulation of radioactive material.
2. All source work in the calibration facility shall be performed by, or under the supervision of, an authorized user or a Health Physics Technician.
3. An authorized user shall be available for telephone consultation during periods when other license activities are being conducted.
4. A Health Physics Technician shall be on site during all work in Radiologically Controlled Areas associated with this license.

C. The Radiation Safety Officer for this license is Philip Gianutsos.

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH****RADIOACTIVE MATERIAL LICENSE****Amendment 108**Page 2 of 2 PagesLicense Number R-73006-F13

38. A. 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 the following:
- Application dated February 28, 2003, with attachment
 - Letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, September 4, 2003, February 6, 2004, May 11, 2004, with attachments, June 15, 2004, with attachments, June 28, 2004, with attachments, June 29, 2004, October 8, 2004, with attachments, March 16, 2005, April 25, 2005, with attachments, June 2, 2005, with attachments, June 6, 2005 with attachments, November 15, 2005, March 10, 2006, with attachments, May 22, 2006, June 8, 2006, July 17, 2006, with attachments, and September 7, 2006, with attachments.
- B. The licensee shall comply with the requirements described in the Division of Radiological Health letter dated October 24, 2005, and attached document entitled "INCREASED CONTROLS FOR LICENSEES THAT POSSESS SOURCES CONTAINING RADIOACTIVE MATERIAL QUANTITIES OF CONCERN." The licensee shall complete implementation of said requirements within 6 months from the issuance of the license amendment or the first day that radionuclides in quantities of concern are possessed at or above the limits specified in Table 1 of the attachment, whichever is later. Within 25 days after the implementation of the requirements of this condition, the licensee shall notify the Division of Radiological Health in writing that it has completed the requirements of this condition.

All other parts of this license remain unchanged.

Date: September 15, 2006

For the Commissioner
Tennessee Department of
Environment and Conservation

By Charles Arnott
Charles Arnott
Health Physicist
Division of Radiological Health

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
 DIVISION OF RADIOLOGICAL HEALTH
RADIOACTIVE MATERIAL LICENSE

Amendment 109

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License Number R-73006-F13

Duratek Services, Inc.
 1560 Bear Creek Road
 P.O. Box 2530
 Oak Ridge, TN 37831-2530

Attention: Philip L. Gianutsos, Radiation Safety Officer

GALLAHER RD.

As requested by Philip Gianutsos and in accordance with his letter dated November 10, 2006, your Tennessee Radioactive Material License number R-73006-F13 is amended as follows:

To add Condition 40. This condition will read as follows:

40. The licensee is authorized to implement a recycling/reuse process that uses waste ion exchange resins received from customers in accordance with statements, representations, and procedures contained in letter dated November 10, 2006.

To change Condition 38. This condition will now read as follows:

38. A. 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 the following:
- Application dated February 28, 2003, with attachment
 - Letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, September 4, 2003, February 6, 2004, May 11, 2004, with attachments, June 15, 2004, with attachments, June 28, 2004, with attachments, June 29, 2004, October 8, 2004, with attachments, March 16, 2005, April 25, 2005, with attachments, June 2, 2005, with attachments, June 6, 2005 with attachments, November 15, 2005, March 10, 2006, with attachments, May 22, 2006, June 8, 2006, July 17, 2006, with attachments, September 7, 2006, with attachments, and November 10, 2006.
- B. The licensee shall comply with the requirements described in the Division of Radiological Health letter dated October 24, 2005, and attached document entitled "INCREASED CONTROLS FOR LICENSEES THAT POSSESS SOURCES CONTAINING RADIOACTIVE MATERIAL QUANTITIES OF CONCERN." The licensee shall complete implementation of said requirements within 6 months from the issuance of the license amendment or the first day that radionuclides in quantities of concern are possessed at or above the limits specified in Table 1 of the attachment, whichever is later. Within 25 days after the implementation of the requirements of this condition, the licensee shall notify the Division of Radiological Health in writing that it has completed the requirements of this condition.

FROM:	CHUB
TO:	JEG 11/20
	JAY
	11/21/06

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

RADIOACTIVE MATERIAL LICENSE

Amendment 109

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License Number R-73006-F13

All other parts of this license remain unchanged.

Date: November 20, 2006

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

By



**Charles Arnott
Health Physicist
Division of Radiological Health**

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH

RADIOACTIVE MATERIAL LICENSE

Amendment 110

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License Number R-73006-F13

Duratek Services, Inc.
1560 Bear Creek Road
P.O. Box 2530
Oak Ridge, TN 37831-2530

Attention: Philip L. Gianutsos, Radiation Safety Officer

As requested by Philip Gianutsos and in accordance with his letter dated January 4, 2007, Tennessee Radioactive Material License number R-73006-F13 is amended as follows:

To add Condition 41. This condition will read as follows:

41. In accordance with letter dated January 4, 2007, the licensee is authorized to receive waste from the listed customers for sixty (60) days during the restructuring of contracts to clarify the provisions for return of waste in accordance with the requirements of this license.

To change Condition 38. This condition will now read as follows:

38. A. 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 the following:
 - Application dated February 28, 2003, with attachment
 - Letters dated February 27, 2003, with attachments, February 28, 2003, with attachments, April 9, 2003, with attachments, June 11, 2003, with attachments, September 4, 2003, February 6, 2004, May 11, 2004, with attachments, June 15, 2004, with attachments, June 28, 2004, with attachments, June 29, 2004, October 8, 2004, with attachments, March 16, 2005, April 25, 2005, with attachments, June 2, 2005, with attachments, June 6, 2005 with attachments, November 15, 2005, March 10, 2006, with attachments, May 22, 2006, June 8, 2006, July 17, 2006, with attachments, September 7, 2006, with attachments, November 10, 2006, and January 4, 2007
- B. The licensee shall comply with the requirements described in the Division of Radiological Health letter dated October 24, 2005, and attached document entitled "INCREASED CONTROLS FOR LICENSEES THAT POSSESS SOURCES CONTAINING RADIOACTIVE MATERIAL QUANTITIES OF CONCERN." The licensee shall complete implementation of said requirements within 6 months from the issuance of the license amendment or the first day that radionuclides in quantities of concern are possessed at or above the limits specified in Table 1 of the attachment, whichever is later. Within 25 days after the implementation of the requirements of this condition, the licensee shall notify the Division of Radiological Health in writing that it has completed the requirements of this condition.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH
RADIOACTIVE MATERIAL LICENSE

Amendment 110

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License Number R-73006-F13

All other parts of this license remain unchanged.

Date: January 5, 2007

For the Commissioner
Tennessee Department of
Environment and Conservation

By


Johnny C. Graves

Licensing, Registration, and Planning Manager
Division of Radiological Health