



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
 DIVISION OF RADIOLOGICAL HEALTH
 William R. Snodgrass TN Tower 312 Rosa L. Parks Avenue, 15th Floor Nashville, TN 37243
 615-532-0364

RADIOACTIVE MATERIAL LICENSE

Amendment 2

Pursuant to Tennessee Department of Environment and Conservation Regulations, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules and regulations of the Tennessee Department of Environment and Conservation and orders of the Division of Radiological Health, now or hereafter in effect and to any conditions specified below.

LICENSEE 1. Name Heritage Railroad 2. Address 1560 Bear Creek Road Oak Ridge, TN 37830		3. License number R-01118-J27 4. Expiration date October 31, 2027 5. File no. R-01118
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.
S E E S U P P L E M E N T A R Y S H E E T S		

10. Authorized Use

S E E S U P P L E M E N T A R Y S H E E T S

CONDITIONS

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

For the Commissioner
 Tennessee Department of Environment and Conservation

Date of Issuance: August 22, 2018

By: _____

Charles Arnott
 Division of Radiological Health
 Charles Arnott, Environmental Consultant



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(Element and
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and/or
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and/or Quantity of
Material Which Licensee
May <u>Possess at Any One
Time</u></p> |
| <p>A. Residual
radioactivity
contamination as
specified in 49CFR
Parts 100 through
177
(Transportation)</p> | <p>A. Any</p> | <p>A. As necessary for
the uses in Item
10.A. *</p> |

* 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).

10. Authorized Use

- A. Storage of empty DOT containers, and/or conveyances containing residual radioactivity contamination, storage of DOT exempt quantity product shield blocks, radiological surveys of empty DOT containers in non-bonded storage areas, and maintenance of containers and conveyances that have contamination levels verified to be below free release limits at the Heritage Railroad Corporation Transload Facility (HRRTF).



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Conditions (continued)

12. The licensee shall comply with applicable provisions of 0400-20-04, 0400-20-05, and 0400-20-10 of "State Regulations for Protection Against Radiation."
13. Licensed operations may be conducted at the Heritage Railroad Transload Facility at 796 Perimeter Road, Oak Ridge, TN 37830.
14. A. Radioactive material authorized by this license shall be used by, or under the supervision of, Brian Cooley, Roger Betow, Darrel Watkins, or Michael Freeman.

B. The Radiation safety Officer for this license is Scott Lawson.
15. Licensed operations shall be conducted in accordance with applicable provisions of the *EnergySolutions* Tennessee Radiation Safety Guide (RSG-1), Revision 11.
16. The licensee is authorized to release solid materials and equipment for unrestricted use in accordance with the surface contamination criteria in NRC NUREG-1757, Volume 1, Revision 2, section 15.11.1.1, "Release of Solid Materials with Surface Residual Radioactivity" (Materials Licensees), and MARSAME NUREG-1575, Supplemental 1, Table E.2 for tritium.
17. An exemption is granted to the requirements in 0400-20-05-.115(3) of "State Regulations for Protection Against Radiation" that a package received during normal working hours shall be monitored within 3 hours, and that a package not received during normal working hours shall be monitored no later than 3 hours after the beginning of the next working day. Instead, the licensee may monitor a package received during normal working hours within the shift that it is received, or for a package not received during normal working hours may monitor that package within the first shift of the next working day. This



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authorization does not relieve the licensee from monitoring packages as soon as practical after receipt.

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

18. 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.
19. 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 October 3, 2017, with attachments
 - Letters dated August 28, 2017, with attachments, October 17, 2017, with attachments, November 14, 2017, with attached *EnergySolutions* Tennessee Radiation Safety Guide (RSG-1), Revision 11, December 5, 2017, and August 16, 2018, with attachment.