

**SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
RADIOACTIVE MATERIAL LICENSE**

Pursuant to the Atomic Energy and Radiation Control Act, Section 13-7-40 et. seq. of S.C. Code of Laws of 1976, as amended, and Supplements thereto, and the South Carolina Department of Health and Environmental Control Regulation 61-63, Radioactive Material (Title A), and in reliance on statements and representations heretofore made by the applicant, 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 South Carolina Department of Health and Environmental Control now or hereafter in effect and to any conditions specified below.

Amendment No. 20 amends

LICENSEE

1. Name: EnergySolutions, LLC

3. License Number:
409 in its entirety

2. Address: Columbia Maintenance Facility
1700 Longwood Rd.
Columbia, SC 29209

4. Expiration Date:
December 31, 2013

5. Radioactive Material
(Element & Mass No.)

6. Chemical and/or
Physical Form

7. Maximum Radioactivity
and/or quantity of material
which licensee may possess
at any one time.

A. Any radioactive material
with Atomic Nos. 1-83
inclusive.

A. Any Form

A. 100.0 curies total
activity.

B. Any radioactive material
with Atomic Nos. 84-92,
Inclusive, except special
nuclear material.

B. Any Form

B. 2.0 curies total
activity.

C. Any radioactive material
with Atomic Nos. 93-104,
Inclusive, except special
nuclear material

C. Any Form

C. 2.0 millicuries total
activity.

8. Authorized Use:

A, B, and C. Radioactive material as contamination consisting of mixed fission and activation products upon surfaces or contained within shipping casks, process system components and ancillary equipment to be used for decontamination, maintenance and storage purposes. Radioactive material as liquid samples from licensed facilities for the purpose of waste characterization analysis. The volume of each sample is not to exceed one liter. Radioactive liquids contained in reverse osmosis (RO) filtration housing or in transport modules for RO membranes. Aforementioned activities are to be conducted at the location specified in Item 9.

Conditions

9. Radioactive material may only be possessed, used, or stored, as surface contamination, radiological samples, or liquids contained in reverse osmosis/ultrafiltration housing (RO/UF) or in transport modules for RO storage at the

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licensee's facility at 1700 Long Wood Road, Columbia, SC 29209.

10. The licensee shall comply with the provisions of Title A, State of South Carolina Rules and Regulations for Radiation Control; Part I - General Provisions; Part II - Licensing of Radioactive Materials; Part III - Standards for Protection Against Radiation; and Part VI - Notices, Instructions, and Reports to Workers; Inspection.

11. The licensee must comply with the reporting requirements for transactions involving nationally tracked sources in Title A, Part 3, Appendix G, RHA 3.58. This section includes the requirement to report any manufacture, transfer, receipt, disassembly, or disposal of a nationally tracked source, otherwise allowed by this license, by the close of the next business day after the transaction. A nationally tracked source, as defined in Title A, RHA 3.2.63, refers to a sealed source containing a quantity equal to or greater than Category 1 or Category 2 levels of any radioactive material listed in Title A, Part 3, Appendix G, RHA 3.58, "Nationally Tracked Source Thresholds."

12. The licensee shall maintain records of the Radiation Protection Program at the licensee's facility on 1700 Long Wood Road, Columbia, SC 29209 for periodic inspection by the Department.

13. Radioactive material shall be possessed, stored or used by, or under the supervision of: James Winburn (RSO) or Roger Betow. The licensee shall maintain continuity in the radiation control program by prior notification to the Department of any intended changes in the position of Facility Radiation Safety Officer or personnel contracted to perform and supervise any licensed activities. In the event of a change in the status of the current Facility Radiation Safety Officer, if prior contingencies have not been provided for interim supervision of licensed activities, suspension of activities authorized by this license shall be affected pending review and approval by the Department of submitted documentation regarding qualifications of candidates proposed to perform and supervise licensed activities.

14. Activities of the licensee involving the use of radioactive materials are limited to the decontamination and storage of various equipment and casks stored by the licensee. The licensee may also perform limited maintenance and quality assurance tests on casks and ancillary equipment at the location specified in Condition 9. Radioactive wastes generated as a result of these activities shall not be stored for more than one (1) year, or for not longer than sixty (60) days upon the accumulation of one (1) B-25 type box, whichever occurs first. In addition, this waste shall be transferred to an authorized recipient in accordance with applicable Department regulations, the facility's radioactive material license, and acceptance criteria.

15. All decontamination, maintenance, and cleaning activities involving the use of radioactive materials must be performed inside the building at the licensee's facility specified in Condition 9.

16. The license does not authorize the receipt, possession, or repair of transportation casks or packages containing radioactive materials or radioactive wastes unless the radioactive materials are residual or surface contamination.

17. A radiological survey shall be performed by the licensee within eight (8) business hours of receipt for contaminated equipment at the location specified in Condition 9. Surveys shall also be performed within 24 hours prior to release of equipment from the licensee's facility. Records of such surveys shall be maintained for inspection by the Department.

18. Storage of contaminated material at the licensee's facility shall be done in compliance with the provisions of Department Regulation 61-63, Radioactive Material (Title A), Part III - Standards of Protection Against Radiation.

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19. Additional equipment that may require storage at the Columbia Maintenance Facility shall require documented Departmental approval prior to receipt.

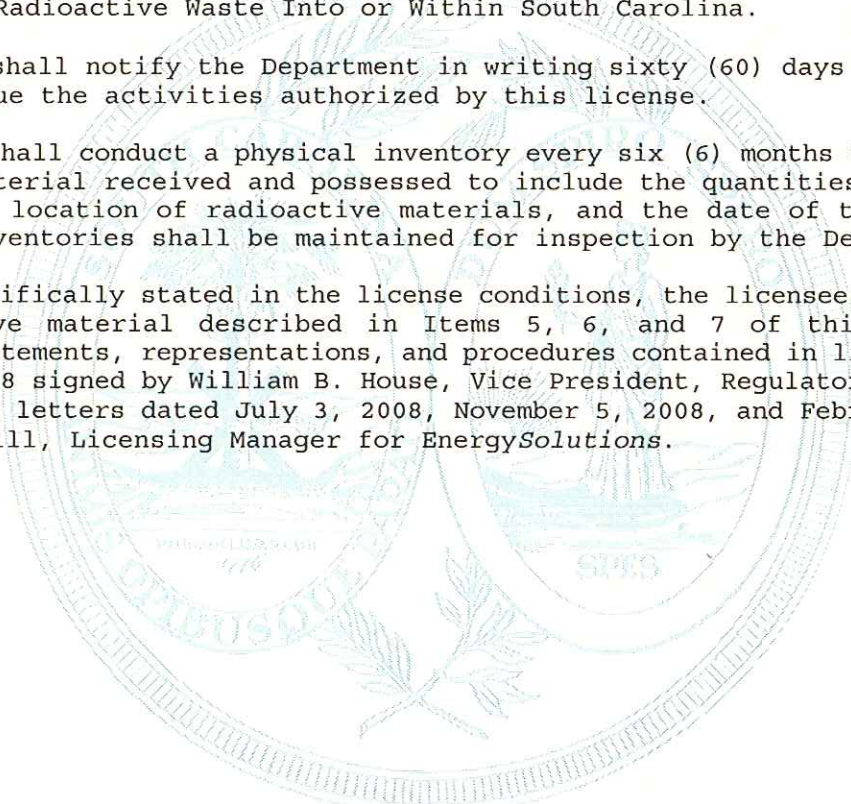
20. The licensee is not allowed to decontaminate equipment for release for unrestricted use or disposal unless specifically authorized on a case-by-case basis by the Department.

21. Radioactive material shall be packaged and transported in accordance with the requirements of RHA 2.22 - Transportation of Radioactive Materials, Department Regulation 61-63, Radioactive Material (Title A), and Department Regulation 61-83, Transportation of Radioactive Waste Into or Within South Carolina.

22. The licensee shall notify the Department in writing sixty (60) days in advance of plans to discontinue the activities authorized by this license.

23. The licensee shall conduct a physical inventory every six (6) months to account for all radioactive material received and possessed to include the quantities and kinds of licensed material, location of radioactive materials, and the date of the inventory. Records of such inventories shall be maintained for inspection by the Department.

24. Except as specifically stated in the license conditions, the licensee shall possess and use radioactive material described in Items 5, 6, and 7 of this license in accordance with statements, representations, and procedures contained in license renewal dated April 30, 2008 signed by William B. House, Vice President, Regulatory Affairs for EnergySolutions and letters dated July 3, 2008, November 5, 2008, and February 11, 2011 signed by Jimmy Still, Licensing Manager for EnergySolutions.



For the South Carolina Department
of Health and Environmental Control

Date of Issuance February 22, 2011

By: Richard A. Haynes
Richard A. Haynes, PE, Director
Division of Waste Management
Bureau of Land & Waste Management