



June 14, 2013

U.S. Nuclear Regulatory Commission
ATTN: Document Control Office
Two White Flint North
11545 Rockville Pike
Rockville, Maryland 20852-2738

SUBJECT: Request for Exemptions under 10CFR 30.11, 10CFR 40.14, and 10CFR 70.17 for Alternate Disposal of Wastes from the Studsvik Processing Facility in Memphis, Tennessee, under 10CFR20.2002

Dear Sirs:

US Ecology, Inc. seeks approval to receive and dispose low-activity radioactive wastes from Studsvik's Processing Facility in Memphis, TN (SPFM) at US Ecology Idaho (USEI), the company's RCRA subtitle-C hazardous and low-activity radioactive waste facility near Grand View, ID. USEI is regulated by the Idaho Department of Environmental Quality. Idaho is not an NRC Agreement State; however, Idaho regulations and the Grand View RCRA permit provide for the acceptance of this material with the appropriate NRC exemptions. A Safety Assessment for the proposed alternate disposal is attached showing that the potential dose to a member of the public is consistent with the NRC's "less than a few millirem per year" criterion.

Studsvik applied for an amendment to their Tennessee Agreement State Radioactive Materials License #R-79273-H16 to the Tennessee Department of Environment and Conservation's (TDEC) Division of Radiological Health on September 12, 2012 pursuant to Section 0400-20-05-.121 of the Rules of the TDEC Radiological Health Division – *Method for Granting Approval of Alternate Disposal Procedures*. This section of the regulation adopts the alternate disposal provisions in 10 CFR 20.2002. TDEC reviewed and approved Studsvik's amendment request package and issued Amendment 82 with new License Condition No. 44, provided as Enclosure 1. License Condition No. 44 grants authorization for alternate disposal of SPFM waste at USEI provided USEI receives exemptions from US NRC licensing requirements.

US Ecology is hereby requesting NRC review and approval of the enclosed along with the applicable exemptions from the licensing requirements in §30.3, §40.3, and §70.3 for purposes of disposing these wastes at our USEI facility. This framework is consistent with the scenario #3 for alternate disposals between Agreement States and Non-Agreement States outlined in NRC Agreement State Letter FSME-12-025 (March 13, 2012). Justification for the exemptions is provided in the attached Safety Assessment developed by USEI in coordination with Studsvik, provided in Enclosure 2. It evaluates a candidate waste stream with an average annual volume of 489,000 cubic feet (ft³) from the SPFM. The safety assessment summarizes the characteristics of the candidate waste material including SPFM

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characterization methods used and their results; the proposed manner and conditions of disposal at USEI; projected doses to members of the public during transport operations and to USEI workers during railcar receipt, unloading, transport and disposal; and an assessment of the potential post-closure doses. The Safety Assessment projects that this proposed alternate disposal would contribute less than 5 millirem to any individual, meeting the NRC's standard of generally limiting alternate disposal exposures to not more than "a few millirem per year" to any member of the public. TDEC performed an independent analysis of the USEI/Studsvik Safety Assessment and found it to be accurate and appropriate.

In performing the Safety Assessment for the proposed Studsvik alternate disposal, we have used our newly developed Site Specific Dose Assessment Methodology (SSDA). A Technical Basis Document explaining the functionality of the SSDA is provided in Attachment 8 of Enclosure 2. US Ecology respectfully requests that the NRC also review and approve this streamlined methodology as part of the Studsvik application so it may be used as part of other site-specific alternate disposal authorizations in the future.

Finally, we would note that we do not believe this is a "significant" alternate disposal request for the following reasons: the proposed §20.2002 disposal will be in a facility that routinely disposes of large quantities of similar materials in accordance with its permit; and the proposed disposals involve a high degree of certainty that the scenarios and assumptions used for the dose analysis are appropriate, based on past approvals, and will ensure that doses to a member of the public will not be above "a few millirem per year."

US Ecology is also requesting withholding under 10 CFR 2.390(a)(4) for a portion of this submittal under the assertion that "trade secrets and commercial or financial information" is included that should be protected from public disclosure. This includes all areas of the submittal associated with USEI's *Site-Specific Dose Assessment Methodology*. Details pertaining to the rationale for the withholding are provided in an affidavit (please see Enclosure 3) as per the requirements of §2.390(b)(1)(ii) and (iii). A request for withholding was also made to the State of Tennessee as part of Studsvik's License Amendment Request. TDEC's Division of Radiological Health reviewed this request and agreed that these items met the criteria as proprietary under the Rules of the Department of Environmental Conservation, Division of Radiological Health §0400-20-04-.10(2), resulting in redaction of requested material from the public record.

This submittal is being provided in full in both hardcopy and electronic formats. The electronic copy is provided on an enclosed CD-ROM in Adobe® portable document format (PDF).

If you have any questions or wish to discuss this request further, I can be reached at (208) 319-1634 or jweismann@usecology.com.

Sincerely,



Joseph J. Weismann, CHP
Vice President of Radiological Programs and Field Services
US Ecology, Inc.

ENCLOSURES

Cc: File
Mr. Larry Camper, NRC/FSME/DWMEP
Mr. Joseph DiCamillo, Studsvik
Mr. Robert Sasson, Studsvik



Request for Exemptions from Requirements in 10 CFR 30.3, 10 CFR 40.3, and 10 CFR 70.3 for US Ecology- Idaho, Grand View, ID

Based on:

**Studsvik Processing Facility Memphis, LLC's Tennessee
Agreement State Approved Alternate Disposal Authorization and
Amendment No. 82 to License # R-79273-H16**

Submitted to:

US Nuclear Regulatory Commission

Prepared by:

US Ecology, Inc.
Lakepointe Centre I
300 East Mallard Drive, Suite 300
Boise, ID 83706

June 18, 2013

Enclosure 1

Studsvik Processing Facility Memphis, LLC
Tennessee Agreement State Radioactive Materials License #R-79273-H16
Amendment No. 82
April 19, 2013



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
 DIVISION OF RADIOLOGICAL HEALTH
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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 Studsvik Processing Facility Memphis, LLC		R-79273-H16 amended in its entirety
2. Address P.O. Box 13143 2550 Channel Avenue Memphis, TN 38113		4. Expiration date August 31, 2016
		5. File no. R- 79273
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

Date of Issuance: April 19, 2013

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For the Commissioner
 Tennessee Department of Environment and Conservation
 By: Johnny C. Graves
 Division of Radiological Health
 Johnny C. Graves
 Licensing, Registration, and Planning Manager



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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. Any radioactive material with atomic numbers 1 through 93, inclusive, and 95 through 100, inclusive, except for H-3, C-14, Fe-55, U-233 and Uranium enriched in U-235	A. Any solid form including sealed sources; liquid	A. 100 curies
B. Uranium 233	B. Same as 8A.	B. 175 grams (see Note 1 below)
C. Uranium enriched in Uranium 235	C. Same as 8A.	C. 350 grams of contained Uranium 235 (see Note 1 below)
D. Plutonium	D. Same as 8A.	D. 200 grams and not to exceed 2 curies (see Note 1 below)
E. Hydrogen 3	E. Same as 8A.	E. 100 curies
F. Carbon 14	F. Same as 8A.	F. 100 curies

Note: (1) 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). This is the combined possession limit for all Studsvik licenses at the addresses in Condition 13 of this license.



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G. Iron 55	G. Same as 8A.	G. 100 curies
H. Cesium 137	H. Sealed source (3M Model 4P6E or J.L. Shepherd Model 6810)	H. One (1) source not to exceed 600 millicuries
I. Any radioactive material with atomic numbers 1 through 93, inclusive, and 95 through 100, inclusive, except for U-233 and Uranium enriched in U-235)	I. Any as contamination received with steam generators	I. 4000 curies

10. Authorized use

- A. through G. Possession of radioactive material associated with radioactive waste processing activities as authorized in this license. These activities include DAW and metals processing including DAW washing, abrasive blasting, non-chemical decontamination, cutting, shredding, compaction, super-compaction, storage, storage for decay, sorting, disassembly, packaging, survey for release, sealed source processing for disposal, resin processing, liquid absorption and solidification, Bulk Survey for Release to BFI North Shelby County Landfill, BFI South Shelby County Landfill, or a licensed recipient, and **the alternative disposal procedure authorized in Condition 44**. These authorizations shall be conducted in accordance with statements, representations, and procedures contained in documents referenced in conditions of this license.
- H. For use in a J. L. Shepherd Model 28 Series, Sub-Model 28-6 calibrator for the performance of calibration verification and response checks of portable survey instrumentation.
- I. Possession of radioactive material associated with processing of the two currently possessed St. Lucie Steam Generators (SG) for recycle or disposal in accordance with statements, representations, and procedures contained in Studvik's amendment request letter dated May 28, 2010, with attachments. Authorized activities include: 1) processing of SG materials in Building 3 in a similar manner as other materials being processed



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throughout the Memphis facility including, but not limited to, mechanical decontamination, disassembly, tube removal, monitoring, packaging of contaminated materials for final disposition and temporary storage of SG materials; 2) staging of one SG adjacent to Building 3 in preparation for processing; 3) staging of waste containers inside or adjacent to Building 3 prior to further processing and handling in preparation for shipment for final disposition; 4) transfer of SG materials to other site locations for processing, packaging or staging for shipment; 5) laboratory scale research and development and testing of waste processing techniques associated with SG processing operations; and 6) handling and processing of other materials in Building 3 that are of a similar nature to SG materials in a manner consistent with Item 10.I.

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. Radioactive material authorized by this license may be used and stored at the licensee's facilities at 2550 and 2560 Channel Avenue, Memphis, TN in accordance with statements, representations, and procedures contained in conditions of this license.
14. A. Radioactive material authorized by this license shall be used by, or under the supervision of, David Wise, Kevin Graczyk, Robert Sasson, or qualified Licensed Users who have completed the training and certification requirements identified in the Radiation Protection Manual referenced in Condition 15 of this license. An authorized or Licensed User must be present on site during operations to supervise activities such as opening containers to remove potentially contaminated items, characterization of contamination levels, measurement of external exposure levels, and survey for free release.

B. The Radiation Safety Officer for this license is Robert Sasson.



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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 Condition 35 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 Condition 35 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. In addition to other requirements of this license or of Chapter 0400-20-05-.60 "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.
 17. No radioactive material including sealed sources received for disposal (excluding calibration and standardization sources and waste received for decay-in-storage) or radioactive waste may be possessed under this license, from its time of receipt, until its transfer from the facility, for a period of time greater than three hundred sixty-five (365) days.



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18. 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 Containers	1 high; 2 high at East Storage Shed
5. Intermodal containers	10 feet nominal; 20 feet nominal at East Storage Shed
6. QC Boxes	2 high
7. Any other strong tight container	10 feet nominal unless the natural height of the container exceeds 10 feet

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

19. The licensee shall maintain complete and accurate records of the receipt and disposal of radioactive material. The licensee shall, for radioactive material no longer useful for any purpose and for any equipment or supplies contaminated with such material for which further use and decontamination is not planned, define those materials as radioactive waste and treat them as such in accordance with the following provisions:

- A. Radioactive waste material shall not be stored with non-radioactive waste.
- B. A written record of all radioactive waste material shall be maintained until it has been determined by a suitable survey or radioassay that it has decayed to background levels or until it has been shipped to an authorized recipient in accordance with all applicable regulations. Accountability of radioactive waste material prepared for shipment but not yet shipped from the licensee's premises shall be maintained by the licensee by an internal record system such that the licensee is constantly aware of the material's location and the proposed time of shipment. Individuals who are involved in 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.



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- C. For material which has decayed to background levels as determined by radioassay or external level as measured with appropriately calibrated instruments, records shall indicate that the material was determined to be no longer radioactive and will indicate the methods and results of the survey or analysis.
- D. Shipment records of radioactive waste material shall be maintained and the licensee shall require written confirmation from the authorized recipient of such material that this material has been received.
- E. All records and written confirmations required by this condition shall be maintained for inspection by the Department.

The requirements for this condition are in addition to any other requirements for the handling and/or disposal of radioactive material contained in this license and "State Regulation for Protection Against Radiation."

- 20. 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, storage pending transfer/disposal, or transfer/disposal unless the shipper of such waste possesses a valid license for delivery issued pursuant to 0400-20-10-.32 of "State Regulations for Protection Against Radiation."
- 21. 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.
- 22. 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.



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23. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 120 days for decay-in storage before disposal in ordinary trash, provided:
- A. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
 - B. A record of each such disposal permitted under this license condition shall be retained for three years. The record must include the date of disposal, the date on which the licensed material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
- 24.A. The licensee is authorized to monitor materials for contamination and release them (BSFR) to BFI North Shelby County Landfill, Millington, TN, BFI South Shelby County Landfill, Memphis, TN, or a licensed recipient(s) in accordance with statements, representations, and procedures contained in letters dated July 29, 2010, with attachments, January 26, 2011, and March 17, 2011, with attachments including Technical Basis for the Studsvik Processing Facility Memphis (SPMF) BSFR Program Revision 3. The Radium 226 disposal limit for BFI North Shelby County Landfill and BFI South Shelby County Landfill will each be 5 pCi per gram.
- B. Records of all disposals made under this condition shall be submitted quarterly to the Division of Radiological Health, 3rd Floor, L & C Annex, 401 Church Street, Nashville, Tennessee, 37243. 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.
 - C. The licensee shall meet the requirements of "Licensing Requirements for Evaluation and Acceptance of Licensee Requests for the Disposal of Materials with Extremely Low Levels of Contamination in Class I (Subtitle D) Landfills."



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- D. For calendar year 2011 the licensee is approved to dispose of 830 tons of material per month in the BFI South Shelby County Landfill and 450 tons per month in the BFI North Shelby County Landfill.
25. Except as specifically provided in Condition 18, the licensee is authorized to store containers of licensed radioactive material outside in accordance with statements, representations, and procedures contained in application dated March 30, 2006, with attachments.
26. The licensee is authorized to stage containers of radioactive material in areas not covered by financial assurance provided that no individual container is present for more than 12 hours. This authorization is for licensed material for future work, licensed material that meets surface free release criteria as evidenced by survey, and licensed material that has been surveyed to verify its acceptance through the BSFR program. It does not include survey for determination for release through the BSFR program. Except for surface contaminated material that meets free release criteria, waste shall be staged in closed containers on paved surfaces with no opening of containers or loading of wastes.
27. The licensee is authorized to store empty containers outdoors in accordance with the following criteria:
- The empty package in storage shall:
- Contain no hazardous material
 - Be emptied of contents as far as practical (49CFR 173.428)
 - Contain no standing liquid
 - Be in unimpaired condition and securely closed so that there will be no leakage under conditions normally incident to transportation or storage [173.428(b)]
 - Have no radiation levels on the external surface of the package exceeding 0.5 mR/hr average and 2.0 mR/hr hotspot



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- f. Have no removable surface contamination on the external surface of the package exceeding 10% of Reg. Guide 1.86 free release limits
- g. Have no internal contamination exceeding:
- | | |
|-----------------------------------|--------------------------|
| Beta and gamma emitters | 2200 dpm/cm ² |
| and low toxicity alpha emitters * | |
| All other alpha emitters | 220 dpm/cm ² |
- * As defined in 49CFR 173.403
- h. Have any labels previously applied removed, obliterated, or covered and an "Empty" label affixed [173.428 (d)]
- i. Be stored on a paved (asphalt or concrete) surface
- j. Be arranged such that all containers can be visually inspected on at least one side
28. This license does not authorize the disposal of liquid wastes to the sanitary sewerage system. Liquid wastes shall be handled in accordance with statements, representations, and procedures contained in documents referenced in Condition 35 of this license.
29. 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.
30. A. Sealed sources authorized by this license in Item H shall be tested for leakage and/or contamination at intervals not to exceed six (6) months. In the absence of a certificate



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- from a transferor indicating that a test has been made within six (6) months prior to transfer, the sealed source shall not be put until use until tested.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surface of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak tests shall be kept in units of microcuries and maintained for inspection by the Department.
- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Department regulations. A report shall be filed within five (5) days of the test with the Division of Radiological Health, Tennessee Department of Environment and Conservation, 401 Church Street, 3rd Floor L & C Annex, Nashville, Tennessee, 37243, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons authorized by this Department, the U.S. Nuclear Regulatory Commission, or another Agreement State to perform such services.
31. The licensee has provided \$3,200,000.00 (three million two hundred thousand US Dollars) in financial assurance monies in accordance with "State Regulations for Protection Against Radiation" 0400-20-10-.12(4). This financial assurance will provide for the space and bonding height outlined in the Bonded Space Financial Calculation submitted with letter dated may 28, 2010.
32. In addition to the possession limits in Item 9, the licensee shall further restrict the possession of licensed material to quantities below the limits specified in "State Regulations for Protection Against Radiation" 0400-20-10-.13(17)(a) which require consideration of the need for an emergency plan for responding to a release of licensed material.
33. 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



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license. Notwithstanding any other conditions of this license, the general licensee may possess and use radioactive material received under the provisions of 0400-20-10 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.

34. 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.
35. 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 March 30, 2006, with attachments
 - Letters dated January 17, 2005, with attachments, April 18, 2006, (three letters with this date), May 4, 2006, with attachments, June 14, 2006, with attachments, November 10, 2006, March 26, 2007, with attachments, May 18, 2007, June 11, 2007, with attachments, June 25, 2007, with attachments, August 30, 2007, with attachment, September 6, 2007, December 27, 2007, with attachments, March 26, 2008, April 2, 2008, April 4, 2008, with attachment, June 20, 2008, July 28, 2008, with attachments, September 18, 2008, November 13, 2008, with attachments, December 4, 2008, with attachments, March 5, 2009, with attachment, September 23, 2009, with attachments, October 22, 2009, December 9, 2009, with attachments, February 4, 2010, with attachments, February 22, 2010, May 28, 2010, with attachments, including amendment request and revised Studsvik Facility and Process Description Revision 2, July 8, 2010, July 29, 2010, with attachments, October 19, 2010, January 26, 2011, March 2, 2011, March 17, 2011, with attachments including Technical Basis for the Studsvik Processing Facility Memphis (SPMF) BSFR Program Revision 3, October 19, 2011, February 29, 2012, **September 17, 2012, with attachments, October 19, 2012, with attachments, October 29, 2012, January 18, 2013, with attachments, and March 26, 2013.**
 - Svenska Handelsbanken New York Branch Irrevocable Standby Letter of Credit NO. S06119 dated April, 19, 2007, and amended March 14, 2008, April 18, 2008, and June 29, 2010
 - E-mails dated August 28, 2006, and August 29, 2006
- B. The licensee shall comply with the requirements for Agreement State "Increased Controls for Licensees that Possess Sources Containing Radioactive Material Quantities



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of Concern.” The licensee shall complete implementation of said requirements by the first day that radionuclides in quantities of concern are possessed at or above the limits specified in “Table 1: Radionuclides of Concern.” The licensee shall notify the Division of Radiological Health in writing when it has completed the requirements of this condition.

36. Notwithstanding the requirements of Condition 17 of this license, the licensee is authorized to possess radioactive material in Package ECUC-060727 for a period of time greater than 365 days. This material shall be processed, packaged, and transferred for disposal before January 1, 2007.
37. Notwithstanding the requirements of Condition 18 of this license, the licensee may temporarily store licensed material outside in the 4050 square foot shielded bunker in accordance with statements, representations, and procedures contained in letters dated June 25, 2007, with attachments, April 4, 2008, with attachment, June 20, 2008, September 18, 2008, October 22, 2009, October 19, 2010, October 19, 2011, and October 29, 2012. This authorization allows double bonded height storage as long as the fence line or bunker walls have the same height of shielding present. At the conclusion of this storage a representative number of soil or other matrix samples in the storage footprint shall be taken to show that no contamination is present. Records of these sample/survey results shall be submitted to the Department. This authorization shall expire November 24, 2013.
38. Notwithstanding the requirements of Condition 17 of this license, the licensee is authorized to possess radioactive material from Plant St. Lucie in shipment 06-065 for a period of time greater than 365 days. This material shall be processed, packaged, and transferred for disposal once the non-destructive testing inspections of interest to the U.S. NRC have been completed.
39. The licensee shall perform an appropriate radiation survey of areas outside Building #3 including all access points to confirm that primary beam radiation is attenuated by the full amount of designed shielding as authorized in this license. This survey shall be performed with the first steam generator in place for processing under conditions of maximum exposure. Records of this survey shall be submitted to the Department and shall include a statement of confirmation by the licensee.



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40. The licensee shall comply with the requirements described in Order EA-07-305 (the Order). The licensee shall complete implementation of said requirements by November 10, 2008. The licensee shall notify the Division of Radiological Health when they have achieved full compliance with the requirements described in the Order. The notification shall be made within twenty-five (25) days after full compliance has been achieved. This notification shall include a certification that the Trustworthiness and Reliability (T&R) Official (and any subsequent T&R Official) is themselves deemed trustworthy and reliable by the Licensee as required in paragraph B.2. of the Order. The licensee shall notify the Division of Radiological Health within 24 hours if the results from a criminal history records check indicate that an individual is identified on the FBI's Terrorist Screening Data Base.
41. Notwithstanding the requirements of Condition 17 of this license, this condition extends the time period for possession of currently held radioactive material authorized in Items 6.I., 8.I., 9.I., and 10.I. of this license through **April 30, 2014**.
42. The attached March 2010 "Licensing Requirements for Evaluation and Acceptance of Licensee Requests for the Disposal of Materials with Extremely Low Levels of Contamination in Class I (Subtitle D) Landfills" (Licensing Requirements) shall become effective January 1, 2011. In order to accomplish this, the following requirements must be met:
 - A. The licensee shall submit a detailed program for Department review by August 1, 2010 indicating how the March 2010, Licensing Requirements will be met. Include in your program procedures for notifying generators that their waste is a candidate for municipal waste landfill disposal and confirm that records of this notification will be maintained for review by the Department.
 - B. The licensee shall submit a RESRAD analysis for each landfill requested to be used for disposal of materials with extremely low levels of contamination by August 1, 2010 following the guidelines outlined in the March 2010, Licensing Requirements.

Upon review and approval by the Department of the program submitted by the licensee in accordance with A and B above, your Tennessee Radioactive Material License will be amended to reflect the approved program.



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43. In addition to that submitted with letter dated May 28, 2010, with attachments, the licensee shall ensure that radiation dosimetry is present at sufficient appropriate locations to adequately determine the maximum dose to the public from its licensed activities. Quarterly summaries of dose to the public measurements shall be submitted to the Department.

44. The licensee is authorized to dispose of radioactive materials pursuant to 0400-20-05-.121 Method for Granting Approval of Alternative Disposal Procedures in "State Regulations for Protection Against Radiation." This authorization is granted in accordance with letters dated September 17, 2012, with attachments, October 19, 2012, with attachments, and January 18, 2013, with attachments. These materials may be disposed at the US Ecology, Inc. RCRA facility in Grand View, Idaho provided the disposal operator obtains an exemption from the U. S. Nuclear Regulatory Commission's licensing requirements.