

SOLID WASTE FACILITY LICENSE

1650 Boone's Lick Road • St. Charles, MO • 63301 • 636-949-1800 • <http://health.sccmo.org/health>

1. Facility Number	0	4	3	0	3	2. State Permit No.	0	9	1	8	3	0	1
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3. Name and Street Address of Facility
 AMEREN MISSOURI SIOUX POWER PLANT UTILITY WASTE LANDFILL
 SOUTHSIDE OF HWY 94 NORTH, EAST OF DWIGGINS ROAD
 UNINCORPORATED

4. Name and Mailing Address of Operator
 AJAY ARORA, VICE-PRESIDENT, ENVIRONMENTAL SERVICES
 AMEREN MISSOURI
 ONE AMEREN PLAZA, 1901 CHOUTEAU AVENUE
 ST. LOUIS, MO 63103

5. Name and Mailing Address of Owner
 AJAY ARORA, VICE-PRESIDENT, ENVIRONMENTAL SERVICES
 AMEREN MISSOURI
 ONE AMEREN PLAZA, 1901 CHOUTEAU AVENUE
 ST. LOUIS, MO 63103

6. Specifications:
 Upon a significant change in design or operation from that described herein, this permit is subject to revocation or suspension. The attached permit findings and conditions are integral parts of this permit and supersede the conditions of any previously issued solid waste facility permit.

a. Permitted Operations:
 Solid Waste Disposal Site Composting Facility (Green Material)
 Transfer/Processing Facility (MRF) Other:

b. Permitted Hours of Operations:
 Receipt of Refuse/Waste* **0 0 0 0** to **0 0 0 0** *24 hours per day, 7 days per week
 Ancillary Operations/Facility Operating Hours **0 6 0 0** to **1 7 3 0**

c. Permitted Maximum Tonnage: **30,000** Tons per month

d. Permitted Traffic Volume: **≤ 1000** Vehicles per month

e. Key Design Parameters (Detailed parameters see facility Waste Facility Plan):

	Total	Disposal	Transfer/Processing	Composting	Transformation
Permitted Area (in acres)	398.04	183.5	N/A	N/A	N/A
Design Capacity (cu. Yards)		21,900,000	N/A	N/A	N/A
Max. Elevation (Ft. MSL)		525			
Max. Depth (Ft. MSL)		100			
Estimated Closure Year		2068			

7. Legal Description of Facility:
 The Ameren Missouri Sioux Power Plant Utility Waste Landfill (UWL) site is located south of State Highway 94, adjacent to the power plant, in unincorporated St. Charles County, in the southeastern part of Township 48 North, Range 6 East. The site is approximately two (2) miles east of the town of Portage des Sioux, and twelve (12) miles west-northwest of the confluence of the Mississippi and Missouri Rivers. The UWL is proposed within a tract of land totaling 398.04 acres, of which 183.5 acres are proposed for use as the active disposal area. The remaining acreage includes a proposed 19.6 acre wastewater recycle pond (permitted separately by the Water Pollution Control Program), soil borrow areas for soil liner and final cover as needed, access roads, flood protection berms and buffer area.

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8. Findings:

a. DEFINITIONS

Unless the context otherwise requires, the words used in the License have meanings ascribed to them in Solid Waste Management Code of St. Charles County, Missouri (SCC SWMC) (Ord. No. 01-061 sections--8, 5-30-01)

b. LICENSE ACTIONS

This license is for operation(s) of Cell 1 and Cell 4A. This License is based upon the information submitted in the 2015 renewal application for a solid waste facility permit and the Revised *Waste Facility Plan for St. Charles County*, October 2013 (WFP), and as approved by the St. Charles County, Department of Community Health and the Environment, Division of Environmental Health and Protection (Division or LEA). The License may be modified by the Division for cause in accordance with SCC SWMC sections 240.750, 240.810, or if there is a change in the statutes or regulations upon which the issuance of the License is based, or if modification is otherwise necessary to protect public health and safety and safeguarding environmental health and protection. If the disposal site does not remain in compliance with the applicable statutes and regulations, this license may be revoked or suspended when written notice is given by the Division. The filing of a request by the Licensee for a License modification or termination, or a notification of planned changes or anticipated noncompliance, does not stay any License condition. The Licensee shall inform the Division of any deviation from or change in operations as presented in the WFP, which may affect the Licensee's ability to comply with applicable regulations or conditions of the License. This License may be transferred to a subsequent owner or operator only if the Division approves the transfer based on documentation of financial responsibility provided by the new owner or operator.

c. AVAILABILITY OF LICENSE DOCUMENTS

The Licensee shall keep at the disposal site a complete copy of this License and incorporated documents, as identified by the Division Director.

d. SOLID WASTES PERMITTED FOR DISPOSAL

- i. Industrial Wastes: **Fly Ash & Bottom Ash**
- ii. Special Wastes: **Boiler Slag & Gypsum**

9. Prohibitions:

The Licensee is prohibited from placing in the landfill the following wastes:

- i. Hazardous waste, as defined by State and Federal Regulations;
- ii. PCB waste, as defined by State and Federal Regulations; and
- iii. Waste not identified in License Condition 8(d).

10. The following documents describe and/or restrict the operation of this facility:

	Date		Date
Detailed Geologic and Hydrologic Site Investigation Report for Ameren UE Sioux Power Plant, Proposed Utility Waste Disposal Area St. Charles County, Missouri (DSI)	9/20/07	AmerenUE Sioux Power Plant Utility Waste Landfill Proposed Construction Permit Modification Construction Permit Number 0918301 St. Charles County, Missouri	06/2010
AmerenUE Sioux Power Plant Construction Permit Application for a Proposed Utility Waste Landfill, St. Charles County, Missouri (CPA)	9/20/07	Missouri DNR Solid Waste Disposal Area Operating Permit Permit Number 0918301 AmerenUE Sioux Power Plant Utility Waste Landfill	07/2010
Ameren UE Sioux Power Plant, Proposed Utility Waste Landfill, St. Charles County, Missouri (Plans)	9/20/07	AmerenUE Sioux Power Plant Utility Waste Landfill Proposed Construction Permit Modification Construction Permit Number 0918301 St. Charles County, Missouri (Revised)	02/2012
Missouri DNR Solid Waste Disposal Area Construction Permit No. 0918301	3/28/08	Revised Waste Facility Plan	10/2013

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10. The following documents describe and/or restrict the operation of this facility: (continued)

Sioux Power Plant Utility Waste Landfill Construction Permit No. 0918301, Permit Modification - Cell 1 Ring Drains	11/2009	License Renewal Application Package for Ameren Missouri Sioux Utility Waste Landfill	09/2015
Waste Facility Plan for St. Charles County	4/2010		

11. Self Monitoring:

The owner/operator shall submit the results of all self monitoring programs to the Local Enforcement Agency (LEA), St. Charles County Department of Community Health and the Environment within 30 days of the end of the reporting period (*for example, 1st quarter = January - March, the report is due by April 30, etc.. Information required on an annual basis shall be submitted with the 4th quarter monitoring report, unless otherwise stated.*)

Program	Reporting Frequency
a). The Licensee shall submit to the Division a report of the solid waste received at the site. The report must be submitted in a format approved by the Division.	Quarterly
b). Financial Assurance Reporting: The Licensee Shall: <ul style="list-style-type: none"> i. Notify the Division of any adjustments made to the estimates for the amounts of closure and post-closure care in accordance with SCC SWMC; and ii. The Licensee shall submit the closure and post-closure cost estimates adjusted for inflation. 	Annually
c). Groundwater monitoring reports	Quarterly
d). The Licensee shall submit to the Division a report of the surface impoundment inspections at the site. The report must be submitted in a format approved by the Division.	Annually

12. Local Enforcement Agency (LEA) Conditions:

1. The operator shall comply with all Federal and State Minimum Standards for solid waste handling and disposal.
2. The Licensee shall keep at the disposal site a complete copy of this License and incorporated documents, as identified in Section 10.
3. The Licensee shall furnish to the Division, any relevant information which the Division may request in order to determine compliance with this License or to determine whether cause exists for modifying, revoking and reissuing, or terminating this License. The Licensee shall also furnish to the Division, upon request, copies of records as a requirement of this License. This shall be done in a reasonable timeframe within a mutually agreeable and negotiated deadline.
4. Licensee shall furnish to St. Charles County Government, Department of Community Development, any relevant information which the Department may request in order to determine compliance with county rules, laws, regulations and/or codes. This shall be done in a reasonable timeframe within a mutually agreeable and negotiated deadline.

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12. Local Enforcement Agency (LEA) Conditions: (continued)

6. In accordance with SCC SWMC section 240.1150, the Licensee shall report incidents to the Division as provided in the *Waste Facility Plan for St. Charles County*, April 2010 (WFP) or October 2013. In addition, the Licensee shall report any noncompliance, imminent or existing hazard from a release of waste or hazardous constituents, or from a fire or explosion at the facility, which may endanger human health or the environment. Such information shall be reported by telephone to (636) 949-1800 within twenty-four (24) hours from the time the Licensee becomes aware of the circumstances. A written report shall be submitted within fifteen (15) days of the incident and shall include the following:

1. Name and title of person making report;
2. Date, time, and type of incident;
3. Name and quantity of material(s) involved;
4. A complete description of the occurrence and its cause;
5. The extent of injuries, if any;
6. An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable;
7. Estimated quantity and disposition of recovered material that resulted from the incident; and
8. Actions taken by the Licensee in response to the incident.

7. The Licensee shall give advance notice to the Division Director of any planned changes in the permitted facility or activity, which may result in noncompliance with License requirements.

8. The Licensee shall allow the Division of Environmental Health and Protection, or an authorized representative, upon the presentation of credentials or other documents as may be required by law to:

1. Enter at reasonable times (any time during the permitted hours of operation found in 6b) upon the Licensee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this License; and
2. Have access to and copy, at reasonable times, any records that must be kept under conditions of this License; and
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this License; and
4. Sample, photograph, or monitor at reasonable times, for the purposes of assuring License compliance or as otherwise authorized, any substances, locations, or parameters at any location subject to the License.

9. The Licensee shall: Follow and document a program for quality assurance and quality control for the construction of the facility.

10. The Licensee shall notify the Division in writing within sixty (60) days following the commencement of construction of a new cell.

11. The Licensee shall maintain the following records at the site in accordance to SCC SWMC section 240.1150(36):

1. Major problems and complaints regarding operation of the landfill;
2. All environmental media sampling/testing data;
3. In the event of documented exceedence of applicable standards established by Missouri Department of Natural Resources for any monitoring system;
4. Records of vector control efforts;
5. Records of dust and litter control efforts;
6. A copy of the SCC SWMC supplied by the division; and
7. Records of quantity of waste handled. Such records shall be made contemporaneously with the matters recorded.

12. Despite the approval of the WFP and the issuance of a license for the construction and operation of facility, the licensee shall apply to renew such license annually for each year beginning with each anniversary date of the issuance of license. The renewal application as set forth in the schedule in subsection (2) of section 240.810 of the SCC SWMC shall be addressed and delivered to the Division Director at least thirty (30) days prior to each anniversary date of the initial license and shall contain:

1. A request that a renewal license be issued for a period of one (1) year, and
2. A report containing the information required in Section 240.820. (Ord. No 01-061 sections 1--8, 5-30-01)

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12. Local Enforcement Agency (LEA) Conditions: (continued)

13. Surface Impoundment Inspection(s) Requirements:

1. All existing UWL surface impoundments shall be examined as follows:
 - a. At intervals not exceeding 7 days for appearances of structural weakness and other hazardous conditions;
 - b. At intervals not exceeding 7 days all instruments shall be monitored;
 - c. All inspections required by sections (1)(a) and (1)(b) above shall be performed by a qualified person as defined in (5) of this section, designated by the Licensee;
 - d. All existing UWL surface impoundments shall be inspected annually by a registered professional engineer to assure that the design, operation, and maintenance of the surface impoundment is in accordance with generally accepted engineering standards. The Licensee must notify the Division Director that a registered professional engineer has found that the design, operation, and maintenance of the surface impoundment is in accordance with generally accepted engineering standards and such findings has been placed in the operating record.
2. When a potentially hazardous condition develops, the Licensee shall immediately:
 - a. Take action to eliminate the potentially hazardous condition;
 - b. Notify potentially affected persons and state and local first responders;
 - c. Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the state.
3. After each inspection and instrumentation monitoring referred to in sections (1) and (2), each qualified person who conducted all or any part of the inspection or instrumentation monitoring shall promptly record the results of such inspection or instrumentation monitoring in a book which shall be available in the operation record and such qualified person shall also report the results of the inspection or monitoring to the Division Director as required in Section 11, Self Monitoring of this License. A report of each inspection and instrumentation monitoring shall also be available for public review if requested.
4. All inspection and instrumentation monitoring reports recorded in accordance with section (3) shall include a report of the action taken to abate hazardous conditions and shall be promptly signed by the person designated by the Licensee as responsible for health and safety at the UWL.
5. The qualified person or persons referred to in 12(1)(c) of this section shall be trained to recognize specific signs of structural instability and other hazardous conditions by visual observation and, if applicable, to monitor instrumentation.
6. The Licensee must record and retain at the site in an operating record, all records, reports, studies or other documentation required to demonstrate sections (1) - (5).

14. All reports, notifications, or other submissions which are required by this License shall be submitted to:

Division of Environmental Health and Protection
 Department of Community Health and the Environment
 St. Charles County Government
 1650 Boones Lick Road
 St. Charles, MO 63301

License issued:

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License expires:

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Signature of Approving Officer

Ryan Tilley

Ryan Tilley, MPPA, REHS
 Director, Division of Environmental Health and Protection



Public Health
 Prevent. Promote. Protect.

Signature of Health Officer

Hope Woodson

Hope Woodson, MHA
 Director, Department of Public Health