

POST CLOSURE PLAN

CCR 257.104(d)

Conesville Residual Waste Landfill

Conesville Plant
Conesville, Ohio

October, 2016

Prepared for: AEP Generation Resources – Conesville Plant

Conesville, Ohio

Prepared by: American Electric Power Service Corporation

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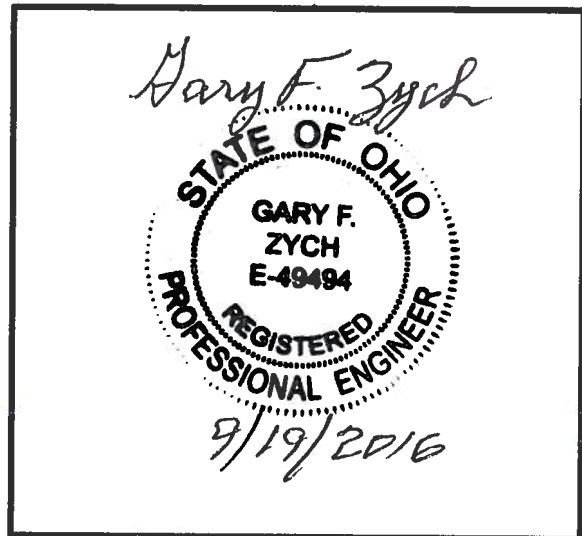
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POST CLOSURE PLAN
CCR 257.104(d)
CONESVILLE PLANT
RESIDUAL WASTE LANDFILL

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I certify to the best of my knowledge, information, and belief that the information contained in this post closure plan meets the requirements of 40 CFR § 257.104

Table of CONTENTS

1.0 OBJECTIVE..... 1

2.0 DESCRIPTION OF THE CCR UNIT..... 1

3.0 DESCRIPTION OF POST CLOSURE PLAN 275.104(d)(1)(i) 1

4.0 POST-CLOSURE CONTACT 275.104 (d)(1)(ii)..... 3

5.0 POST-CLOSURE PLANNED USE 275.104 (d)(1)(iii) 3

Attachment A: Post Closure Care Plan from approved landfill permit

1.0 OBJECTIVE

This report was prepared by AEP- Geotechnical Engineering Services (GES) section to fulfill requirements of CCR 257.104(d) for Post Closure Plans of CCR units.

2.0 DESCRIPTION OF THE CCR UNIT

The Conesville Generating Station is located near the Village of Conesville, Coshocton County, Ohio. It is owned and operated by AEP Generation Resources, Inc. The facility operates a landfill for the disposal of CCR materials. The Conesville Residual Waste Landfill is located approximately 2.5 miles east of the Conesville Generation Station near the intersection of State Route 83 and County Road 275.

The landfill is permitted by the Ohio Environmental Protection Agency (Ohio EPA) as a residual solid waste landfill, Permit-to-Install Number: 06-08442.

3.0 DESCRIPTION OF POST CLOSURE PLAN 275.104(d)(1)(i)

[A description of the monitoring and maintenance activities required in paragraph (b) of this section for the CCR unit, and the frequency at which these activities will be performed.]

The Conesville Residual Waste Landfill will be closed at either the life of plant or the life capacity of the facility. The post closure care plan is further discussed in the Ohio EPA approved Plan in Attachment A, with the exception that the post closure care period will be 30 years.

3.1 SECTION 275.104(b)(1)

[Maintaining the integrity and effectiveness of the final cover system including making repairs to the final cover as necessary to correct the effects of settlement, subsidence, erosion, or other events, and preventing run-on and run-off from eroding or otherwise damaging the final cover.]

Inspections are performed for the items noted below. The inspection frequencies are scheduled to properly detect any issues so that repairs can be performed before significant harm occurs.

- Embankment: The entire waste embankment, including top surface and side-slopes, will be inspected for slides, settlement, subsidence, displacement, and cover condition (see below).
- Soil Dike: The soil dike will be inspected for slides, displacement, and erosion.
- Cover: The final cover will be inspected for erosion and for the condition of the vegetated cover, i.e., gaps in vegetation or presence of undesirable trees or brush. The integrity of the cover drainage system will also be inspected.
- Final Cover Surface: The Final Cover surface will be inspected for any ponding of water or flat areas.
- Surface Drainage System: The surface drainage system, including channels, culverts, slope drains, etc., will be inspected for erosion, integrity of channel lining, ponding, and accumulated sediment.

- Main Leachate Collection Piping: The main discharge pipes of the Leachate Collection System at the Leachate Collection Pond will be inspected for clogging or damage. Other exposed portions of the Leachate Collection System including cleanouts will be inspected for damage. Similarly, the Leachate Collection Pond will be inspected for general damage to the pond and perimeter berms, and for accumulation of sediment in the pond.

Maintenance during the post-closure care period will be performed as discussed below, based upon the facility inspections described above.

- Security Control Devices: Any portions of the roadway barricades which might be damaged will be repaired or replaced as necessary.
- Erosion Damage Repair: Any areas exhibiting erosion will be repaired by replacing and compacting the material in-kind to design grade/specifications, and reseeding the area to the specifications. Applications of additional fertilizer, selective herbicides, rodent control measures, etc. will be implemented as necessary. In the selection of fertilizers and herbicides, ensure their use will not impact the groundwater negatively. Follow-up monitoring of the repaired area will be conducted to ascertain the integrity of the repair.
- Settlement, Subsidence, Displacement: Any areas at the closed site exhibiting evidence of settlement, subsidence, or displacement will be examined to determine the cause of the movement. If backfilling or placing additional fill material is needed to maintain the integrity of the closed structure, it will be performed in accordance with the site/closure specifications, including seeding. If the condition reoccurs or persists, or if the severity of the condition initially is judged to warrant it, a detailed investigation of the cause will be performed and appropriate remedial action will be performed. Similarly, any areas of the soil dike exhibiting sliding, displacement, or seepage will be investigated. Repairs will be made as necessary. Follow-up monitoring of the area will be performed to ascertain that the problem has been corrected.
- Closure Cap Surface: Any areas that show signs of ponding water or flat contours will be examined and rectified.
- Surface Water Drainage System: The channel linings are designed to withstand the design velocities. Maintenance of the surface water drainage system will consist of removing sediment and/or undesirable vegetation from the surface water runoff control system (channels and culverts) as required. Eroded areas will be repaired by back-filling and reseeding according to the specifications. Damage to culverts will be repaired; structure replacement will be performed if needed.
- Leachate Collection System: Maintenance of the leachate collection system, collection sump, and leachate pumps will consist of repairing and/or replacing in-kind any damaged or eroded portions of the system and pond, cleaning pipes, and removing leachate and sediment from the collection sump and the Leachate Collection Pond, as needed.

3.2 SECTION 275.104(b)(3)

[Maintaining the groundwater monitoring system and monitoring the groundwater in accordance with the requirements of §§257.90 through 257.98.]

The groundwater monitoring system will be inspected for the general integrity of the wells, well casings and well protective casings. Any damaged portions of the monitoring wells and/or their protective casings will be replaced in-kind.

Monitoring the groundwater will be in accordance with the groundwater monitoring plan for this facility and in accordance with the requirements of §§257.90 through 257.98.

4.0 POST-CLOSURE CONTACT 275.104 (d)(1)(ii)

[The name, address, telephone number and email address of the person or office to contact about the facility during the post-closure care period.]

The name, address, and telephone number of the person to contact about the Facility during the post-closure period shall be provided upon notice of closure.

5.0 POST-CLOSURE PLANNED USE 275.104 (d)(1)(iii)

[A description of the planned uses of the property during the post-closure period. Post-closure use of the property shall not disturb the integrity of the final cover, liner(s), or any other component of the conatainment system, or the function of the monitoring systems unless necessary to comply with the requirements in this subpart...]

The post-closure use of the property will be undisturbed vacant land space. The only activities occurring on the closed CCR unit will be related to the Post-Closure care activities.

ATTACHMENT A

Post Closure Care Plan from approved landfill permit

Section 9d
Final Closure/Post Closure Care Plan
OAC 3745-30-05 (C)(9)(d)

**PERMIT-TO-INSTALL APPLICATION
CONESVILLE GENERATION STATION
RESIDUAL WASTE LANDFILL
COSHOCTON COUNTY, OHIO**

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Revised: January 2009

TABLE OF CONTENTS

I.	INTRODUCTION.....	1
II.	FINAL CLOSURE	1
	A. APPLICABILITY	1
	1. Facility Location	1
	2. Variances/Exemptions.....	1
	3. Facility Contacts	1
	4. Plan and Detail Drawings	2
	5. Clay Resources	2
	6. Quality Assurance/Quality Control Plan.....	3
	7. Explosive Gas Monitoring.....	3
	8. Explosive Gas Control Systems	3
	9. Erosion Control.....	3
	B. PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT.....	3
	C. MANDATORY CLOSURE	3
	D. NOTIFICATION OF CLOSURE	4
	E. ACTUAL DATE OF CLOSURE.....	4
	F. FINAL CLOSURE ACTIVITIES.....	4
	G. FINAL CLOSURE SCHEDULE.....	5
	H. FINAL CLOSURE CERTIFICATION.....	5
	I. FACILITY INSPECTION.....	5
III.	POST-CLOSURE CARE.....	6
	A. DURATION.....	6
	B. DURATION MODIFICATION.....	6
	C. POST-CLOSURE CARE ACTIVITIES	6
	D. POST-CLOSURE CERTIFICATION.....	7
	E. FACILITY INSPECTION.....	7

Appendix A: Financial Assurance Information

III. POST-CLOSURE CARE

A. DURATION

Post-closure care activities will begin upon submittal of the final closure certification and will continue for a period of fifteen years unless shortened or extended in accordance with OAC 3745- 30-10(B).

B. DURATION MODIFICATION

It is understood that the post-closure care period may be shortened or lengthened at the discretion of the OEPA based on the characteristics of the site and findings of monitoring systems.

C. POST-CLOSURE CARE ACTIVITIES

Post-closure care activities will include, at a minimum, the following items.

1. Continued operation and maintenance of the leachate management system, the surface water management system, and the groundwater monitoring program;
2. Maintenance of the final cap system including: repairs to settlement, subsidence, and erosion; maintaining a satisfactory vegetative cover; elimination of ponding; and, preventing run-on and runoff from eroding the cap system.
3. Monitoring for leachate outbreaks and repairing any outbreaks in accordance with the procedures described in the Operations Information included as Section 8 of this PTI Application;
4. Completing quarterly inspections and submittal of the findings to the OEPA with 15 days of completion of the inspections. The inspection report will document the nature and extent of any problem areas identified, as well as provide an estimated starting and completion date for required corrective measures to be taken. The inspections will specifically address Items 2 and 3 listed above.
5. Completion of Groundwater Monitoring as detailed in Section 9a of this PTI Application;
6. Submittal of an annual Post-Closure Care Report to the OEPA to include the items described in OAC 3745-30-10(C)(6). The report would be submitted by April 1st of each year; and,
7. Maintaining the records generated by Items 4 through 6 above at the first facility listed in Part II.A.3. of this document.

In addition to the quarterly inspection reports described above, the facility will continue to monitor and report surface water discharges during the post-closure care period in accordance with the facility's NPDES permit.

D. POST-CLOSURE CERTIFICATION

At the end of the post-closure care period a Post-Closure Certification report will be prepared and sealed by a Professional Engineer registered in the State of Ohio. The report will be submitted to the OEPA and will certify that the post-closure care was completed in accordance with this document. The report will include documentation that the activities described in this document have been completed.

E. FACILITY INSPECTION

Access to the facility during the post-closure care period will be made to the OEPA and the Coshocton County Health Department.