DRAFT

OHIO ENVIRONMENTAL PROTECTION AGENCY

PERMIT TO INSTALL

Application Number:	06-08442
Application Received:	February 5, 2009
Permit Fee:	$49,921.06
Permit Fee Balance:	$49,521.06
Applicant:	Columbus Southern Power (a unit of American Electric Power)
Address:	1 Riverside Plaza Columbus, Ohio 43215
Facility:	Conesville Residual Waste Landfill
Location:	The facility is located approximately 1000 feet southeast of the intersection of State Route 83 and Coshocton County Road 275.
Permit:	Lateral and Vertical Expansion
Issuance Date:	FEB 0 2 2010
Effective Date:	

The above-named entity is hereby issued a permit to install (permit) for the above-described source pursuant to Ohio Administrative Code (OAC) Rule 3745-27-02. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed and/or modified in accordance with the plans, specifications and/or information accompanying the permit application, the above-described source of environmental pollutants will operate in compliance with applicable state and federal laws, rules, and regulations, and does not constitute expressed or implied assurances that, if constructed and/or modified in accordance with those plans, specifications, and/or information accompanying the permit application, the above-described source of environmental pollutants will be granted the necessary operating permits and/or licenses. This permit is issued subject to the attached conditions which are hereby incorporated and made a part hereof.

Ohio Environmental Protection Agency

Chris Korleski, Director

PERMIT SUMMARY

This is a DRAFT permit (PTI Number 06-08442) which, if issued as a final permit, authorizes lateral and vertical expansion of the approved limits of waste placement at the existing Conesville Residual Waste Landfill (Facility) located in Coshocton County. Columbus Southern Power (a unit of American Electric Power) is the owner, operator, and applicant.

The Facility currently encompasses ninety-nine (99) lined acres for waste disposal with an approved capacity of approximately 15.5 million cubic yards. The PTI application proposes a lateral expansion area of twenty-one (21) acres and a vertical expansion area of seventeen (17) acres over existing waste. The proposed expansion volume is approximately 5.0 million cubic yards. This expansion would result in a Facility area of approximately 120 acres and a volume of approximately 20.5 million cubic yards. Based on this volume and current waste acceptance, the proposed expansion will provide an additional 3.5 years to the anticipated life of the Facility.

The landfill's design includes isolation material, a composite (clay/geosynthetic membrane) liner system, a leachate collection system, a surface water management system, a ground water monitoring system, and a final closure cap system. The permit also incorporates 15 years of post-closure care and financial assurance for closure and post-closure care.

This permit also grants Columbus Southern Power an exemption from OAC Rule 3745-30-07(C)(3)(f)(iv), which requires that leachate pipelines be double-cased outside of the limits of solid waste placement.

This summary is provided solely for informational purposes and does not constitute a part of, or otherwise affect, the attached permit.

PERMIT CONDITIONS

1. The director of the Ohio Environmental Protection Agency (Ohio EPA), or an authorized representative, may enter upon the premises of the above-named applicant (permittee) at any reasonable time during construction and operation for the purpose of making inspections, conducting tests, or examining records or reports pertaining to the construction, modification, or installation of the above-described source of environmental pollutants (residual solid waste disposal facility).

2. The Facility shall be constructed in strict accordance with the plans, specifications, and information submitted as part of the application for this permit. There may be no deviation from the approved plans without the express, written approval of Ohio

EPA. Any deviation from the approved plans or the permit conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the Facility will operate in compliance with all Ohio laws and regulations. Additional landfill components shall be installed upon orders of Ohio EPA if the Facility is inadequate or cannot meet applicable standards.

3. Issuance of this permit does not relieve the permittee of the duty to comply with all applicable federal, state, and local laws, ordinances, and regulations.

4. This permit shall apply only to those facilities shown on the plans submitted as part of PTI Application Number 06-08442 received on February 5, 2009, with subsequent revisions received on July 23, 2009 and October 30, 2009.

5. This permit may be modified, or alternatively revoked and reissued, to comply with any revisions to OAC Chapter 3745-30 applicable to this residual solid waste disposal facility.

6. The permittee shall provide for the proper maintenance and operation of the residual solid waste disposal facility in accordance with the provisions of OAC Chapter 3745-30.

7. Nothing in this permit shall be construed to authorize any waiver from the requirements of any applicable federal or state laws or regulations except as specified herein. This permit shall not be interpreted to release the permittee from responsibility under Ohio Revised Code (ORC) Chapters 3704, 3714, 3734, or 6111; under the Federal Clean Water Act, the Resource Conservation and Recovery Act, or the Comprehensive Environmental Response, Compensation, and Liability Act; or from other applicable requirements for remedying conditions resulting from any release of contaminants to the environment.

8. This permit does not authorize the acceptance of any hazardous or infectious wastes.

9. This permit does not authorize the acceptance of any asbestos or asbestos-containing waste material that is subject to the provisions of NESHAP, 40 CFR Part 61, Subpart M. No such asbestos or asbestos-containing waste material may be accepted without first obtaining the necessary permits from Ohio EPA.

10. Not later than seven days prior to starting any construction authorized under this permit, the permittee shall submit to Ohio EPA, Division of Solid and Infectious Waste Management (DSIWM), Southeast District Office (SEDO) and the Coshocton

County Health Department written notification of the anticipated construction start date, so that construction of this Facility can be routinely inspected by Ohio EPA, DSIWM, SEDO and the Coshocton County Health Department before being placed into operation.

11. The permittee shall perform the following activities during construction and operation of the Facility in accordance with the cited provisions of OAC Chapter 3745-30 as follows:

    a. The test pad required by OAC Rule 3745-30-07(F)(1) shall be constructed, as necessary, and a report containing the test results shall be submitted to Ohio EPA, DSIWM, SEDO not later than 14 days prior to the initial construction date of the landfill component that the test pad models. Each lift of the test pad shall be tested for the maximum dry density and optimum moisture content according to ASTM D698-00a (standard proctor) or ASTM D1557-00 (modified proctor), for grain size distribution using ASTM D422-63 (sieve and hydrometer), and for Atterberg limits using ASTM D4318-00. The test methods above shall be performed at least twice for each lift of the test pad.

    b. The pre-construction tests required by OAC Rule 3745-30-07(D) shall be performed and the test results submitted to Ohio EPA, DSIWM, SEDO not later than seven days prior to the intended use of the materials in construction.

12. In accordance with the plans, specifications, and information submitted as part of the application for this permit, the permittee shall raise the East Sedimentation Pond embankment to a minimum elevation of 810.0 feet and the East Sedimentation Pond emergency spillway to a minimum elevation of 808.5 feet. Reconstruction of the East Sedimentation Pond embankment and emergency spillway shall occur prior to, or concurrent with, the certification of the Phase G bottom liner system.

13. The construction certification report required by OAC Rule 3745-30-07(B) shall be submitted to Ohio EPA, DSIWM, SEDO and the Coshocton County Health Department not later than 45 days prior to the anticipated date of waste receipt. Pursuant to OAC Rule 3745-30-14(C)(1), the permittee shall not accept waste in a phase until Ohio EPA, DSIWM, SEDO provides written concurrence of the construction certification report for that phase.

14. The permittee shall provide for the following inspections and facility maintenance:

    a. The permittee shall provide for daily inspection of the disposal facility. Written results of the inspections, including any corrective measures employed, shall

be made available to Ohio EPA or the Coshocton County Health Department upon request.

b. Surface water control structures, including sedimentation ponds, sedimentation pond discharge structures, pipes, ditches, and culverts, shall be inspected at least monthly for erosion, clogging, or failure and prompt corrective action shall be taken, if necessary. Written results of the inspections, including a discussion of any corrective measures taken, any water quality samples taken, and the date and weather conditions, shall be recorded on the required daily log forms. The information shall be maintained on site and submitted to Ohio EPA, SEDO and the Coshocton County Health Department, upon request.

c. To ensure proper operation of the sedimentation ponds, the ponds shall be cleaned out completely annually or when the volume of the settled particles necessitates cleaning based either on inspection results or to maintain the storage volume required by OAC Rule 3745-30-07(C)(4).

15. Protective cover material and granular drainage layer material shall be placed from the bottom of the slope to the top of the slope and not across the slope or down the slope on all slopes that exceed a grade of 15 percent.

16. The permittee shall fund a new financial assurance instrument or increase the amount listed on the existing financial assurance instrument in accordance with OAC Rules 3745-27-15, 3745-27-16, and 3745-27-17 for the current cost estimates of the facility, including the costs for the newly authorized disposal area. Funding shall be completed prior to waste acceptance in any disposal area newly authorized by this permit to install.

END OF PERMIT CONDITIONS

ORC Section 3734.02(G) Exemption from OAC Rule 3745-30-07(C)(3)(f)(iv)

The permittee has requested an exemption from OAC Rule 3745-30-07(C)(3)(f)(iv), which requires that leachate pipelines be double-cased outside of the limits of solid waste placement.

All leachate pipelines at the Facility outside the limits of waste placement are to be 18-inch, non-perforated, SDR-9, HDPE pipe with segments joined by butt-welding. The specified pipe is the same pipe used for sewer, gas, and oil pipelines, which are all typically single walled pipelines. At the time of installation, all pipelines will be gravity pressure tested at low-head and visually examined prior to backfilling to verify no leakage, and the pipe will be inspected upon placement of protective cover to confirm that no damage has occurred. The leachate pipelines will be installed on a grade allowing passive (gravity) flow and as a result will not be pressurized. The permit application calculations demonstrate adequate factors of safety based on pipe strength calculations. The predicted leachate concentrations are expected to meet primary drinking water standards with the possible exception of arsenic. All storm water runoff from the active waste disposal areas will be conveyed through the leachate collection system. Also, all leachate pipelines are within the area covered by the Facility's ground water monitoring system. The proposed leachate pipelines will adequately contain and convey leachate outside the limits of residual solid waste placement.

Pursuant to ORC Section 3734.02(G), the director may, by order, exempt any person generating, collecting, storing, treating, disposing of, or transporting solid wastes, or processing solid wastes that consist of scrap tires, in such quantities or under such circumstances that, in the determination of the director, are unlikely to adversely affect the public health or safety or the environment from any requirement to obtain a registration certificate, permit, or license or comply with other requirements of ORC Chapter 3734.

For the reasons noted above, the proposed leachate pipelines will adequately contain and convey leachate outside the limits of solid waste placement, and granting an exemption from OAC Rule 3745-30-07(C)(3)(f)(iv) is unlikely to adversely affect the public health or safety or the environment. Therefore, pursuant to ORC Section 3734.02(G), the permittee is hereby granted an exemption from OAC Rule 3745-30-07(C)(3)(f)(iv), which requires that leachate pipelines be double-cased outside of the limits of solid waste placement. This exemption shall remain in effect throughout the effective period of this permit unless otherwise revoked.