



**ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING**

**A.B. BROWN GENERATING STATION
TYPE III RESTRICTED WASTE LANDFILL**

POST-CLOSURE PLAN

ATC PROJECT NO. 170LF00265

OCTOBER 7, 2016

PREPARED FOR:

VECTREN CORPORATION
A.B. BROWN GENERATING STATION
8511 WELBORN ROAD
MOUNT VERNON, INDIANA 47620
ATTENTION: MS. LISA MESSINGER



October 7, 2016

Ms. Lisa Messinger
Director of Environmental Affairs
1 Vectren Square
Evansville, IN 47702

ATC Group Services LLC

7988 Centerpoint Dr.
Suite 100
Indianapolis, IN 46256

Phone +1 317 849 4990
Fax +1 317 849 4278

www.atcgroupservices.com

Re: Post-Closure Plan
A.B. Brown Generating Station
Type III Restricted Waste Landfill
Mount Vernon, Indiana
ATC Project No. 170LF00265

Dear Ms. Messinger:

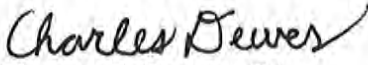
ATC Group Services LLC (ATC) is pleased to provide the following Post-Closure Plan for the A.B. Brown Generating Station Type III Restricted Waste Landfill. Contained herein is a copy of the report which summarizes the compliance of the landfill post-closure plan with requirements of 40 C.F.R. Part 257, Subpart D.

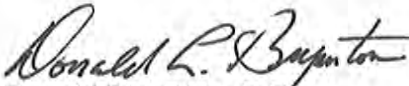
A summary of the landfill post-closure maintenance requirements, narrative of post-closure monitoring activities, and engineering certification are included with this plan.

We appreciate the opportunity to assist you with this project. If you have any questions concerning information contained in this report, please do not hesitate to call either of the undersigned at 317.849.4990.

Sincerely,

ATC Group Services LLC


Charles P. Dewes, E.I.
Project Engineer


Donald Bryenton, P.E.
Principal Engineer

Copies: (4) Lisa Messinger

Prepared for:

SOUTHERN INDIAN GAS AND ELECTRIC COMPANY
dba VECTREN POWER SUPPLY, INC

A.B. BROWN GENERATING STATION
TYPE III RESTRICTED WASTE LANDFILL

POST-CLOSURE PLAN

A.B. Brown Generating Station
8511 Welborn Road
Mount Vernon, Indiana 47620

OCTOBER 7, 2016

Prepared by:



7988 Centerpoint Drive, Suite 100
Indianapolis, Indiana 46256

ENGINEERING CERTIFICATION

I, Donald L. Bryenton, being a registered Professional Engineer of the State of Indiana, do hereby certify to the best of my knowledge, information, and belief, that the information contained in this Post-Closure Plan dated October 7, 2016 was conducted in accordance with the requirements of 40 C.F.R. § 257.104, is true and correct, and has been prepared in accordance with recognized and generally accepted good engineering practices.

SIGNATURE:

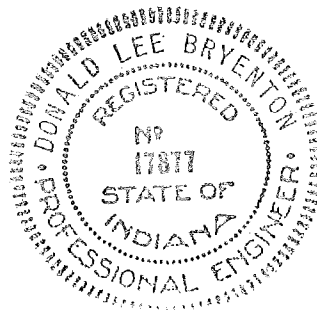
Donald L. Bryenton

DATE:

10/7/16

ADDRESS:

ATC Group Services LLC
7988 Centerpoint Drive, Suite 100
Indianapolis, Indiana 46256



I. Introduction

The A.B. Brown Generating Station (A.B. Brown) Type III Restricted Waste Landfill is located near West Franklin in Posey County, Indiana. The A.B. Brown Landfill receives coal combustion residual (CCR) materials that are regulated by the Federal CCR Rule at 40 CFR §257.104 and Indiana Administrative Code (IAC) 329.

This Post-Closure Plan, which was prepared in accordance 40 CFR §257.104 includes the following information:

- (i) A description of the monitoring and maintenance activities for the CCR unit, and the frequency at which these activities will be performed.
- (ii) The name, address, telephone number and e-mail address of the person or office to contact about the facility during the post-closure care period; and
- (iii) A description of the planned uses of the property during the post-closure period.

The Post-Closure Plan outlined below will be updated periodically in the case of significant changes in plant operations related to use of the CCR unit or after commencement of closure in the case of unexpected events. The following table summarizes the documentation required within the CCR rule and the sections of the plan that specifically respond to those sections

| Report Section | Title | CCR Rule Reference |
|----------------|----------------------------|----------------------|
| II. | Final Cover | §257.104 (b)(1) |
| III. | Leachate Collection | §257.104 (b)(2) |
| IV. | GW Monitoring System | §257.104 (b)(3) |
| V. | Monitoring and Maintenance | §257.104 (d)(1)(i) |
| VI. | Facility Contact | §257.104 (d)(1)(ii) |
| VII. | Post Closure Property Use | §257.104 (d)(1)(iii) |

II. Final Cover

Maintenance of the integrity and effectiveness of the final cover system will be considered paramount in the post-closure care period. Regular inspections through a biannual monitoring program of the final cover slope and perimeter will be used to detect potential problems such as settlement, subsidence, desiccation cracks, or erosion. Deficiencies noted in the inspection process will be recorded, analysed to find the underlying cause, and corrected.

The protective vegetative cover will be maintained by regular mowing that occurs biannually during the required 30-year post-closure maintenance period. The vegetative cover will be amended and fertilized as needed. Depressions that pond water will be filled and revegetated and bare areas in the vegetative cover will be reseeded. Deep-rooted, woody vegetation which threatens the structural integrity of the slope or underlying final cover system will be removed.

III. Leachate Collection System

40 CFR §257.70 does not apply to the A.B. Brown Landfill. Therefore, this unit does not have a leachate collection and removal system.

IV. Groundwater Monitoring

The groundwater monitoring system includes a total of seven monitoring wells. Groundwater monitoring will be performed semi-annually (or as required) during the post-closure care period. The results of each monitoring event will be reported in accordance with the Groundwater Monitoring Plan. In addition, personnel will also inspect and maintain the proper functioning of groundwater well components including but not limited to pumps, protective casings, well caps, seals, and locks. Non-functioning components will be replaced as needed.

V. Monitoring and Maintenance

A Run-On Run-Off Control System (ROROCS) will be in place during the post-closure care period. The ROROCS system will consist of various drainage control structures including diversion berms, downdrain riprap channels, downdrain pipes, and a perimeter ditch network designed to convey surface water away from the closure area and route to sedimentation and stormwater ponds at the west end of the landfill. Implementation of the ROROCS will prevent ponding of water on the closed final cover.

Routine maintenance of the ROROCS will include biannual visual inspection of diversion berms, downdrain inlets and outlets, and channels. Any observed erosion damage to the system will be repaired with the necessary grading work and channels, pipes, and ponds will be restored if excessive sedimentation, clogs or deterioration occurs.

VI. Facility Contact Information

Facility: A.B. Brown Type III Restricted Waste Landfill

**Solid Waste
Permit Number:** 65-07

Address: A.B. Brown Generating Station
8511 Welborn Road
Mount Vernon, Indiana 47620

Location: Approximately 9 miles southeast of Mount Vernon, IN in Posey County.

Contact Person: The appropriate contact person will be determined at the time post-closure commences.

Telephone Number: TBD

VII. Post-Closure Property Use

No post-closure use is anticipated at this time. Access to the area will be limited and controlled by the A.B Brown Station.