



**2022 FUGITIVE DUST CONTROL REPORT  
AES INDIANA PETERSBURG GENERATING STATION  
6925 NORTH STATE ROAD 57  
PETERSBURG, INDIANA 47567**

ATLAS PROJECT NO. 170LF01358

DECEMBER \_\_, 2022

PREPARED FOR:

AES INDIANA  
6925 NORTH STATE ROAD 57  
PETERSBURG, INDIANA 47567

ATTENTION: MR. WIL TEAGUE



December 22, 2022

Mr. Wil Teague  
Senior Scientist  
AES Indiana  
6925 North State Road 57  
Petersburg, Indiana 47567-0436

Atlas Technical Consultants

7988 Centerpoint Dr.  
Suite 100  
Indianapolis, IN 46256

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

[www.oneatlas.com](http://www.oneatlas.com)

**Re: 2022 Fugitive Dust Control Report  
Petersburg Generating Station  
AES Indiana  
Petersburg, Indiana  
Atlas Project No. 170LF01358**

Dear Mr. Teague:

Atlas Technical Consultants is pleased to present the 2022 Fugitive Dust Control Report for the AES Indiana Petersburg Generating Station. This report was prepared to document the dust control measures, describe the effectiveness of the measures, and to identify any citizen complaints related to dust problems.

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,  
**Atlas Technical Consultants**

A handwritten signature in black ink, appearing to read "Bill Paraskevas". The signature is fluid and cursive, written over a light blue horizontal line.

Bill Paraskevas, P.E.  
Principal Engineer

Copies: Wil Teague

Attachments:  
2022 Fugitive Dust Monitoring Summary Report

**2022 Fugitive Dust Control Report  
AES Petersburg Generating Station  
Petersburg, Indiana  
December 2022**

Prepared for: AES Indiana,  
6925 N. State Road 57, Petersburg, Indiana 47567  
Prepared by: Atlas Technical Consultants,  
7988 Centerpoint Drive, Indianapolis, Indiana 46256

**Table of Contents**

<b>Section</b>	<b>Page</b>
<b>1.0 Introduction</b> .....	<b>1</b>
<b>1.1 Purpose of this Report</b> .....	<b>1</b>
<b>1.2 Station Description</b> .....	<b>1</b>
<b>1.3 Sources of Fugitive Dust</b> .....	<b>1</b>
<b>2.0 Monitoring</b> .....	<b>2</b>
<b>2.1 Frequency of Monitoring</b> .....	<b>2</b>
<b>2.2 Monitoring Methods</b> .....	<b>2</b>
<b>2.3 Control Measures</b> .....	<b>2</b>
<b>3.0 Control Fugitive Dust</b> .....	<b>3</b>
<b>4.0 Record of Citizen Complaints</b> .....	<b>3</b>
<b>5.0 Summary of Any Corrective Measures Taken</b> .....	<b>3</b>

**Appendix**

**A. 2022 Fugitive Dust Monitoring Report**

## **1.0. INTRODUCTION**

### **1.1. PURPOSE OF THIS REPORT**

The purpose of this report is to document the incidents of fugitive dust and the actions taken to control the fugitive dust at the Petersburg Generating Station during 2022. The report has been prepared to meet the requirements of 40 CFR Part 257, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule April 17, 2015.

### **1.2. STATION DESCRIPTION**

The Petersburg Generating Station is located approximately 4 miles east-northeast of Petersburg in Pike County, Indiana. The generating station consists of four coal-fired units. Units 1, 3, and 4 are equipped with electrostatic precipitators (ESP) for particulate control. Unit 2 has a baghouse for particulate control. Each unit is equipped with a wet flue gas desulfurization (FGD) system for sulphur dioxide (SO<sub>2</sub>) control. Coal combustion residuals (CCR) waste product was also placed as structural fill in Ash Ponds A and A' in 2022 as part of the closure plan for said basins.

The combustion by-products of coal are bottom ash, fly ash, and FGD waste. Bottom ash is sluiced to dewatering bins. Fly ash is conveyed via a dry ash handling system to storage silos. Depending on the quantity of fly ash, it may be loaded onto tanker trucks and enclosed trailers for beneficial use, or it may be loaded onto trucks and sent to an on-site landfill or an off-site facility.

The wet FGD systems use limestone to reduce Sulphur Dioxide and produce FGD by-product. The FGD systems for Units 1, 2, and 4 produce gypsum, the majority of which is trucked off site for beneficial use. The FGD for Unit 3 produces a by-product that is mixed with fly ash and used as structural fill for the closure of Ash Ponds A and A'.

### **1.3. SOURCES OF FUGITIVE DUST**

Primary sources of fugitive dust at the Petersburg Generating Station include:

- Small spills of fly ash and bottom ash around pipes and other equipment
- Equipment malfunction
- Small amounts of fly ash generated by unloading fly ash from silos into trucks and railcars
- Trucks carrying fly ash and FGD by-product traveling on plant roads
- Trucks carrying fly ash and FGD by-product depositing material in the landfill
- Active portions of CCR landfill

- Dried portions of the settling ponds
- CCR placement as structural fill in the ash ponds in preparation of pond closure in-place.

## **2.0. MONITORING**

### **2.1. FREQUENCY OF MONITORING**

Fugitive dust is monitored daily as part of normal plan operations.

### **2.2. MONITORING METHODS**

Fugitive dust is monitored visually. Action levels are implemented as weather conditions, road conditions, and source conditions warrant. Areas of the Petersburg Generating Station monitored include:

- FGD limestone and gypsum storage areas
- Material handling systems
- Plant roadways and parking areas
- Landfill
- Ash settling ponds

### **2.3. CONTROL MEASURES**

The CCR handling equipment is designed to minimize dust.

Bottom ash is sluiced with water and piped to dewatering bins. The sluice water facilitates bottom ash handling and reduces the amount of dust that may be generated. Dewatered bottom ash can then be loaded onto trucks and sold to cement manufacturers for beneficial use.

Fly ash is conveyed via a dry handling system to storage silos. The conveyor system has enclosures installed at drop points on the system to reduce fugitive dust emissions. The fly ash silos employ baghouses to control fugitive dust emissions. The fly ash is conditioned with wet FGD byproduct and loaded onto trucks for transportation to Ash Ponds A and A' as part of the in-place closure of this facility. Conditioning ash with wet FGD byproduct facilitates ash handling and reduces dust generation. Fly ash may be loaded onto tanker trucks or enclosed railcars for beneficial use. Transfer operations are monitored by station personnel to prevent or minimize fugitive dust emissions.

The wet FGD systems for Units 1, 2, and 4 produce gypsum which is stored in a covered building. The building reduces the amount of fugitive dust that may be generated. The gypsum is used as structural fill for the closure in-place of the ash ponds. The FGD for Unit 3 produces a byproduct that is used to condition the fly ash. The conditioned material is loaded onto trucks for transport to an on-site landfill or an off-site facility for disposal. The trucks are covered with tarps to reduce fugitive dust.

The speed limit is 15 mph on plant roads and parking lots. Reduced speed limits at the site minimize fugitive dust. In 2022, all portions of the landfill had a vegetative cover. No ash was deposited in the landfill over the past year.

Frequent inspections of piping and other CCR handling equipment at the plant and routine preventative maintenance help to minimize fugitive dust emissions.

### **3.0. CONTROL OF FUGITIVE DUST**

Controlling fugitive dust at the Petersburg Generating Station is performed in accordance with the CCR Fugitive Dust Control Plan dated October 12, 2015.

Control measures such as watering, street sweeping, housekeeping, reduced speed limits, and covered trucks are used throughout the year to control fugitive dust.

### **4.0. RECORD OF CITIZEN COMPLAINTS**

There have been no citizen complaints in 2022 about fugitive dust.

### **5.0. SUMMARY OF ANY CORRECTIVE MEASURES TAKEN**

A summary fugitive dust monitoring report for 2022 is included in Appendix A. As stated in the Report, no fugitive dust crossed the property line during any of the events listed. The report lists the description of fugitive dust source, the correction actions taken, and the results of the actions.

**Appendix A: 2022 Fugitive Dust Monitoring Summary Report**

2022

## Fugitive Dust Monitoring Reports

Date	Time	Description of fugitive dust source	Observer	Corrective action taken and results of the action
1/18/22	0534	Precip. Hopper	C. Burton	Fix Hopper
2/2/22	0722	Knife Gate Valve	M. Gadlage	Fix Valve Packing
2/14/22	1732	3-2 Pulverizer	R. Sablone	Patch Hole in Pulverizer
2/16/22	1722	Air Ash Separator	R. Sablone	Patch Hole
3/11/22	0527	Filter Separator	C. Supp	Repair Separator
3/27/22	1727	Ash Line	R. Sablone	Patch Line
4/7/22	1735	Ash Line	R. Sablone	Patch Line
6/4/22	0513	Ash Hopper Doors	C. Burton	Fix Door Seals
6/9/22	0523	Ash Line	C. Burton	Replace Expansion Joint
6/18/22	0827	Ash Line	A. Rillo	" "
7/6/22	0749	Ash Hoppers	M. Gadlage	Repair Valve Gasket
7/11/22	1248	Ash Line	T. Meadows	Fix Flange
7/16/22	0732	" "	R. Sablone	Repair Line
7/31/22	0511	" "	J. Johnson	Repair Line
8/11/22	1717	" "	R. Sablone	" "
8/15/22	0757	Ash Silage EVCS	T. Hunter	Operational Changes
8/21/22	1748	Ash Separator	J. McCallon	Patch
9/13/22	1216	Precip. Hopper	" "	Replace Expansion Joint
9/21/22	1749	Ash Line	J. Johnson	Replace "T"
10/18/22	0746	Reheat Spray Syph Line	M. Smith	Repair Line
11/3/22	1903	Ash Line	D. Foley	" "
11/5/22	1732	Ash Line	R. Sablone	" "

No Fugitive Dust Crossed  
the Property Line During  
any of the above listed  
events.



