

West Virginia Department of Environmental Protection

Division of Air Quality

*Randy C. Huffman
Cabinet Secretary*

Permit to Construct



R13-2852

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45 C.S.R. 13 — Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation. The permittee identified at the facility listed below is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

Issued to:

Carbonyx International USA, Inc.
Ravenswood Facility
035-00048

*John A. Benedict
Director*

Issued: DRAFT • Effective: DRAFT

Facility Location: Ravenswood, Jackson County, West Virginia
Mailing Address: 1255 W 15th St. Suite 320
Plano, TX 75075
Facility Description: 1,000,000 ton per year "cokonyx" manufacturing facility.
SIC Codes: 2999
UTM Coordinates: 427.93 km Easting • 4,307.67 km Northing • Zone 17
Permit Type: Construction

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

As a result of the granting of this permit, the source is a nonmajor source subject to 45CSR30. The permittee shall apply for a Title V (45CSR30) permit in accordance with the requirements of 45CSR30 unless granted a deferral or exemption by the Director from such filing deadline pursuant to a request from the permittee.

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1.0 Emission Units

| Emission Unit ID | Emission Point ID | Emission Unit Description | Year Installed | Design Capacity | Control Device |
|-------------------|-------------------|-----------------------------|----------------|-----------------|----------------|
| 'MODULE A' | | | | | |
| 1A-S | 1A-E | Coal Dryer #1 | 2011 | 50 tons/hr | BH |
| 2A-S | 2A-E | Coal Dryer #2 | 2011 | 50 tons/hr | BH |
| 3A-S | 3A-E | Dried Coal Crusher #1 | 2011 | 50 tons/hr | BH |
| 4A-S | 4A-E | Dried Coal Crusher #2 | 2011 | 50 tons/hr | BH |
| 5A-S | 5A-E | Feed Enhancement Reactor #1 | 2011 | 6 tons/hr | AB, SCRUB & BH |
| 6A-S | 6A-E | Feed Enhancement Reactor #2 | 2011 | 6 tons/hr | AB, SCRUB & BH |
| 7A-S | 7A-E | Feed Enhancement Reactor #3 | 2011 | 6 tons/hr | AB, SCRUB & BH |
| 8A-S | 8A-E | Feed Enhancement Reactor #4 | 2011 | 6 tons/hr | AB, SCRUB & BH |
| 9A-S | 9A-E | Carborec Crusher | 2011 | 40 tons/hr | BH |
| 10A-S | 10A-E | Blend 2 Crusher | 2011 | 30 tons/hr | BH |
| 11A-S | 10A-E | Blend 2 Crusher | 2011 | 30 tons/hr | BH |
| 12A-S | 10A-E | Blend 2 Crusher | 2011 | 19 tons/hr | BH |
| 13A-S | 11A-E | Particle Fusion Reactor #1 | 2011 | 19 tons/hr | AB, SCRUB & BH |
| 14A-S | 12A-E | Particle Fusion Reactor #2 | 2011 | 19 tons/hr | AB, SCRUB & BH |
| 15A-S | 13A-E | Liquid Additive Tank | 2011 | 10,000 gal | None |
| 16A-S | 14A-E | Liquid Additive Tank Heater | 2011 | 0.5 mmbtu/hr | None |
| 17A-S | 15A-E | Wet Coal Feed Bin #1 | 2011 | 15 tons/hr | BH |
| 18A-S | 15A-E | Wet Coal Belt Scale #1 | 2011 | 50 tons/hr | BH |
| 19A-S | 15A-E | Wet Coal Feed Belt #1(a) | 2011 | 50 tons/hr | BH |
| 20A-S | 15A-E | Wet Coal Feed Belt #1(b) | 2011 | 50 tons/hr | BH |
| 21A-S | 15A-E | Wet Coal Screener #1 | 2011 | 50 tons/hr | BH |
| 22A-S | 16A-E | Wet Coal Feed Bin #2 | 2011 | 10tons/hr | BH |
| 23A-S | 16A-E | Wet Coal Belt Scale #2 | 2011 | 50 tons/hr | BH |
| 24A-S | 16A-E | Wet Coal Feed Belt #2(a) | 2011 | 50 tons/hr | BH |
| 25A-S | 16A-E | Wet Coal Feed Belt #2(b) | 2011 | 50 tons/hr | BH |
| 26A-S | 16A-E | Wet Coal Screener #2 | 2011 | 50 tons/hr | BH |
| 27A-S | 17A-E | Dried Coal Feed Bin #1 | 2011 | 240 tons | BH |

1.0 Emission Units

| | | | | | |
|-------------------|-------|-----------------------------|------|-------------|----------------|
| 28A-S | 18A-E | Dried Coal Feed Bin #2 | 2011 | 240 tons | BH |
| 29A-S | 19A-E | Dried Coal Feed Bin #3 | 2011 | 240 tons | BH |
| 30A-S | 20A-E | Dried Coal Feed Bin #4 | 2011 | 240 tons | BH |
| 31A-S | 21A-E | Dried Coal Feed Bin #5 | 2011 | 240 tons | BH |
| 32A-S | 22A-E | Coal Weigh Belt Feeder #1 | 2011 | 20 tons/hr | BH |
| 33A-S | 22A-E | Coal Weigh Belt Feeder #2 | 2011 | 20 tons/hr | BH |
| 34A-S | 22A-E | Coal Weigh Belt Feeder #3 | 2011 | 20 tons/hr | BH |
| 35A-S | 22A-E | Coal Weigh Belt Feeder #4 | 2011 | 20 tons/hr | BH |
| 36A-S | 22A-E | Coal Weigh Belt Feeder #5 | 2011 | 20 tons/hr | BH |
| 37A-S | 22A-E | Blend #1 Drag Conveyor | 2011 | 40 tons/hr | BH |
| 38A-S | 23A-E | Blend #1 Feed Hopper #1 | 2011 | 15 tons | BH |
| 39A-S | 23A-E | Blend #1 Feed Hopper #2 | 2011 | 15 tons | BH |
| 40A-S | 23A-E | Blend #1 Feed Hopper #3 | 2011 | 15 tons | BH |
| 41A-S | 23A-E | Blend #1 Feed Hopper #4 | 2011 | 15 tons | BH |
| 42A-S | 23A-E | Blend #1 Drag Conveyor | 2011 | 40 tons | BH |
| 43A-S | 23A-E | Blend #1 Drag Conveyor | 2011 | 40 tons | BH |
| 44A-S | 24A-E | Blend #2 Drag Conveyor | 2011 | 30 tons/hr | BH |
| 45A-S | 25A-E | Carborec Silo | 2011 | 240 tons | BH |
| 46A-S | 26A-E | Blend #2 Surge Bin | 2011 | 400 tons | BH |
| 47A-S | 27A-E | Emergency Generator 1 | 2011 | 500 kw | BH |
| 48A-S | 28A-E | Coal Storage Pile | 2011 | 375,000 tpy | WS |
| 49A-S | 29A-E | Carbonyx Storage Pile | 2011 | 250,000 tpy | WS |
| 'MODULE B' | | | | | |
| 1B-S | 1B-E | Coal Dryer #1 | 2011 | 50 tons/hr | BH |
| 2B-S | 2B-E | Coal Dryer #2 | 2011 | 50 tons/hr | BH |
| 3B-S | 3B-E | Dried Coal Crusher #1 | 2011 | 50 tons/hr | BH |
| 4B-S | 4B-E | Dried Coal Crusher #2 | 2011 | 50 tons/hr | BH |
| 5B-S | 5B-E | Feed Enhancement Reactor #1 | 2011 | 6 tons/hr | AB, SCRUB & BH |
| 6B-S | 6B-E | Feed Enhancement Reactor #2 | 2011 | 6 tons/hr | AB, SCRUB & BH |
| 7B-S | 7B-E | Feed Enhancement Reactor #3 | 2011 | 6 tons/hr | AB, SCRUB & BH |

1.0 Emission Units

| | | | | | |
|-------|-------|-----------------------------|------|--------------|----------------|
| 8B-S | 8B-E | Feed Enhancement Reactor #4 | 2011 | 6 tons/hr | AB, SCRUB & BH |
| 9B-S | 9B-E | Carborec Crusher | 2011 | 40 tons/hr | BH |
| 10B-S | 10B-E | Blend 2 Crusher | 2011 | 30 tons/hr | BH |
| 11B-S | 10B-E | Blend 2 Crusher | 2011 | 30 tons/hr | BH |
| 12B-S | 10B-E | Blend 2 Crusher | 2011 | 19 tons/hr | BH |
| 13B-S | 11B-E | Particle Fusion Reactor #1 | 2011 | 19 tons/hr | AB, SCRUB & BH |
| 14B-S | 12B-E | Particle Fusion Reactor #2 | 2011 | 19 tons/hr | AB, SCRUB & BH |
| 15B-S | 13B-E | Liquid Additive Tank | 2011 | 10,000 gal | None |
| 16B-S | 14B-E | Liquid Additive Tank Heater | 2011 | 0.5 mmbtu/hr | None |
| 17B-S | 15B-E | Wet Coal Feed Bin #1 | 2011 | 15 tons/hr | BH |
| 18B-S | 15B-E | Wet Coal Belt Scale #1 | 2011 | 50 tons/hr | BH |
| 19B-S | 15B-E | Wet Coal Feed Belt #1(a) | 2011 | 50 tons/hr | BH |
| 20B-S | 15B-E | Wet Coal Feed Belt #1(b) | 2011 | 50 tons/hr | BH |
| 21B-S | 15B-E | Wet Coal Screener #1 | 2011 | 50 tons/hr | BH |
| 22B-S | 16B-E | Wet Coal Feed Bin #2 | 2011 | 10tons/hr | BH |
| 23B-S | 16B-E | Wet Coal Belt Scale #2 | 2011 | 50 tons/hr | BH |
| 24B-S | 16B-E | Wet Coal Feed Belt #2(a) | 2011 | 50 tons/hr | BH |
| 25B-S | 16B-E | Wet Coal Feed Belt #2(b) | 2011 | 50 tons/hr | BH |
| 26B-S | 16B-E | Wet Coal Screener #2 | 2011 | 50 tons/hr | BH |
| 27B-S | 17B-E | Dried Coal Feed Bin #1 | 2011 | 240 tons | BH |
| 28B-S | 18B-E | Dried Coal Feed Bin #2 | 2011 | 240 tons | BH |
| 29B-S | 19B-E | Dried Coal Feed Bin #3 | 2011 | 240 tons | BH |
| 30B-S | 20B-E | Dried Coal Feed Bin #4 | 2011 | 240 tons | BH |
| 31B-S | 21B-E | Dried Coal Feed Bin #5 | 2011 | 240 tons | BH |
| 32B-S | 22B-E | Coal Weigh Belt Feeder #1 | 2011 | 20 tons/hr | BH |
| 33B-S | 22B-E | Coal Weigh Belt Feeder #2 | 2011 | 20 tons/hr | BH |
| 34B-S | 22B-E | Coal Weigh Belt Feeder #3 | 2011 | 20 tons/hr | BH |
| 35B-S | 22B-E | Coal Weigh Belt Feeder #4 | 2011 | 20 tons/hr | BH |
| 36B-S | 22B-E | Coal Weigh Belt Feeder #5 | 2011 | 20 tons/hr | BH |
| 37B-S | 22B-E | Blend #1 Drag Conveyor | 2011 | 40 tons/hr | BH |

1.0 Emission Units

| | | | | | |
|-------------------|-------|-----------------------------|------|--------------|----------------|
| 38B-S | 23B-E | Blend #1 Feed Hopper #1 | 2011 | 15 tons | BH |
| 39B-S | 23B-E | Blend #1 Feed Hopper #2 | 2011 | 15 tons | BH |
| 40B-S | 23B-E | Blend #1 Feed Hopper #3 | 2011 | 15 tons | BH |
| 41B-S | 23B-E | Blend #1 Feed Hopper #4 | 2011 | 15 tons | BH |
| 42B-S | 23B-E | Blend #1 Drag Conveyor | 2011 | 40 tons | BH |
| 43B-S | 23B-E | Blend #1 Drag Conveyor | 2011 | 40 tons | BH |
| 44B-S | 24B-E | Blend #2 Drag Conveyor | 2011 | 30 tons/hr | BH |
| 45B-S | 25B-E | Carborec Silo | 2011 | 240 tons | BH |
| 46B-S | 26B-E | Blend #2 Surge Bin | 2011 | 400 tons | BH |
| 47B-S | 27B-E | Emergency Generator 2 | 2011 | 500 kw | BH |
| 48B-S | 28B-E | Coal Storage Pile | 2011 | 375,000 tpy | WS |
| 49B-S | 29B-E | Carbonyx Storage Pile | 2011 | 250,000 tpy | WS |
| 'MODULE C' | | | | | |
| 1C-S | 1C-E | Coal Dryer #1 | 2011 | 50 tons/hr | BH |
| 2C-S | 2C-E | Coal Dryer #2 | 2011 | 50 tons/hr | BH |
| 3C-S | 3C-E | Dried Coal Crusher #1 | 2011 | 50 tons/hr | BH |
| 4C-S | 4C-E | Dried Coal Crusher #2 | 2011 | 50 tons/hr | BH |
| 5C-S | 5C-E | Feed Enhancement Reactor #1 | 2011 | 6 tons/hr | AB, SCRUB & BH |
| 6C-S | 6C-E | Feed Enhancement Reactor #2 | 2011 | 6 tons/hr | AB, SCRUB & BH |
| 7C-S | 7C-E | Feed Enhancement Reactor #3 | 2011 | 6 tons/hr | AB, SCRUB & BH |
| 8C-S | 8C-E | Feed Enhancement Reactor #4 | 2011 | 6 tons/hr | AB, SCRUB & BH |
| 9C-S | 9C-E | Carborec Crusher | 2011 | 40 tons/hr | BH |
| 10C-S | 10C-E | Blend 2 Crusher | 2011 | 30 tons/hr | BH |
| 11C-S | 10C-E | Blend 2 Crusher | 2011 | 30 tons/hr | BH |
| 12C-S | 10C-E | Blend 2 Crusher | 2011 | 19 tons/hr | BH |
| 13C-S | 11C-E | Particle Fusion Reactor #1 | 2011 | 19 tons/hr | AB, SCRUB & BH |
| 14C-S | 12C-E | Particle Fusion Reactor #2 | 2011 | 19 tons/hr | AB, SCRUB & BH |
| 15C-S | 13C-E | Liquid Additive Tank | 2011 | 10,000 gal | None |
| 16C-S | 14C-E | Liquid Additive Tank Heater | 2011 | 0.5 mmbtu/hr | None |
| 17C-S | 15C-E | Wet Coal Feed Bin #1 | 2011 | 15 tons/hr | BH |

1.0 Emission Units

| | | | | | |
|-------|-------|---------------------------|------|------------|----|
| 18C-S | 15C-E | Wet Coal Belt Scale #1 | 2011 | 50 tons/hr | BH |
| 19C-S | 15C-E | Wet Coal Feed Belt #1(a) | 2011 | 50 tons/hr | BH |
| 20C-S | 15C-E | Wet Coal Feed Belt #1(b) | 2011 | 50 tons/hr | BH |
| 21C-S | 15C-E | Wet Coal Screener #1 | 2011 | 50 tons/hr | BH |
| 22C-S | 16C-E | Wet Coal Feed Bin #2 | 2011 | 10tons/hr | BH |
| 23C-S | 16C-E | Wet Coal Belt Scale #2 | 2011 | 50 tons/hr | BH |
| 24C-S | 16C-E | Wet Coal Feed Belt #2(a) | 2011 | 50 tons/hr | BH |
| 25C-S | 16C-E | Wet Coal Feed Belt #2(b) | 2011 | 50 tons/hr | BH |
| 26C-S | 16C-E | Wet Coal Screener #2 | 2011 | 50 tons/hr | BH |
| 27C-S | 17C-E | Dried Coal Feed Bin #1 | 2011 | 240 tons | BH |
| 28C-S | 18C-E | Dried Coal Feed Bin #2 | 2011 | 240 tons | BH |
| 29C-S | 19C-E | Dried Coal Feed Bin #3 | 2011 | 240 tons | BH |
| 30C-S | 20C-E | Dried Coal Feed Bin #4 | 2011 | 240 tons | BH |
| 31C-S | 21C-E | Dried Coal Feed Bin #5 | 2011 | 240 tons | BH |
| 32C-S | 22C-E | Coal Weigh Belt Feeder #1 | 2011 | 20 tons/hr | BH |
| 33C-S | 22C-E | Coal Weigh Belt Feeder #2 | 2011 | 20 tons/hr | BH |
| 34C-S | 22C-E | Coal Weigh Belt Feeder #3 | 2011 | 20 tons/hr | BH |
| 35C-S | 22C-E | Coal Weigh Belt Feeder #4 | 2011 | 20 tons/hr | BH |
| 36C-S | 22C-E | Coal Weigh Belt Feeder #5 | 2011 | 20 tons/hr | BH |
| 37C-S | 22C-E | Blend #1 Drag Conveyor | 2011 | 40 tons/hr | BH |
| 38C-S | 23C-E | Blend #1 Feed Hopper #1 | 2011 | 15 tons | BH |
| 39C-S | 23C-E | Blend #1 Feed Hopper #2 | 2011 | 15 tons | BH |
| 40C-S | 23C-E | Blend #1 Feed Hopper #3 | 2011 | 15 tons | BH |
| 41C-S | 23C-E | Blend #1 Feed Hopper #4 | 2011 | 15 tons | BH |
| 42C-S | 23C-E | Blend #1 Drag Conveyor | 2011 | 40 tons | BH |
| 43C-S | 23C-E | Blend #1 Drag Conveyor | 2011 | 40 tons | BH |
| 44C-S | 24C-E | Blend #2 Drag Conveyor | 2011 | 30 tons/hr | BH |
| 45C-S | 25C-E | Carborec Silo | 2011 | 240 tons | BH |
| 46C-S | 26C-E | Blend #2 Surge Bin | 2011 | 400 tons | BH |
| 47C-S | 27C-E | Emergency Generator 3 | 2011 | 500 kw | BH |

1.0 Emission Units

| | | | | | |
|-------------------|-------|-----------------------------|------|--------------|----------------|
| 48C-S | 28C-E | Coal Storage Pile | 2011 | 375,000 tpy | WS |
| 49C-S | 29C-E | Carbonyx Storage Pile | 2011 | 250,000 tpy | WS |
| ‘MODULE D’ | | | | | |
| 1D-S | 1D-E | Coal Dryer #1 | 2011 | 50 tons/hr | BH |
| 2D-S | 2D-E | Coal Dryer #2 | 2011 | 50 tons/hr | BH |
| 3D-S | 3D-E | Dried Coal Crusher #1 | 2011 | 50 tons/hr | BH |
| 4D-S | 4D-E | Dried Coal Crusher #2 | 2011 | 50 tons/hr | BH |
| 5D-S | 5D-E | Feed Enhancement Reactor #1 | 2011 | 6 tons/hr | AB, SCRUB & BH |
| 6D-S | 6D-E | Feed Enhancement Reactor #2 | 2011 | 6 tons/hr | AB, SCRUB & BH |
| 7D-S | 7D-E | Feed Enhancement Reactor #3 | 2011 | 6 tons/hr | AB, SCRUB & BH |
| 8D-S | 8D-E | Feed Enhancement Reactor #4 | 2011 | 6 tons/hr | AB, SCRUB & BH |
| 9D-S | 9D-E | Carborec Crusher | 2011 | 40 tons/hr | BH |
| 10D-S | 10D-E | Blend 2 Crusher | 2011 | 30 tons/hr | BH |
| 11D-S | 10D-E | Blend 2 Crusher | 2011 | 30 tons/hr | BH |
| 12D-S | 10D-E | Blend 2 Crusher | 2011 | 19 tons/hr | BH |
| 13D-S | 11D-E | Particle Fusion Reactor #1 | 2011 | 19 tons/hr | AB, SCRUB & BH |
| 14D-S | 12D-E | Particle Fusion Reactor #2 | 2011 | 19 tons/hr | AB, SCRUB & BH |
| 15D-S | 13D-E | Liquid Additive Tank | 2011 | 10,000 gal | None |
| 16D-S | 14D-E | Liquid Additive Tank Heater | 2011 | 0.5 mmbtu/hr | None |
| 17D-S | 15D-E | Wet Coal Feed Bin #1 | 2011 | 15 tons/hr | BH |
| 18D-S | 15D-E | Wet Coal Belt Scale #1 | 2011 | 50 tons/hr | BH |
| 19D-S | 15D-E | Wet Coal Feed Belt #1(a) | 2011 | 50 tons/hr | BH |
| 20D-S | 15D-E | Wet Coal Feed Belt #1(b) | 2011 | 50 tons/hr | BH |
| 21D-S | 15D-E | Wet Coal Screener #1 | 2011 | 50 tons/hr | BH |
| 22D-S | 16D-E | Wet Coal Feed Bin #2 | 2011 | 10tons/hr | BH |
| 23D-S | 16D-E | Wet Coal Belt Scale #2 | 2011 | 50 tons/hr | BH |
| 24D-S | 16D-E | Wet Coal Feed Belt #2(a) | 2011 | 50 tons/hr | BH |
| 25D-S | 16D-E | Wet Coal Feed Belt #2(b) | 2011 | 50 tons/hr | BH |
| 26D-S | 16D-E | Wet Coal Screener #2 | 2011 | 50 tons/hr | BH |
| 27D-S | 17D-E | Dried Coal Feed Bin #1 | 2011 | 240 tons | BH |

1.0 Emission Units

| | | | | | |
|----------------------|-------|---------------------------|------|-------------|------|
| 28D-S | 18D-E | Dried Coal Feed Bin #2 | 2011 | 240 tons | BH |
| 29D-S | 19D-E | Dried Coal Feed Bin #3 | 2011 | 240 tons | BH |
| 30D-S | 20D-E | Dried Coal Feed Bin #4 | 2011 | 240 tons | BH |
| 31D-S | 21D-E | Dried Coal Feed Bin #5 | 2011 | 240 tons | BH |
| 32D-S | 22D-E | Coal Weigh Belt Feeder #1 | 2011 | 20 tons/hr | BH |
| 33D-S | 22D-E | Coal Weigh Belt Feeder #2 | 2011 | 20 tons/hr | BH |
| 34D-S | 22D-E | Coal Weigh Belt Feeder #3 | 2011 | 20 tons/hr | BH |
| 35D-S | 22D-E | Coal Weigh Belt Feeder #4 | 2011 | 20 tons/hr | BH |
| 36D-S | 22D-E | Coal Weigh Belt Feeder #5 | 2011 | 20 tons/hr | BH |
| 37D-S | 22D-E | Blend #1 Drag Conveyor | 2011 | 40 tons/hr | BH |
| 38D-S | 23D-E | Blend #1 Feed Hopper #1 | 2011 | 15 tons | BH |
| 39D-S | 23D-E | Blend #1 Feed Hopper #2 | 2011 | 15 tons | BH |
| 40D-S | 23D-E | Blend #1 Feed Hopper #3 | 2011 | 15 tons | BH |
| 41D-S | 23D-E | Blend #1 Feed Hopper #4 | 2011 | 15 tons | BH |
| 42D-S | 23-DE | Blend #1 Drag Conveyor | 2011 | 40 tons | BH |
| 43D-S | 2D-E | Blend #1 Drag Conveyor | 2011 | 40 tons | BH |
| 44D-S | 24D-E | Blend #2 Drag Conveyor | 2011 | 30 tons/hr | BH |
| 45D-S | 25D-E | Carborec Silo | 2011 | 240 tons | BH |
| 46D-S | 26D-E | Blend #2 Surge Bin | 2011 | 400 tons | BH |
| 47D-S | 27D-E | Emergency Generator 4 | 2011 | 500 kw | BH |
| 48D-S | 28D-E | Coal Storage Pile | 2011 | 375,000 tpy | WS |
| 49D-S | 29D-E | Carbonyx Storage Pile | 2011 | 250,000 tpy | WS |
| FACILITY WIDE | | | | | |
| 50S | 30E | Fire Pump Engine | 2011 | 190 kw | None |
| | | | | | |
| | | | | | |

2.0. General Conditions

2.1. Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45 CSR § 30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

2.2. Acronyms

| | | | |
|-----------------------------|-----------------------------------------------------------|-------------------------|------------------------------------------------|
| CAAA | Clean Air Act Amendments | NSPS | New Source Performance Standards |
| CBI | Confidential Business Information | PM | Particulate Matter |
| CEM | Continuous Emission Monitor | PM_{2.5} | Particulate Matter less than 2.5µm in diameter |
| CES | Certified Emission Statement | PM₁₀ | Particulate Matter less than 10µm in diameter |
| C.F.R. or CFR | Code of Federal Regulations | Ppb | Pounds per Batch |
| CO | Carbon Monoxide | pph | Pounds per Hour |
| C.S.R. or CSR | Codes of State Rules | ppm | Parts per Million |
| DAQ | Division of Air Quality | Ppmv or ppmv | Parts per million by volume |
| DEP | Department of Environmental Protection | PSD | Prevention of Significant Deterioration |
| dscm | Dry Standard Cubic Meter | psi | Pounds per Square Inch |
| FOIA | Freedom of Information Act | SIC | Standard Industrial Classification |
| HAP | Hazardous Air Pollutant | SIP | State Implementation Plan |
| HON | Hazardous Organic NESHAP | SO₂ | Sulfur Dioxide |
| HP | Horsepower | TAP | Toxic Air Pollutant |
| lbs/hr | Pounds per Hour | TPY | Tons per Year |
| LDAR | Leak Detection and Repair | TRS | Total Reduced Sulfur |
| M | Thousand | TSP | Total Suspended Particulate |
| MACT | Maximum Achievable Control Technology | USEPA | United States Environmental Protection Agency |
| MDHI | Maximum Design Heat Input | UTM | Universal Transverse Mercator |
| MM | Million | VEE | Visual Emissions Evaluation |
| MMBtu/hr or mmbtu/hr | Million British Thermal Units per Hour | VOC | Volatile Organic Compounds |
| MMCF/hr or mmcf/hr | Million Cubic Feet per Hour | VOL | Volatile Organic Liquids |
| NA | Not Applicable | | |
| NAAQS | National Ambient Air Quality Standards | | |
| NESHAPS | National Emissions Standards for Hazardous Air Pollutants | | |
| NO_x | Nitrogen Oxides | | |

2.3. Authority

This permit is issued in accordance with West Virginia Air Pollution Control Law W.Va. Code §§22-5-1 et seq. and the following Legislative Rules promulgated thereunder:

- 2.3.1. 45CSR13 – *Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation;*

2.4. Term and Renewal

- 2.4.1. This permit shall remain valid, continuous and in effect unless it is revised, suspended, revoked or otherwise changed under an applicable provision of 45CSR13 or any applicable legislative rule.

2.5. Duty to Comply

- 2.5.1. The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Application R13-2851 and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to;
[45CSR§§13-5.11 and 13-10.3]
- 2.5.2. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA;
- 2.5.3. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7;
- 2.5.4. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses and/or approvals from other agencies; i.e., local, state and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

2.6. Duty to Provide Information

The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for administratively updating, modifying, revoking or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

2.7. Duty to Supplement and Correct Information

Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

2.8. Administrative Update

The permittee may request an administrative update to this permit as defined in and according to the procedures specified in 45CSR13.

[45CSR§13-4]

2.9. Permit Modification

The permittee may request a minor modification to this permit as defined in and according to the procedures specified in 45CSR13.

[45CSR§13-5.4.]

2.10. Major Permit Modification

The permittee may request a major modification as defined in and according to the procedures specified in 45CSR14 or 45CSR19, as appropriate.

[45CSR§13-5.1]

2.11. Inspection and Entry

The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

- a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
- d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

2.12. Emergency

- 2.12.1. An "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency.

An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

- 2.12.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of Section 2.12.3 are not met.
- 2.12.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - b. The permitted facility was at the time being properly operated;
 - c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and,
 - d. The permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice must contain a detailed description of the emergency, any steps taken to mitigate emission, and corrective actions taken.
- 2.12.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- 2.12.5. The provisions of this section are in addition to any emergency or upset provision contained in any applicable requirement.

2.13. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it should have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

2.14. Suspension of Activities

In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.

2.15. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

2.16. Severability

The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

2.17. Transferability

This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13. [45CSR§13-10.1]

2.18. Notification Requirements

The permittee shall notify the Secretary, in writing, no later than thirty (30) calendar days after the actual startup of the operations authorized under this permit.

2.19. Credible Evidence

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defense otherwise available to the permittee including, but not limited to, any challenge to the credible evidence rule in the context of any future proceeding.

3.0. Facility-Wide Requirements

3.1. Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.
[45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.
[45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.
[40CFR§61.145(b) and 45CSR§34]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.
[45CSR§4-3.1 State-Enforceable only.]
- 3.1.5. **Permanent shutdown.** A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown.
[45CSR§13-10.5.]
- 3.1.6. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45 C.S.R. 11.
[45CSR§11-5.2.]

3.2. Monitoring Requirements

[Reserved]

3.3. Testing Requirements

- 3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly

authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63 in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or 45CSR§13-5.4 as applicable.
- b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4 or 45CSR§13-5.4 as applicable.
- c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.
[WV Code § 22-5-4(a)(15)]

3.4. Recordkeeping Requirements

- 3.4.1. **Retention of records.** The permittee shall maintain records of all information (including monitoring data, support information, reports and notifications) required by this permit recorded in a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche.

- 3.4.2. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.
[45CSR§4. State-Enforceable only.]

3.5. Reporting Requirements

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
- 3.5.2. **Confidential information.** A permittee may request confidential treatment for the submission of reporting required by this permit pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
- 3.5.3. **Correspondence.** All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:

Director
WVDEP
Division of Air Quality
601 57th Street, SE
Charleston, WV 25304-2345

If to the USEPA:

Associate Director
Office of Enforcement and Permits Review
(3AP12)
U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

3.5.4. **Operating Fee.**

- 3.5.4.1. In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a Certified Emissions Statement (CES) and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.
- 3.5.4.2. In accordance with 45CSR30 – Operating Permit Program, enclosed with this permit is a Certified Emissions Statement (CES) Invoice, from the date of initial startup through the following June 30. Said invoice and the appropriate fee shall be submitted to this office no later than 30 days prior to the date of initial startup. For any startup date other than July 1, the permittee shall pay a fee or prorated fee in accordance with the Section 4.5 of 45CSR22. A copy of this schedule may be found attached to the Certified Emissions Statement (CES) Invoice.

- 3.5.5. **Emission inventory.** At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.

4.0. Source-Specific Requirements

4.1. Limitations and Standards

4.1.1. Emissions from the facility shall not exceed the following:

| Source | PM | | PM ₁₀ | | NO _x | | VOC | | SO ₂ | | CO | | HAPs | |
|--------|-------|------|------------------|------|-----------------|------|-------|------|-----------------|------|-------|------|-------|------|
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| 1A-E | 1.0 | 4.0 | 1.0 | 4.0 | -- | -- | 0.01 | 0.04 | -- | -- | -- | -- | -- | -- |
| 2A-E | 1.0 | 4.0 | 1.0 | 4.0 | -- | -- | 0.01 | 0.04 | -- | -- | -- | -- | -- | -- |
| 3A-E | 0.5 | 2.0 | 0.5 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 4A-E | 0.5 | 2.0 | 0.5 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 5A-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 6A-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 7A-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 8A-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 9A-E | 0.50 | 2.0 | 0.50 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10A-E | 0.50 | 2.0 | 0.50 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11A-E | 0.01 | 0.04 | 0.01 | 0.04 | 2.2 | 8.8 | 2.1 | 8.4 | 2.66 | 10.6 | 2.0 | 8.0 | 0.01 | 0.04 |
| 12A-E | 0.01 | 0.04 | 0.01 | 0.04 | 2.2 | 8.8 | 2.1 | 8.4 | 2.66 | 10.6 | 2.0 | 8.0 | 0.01 | 0.04 |
| 13A-E | -- | -- | -- | -- | -- | -- | 0.01 | 0.04 | -- | -- | -- | -- | 0.01 | 0.04 |
| 14A-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.05 | 0.1 | 0.01 | 0.04 | 0.01 | 0.01 | 0.05 | 0.09 | 0.01 | 0.04 |
| 15A-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16A-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17A-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18A-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19A-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20A-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21A-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22A-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 23A-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 24A-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25A-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| | | | | | | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 26A-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1B-E | 1.0 | 4.0 | 1.0 | 4.0 | -- | -- | 0.01 | 0.04 | -- | -- | -- | -- | -- | -- |
| 2B-E | 1.0 | 4.0 | 1.0 | 4.0 | -- | -- | 0.01 | 0.04 | -- | -- | -- | -- | -- | -- |
| 3B-E | 0.5 | 2.0 | 0.5 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 4B-E | 0.5 | 2.0 | 0.5 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 5B-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 6B-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 7B-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 8B-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 9B-E | 0.50 | 2.0 | 0.50 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10B-E | 0.50 | 2.0 | 0.50 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11B-E | 0.01 | 0.04 | 0.01 | 0.04 | 2.2 | 8.8 | 2.1 | 8.4 | 2.66 | 10.6 | 2.0 | 8.0 | 0.01 | 0.04 |
| 12B-E | 0.01 | 0.04 | 0.01 | 0.04 | 2.2 | 8.8 | 2.1 | 8.4 | 2.66 | 10.6 | 2.0 | 8.0 | 0.01 | 0.04 |
| 13B-E | -- | -- | -- | -- | -- | -- | 0.01 | 0.04 | -- | -- | -- | -- | 0.01 | 0.04 |
| 14B-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.05 | 0.1 | 0.01 | 0.04 | 0.01 | 0.01 | 0.05 | 0.09 | 0.01 | 0.04 |
| 15B-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16B-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17B-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18B-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19B-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20B-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21B-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22B-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 23B-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 24B-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25B-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26B-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1C-E | 1.0 | 4.0 | 1.0 | 4.0 | -- | -- | 0.01 | 0.04 | -- | -- | -- | -- | -- | -- |
| 2C-E | 1.0 | 4.0 | 1.0 | 4.0 | -- | -- | 0.01 | 0.04 | -- | -- | -- | -- | -- | -- |
| 3C-E | 0.5 | 2.0 | 0.5 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 4C-E | 0.5 | 2.0 | 0.5 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| | | | | | | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 5C-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 6C-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 7C-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 8C-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 9C-E | 0.50 | 2.0 | 0.50 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10C-E | 0.50 | 2.0 | 0.50 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11C-E | 0.01 | 0.04 | 0.01 | 0.04 | 2.2 | 8.8 | 2.1 | 8.4 | 2.66 | 10.6 | 2.0 | 8.0 | 0.01 | 0.04 |
| 12C-E | 0.01 | 0.04 | 0.01 | 0.04 | 2.2 | 8.8 | 2.1 | 8.4 | 2.66 | 10.6 | 2.0 | 8.0 | 0.01 | 0.04 |
| 13C-E | -- | -- | -- | -- | -- | -- | 0.01 | 0.04 | -- | -- | -- | -- | 0.01 | 0.04 |
| 14C-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.05 | 0.1 | 0.01 | 0.04 | 0.01 | 0.01 | 0.05 | 0.09 | 0.01 | 0.04 |
| 15C-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16C-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17C-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18C-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19C-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20C-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21C-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22C-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 23C-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 24C-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25C-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26C-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 1D-E | 1.0 | 4.0 | 1.0 | 4.0 | -- | -- | 0.01 | 0.04 | -- | -- | -- | -- | -- | -- |
| 2D-E | 1.0 | 4.0 | 1.0 | 4.0 | -- | -- | 0.01 | 0.04 | -- | -- | -- | -- | -- | -- |
| 3D-E | 0.5 | 2.0 | 0.5 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 4D-E | 0.5 | 2.0 | 0.5 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 5D-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 6D-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 7D-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 8D-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.39 | 1.54 | 0.38 | 1.50 | 0.20 | 0.80 | 0.40 | 1.60 | 0.01 | 0.04 |
| 9D-E | 0.50 | 2.0 | 0.50 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

| | | | | | | | | | | | | | | |
|------------------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|
| 10D-E | 0.50 | 2.0 | 0.50 | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11D-E | 0.01 | 0.04 | 0.01 | 0.04 | 2.2 | 8.8 | 2.1 | 8.4 | 2.66 | 10.6 | 2.0 | 8.0 | 0.01 | 0.04 |
| 12D-E | 0.01 | 0.04 | 0.01 | 0.04 | 2.2 | 8.8 | 2.1 | 8.4 | 2.66 | 10.6 | 2.0 | 8.0 | 0.01 | 0.04 |
| 13D-E | -- | -- | -- | -- | -- | -- | 0.01 | 0.04 | -- | -- | -- | -- | 0.01 | 0.04 |
| 14D-E | 0.01 | 0.04 | 0.01 | 0.04 | 0.05 | 0.1 | 0.01 | 0.04 | 0.01 | 0.01 | 0.05 | 0.09 | 0.01 | 0.04 |
| 15D-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 16D-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 17D-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 18D-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 19D-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 20D-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 21D-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 22D-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 23D-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 24D-E | 0.10 | 0.40 | 0.10 | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 25D-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26D-E | 0.05 | 0.20 | 0.05 | 0.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Stock Piles | 0.24 | 1.03 | 0.12 | 0.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Gen. 1 | 0.47 | 0.03 | 0.47 | 0.03 | 16.05 | 0.89 | 0.47 | 0.03 | 0.27 | 0.02 | 3.68 | 0.21 | 0.47 | 0.03 |
| Gen. 2 | 0.47 | 0.03 | 0.47 | 0.03 | 16.05 | 0.89 | 0.47 | 0.03 | 0.27 | 0.02 | 3.68 | 0.21 | 0.47 | 0.03 |
| Gen. 3 | 0.47 | 0.03 | 0.47 | 0.03 | 16.05 | 0.89 | 0.47 | 0.03 | 0.27 | 0.02 | 3.68 | 0.21 | 0.47 | 0.03 |
| Gen. 4 | 0.47 | 0.03 | 0.47 | 0.03 | 16.05 | 0.89 | 0.47 | 0.03 | 0.27 | 0.02 | 3.68 | 0.21 | 0.47 | 0.03 |
| Fire Pump Engine | 0.56 | 0.03 | 0.56 | 0.03 | 7.88 | 0.44 | 0.56 | 0.03 | 0.52 | 0.03 | 1.70 | 0.10 | 0.56 | 0.03 |

- 4.1.2 Only the emission units listed in Section 1.0 of this permit are authorized by this permit. Any piece of equipment at the facility not listed in Section 1.0, emitting any amount of any regulated pollutant (including but not limited to any visible emissions) is a violation of this permit.
- 4.1.3 Total production of cokonyx from the facility shall not exceed 1,000,000 tons per year.
- 4.1.4 The total amount of coal brought into the facility shall not exceed 1,500,000 tons per year.
- 4.1.5 The total hours of operations of the 16 Feed Enhancement Reactors at the facility shall not exceed

128,000 hours per year based on a rolling twelve month total.

- 4.1.6 The total hours of operations of the 8 Particle Fusion Reactors at the facility shall not exceed 64,000 hours per year based on a rolling twelve month total.
- 4.1.7 The total hours of operations of the 4 emergency generators and 1 fire pump engine at the facility shall not exceed 550 hours per year based on a rolling twelve month total.
- 4.1.8 The total hours of operation of the 4 liquid additive tank heaters at the facility shall not exceed 16,000 hours per year based on a rolling twelve month total.
- 4.1.9 All emissions from all Particle Fusion Reactors and Feed Enhancement Reactors at the facility shall be controlled by afterburners, scrubbers, and baghouses. Said control devices shall be designed, installed, operated and maintained so as to ensure compliance with the emission limits of 4.1.1 of this permit.
- 4.1.10 The temperature maintained in each afterburner combustion chamber shall not be less than that temperature at which the afterburner was operating during the most recent stack test which demonstrated compliance with the VOC and CO emission limits of 4.1.1 of this permit.
- 4.1.11 The pressure drop across each baghouse shall be maintained at between 1 and 2 inches of water.
- 4.1.12 The scrubbing liquor pH and flow rate into each scrubber shall not be less than that at which the scrubber was operating during the most recent stack test which demonstrated compliance with the SO₂ emission limits of 4.1.1 of this permit.
- 4.1.13 All sources of emissions of particulate matter at the facility except for the liquid additive tank heater, the coal storage piles, cokonyx storage piles and haul roads shall be controlled by a baghouse. Said baghouses shall be designed, installed, operated and maintained so as to ensure compliance with the emission limits of 4.1.1 of this permit.
- 4.1.14 Fugitive particulate emissions resulting from use of haulroads and mobile work areas shall be minimized by the following:
 - a. The permittee shall maintain a water truck on site and in good operating condition, and shall utilize same to apply a mixture of water and an environmentally acceptable dust control additive, hereinafter referred to as solution, as often as is necessary in order to minimize the atmospheric entrainment of fugitive particulate emissions that may be generated from haulroads and other work areas where mobile equipment is used. The spraybar shall be equipped with commercially available spray nozzles, of sufficient size and number, so as to provide adequate coverage to the area being treated.

The pump delivering the solution, shall be of sufficient size and capacity so as to be capable of delivering to the spray nozzle(s) an adequate quantity of solution, and at a sufficient pressure, so as to assure that the treatment process will minimize the atmospheric entrainment of fugitive particulate emissions generated from the haulroads and work areas where mobile equipment is used.

- b. All haulroads, access roads, stockpile and work areas shall be kept clean and in good condition by replacing base material and/or grading as required.
 - c. If tracking of solids by vehicular traffic from access and/or haulroads onto any public road or highway occurs and generates or has the potential to generate fugitive particulate emissions, the registrant shall properly operate and maintain an underbody truck wash, rumble strips or employ other suitable measures to maintain effective fugitive dust control of the premises and minimize the emission of particulate matter.
- 4.1.15 The permittee shall properly install, operate and maintain winterization systems for all water trucks and/or water sprays in a manner that all such fugitive dust control systems remain effective and functional, to the maximum extent practicable, during winter months and cold weather. At all times, including periods of cold weather, the registrant shall comply with the water trucks and/or water sprays requirements of this permit
- 4.1.16 The sulfur content of the coal processed through the facility shall not exceed the content which was used during the most recent stack test which demonstrated compliance with the SO₂ emission limits of 4.1.1 of this permit.
- 4.1.17 The volatile content of the coal processed through the facility shall not exceed the content which was used during the most recent stack test which demonstrated compliance with the VOC emission limits of 4.1.1 of this permit.
- 4.1.18 The permittee shall comply with all applicable requirements of 45CSR2 including but not limited to the following:
- 4.1.18.1 Visible emission from the PFRs and FERs shall not exceed 10% opacity based on a six minute block average.
[45CSR§2-3.1.]
- 4.1.19 The permittee shall comply with all applicable requirements of 45CSR7 including but not limited to the following:
- 4.1.19.1 Opacity from any process source operation shall not exceed 20% except for opacity which is less than 40% for a period or periods aggregating no more than 5 minutes in any 60 minute period.
[45CSR§7-3.1 &45CSR§7-3.2]
 - 4.1.19.2 No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.
[45CSR§7-5.1.]
- 4.1.20 The permittee shall comply with all applicable requirements of 45CSR10 including but not limited to the following:

- 4.1.20.1 The in stack SO₂ concentration of each of the PFRs and FERs shall not exceed 2,000 ppm.
[45CSR§10-4.1.]
- 4.1.21 The permittee shall comply with all applicable requirements of 40 CFR 60 Subpart Dc.
- 4.1.22 The permittee shall comply with all applicable requirements of 40 CFR 60 Subpart Y including but not limited to the following:
- 4.1.22.1 The dryers (1A-S, 2A-S, 1B-S, 2B-S, 3A-S, 3B-S, 4A-S and 4B-S) shall not exhaust gasses which will contain PM in a concentration of greater than 0.01 grains per dry standard cubic feet nor exhibit opacity greater than 10%.
[40 CFR § 60.252(b)(1)(i)]
- 4.1.22.2 Any pneumatic coal cleaning equipment shall not emit gasses into the air that contain PM in excess of 0.01 gr/dscf nor exhibit opacity of greater than 5%.
[40 CFR § 60.253(b)]
- 4.1.22.3 Any coal processing and conveying equipment, storage systems and transfer and loading systems shall not emit gasses into the air that contain PM in excess of 0.01 gr/dscf (from any mechanical vent) nor exhibit opacity of greater than 10% (except for loading, unloading and transfer operations of open storage piles).
[40 CFR § 60.254(b)]
- 4.1.22.4 The permittee shall prepare, submit and operate in accordance with a fugitive dust emission control plan specifically relating to the open stockpiles.
[40 CFR § 60.254(c)]
- 4.1.23 The permittee shall comply with all applicable requirements of 40 CFR 60 Subpart IIII.
- 4.1.24. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.
[45CSR§13-5.11.]

4.2. Testing Requirements

- 4.2.1. The permittee shall comply with all applicable testing requirements of 40 CFR 60 Subpart Y.
- 4.2.2 The permittee shall comply with all applicable testing requirements of 40 CFR 60 Subpart IIII.
- 4.2.3 Within 90 days of reaching nominal production capacity but not later than 180 days from initial startup of the first module, the permittee shall complete the following performance testing:
- 4.2.3.1 The permittee shall perform EPA approved stack tests to determine emissions of NO_x, CO, VOCs, VOC HAPs, Mercury, SO₂, PM and PM₁₀ on one FER and one PFR

4.2.3.1.1 All testing required under 4.2.3.1 of this permit shall be performed under two conditions. The first condition shall be while burning only the off gasses from the coal/carborec. The second condition shall be while burning only natural gas.

4.2.3.2 The permittee shall perform EPA approved stack tests to determine emissions of PM, PM₁₀ and VOCs from one of the dryers.

4.2.4 Within 90 days of reaching nominal production capacity but not later than 180 days from initial startup of the fourth and final module the permittee will repeat the testing required by 4.2.3 of this permit.

4.2.5 After the testing required by 4.2.4 of this permit is completed, ongoing compliance shall be demonstrated by repeating the above testing according to the following schedule:

| Test | Test Results | Testing Frequency |
|----------------|-------------------------------------------------------------------|-------------------|
| 4.2.4 required | ≤50% of limits | Once/5 years |
| 4.2.4 required | Between 50% and 90% limits | Once/3 years |
| 4.2.4 required | ≥90% of limits | Annual |
| Annual | After two successive tests indicate emission rates ≤50% of limits | Once/5 years |
| Annual | After two successive tests indicate emission rates <90% of limits | Once/3 years |
| Annual | ≥90% of limits | Annual |
| Once/3 years | After two successive tests indicate emission rates ≤50% of limits | Once/5 years |
| Once/3 years | < 90% of limits | Once/3 years |
| Once/3 years | ≥90% of limits | Annual |
| Once/5 years | ≤50% of limits | Once/5 years |
| Once/5 years | < 90% of limits | Once/3 years |
| Once/5 years | ≥90% of limits | Annual |

4.2.6 In order to determine compliance with the sulfur content limit of section 4.1.16 of this permit the permittee shall obtain a vendor guarantee stating the maximum sulfur content of the coal. Alternatively, if such a guarantee is unavailable, the permittee shall test random samples of coal for sulfur content at least once each month that coal is received on site.

4.2.7 In order to determine compliance with the volatile content limit of section 4.1.17 of this permit the permittee shall obtain a vendor guarantee stating the maximum volatile content of the coal. Alternatively, if such a guarantee is unavailable, the permittee shall test random samples of coal for volatile content at least once each month that coal is received on site.

4.3. Monitoring and Recordkeeping Requirements

- 4.3.1. **Record of Monitoring.** The permittee shall keep records of monitoring information that include the following:
- a. The date, place as defined in this permit and time of sampling or measurements;
 - b. The date(s) analyses were performed;
 - c. The company or entity that performed the analyses;
 - d. The analytical techniques or methods used;
 - e. The results of the analyses; and
 - f. The operating conditions existing at the time of sampling or measurement.
- 4.3.2. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.
- 4.3.3. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:
- a. The equipment involved.
 - b. Steps taken to minimize emissions during the event.
 - c. The duration of the event.
 - d. The estimated increase in emissions during the event.
- For each such case associated with an equipment malfunction, the additional information shall also be recorded:
- e. The cause of the malfunction.
 - f. Steps taken to correct the malfunction.
 - g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.
- 4.3.4. The permittee shall comply with all applicable monitoring and recordkeeping requirements of 40 CFR 60 Subpart Dc.
- 4.3.4. The permittee shall comply with all applicable monitoring and recordkeeping requirements of 40 CFR 60 Subpart Y.

- 4.3.5 The permittee shall comply with all applicable monitoring and recordkeeping requirements of 40 CFR 60 Subpart III.
- 4.3.6 In order to demonstrate compliance with the requirements of 4.1.1 and 4.1.3 of this permit, the permittee shall monitor and record the amount of cokonyx produced at the facility on a monthly basis. These records shall be maintained on site for a period of not less than five (5) years and certified records shall be made available to the Director or a duly authorized representative of the Director upon request.
- 4.3.7 In order to demonstrate compliance with the requirements of 4.1.1 and 4.1.4 of this permit, the permittee shall monitor and record the amount of coal brought into the facility on a monthly basis. These records shall be maintained on site for a period of not less than five (5) years and certified records shall be made available to the Director or a duly authorized representative of the Director upon request.
- 4.3.8 In order to demonstrate compliance with the requirements of 4.1.1 and 4.1.5 of this permit, the permittee shall monitor and record the hours of operation of each FER on a monthly basis. These records shall be maintained on site for a period of not less than five (5) years and certified records shall be made available to the Director or a duly authorized representative of the Director upon request.
- 4.3.9 In order to demonstrate compliance with the requirements of 4.1.1 and 4.1.6 of this permit, the permittee shall monitor and record the hours of operation of each PFR on a monthly basis. These records shall be maintained on site for a period of not less than five (5) years and certified records shall be made available to the Director or a duly authorized representative of the Director upon request.
- 4.3.10 In order to demonstrate compliance with the requirements of 4.1.1 and 4.1.7 of this permit, the permittee shall monitor and record the hours of operation of each emergency generator and the fire pump engine on a monthly basis. These records shall be maintained on site for a period of not less than five (5) years and certified records shall be made available to the Director or a duly authorized representative of the Director upon request.
- 4.3.11 In order to demonstrate compliance with the requirements of 4.1.1 and 4.1.8 of this permit, the permittee shall monitor and record the hours of operation of each Liquid Additive Tank Heater on a monthly basis. These records shall be maintained on site for a period of not less than five (5) years and certified records shall be made available to the Director or a duly authorized representative of the Director upon request.
- 4.3.12 In order to demonstrate compliance with the requirements of 4.1.1 and 4.1.10 of this permit, the permittee shall monitor and record the afterburner temperature on a daily basis. These records shall be maintained on site for a period of not less than five (5) years and certified records shall be made available to the Director or a duly authorized representative of the Director upon request.
- 4.3.13 In order to demonstrate compliance with the requirements of 4.1.1 and 4.1.11 of this permit, the permittee shall monitor and record the pressure drop across all fabric filters on a daily basis. These records shall be maintained on site for a period of not less than five (5) years and certified records shall be made available to the Director or a duly authorized representative of the Director upon request.

- 4.3.14 During any period of malfunction of any fabric filter (if any of the emission units associated with each station are in operation) a daily log of the following information shall be monitored and recorded:
- 4.3.14.1 Whether there were any visible emissions. If visible emissions are observed, the permittee shall record the following information:
- 4.3.14.1.1 Whether the visible emissions are normal for the process.
- 4.3.14.1.2 The cause of any abnormal emissions.
- 4.3.14.1.3 Any corrective action taken.
- 4.3.14.1.4 Document all routine and non-routine maintenance activities performed on the fabric filters.
- 4.3.15 In order to demonstrate compliance with the requirements of 4.1.1 and 4.1.12 of this permit, the permittee shall monitor and record the scrubbing liquor pH and flow rate to each scrubber on a daily basis. These records shall be maintained on site for a period of not less than five (5) years and certified records shall be made available to the Director or a duly authorized representative of the Director upon request.
- 4.3.16 In order to demonstrate compliance with the requirements of 4.1.1 and 4.1.14 of this permit, the permittee shall monitor and amount of water or chemical dust suppressant solution applied to the haul roads and stockpiles on a daily basis. These records shall be maintained on site for a period of not less than five (5) years and certified records shall be made available to the Director or a duly authorized representative of the Director upon request.
- 4.3.17 In order to determine compliance with the sulfur content limit of section 4.1.16 of this permit the permittee shall obtain a vendor guarantee stating the maximum sulfur content of the coal. Alternatively, if such a guarantee is unavailable, the permittee shall test random samples of coal for sulfur content at least once each month that coal is received on site. These records shall be maintained on site for a period of not less than five (5) years and certified records shall be made available to the Director or a duly authorized representative of the Director upon request.
- 4.3.18 In order to determine compliance with the volatile content limit of section 4.1.17 of this permit the permittee shall obtain a vendor guarantee stating the maximum volatile content of the coal. Alternatively, if such a guarantee is unavailable, the permittee shall test random samples of coal for volatile content at least once each month that coal is received on site. These records shall be maintained on site for a period of not less than five (5) years and certified records shall be made available to the Director or a duly authorized representative of the Director upon request.
- 4.3.19 The permittee shall monitor and record the amount of natural gas consumed by the facility on a monthly basis. These records shall be maintained on site for a period of not less than five (5) years and certified records shall be made available to the Director or a duly authorized representative of the Director upon request.

4.4. Reporting Requirements

- 4.4.1. The permittee shall comply with all applicable reporting requirements of 40 CFR 60 Subpart Dc.
- 4.4.2. The permittee shall comply with all applicable reporting requirements of 40 CFR 60 Subpart Y.
- 4.4.3. The permittee shall comply with all applicable reporting requirements of 40 CFR 60 Subpart IIII.

CERTIFICATION OF DATA ACCURACY

I, the undersigned, hereby certify that, based on information and belief formed after reasonable inquiry, all information contained in the attached _____, representing the period beginning _____ and ending _____, and any supporting documents appended hereto, is true, accurate, and complete.

Signature¹ _____ Date _____
(please use blue ink) Responsible Official or Authorized Representative

Name and Title _____ Title _____
(please print or type) Name

Telephone No. _____ Fax No. _____

¹ This form shall be signed by a "Responsible Official." "Responsible Official" means one of the following:

- a. For a corporation: The president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
 - (I) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), or
 - (ii) the delegation of authority to such representative is approved in advance by the Director;
- b. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
- c. For a municipality, State, Federal, or other public entity: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of USEPA); or
- d. The designated representative delegated with such authority and approved in advance by the Director.