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(5) This Operating Permit is issued for the coke and coal chemical production sources listed in Attachment 1.

The following NOx emissions shall apply:

- Battery "A" combustion stack 0.71 lb/MMBTU heat input (30 day rolling average)
- (b) Battery "2A" combustion stack 0.24 lb/MMBTU heat input (30 day rolling average)
- (c) Desulfurizer 4.25 TPY
- (d) Coke bleeders (operations) 0.85 tons per day
- (e) Coke Plant Boilerhouse (Boiler Nos. 1, 2, 3 and 4) 0.25 lb/MMBTU heat input (daily average)
- (6) VOC emissions from Battery "A" coke side shall not exceed 438 tons per year.

Testing requirements are as follows:

- (a) Source tests for NOx for the coke plant boilerhouse, Battery "A" combustion stack and for Battery "2A" (each of underfire stacks 2 and 3) shall be conducted in accordance with 25 PA Code Chapter 139 as per the Department's source testing procedures described in the latest Source Testing Manual or source testing procedures approved by the Department prior to testing. Compliance shall be based on the average of these consecutive source tests. Source tests are to be conducted on an annual basis.
- (b) At least sixty (60) days prior to the tests, pre-test protocol shall be submitted to the Department for approval.
- (c) Within sixty (60) days of the completion of the tests, two (2) copies of the complete test reports, including all operating conditions shall be submitted to the Department for approval.

(8) Battery "A" and "2A" Underfire

- (a) NOx RACT shall be the operation and maintenance of low excess air technology, by minimizing fuel use and maintaining the best air-to-fuel ratio that satisfies the process.
- (b) The company shall maintain records in accordance with the recordkeeping requirements of 25 PA Code Section 129.95 and shall include as a minimum data which clearly demonstrates that the emission limit in Conditions (5)(a) and (5)(b) is met.
- (c) All records shall be maintained for at least two years and shall be made available to the Department on request.

(9) Desulfurizer

(a) NOx and VOC RACT for the desulfurizer operation, specifically the tail-gas incinerator of the desulfurizer, shall be the operation and maintenance of the source according to the manufacturers specifications.

- (b) The minimum daily amount of coke oven gas entering the coke oven gas desulfurizer unit shall not be less than 22,000,000 SCFD.
- (c) The maximum daily amount of coke oven gas entering the coke oven gas desulfurizer unit shall not exceed 70,000,000 SCFD.
- (f) The company shall record the daily amount of coke oven gas produced by the coke oven batteries. Those records shall be maintained for a period of two years and shall be made available to the Department upon request.
- (g) Within fourteen (14) days of the completion of the annual desulfurizer plant outage for boiler inspection and plant maintenance, the company shall submit a written notification of the Department giving the details of the maintenance work performed on the plant, and the dates of the outage.
- (h) The company shall maintain records in accordance with the recordkeeping requirements of 25 PA Code Section 129.95 and shall include as a minimum the following:
 - Data which clearly demonstrates that the emission limit in Condition (5)(c) is met.
 - All records shall be maintained for a period of at least two years and shall be made available to the Department on request.

(10) Coke Bleeders

- (a) NOX RACT shall be the operation and maintenance of the sources according to current operating practice.
- (b) The company shall maintain records in accordance with the recordkeeping requirements of 25 PA Code 129.95 and shall include as a minimum the following:
 - Data which clearly demonstrates that the emission limit in Condition (5)(d) is met.
 - All records shall be maintained for a period of at least two years and shall be made available to the Department on request.

(11) Coke Plant Boilerhouse

- (a) Boiler Nos. 1, 2 and 3 can be fired by a combination of tar derivatives, used oil and No. 6 fuel oil; a combination of tar and grease derived liquid fuel; and a combination of desulfurized coke oven gas and natural gas.
- (b) Boiler No. 4 can be fired by a combination of No. 6 fuel oil, tar derivatives and used oil or a combination of desulfurized coke oven gas and natural gas.
- (c) NOx RACT shall be the operation and maintenance of the boilers according to manufacturers specifications. In addition, an annual tune-up of each boiler's combustion process shall be performed.
- (1) The company shall maintain records in accordance with the recordkeeping requirements of 25 PA Code Section 129.95 and shall include as a minimum the following:

- Data which clearly demonstrates that the emission limit in Condition (5)(e) is met.
- All records shall be maintained for a period of at least two years and shall be available to the Department on request.
- (12) Coal Chemical Process
 - (a) VOC RACT shall be the operation and maintenance of the sources according to the manufacturers specifications. Sources shall also be operated and maintained in accordance with good air pollution control practices.
 - (b) The coal chemical process consists of sources and associated gas blanketing systems identified in Attachment II of this Operating Permit.
 - (d) The company shall maintain records in accordance with the recordkeeping requirements of 25 PA Code Section 129.95 and shall include as a minimum the following:
 - 2. All records shall be maintained for at least two years and shall be made available to the Department on request.
- (13) Coke Oven Batteries "A" and "2A"
 - (a) VOC RACT for Coke Oven Batteries "A" and "2A" push and coke sides shall be the operation and maintenance of the sources according to the manufacturers specifications. Sources shall also be operated and maintained in accordance with good air pollution control practices.
 - (b) The company shall maintain records in accordance with the recordkeeping requirements of 25 PA Code Section 129.95 and shall include as a minimum the following:
 - 1. Data which clearly demonstrates that the emission limit in Condition (6) is met.
 - 2. All records shall be maintained for at least two years and shall be made available to the Department on request.
- (14) VOC RACT for in-plant painting and the compressed air system shall be the operation and maintenance of the sources according to manufacturers specifications.

Attachment [

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Coke and Coal Chemical Production

Cokemaking - Battery "A" Underfire Cokemaking - Battery "2A" Underfire Cokemaking Desulfurizer Operations Cokemaking Bleeders (2) Emergency Cokemaking Bleeder Flares (numerous) Coke Plant Boiler House - No. 1 Boiler Coke Plant Boiler House - No. 2 Boiler Coke Plant Boiler House - No. 3 Boiler Coke Plant Boiler House - No. 3 Boiler Coke Plant Boiler House - No. 4 Boiler Coal Chemical Process Service and Heating Torches In-Plant Painting Compressed Air System

ATTACHMENT II VESSEL/TANK LIST

| | | Gas Blanketing |
|-----------------|---|----------------|
| Vessel/Tank No. | Description | System No. |
| 201-1 | Mixer/Settler Feed Tank #1 | GBI |
| 201-2 | Mixer/Settler Feed Tank #2 | GBI |
| 202-1 | Final Cooler Mixer/Settler #1 | GBI |
| 202-2 | Final Cooler Mixer/Settler #2 | GBI |
| 204 | Lean Tar Feed Tank | GB4 |
| 205 | Enriched Tar Tank | GB4 |
| 301 | Tar Transfer Tank | GB2 |
| 306-1 | Flushing Liquor Decanter #1 | GB2 |
| 306-2 | Flushing Liquor Decanter #2 | GB2 |
| 307 | Flushing Liquor Collecting Tank | GB2 |
| 310 | Tar Decanter Sump Tank | GB2 |
| 311 | Weak Ammonia Liquor Tank | GB2 |
| 312 | Limed WAL Holding Tank | GB2 |
| 313 | Limed WAL Clarifier | GB2 |
| 314 | Prelimer Reaction Tank | GB2 |
| 315 | Prelimer Reaction Tank | GB2 |
| 401-1 | Wash Oil Decanter #1 | GB3 |
| 401-2 | Wash Oil Decanter #2 | GB3 |
| 402-1 | Light Oil Reclaim Separator | GB3 |
| 402-2 | Primary Oil Reclaim Separator | GB3 |
| 403 | Primary Oil Separator | GB3 |
| 404 | Secondary Oil Separator | GB3 |
| 406-1 | Wash Oil Collecting Tank #1 | GB3 |
| 406-2 | Wash Oil Collecting Tank #2 | GB3 |
| 406-3 | Wash Oil Collecting Tank #3 | GB3 |
| 406-4 | Wash Oil Collecting Tank #4 | GB3 |
| 408 | Light Oil Storage Tank | GB4 |
| 409 | Light Oil Storage Tank | GB4 |
| 410-1 | Secondary Oil Condenser #1 | GB3 |
| 410-2 | Secondary Oil Condenser #2 | GB3 |
| 412-1 | Intermediate Oil Separator #1 | GB3 |
| 412-2 | Intermediate Oil Separator #2 | CB3 |
| 413 | Wash Oil Decanter Condensate and | GB3 |
| | Wash Oil Separation Sump Tank | 005 |
| 411 | Light Oil Storage Area Process | GB4 |
| | Condensate Sump | 004 |
| 504 | Tar Storage Tank | GBA |
| 505 | Tar Storage Tank | GB4 |
| 508 | Wash Oil Circulation Tank | CP4 |
| 203 | Circulating Liquor Settling Tank | 0.04 |
| 12122 | (Note: This tank is in a closed | |
| | system tied to Miver/Settler so | |
| | that gas blanketing is not directly | |
| | annlied) | |
| | Light Oil Railroad Carloading Station | CP4 |
| 207• | Mixing/Settler Area Process Condensation Summ | 004 |
| 2710-0224 | Sumplement of the recess Condensation Sump | |

 Rather than gas blanketing this condensate sump, it may be pressure controlled so that venting will only occur during intermittent addition/withdrawal of condensate from process vessels.