

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

The following NOx emissions shall apply:

- (a) 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:
 - 1. Data which clearly demonstrates that the emission limit in Condition (5)(c) is met.
 - 2. 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:
 - 1. Data which clearly demonstrates that the emission limit in Condition (5)(d) is met.
 - 2. 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:

1. Data which clearly demonstrates that the emission limit in Condition (5)(e) is met.
2. 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.

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. 4 Boiler
Coal Chemical Process
Service and Heating Torches
In-Plant Painting
Compressed Air System

ATTACHMENT II
VESSEL/TANK LIST

<u>Vessel/Tank No.</u>	<u>Description</u>	<u>Gas Blanketing System No.</u>
201-1	Mixer/Settler Feed Tank #1	GB1
201-2	Mixer/Settler Feed Tank #2	GB1
202-1	Final Cooler Mixer/Settler #1	GB1
202-2	Final Cooler Mixer/Settler #2	GB1
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	GB3
413	Wash Oil Decanter Condensate and Wash Oil Separation Sump Tank	GB3
411	Light Oil Storage Area Process Condensate Sump	GB4
504	Tar Storage Tank	GB4
505	Tar Storage Tank	GB4
508	Wash Oil Circulation Tank	GB4
203	Circulating Liquor Settling Tank (Note: This tank is in a closed system tied to Mixer/Settler so that gas blanketing is not directly applied.)	
	Light Oil Railroad Carloading Station	GB4
207*	Mixing/Settler Area Process 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.