CEDS # 5
5/3/12
MNC

Commonwealth of Virginia
Department of Environmental Quality

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MAY 0 1 2012
Tidewater Regional Office

AIR PERMIT APPLICATION
CHECK ALL PAGES ATTACHED AND LIST ALL ATTACHED DOCUMENTS

- [X] Local Government Certification Form, Page 3
- [ ] Application Fee Form, Page 4
- [ ] Document Certification Form, Page 5
- [X] General Information, Pages 6-7
- [ ] Fuel Burning Equipment, Page 8
- [ ] Stationary Internal Combustion Engines, Page 9
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- [ ] ATTACHED DOCUMENTS:
- [ ] Map of Site Location
- [ ] Facility Site Plan
- [ ] Process Flow Diagram/Schematic
- [ ] MSDS or CPDS Sheets
- [ ] Estimated Emission Calculations
- [ ] Stack Tests
- [ ] Air Modeling Data
- [ ] Confidential Information (see Instructions)
- [ ] BACT Analysis

_____
_____
_____

Check added form sheets above; also indicate the number of copies of each form in blank provided.

DOCUMENT CERTIFICATION FORM

I certify under penalty of law that this document and all attachments [as noted above] were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I certify that I understand that the existence of a permit under [Article 6 of the Regulations] does not shield the source from potential enforcement of any regulation of the board governing the major NSR program and does not relieve the source of the responsibility to comply with any applicable provision of the major NSR regulations.

SIGNATURE: James R. Cole DATE: 4/24/2012

NAME: James R. Cole REGISTRATION NO: _____

TITLE: President COMPANY: _____

PHONE: 757-245-2275 Ext 324 ADDRESS: _____

EMAIL: rcole@dominionterminal.com _____

References: Virginia Regulations for the Control and Abatement of Air Pollution (Regulations), 9 VAC 5-20-230B and 9 VAC 5-80-1140E.

GENERAL INFORMATION

Person Completing Form: Wesley Simon-Parsons	Date: 03/08/12	Registration Number: 60997
Company and Division Name: Dominion Terminal Associates, LLP		
Mailing Address: 600 Harbor Rd, Newport News, VA, 23607		
Exact Source Location – Include Name of City (County) and Full Street Address or Directions: 600 Harbor Rd, Newport News, VA, 23607		
Telephone Number: (757) 245-2275 x329	No. of Employees: 101	Property Area at Site: 100 acres
Person to Contact on Air Pollution Matters – Name and Title: Wesley Simon-Parsons, E.I.T. Civil & Environmental Supervisor	Phone Number: (757) 245-2275 x329 Fax: (757) 247-9729 Email: wparsons@dominionterminal.com	
Latitude and Longitude Coordinates **OR** UTM Coordinates of Facility:		

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Reason(s) for Submission (Check all that apply):

☐ State Operating Permit

This permit is applied for pursuant to provisions of the Virginia Administrative Code, 9 VAC 5 Chapter 80, Article 5 (SOP)

☐ New Source

☐ Modification of a Source

☐ Relocation of a Source

This permit is applied for pursuant to the following provisions of the Virginia Administrative Code:

- ☐ 9 VAC 5 Chapter 80, Article 6 (Minor Sources)
- ☐ 9 VAC 5 Chapter 80, Article 8 (PSD Major Sources)
- ☐ 9 VAC 5 Chapter 80, Article 9 (Non-Attainment Major Sources)

☒ Amendment to a Permit Dated: 09/20/06 Permit Type: ☐ SOP (Art. 5) ☐ NSR (Art. 6)

Amendment Type:

- ☐ Administrative Amendment
- ☒ Minor Amendment
- ☐ Significant Amendment

This amendment is requested pursuant to the provisions of:

- ☐ 9 VAC 5-80-970 (SOP Adm.)
- ☐ 9 VAC 5-80-980 (SOP Minor)
- ☐ 9 VAC 5-80-990 (SOP Sig.)
- ☐ 9 VAC 5-80-1270 (NSR Adm.)
- ☐ 9 VAC 5-80-1280 (NSR Minor)
- ☐ 9 VAC 5-80-1290 (NSR. Sig.)

☐ Applicability Determination for an Exemption

☐ Other (specify): _____

Explanation of Permit Request (attach documents if needed):

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY - AIR PERMITS

LOCAL GOVERNING BODY CERTIFICATION FORM

Facility Name: Dominion Terminal Associates, LLP	Registration Number: 60997
Applicant's Name: James R. Cole	Name of Contact Person at the site: Wesley Simon-Parsons, E.I.T.
Applicant's Mailing address: 600 Harbor Rd Newport News, VA 23607	Contact Person Telephone Number: (757) 245-2275 x329

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Facility location (also attach map): 600 ~~Harbor Rd,~~ Newport News, VA, 23607

Facility type, and list of activities to be conducted: Coal and Petroleum Coke Receiving, Storage, and Shipping

The applicant is in the process of completing an application for an air pollution control permit from the Virginia Department of Environmental Quality. In accordance with § 10.1-1321.1. Title 10.1, Code of Virginia (1950), as amended, before such a permit application can be considered complete, the applicant must obtain a certification from the governing body of the county, city or town in which the facility is to be located that the location and operation of the facility are consistent with all applicable ordinances adopted pursuant to Chapter 22 (§§ 15.2-2200 et seq.) of Title 15.2. The undersigned requests that an authorized representative of the local governing body sign the certification below.

Applicant's signature: James R Cole	Date: 4/24/2012

The undersigned local government representative certifies to the consistency of the proposed location and operation of the facility described above with all applicable local ordinances adopted pursuant to Chapter 22 (§§15.2-2200 et seq.) of Title 15.2. of the Code of Virginia (1950) as amended, as follows:

(Check one block)

☐ The proposed facility is **fully consistent** with all applicable local ordinances.

☐ The proposed facility is **inconsistent** with applicable local ordinances; see attached information.

Signature of authorized local government representative:	Date:
Type or print name:	Title:
County, city or town:	

[THE LOCAL GOVERNMENT REPRESENTATIVE SHOULD FORWARD THE SIGNED CERTIFICATION TO THE APPROPRIATE DEQ REGIONAL OFFICE AND SEND A COPY TO THE APPLICANT.]

GENERAL INFORMATION (CONTINUED)

For Portable Plants:

Is this facility designed to be portable? ☐ Yes ☒ No

- If yes, is this facility already permitted as a portable plant? ☐ Yes ☐ No Permit Date: _____

If not permitted, is this an application to be permitted as a portable plant? ☐ Yes ☐ No

If permitted as a portable facility, is this a notification of relocation? ☐ Yes ☐ No

- Describe the new location or address (include a site map): _____

- Will the portable facility be co-located with another source? ☐ Yes ☐ No Reg. No. _____
- Will the portable facility be modified or reconstructed as a result of the relocation? ☐ Yes ☐ No
- Will there be any new emissions other than those associated with the relocation? ☐ Yes ☐ No
- Is the facility suitable for the area to which it will be located? (attach documentation) ☐ Yes ☐ No

Describe the products manufactured and/or services performed at this facility:

List the Standard Industrial Classification (SIC) Code(s) for the facility:

List the North American Industry Classification System (NAICS) Code(s) for the facility:

List all the facilities in Virginia under common ownership or control by the owner of this facility:

Milestones: This section is to be completed if the permit application includes a new emissions unit or modification to existing operations.

Milestones*:	Starting Date:	Estimated Completion Date:
New Equipment Installation		
Modification of Existing Process or Equipment		
Start-up Dates		

*For new or modified installations to be constructed in phased schedule, give construction/installation

starting and completion date for each phrase.

STATIONARY SOURCE PERMIT TO CONSTRUCT AND OPERATE

This permit supersedes your permit dated September 13, 2004.

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution,

Dominion Terminal Associates
PO Box 967-A
Newport News, Virginia 23607
Registration No.: 60997
AFS Id. No.: 51-700-00074

is authorized to construct and operate

a coal, petroleum coke and limestone receiving, storage and shipping facility

located at

Pier 11, Harbor Road
Newport News, Virginia

in accordance with the Conditions of this permit.

Approved on **September 20, 2006**.

Maria R. Nold, Deputy Regional Director

Permit consists of 10 pages.
Permit Conditions 1 to 39.

INTRODUCTION

1. This permit approval is based on the permit application dated August 17, 1981, October 15, 2002 and May 8, 2004 including amendment information dated August 25, 1981, October 19, 1989, April 22, 1992, December 11, 2002, July 13, 2004 and April 3, 2006. Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action.

   Words or terms used in this permit shall have meanings as provided in 9 VAC 5-10-10 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. The regulatory reference or authority for each condition is listed in parentheses () after each condition.

   Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the DEQ or the Board for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact.

   The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, § 2.2-3700 through 2.2-3714 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.

PROCESS REQUIREMENTS

2. **Equipment List** - Equipment at this facility consists of the following:

Equipment to be constructed:			
Reference No.	**Equipment Description**	**Rated Capacity**	**Air Pollution Control(s)**
~~UL-1~~	~~Marine vessel grab unloader~~	~~2000 tons/hr~~	~~Enclosed grab~~
~~UL-2~~	~~Marine vessel grab unloader~~	~~2000 tons/hr~~	~~Enclosed grab~~
~~BH-1~~	~~Ship unload hopper~~	~~3400 tons/hr~~	~~Fabric filter (DC-2)~~
~~BH-2~~	~~Ship unload hopper~~	~~3400 tons/hr~~	~~Fabric filter (DC-3)~~
~~BC-14~~	~~Ship unload conveyor~~	~~6800 tons/hr~~	~~Fully enclosed~~
~~BC-15~~	~~Ship unload conveyor~~	~~6800 tons/hr~~	~~Fully enclosed~~
Equipment permitted prior to the date of this permit:			
RD-1	Tandem rotary rail car dumper	5800 tons/hr	Enclosed bldg. with water spray
~~BSSS~~-1	Surge silo	1000 tons	Fabric filter (DC-1)
~~BSSS~~-2	Surge silo	3800 tons	Fabric filter (DC-~~5~~6)
~~BSSS~~-3	Surge silo	4100 tons	Fabric filter (DC-~~6~~7)
BC-1 through BC-13	Various coal handling and storage conveyors	Largest belt 6800 tons/hr	All fully enclosed (except 4, 7 and 13 – yard belts)
S/R-1 & S/R-2	Two (2) rotary stacker/reclaimers	5900 tons/hr stacking, 6500 tons/hr reclaim	Wet suppression
~~S~~/R-3	Rotary reclaimer	6800 tons/hr reclaim only	Wet suppression
OS-1 through OS-4	Coal and~~,~~ coke ~~and limestone~~ storage piles	Up to 350,000 tons	Wet suppression system (computerized)
SL-1	Ship/barge loader	6800 tons/hr	Wet suppression, telescoping loading chutes

Specifications included in the permit under this Condition are for informational purposes only and do not form enforceable terms or conditions of the permit.
(9 VAC 5-80-1180 D 3)

~~3. **Emission Controls** - Particulate emissions from each marine vessel grab unloader (UL-1 and UL-2) shall be controlled by using closed grab buckets. The grab buckets shall be completely closed during movement of material from marine vessels to receiving hoppers.~~
~~(9 VAC 5-80-1180 and 9 VAC 5-50-260)~~

~~4. **Emission Controls** - Particulate emissions from each marine vessel unloading hopper (BH-1 and BH-2) shall be controlled by a fabric filter (DC-2 and DC-3). The fabric filters shall be provided with adequate access for inspection.~~
~~(9 VAC 5-80-1180 and 9 VAC 5-50-260)~~

~~5.~~3. **Emission Controls** - Particulate emissions from the enclosed rotary rail car dumper building (RD-1) shall be controlled by wet suppression, which, if necessary, shall include the use of a surfactant. The surfactant to water ratio shall be in accordance with the manufacturer's recommendations. The minimum amount of water applied shall be 130 gallons per tandem dump. Compliance shall be achieved if there are no visible emissions.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

~~6.~~4. **Emission Controls** - Particulate emissions from the transfer points and stacker/reclaimers (S/R-1, 2 and R-3) shall be controlled by wet suppression as necessary and by wet suppression with surfactant as necessary. Continuous wetting is not mandatory.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

~~7.~~5. **Emission Controls** - Particulate emissions from the conveyor system shall be controlled by conveyor hoods and wind guards. Ground level reclaim conveyor belts shall be controlled by wet suppression as necessary.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

~~8.~~6. **Fugitive Dust Emission Controls** – Fugitive dust emissions from the storage piles shall be controlled by a wet suppression system capable of wetting the entire storage area. Wet suppression cycles shall be implemented in accordance with Appendix A. Each cycle shall consist of no less than 35,500 gallons of water and, with assistance from other equipment, attain 100 percent coverage of the storage area. The wet suppression system shall be provided with adequate access for inspection.
(9 VAC 5-50-90, 9 VAC 5-80-1180, and 9 VAC 5-50-260)

~~9.~~7. **Fugitive Dust Emission Controls** – All storage piles shall be truncated, stacker/reclaimers used to build flat top piles, ~~and~~ or the top compacted to minimize fugitive emissions.
(9 VAC 5-50-90, 9 VAC 5-80-1180, and 9 VAC 5-50-260)

~~10.~~8. **Emission Controls** – Wet suppression shall be applied as necessary to all incoming loaded railcars located within facility boundaries if they are not to be dumped within 24 hours.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

~~11.~~9. **Emission Controls** – Work areas shall be monitored and wet suppression applied as necessary to control emissions while operating a piece of auxiliary handling equipment (e.g., front end loader, bulldozer, etc.).
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

~~12.~~10. **Emission Controls** – Wet suppression shall be utilized when operating a particular piece of handling equipment (e.g., a dumper, a conveyor, etc.), unless the use of such controls would cause a safety hazard or damage to the equipment from freezing.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

~~13.~~11. **Emission Controls** – Particulate emissions from each surge silo (~~BSSS~~-1, ~~BSSS~~-2 and ~~BSSS~~-3) shall be controlled by a fabric filter (DC-1, DC-~~5~~6 and DC-~~6~~7). The fabric filters shall be provided with adequate access for inspection.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

~~14. **Monitoring – Marine Vessel Unloading Hoppers** – Once per ship, within the initial 2 hours after unloading begins, the permittee shall observe the baghouse fan motor amperage for the marine vessel unloading hoppers (BH-1 and BH-2). An acceptable range shall be established that reflects good air pollution control practice. An observation outside the acceptable range shall indicate the need for corrective action. The permittee shall maintain a log of the date, time, location, name of person performing the observation, the motor amperage reading, whether or not visible emissions were detected, and any corrective actions taken, if necessary. These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-1180 and 9 VAC 5-50-20)~~

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~~15.~~12. **Monitoring – Fabric Filters** – Once per day, when in operation, the exhaust from each surge silo fabric filter (DC-1, DC-~~5~~6 and DC-~~6~~7) shall be observed by the permittee for a period of no less than one minute for the presence of visible emissions. If visible emissions are observed, the permittee shall perform corrective actions to eliminate the cause of the visible emissions. The permittee shall maintain a log of the date, time, location, name of person performing the observation, whether or not visible emissions were detected, and any corrective actions taken, if necessary. These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-1180 D, 9 VAC 5-50-20 C, and 9 VAC 5-50-260)

~~16. **Monitoring – Fabric Filters** – Once per day, when in operation, the exhaust from each marine vessel unloading hopper fabric filter (DC-2 and DC-3) shall be observed by the permittee for a period of no less than one minute for the presence of visible emissions. If visible emissions are observed, the permittee shall perform corrective actions to eliminate the cause of the visible emissions. The permittee shall maintain a log of the date, time, location, name of person performing the observation, whether or not visible emissions were detected, and any corrective actions taken, if necessary. These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-1180 D, 9 VAC 5-50-20 C, and 9 VAC 5-50-260)~~

~~17.~~13. **Monitoring – Process Equipment** – Once per day, when in operation, particulate emissions from ~~the marine vessel grab unloaders (UL-1 and UL-2),~~ the enclosed rotary rail car dumper building (RD-1) and the conveyor systems shall be observed by the permittee for a period of no less than one minute for the presence of visible emissions. If visible emissions are observed, the permittee shall perform corrective actions to eliminate the cause of the visible emissions. The permittee shall maintain a log of the date, time, location, name of person performing the observation, whether or not visible emissions were detected, and any corrective actions taken, if necessary. These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-1180 D, 9 VAC 5-50-20 C, and 9 VAC 5-50-260)

~~18.~~14. **Wet Suppression System** – The wet suppression system for the storage piles shall be implemented as specified in Appendix A or by any other procedure as may be approved by the DEQ prior to use. Such approval shall be contingent on adequate documentation that any alternative procedure shall achieve at least as high an efficiency as Appendix A. This applies to all other dust control measures required by this permit. Request for changes in procedures shall be accompanied by an explanation of the proposed changes and the anticipated effect they shall have. These requests, if approved by the DEQ, shall be subject to a test and evaluation procedure prior to being accepted as permanent changes to the control procedures.
(9 VAC 5-50-260)

OPERATING LIMITATIONS

~~19.~~15. **Storage** – On a daily annual average basis, the maximum quantity of coal~~,~~ and petroleum coke ~~and limestone~~ (combined) in storage shall not exceed 1,100,000 tons, and at no time shall more than 1,400,000 tons of coal~~,~~ and petroleum coke ~~and limestone~~ (combined) be stored at the facility.
(9 VAC 5-80-1180)

~~20.~~16. **Throughput** - The throughput of coal/petroleum coke/limestone (combined), via rail and ship, shall not exceed 24,000,000 tons per year, calculated monthly as the sum of each consecutive 12-month period. ~~No more than 10,000,000 tons per year of coal/petroleum coke/limestone (combined) shall be imported via ship.~~ Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-1180)

EMISSION LIMITS

~~21.~~17. **Emission Limits** – Particulate emissions from the operation of the coal/petroleum coke~~/limestone~~ receiving, storage and shipping facility shall not exceed the limits specified below:

Particulate Matter (PM)	54.0 tons/yr
PM-10	9.7 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 3-20.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

~~22.~~18. **Visible Emission Limit** – There shall be no detectable visible emissions from the enclosed rotary rail car dumper building (RD-1). Failure to meet this limitation due to the presence of water vapor shall not be a violation.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

~~23.~~19. **Visible Emission Limit** – There shall be no detectable visible emissions from any fabric filter exhaust stack (DC-1 – DC-6/7).
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

~~24.~~20. **Visible Emission Limit** - There shall be no detectable visible emissions from the conveyor belt transfer points. Failure to meet this limitation due to the presence of water vapor shall not be a violation.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

~~25.~~21. **Monitoring PM_{10}** – Dominion Terminal Associates shall install and operate a PM10 monitor at the Newport News Housing Authority Maintenance Building (180-J), or such other location as approved by DEQ, to ascertain the ambient air quality in the area surrounding the coal/petroleum coke~~/limestone~~ terminal. Operation shall be in accordance with Appendix J of 40 CFR Part 50.
(9 VAC 5-160-170)

This change is to allow for relocating the PM10 when the Housing Authority demolishes the building; projected for the spring of 2012.

~~26.~~22. **Control of Emissions** – The following actions are considered detrimental to the control of coal/petroleum coke~~/limestone~~ emissions:

a. Failure to stop any coal/petroleum coke~~/limestone~~ movement operation when it becomes known that installed air pollution control systems are inoperative and would cause excess emissions.
b. Failure to stop a coal/petroleum coke~~/limestone~~ movement operation when it becomes known that the coal/petroleum coke~~/limestone~~ handling equipment needed for that operation is malfunctioning or operating significantly below designated specifications.
c. Failure of equipment operators to take immediate precautions to preclude fugitive dust emissions from the operation of bulldozers, front-end loaders, automobiles, or trucks (e.g., the use of water suppressant or limiting the speed of movement to below 10 miles per hour.)
d. Failure of operational personnel to give precedence to designated personnel with the responsibility for controlling dust emissions.

(9 VAC 5-80-1180 and 9 VAC 5-50-260)

RECORDS

~~27.~~23. **On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

a. Annual throughput of coal/petroleum coke~~/limestone~~ (combined), via ~~rail~~ barge and ship, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

~~b. Annual throughput of imported coal/petroleum coke/limestone (combined), via ship, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.~~

~~c.~~b. Records of visible emission observations for fabric filters (DC-1, DC-~~5~~6 and DC-~~6~~7) as required in Condition ~~15~~12.

~~d. Records of visible emission observations for fabric filters (DC-2 and DC-3) as required in Condition 16.~~

~~e.~~c. Records of visible emission observations for the process equipment as required in Condition ~~17~~14.

~~f. Records of baghouse fan motor amperage measurement observations for the marine vessel unloading hoppers (BH-1 and BH-2) as required in Condition 14.~~

~~g.~~d. Records of PM10 monitoring operations as required by Appendix J of 40 CFR Part 50.

~~h.~~e. Maximum daily quantity of coal/petroleum coke~~/limestone~~ (combined) in storage.

~~i.~~f. Annual daily average of coal/petroleum coke~~/limestone~~ (combined) in storage.

~~f.~~g. Records of dust control measures as required by Appendix A.

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These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-1180 and 9 VAC 5-50-50)

~~INITIAL COMPLIANCE DETERMINATION~~

~~28. Visible Emissions Evaluation - Initial performance tests of fugitive visible emissions shall be conducted by the permittee on each grab unloader (UL-1 and UL-2), conveyor transfer points and hopper (BH-1 and BH-2) used to unload vessels. There shall be no visible emissions or releases from the grab unloaders while materials are being transferred from the vessel to the hoppers or from the hoppers while receiving materials being transferred. Observations shall be made over six (6) consecutive unloading cycles. The details of the tests are to be arranged with the TRO Air Compliance Manager. The evaluation shall be performed to demonstrate compliance within 60 days after achieving the maximum production rate but in no event later than 180 days after start-up of the permitted facility. One copy of the test results shall be submitted to the TRO Air Compliance Manager within 45 days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-50-30, 9 VAC 5-80-1200, and 9 VAC 5-50-410)~~

~~NOTIFICATIONS~~

~~29. Initial Notifications - The permittee shall furnish written notification to the Tidewater Regional Office of:~~

~~a. The actual date on which construction of the marine unloading facilities commenced within 30 days after such date.~~

~~b. The anticipated start-up date of the marine unloading facilities postmarked not more than 60 days nor less than 30 days prior to such date.~~

~~c. The actual start-up date of the marine unloading facilities within 15 days after such date.~~

~~d. The anticipated date of the VEE performance tests of the marine unloading facilities postmarked at least 30 days prior to such date.~~

~~Copies of the written notification referenced in items a through d above are to be sent to:~~

~~Associate Director~~
~~Office of Air Enforcement (3AP10)~~
~~U. S. Environmental Protection Agency~~
~~Region III~~
~~1650 Arch Street~~
~~Philadelphia, PA 19103-2029~~
~~(9 VAC 5-50-50 and 9 VAC 5-80-1180)~~

GENERAL CONDITIONS

~~30. **Permit Invalidation** - The portions of this permit regarding construction of the marine unloading facilities shall become invalid, unless an extension is granted by the DEQ, if:~~

~~a. A program of continuous construction is not commenced within the latest of the following:~~

~~i. 18 months from the date of this permit;;~~

~~ii. Nine months from the date that the last permit or other authorization was issued from any other governmental entity;~~

~~iii. Nine months from the date of the last resolution of any litigation concerning any such permits or authorization; or~~

~~b. A program of construction is discontinued for a period of 18 months or more, or is not completed within a reasonable time, except for a DEQ approved period between phases of a phased construction project.~~
~~(9 VAC 5-80-1210)~~

~~31.~~24. **Permit Suspension/Revocation** - This permit may be suspended or revoked if the permittee:

a. Knowingly makes material misstatements in the permit application or any amendments to it;

b. Fails to comply with the conditions of this permit;

c. Fails to comply with any emission standards applicable to a permitted emission unit~~included in this permit~~;

d. Causes emissions from the stationary source which result in violations of, or interfere with the attainment and maintenance of, any ambient air quality standard; or

e. Fails to operate in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect at the time an application for this permit is submitted.

(9 VAC 5-80-1210 F)

~~32.~~25. **Right of Entry** - The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:

a. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;

b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;

c. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and

d. To sample or test at reasonable times.

For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.
(9 VAC 5-170-130 and 9 VAC 5-80-1180)

~~33.~~26. **Maintenance/Operating Procedures** – At all times, including periods of start-up, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

During each shift, one designated person shall be responsible for compliance with the procedures of Appendix A. Actions required in support of these procedures shall take precedence over routine coal, petroleum coke and limestone handling procedures. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment, monitoring devices and process equipment which affect such emissions:

a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.

b. Maintain an inventory of spare parts.

c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.

d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.
(9 VAC 5-50-20 E and 9 VAC 5-80-1180 D)

Comment [d1]: It is our understanding from Mr. Ken Pinzel that this highlighted portion of the permit has been made optional and as such, we would like to request that it be eliminated from our amended permit.

~~34.~~27. **Record of Malfunctions** – The permittee shall maintain records of the occurrence and duration of any bypass, malfunction, shutdown or failure of the facility or its associated air pollution control equipment that results in excess emissions for more than one hour. Records shall include the date, time, duration, description (emission unit, pollutant affected, cause), corrective action, preventive measures taken and name of person generating the record.
(9 VAC 5-20-180 J and 9 VAC 5-80-1180 D)

~~35.~~28. **Notification for Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Director, Tidewater Regional Office of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone, telegraph or other electronic communication. Such notification shall be made as soon as practicable but no later than four daytime business hours after the malfunction is discovered. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within two weeks of discovery of the malfunction. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Director, Tidewater Regional Office.
(9 VAC 5-20-180 C and 9 VAC 5-80-1180)

~~36.~~29. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.
(9 VAC 5-20-180 I and 9 VAC 5-80-1180)

~~37.~~30. **Change of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current permit issued to the previous owner. The new owner shall notify the Director, Tidewater Regional Office of the change of ownership within 30 days of the transfer.
(9 VAC 5-80-1240)

~~38.~~31. **Registration/Update** – Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to request by the DEQ or the Board for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact. The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, § 2.1-340 through 2.1-348 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.
(9 VAC 5-170-60 and 9 VAC 5-20-160)

~~39.~~32. **Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.
(9 VAC 5-80-1180)

APPENDIX A

This appendix is to be considered a part of the Department of Environmental Quality permit to operate the Dominion Terminal Associates (Dominion) coal/petroleum coke/limestone terminal. All procedures outlined in this appendix are enforceable as a condition of operating.

Dominion shall record the following parameters on an hourly basis:

Average hourly temperature (T) in degrees Fahrenheit

Average hourly relative humidity (RH)

Average hourly wind speed in miles per hour (WS)

Average hourly wind direction (DIR)

Hourly rain in inches

Hourly occurrence of fog (visibility of 4 miles or less)

Density of air ρ (lb/ft^3) from the equation $\rho = -0.0001478(T) + 0.0853$

Viscosity of air (1.68μ lb/ft-hr) from the following equations

$-24.88 < T \leq 32$	$1.68\mu = 0.0001207(T) + 0.0655479$
$32.00 < T \leq 64.40$	$1.68\mu = 0.0001493(T) + 0.0646353$
$64.40 < T \leq 104$	$1.68\mu = 0.0001344(T) + 0.0655899$

K as determined by the equation: $K = WS(T/RH)(\rho/\mu\ 1.68)$

Dominion shall use the data listed above for a computerized spreadsheet in a format as described below, maintaining the records to be submitted to the Board upon request.

The program outlined in Appendix A when properly programmed will provide for an hourly visual display (graph) which depicts the following:

a. CE_{unc} for the KT predicted: will change by the new hourly prediction of KT. At the end of the day will represent the potential uncontrolled coal and petroleum coke emissions experienced in the past 24 hours.

b. Slope of the uncontrolled intended movement with time for the PASS-1 system without controls: will change by the new hourly prediction of KT.

c. PASS-1 line, with hourly markings in proportion depicting the controlled to the hourly K, emission level attained when controls are applied. This line's slope and value will vary as suppression cycles are applied. The extension of this line depicts the near low end of the day value in $\mu g/m^3$, if no further cycles are applied and is the primary control medium. It generates from the uncontrolled slope line (b.).

d. PASS-0 line, depicting the controlled emissions level attained when controls are applied. This line's slope as in (c) will vary as suppression cycles are applied. The extension of this line depicts the near high end of the day value in $\mu g/m^3$, if no further cycles are applied. When, due to cycles, the PASS-0 line and the PASS-1 line are one and the same, their extension will be the end of the day value attained for coal and petroleum coke emissions in $\mu g/m^3$. It generates from the uncontrolled CE_{unc} line (a.).

e. PASS-0 (180) line, with hourly markings in proportions to the hourly K, depicting the controlled emission level when the wind direction is between 180° and 270°T. This line is activated by wind direction inputs and holds the last highest value during periods when the wind is out of quadrant. Its extension represents the near end of day value in $\mu g/m^3$ at station 180-J if no further cycles are applied. This line also generates from the uncontrolled CE_{unc} line (a.).

COLUMN 1

TM Records the hourly values for a 24 hour day, beginning with a 1 at 0100 hours and ending with a 24 at 2400 hours.

COLUMN 2

K Computes and records the hourly value of K as follows:

$$K = ((WS * TEMP) / RH) * (\rho/1.68\mu)$$

COLUMN 3

KD Computes and records the K factor adjusted for rain and freeze effects. KD is used to define the need for a cycle (C_i) administered by the computer controlled water suppression system. KD is computed as follows:

$$KD = K * F_{fr}$$

COLUMN 4

C_i Records the total number of cycles credited on the hour. A 20-minute suppression cycle (35,500 gallons of water) sprayed from the computer controlled water suppression system counts as one cycle as well as a rain event greater than or equal to 0.0225 inches. Rain greater than or equal to 0.01 inches but less than 0.0225 inches is counted as one C_i if the adjusted rain amount for the hour is less than the actual rain amount.

COLUMN 5

SYM Records the type of suppression cycle credited for the hour. Where:

A: represents an ASSURANCE CYCLE (one 20-minute spray cycle per hour from the computer controlled water suppression system).

F: represents a continuous cycle (three 20-minute spray cycles per hour) administered to recover from a freeze event.

R: represents a rain event credited as a cycle.

1: represents a DEMAND I cycle, where KD is greater than or equal to 10, but less than 15.

2: represents a DEMAND II cycle, where KD is greater than or equal to 15, but less than 30.

3: represents a DEMAND III cycle, where KD is greater than or equal to 30, but less than 45.

4: represents a DEMAND IV cycle, where KD is greater than or equal to 45.

COLUMN 6

ΣC_i Records the total number of cycles credited since 0100 or the sum of COLUMN 4.

COLUMN 7

IR Records the amount of rain in inches for the hour as measured by the rain gauge.

Note: CIR, the total amount of rain credited for the hour is computed as follows:

CIR = IR if it is raining, but adds 0.0225 to IR if a DEMAND IV RBC is administered.

IRadj, the adjusted rain amount for the hour is also computed to include the effects of non-consecutive rains, where:

$IRadj = CIR_{n-1} / (HRS_{n-1} + 1)$ when IR > 0 and HRS > 0

$IRadj = SUMIR_{n-1} / (HRS_{n-1} + 1)$ when IR > 0, SUMIR ≥ 0.0225; and HRS = 0

IRadj = 0 when IR = 0, and SUMIR < 0.0225