

Registration No:	60997	AFS Plant ID:	700-00074
Plant Name:	Dominion Terminal Associates	Classification:	Synthetic minor
Location Address:	Harbor Rd	Region:	TRO

TJR 8/23/01 mailed 8/23/01





## Commonwealth of Virginia

Registration No: 60997

AFS Plant ID: 700-00074

Plant Name: Dominion Terminal Associates

Classification: Synthetic minor

Location Address: Harbor Rd

Region: TRO

## INSPECTION CHECKLIST

Permit Date or Basis	#	Requirement Narrative	Observation	Comp Status
02-14-00	3	Particulate emissions from the enclosed rotary rail car dumper shall be controlled by wet suppression, which 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.	During the inspection the rail car dumper was not in operation. The source stated that 140 gallons of water are used during the operation.	In
02-14-00	4	Particulate emission from the transfer points and stacker/reclaimers shall be controlled by wet suppression as necessary and by wet suppression with surfactant as necessary. Continuous wetting is not mandatory.	No fugitive emissions were detected from the stacker/reclaimers during the inspection.	In
02-14-00	5	Particulate emissions from the conveyor belts shall be controlled by conveyor hoods and wind guards. Ground Level reclaim conveyor belts shall be controlled by wet suppression as necessary.	No fugitive emissions were detected from the conveyor belts during the inspection.	In
02-14-00	6	Fugitive coal/coke dust emissions from the storage piles shall be controlled by a wet suppression system capable of wetting the entire coal and petroleum coke 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 attain 100 percent coverage of the coal and petroleum coke storage area. The wet suppression system shall be provided with adequate access for inspection.	The fugitive emissions from the storage piles is controlled by the K-Factor system. The K-Factor system cycles the 75 rainbirds located throughout the facility. One cycle applies 36,000 gallons of water to the storage piles. The cycle was started for DEQ evaluation and it appeared to cover the storage piles adequately.	In
02-14-00	7	All coal piles shall be truncated and the top compacted to minimize fugitive coal dust emissions.	No fugitive emissions were detected from the storage piles during the inspection.	In



## Commonwealth of Virginia

Registration No: 60997

AFS Plant ID: 700-00074

Plant Name: Dominion Terminal Associates

Classification: Synthetic minor

Location Address: Harbor Rd

Region: TRO

## INSPECTION CHECKLIST

Permit Date or Basis	#	Requirement Narrative	Observation	Comp Status
02-14-00	8	All petroleum coke storage piles shall be truncated using the stacker/reclaimers to build flat top piles to minimize fugitive coke emissions.	No fugitive emissions were detected from the storage piles.	In
02-14-00	9	The permittee shall apply wet suppression as necessary to all incoming loaded coal and petroleum coke trains located within facility boundaries if they are not to be dumped within 24 hours.	The source has an automatic water sprayer which activates when rail cars enter the facilities property. The source maintains a water truck which can apply water as needed to specific areas.	In
02-14-00	10	When the permittee is using a piece of auxiliary coal and/or petroleum coke handling equipment (e.g., front end loader, bulldozer), the area to be worked shall be monitored and wet suppression shall be applied as necessary to control emissions.	No fugitive emissions were detected while the bulldozer was in operation near the storage piles.	In
02-14-00	11	When the permittee is using a particular piece of coal and/or petroleum coke handling equipment (e.g., a dumper, a conveyor, ect), it shall utilize the wet suppression controls for that piece of equipment unless the use of such equipment would cause a safety hazard or damage to the equipment from freezing.	No fugitive emissions were detected from the conveyor system during the inspection.	In





## Commonwealth of Virginia

Registration No: 60997

AFS Plant ID: 700-00074

Plant Name: Dominion Terminal Associates

Classification: Synthetic minor

Location Address: Harbor Rd

Region: TRO

## INSPECTION CHECKLIST

Permit Date or Basis	#	Requirement Narrative	Observation	Comp Status
02-14-00	12	Particulate emissions from each surge silo shall be controlled by a fabric filter with at least 99% collection efficiency. The fabric filters shall be provided with adequate access for inspection.	The source has three silos (SS1, SS2, SS3) used for storage during transfers of materials. The single silo (SS1), which stores materials from rail cars to be transferred to the yard, has a baghouse to control particulates. No material was being transferred to the yard for storage therefore the silo and baghouse was not in operation. The two silos (SS2 and SS3), which stores material to be transported to a cargo ship or barge, are equipped with two baghouses. The baghouses were in operation during the inspection with no visible emissions detected. The storage silo (SS3) baghouse exhibited a differential pressure reading of 0.8 inches of water and baghouse for the other storage silo (SS2) a differential pressure of 3.1 inches of water was exhibited. Pulse jet is the method used to remove particles from the bags every 8 to 10 seconds.	In
02-14-00	14	The fabric filter for the surge silo shall be equipped with devices to continuously measure the differential pressure drop across the fabric filter. Each monitoring device shall be installed in a readily accessible location and shall be maintained by the permittee such that they are in proper working order at all times. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the fabric filter is operating.	The silos were equipped with In differential pressure guages to measure the pressure drop in the baghouse. The gauges appeared to be in good condition.	





## Commonwealth of Virginia

Registration No: 60997      AFS Plant ID: 700-00074  
 Plant Name: Dominion Terminal Associates      Classification: Synthetic minor  
 Location Address: Harbor Rd      Region: TRO

## INSPECTION CHECKLIST

Permit Date or Basis	#	Requirement Narrative	Observation	Comp Status
02-14-00	16	The maximum quantity of coal and petroleum coke in storage at any one time shall not exceed $1.4 \times 10^6$ tons.	The maximum quantity stored at one time from August 2000 to July 2001 is $5.1 \times 10^5$ tons.	In
02-14-00	17	The throughput of coal and petroleum coke shall not exceed $24 \times 10^6$ tons per year, calculated monthly as the sum of each consecutive 12 month period.	The total throughput of coal and petroleum coke from August 2000 to July of 2001 is $6.6 \times 10^6$ tons.	In
02-14-00	19	Visible emissions from the enclosed rotary rail car dumper shall not exceed 0 percent opacity as determined by the EPA Method 9.	The rotary rail car dumper was not in operation during the inspection. No visible emissions were detected.	In
02-14-00	20	Visible emissions from the fabric filter shall not exceed 0 percent opacity as determined by the EPA Method 9.	No visible emissions were detected from any of the baghouses during the inspection.	In
02-14-00	24	<p>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:</p> <ul style="list-style-type: none"> <li>a. Annual throughput of coal and petroleum coke, calculated monthly as the sum of each consecutive 12 month period.</li> <li>b. Maximum daily quantity of coal and petroleum coke in storage.</li> <li>c. Records of dust control measures as required by Appendix A.</li> </ul> <p>These records shall be available for inspection by the DEQ and shall be current for the most recent five years.</p>	<p>The source provided records for the throughput of coal and petroleum coke and maximum quantity of coal and petroleum coke stored at the facility. Records of the K-Factor system was made available for review. Preventitive maintenance is done through Maximo, a computer database. The database prints out tasks to be handled and once completed the information is entered back into the database. Examples of these reports were provided to DEQ staff for evaluation.</p>	In

\*\*\*OCR\*\*\*

The following pages contain the Optical Character Recognition text of the preceding scanned images.

VIIRINIA DE RTNIFNT or  
ENVIRONMENTAL QUALITY

Commonwealth of Virginia

Registration No: 60997 AFS Plant ID: 700-00074

Plant Name: Dominion Terminal Associates Classification: Synthetic minor

Location Address: Harbor Rd Region: TRO

#### AIR INSPECTION REPORT

Inspection Date: 08/10/01 Contact Name:

Level: 2 Contact Phone No:

Inspector: Daniel B Gaidos Air Progr Subpart

SIP

Inspection Result: In Compliance

Reason:

Conduct CMS Inspection ( $\geq$  level 2)

#### Inspector Comments:

Dominion Terminal Associates currently has a February 2000 permit to operate a coal

storage and petroleum storage and export facility in Newport News. Coal and petroleum coke

material is transported to the facility by rail cars. The rail cars are unloaded and the

material is transported to a surge silo. From there the material is placed in to areas in the

facility by a stacker/reclaimer. The material from the stacker/reclaimer is transported by

conveyors to two storage silos. Once filled the material is transported by conveyors to the

pier where the material is unloaded into a cargo ship or barge. The facility is equipped with

the K-Factor program, which was implemented by Simpson Weather Service consulting/research

firm to control fugitive coal dust. This computerized system considers weather conditions

such as temperature, wind speed, wind direction, and humidity to determine the number of

cycles required to adequately control fugitive emissions.

Dominion Terminal Associates operates, maintains, supplies, and retrieves filters from a

PM 10 monitor located approximately 200 feet across from the facility on the top of the

Newport News Housing Authority Maintenance building. This monitor runs synonymously with the

other PM 10 monitors located throughout the region. The monitoring results are submitted to

DEQ-TRO on a quarterly basis for review.

22

Inspector's Signature/Date    bleCager's SignaturW/Date



ENVIR, @%%[Fl. TAL 1'IL ALITY  
Commonwealth of Virginia

Registration No: 60997 AFS Plant ID: 700-00074

Plant Name: Dominion Terminal Associates Classification: Synthetic minor

Location Address: Harbor Rd Region: TRO

#### INSPECTION CHECKLIST

Permit Date Recluirement Narrative Observation Comp  
or Basis Status

02 - 1 4 -0 0 3 Particulate emissions from the During the inspection the In enclosed rotary rail car dumper rail car dumper was not in shall be controlled by wet operation. The source suppression, which shall include the stated that 140 gallons of use of a surfactant. The surfactant water are used during the to water ratio shall be in operation. accordance with the manufacturer's recommendations. The minimum amount of water applied shall be 130 gallons pertandem dump. Compliance shall be achieved if there are no visible emissions.

02-14-00 4 Particulate emission from the No fugitive emissions were In transfer points and detected from the stacker/reclaimers shall be stacker/reclaimers during controlled by wet suppressi(Dn as the inspection. necessary and by wet suppression with surfactant as necessary. Continuous wetting is not mandatory.

02-14-00 5 Particulate emissions from the No fugitive emissions were In conveyor belts shall be controlled detected from the conveyor by conveyor hoods and wind guards. belts during the inspection. Ground Level reclaim conveyor belts shall be controlled by wet suppression as necessary.

02-14-00 6 Fugitive coal/coke dust emissions The fugitive emissions from In from the storage piles shall be the storage piles is controlled by a wet suppression controlled by the K-Factor system capable of wetting the entire system. The K-Factor system coal and petroleum coke storage cycles the 75 rainbirds area. Wet suppression cycies shall located throughout the be impiemented in accordance with facility. one cycle applies Appendix A. Each cycle shall 36,000 gallons of water to consist of no less than 35,500 the storage piles. The gallons of water and attain 100 cycle was started for DEQ percent coverage of the coal and evaluation and it appeared petroleum coke storage area. The to cover the storage piles vie t @-@ i-' pF,ression system adequently. proNiided with adequate access for inspection.

02-14-00 7 All coal piles shall be truncated No fugitive emissions were In and the top compacted to minimize detected from the storage fug@'tive coal dust emissions. piles during the inspection.

VIRGINIA nF P.1',TFIT  
ENA ]RUNNIENTAL QUALITY

Commonwealth of Virginia

Registration No: 60997 AFS Plant ID: 700-00074

Plant Name: Dominion Terminal Associates Classification: Synthetic minor

Location Address: Harbor Rci Region: TRO

-- -1  
INSPECTION CHECKLIST

Permit Date Requirement Narrative Observation Comp  
or Basis Status

02-14-00 8 All petroleum coke storage piles No fugitive emissions were In  
shall be truncated using the detected from the storage  
stacker/reclaimers to build flat top piles.  
piles to minimize fugitive coke  
emissions.

02-14-00 9 The permittee shall apply wet The source has an automatic In  
suppression as necessary to all water sprayer which  
incoming loaded coal and petroleum activates when rail cars  
coke trains located within facility enter the facilities  
boundaries if they are not to be property. The source  
dumped within 24 hours. maintains a water truck  
which can apply water as  
needed to specific areas.

02- 1 4 -0 0 10 When the permittee is using a piece No fugitive emissions were  
In  
of auxiliary coal and/or petroleum detected while the bulldozer  
coke handling equipment (e.g., front was in operation near the

end loader, buiidozer), the arE,a to storage piles.  
be worked shall be monitored and wet  
suppression shall be applied as  
necessary to control emissions.

02-14-00 11 When the permittee is using a No fugitive emissions were In  
particular piece of coal and/or detected from the conveyor  
petroleum coke handling equipment system during the  
(e.g., a dumper, a conveyor, ect), inspection.  
it shall utilize the wet suppression  
controls for that piece of equipment  
unless the use of such equipment  
would cause a safety hazard or  
damage to the equipment from  
freezing.



V1R(;1N1A U P.T',IFNT  
EP4VIRONNIENTAL QUAL, I

Commonwealth of Virginia

Registration No: 60997 AFS Plant ID: 700-00074

Plant Name: Dominion Terminal Associates Classification: Synthetic minor

Locat-lon Address: Harbor Rd Region: TRO

#### INSPECTION CHECKLIST

Permit Date Requirement Narrative Observation Comp  
or Basis Status

02-14-00 12 Particulate emissions from each The source has three silos In  
surge silo shall be controlled by a (SS1, SS2, SS3) used for  
fabric filter with at least 99% storage during transfers of  
collection efficiency. The fabric materials. The single silo  
filters shall be provided with (SS1), which stores  
adequate access for inspection. materials from rail cars to  
be transfered to the yard,  
has a baghouse to control  
particulates. No material  
was being transfered to the  
yard for storage therefore  
the silo and baghouse was  
not in operation. The two  
sios (SS2 and SS3), which  
stores material to be  
transported to a cargo ship  
or barge, are equipped with  
two baghouses. The

baghouses were in operation during the inspection with no visible emissions detected. The storage silo (SS3) baghouse exhibited a differential pressure reading of 0.8 inches of water and baghouse for the other storage silo (SS2) a differential pressure of 3.1 inches of water was exhibited. Pulse jet is the method used to remove particles from the bags every 8 to 10 seconds.

02-14-00 14 The fabric filter for the surge silo The silos were equipped with In

shall be equipped with devices to differential pressure guages continuously measure the to measure the pressure drop differential pressure drop across in the baghouse. The gauges the fabric filter. Each monitoring appeared to be in good device shall be installed in a condition.

shall be maintained by the permittee such that they are in proper working order at all times. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the fabric filter is operating.

VIRGINIA DE RTNIFIT  
ENVIRONNIENTAL QUALITY

Commonwealth of Virginia

Registration No: 60997 AFS Plant ID: 700-00074

Plant Name: Dominion Terminal Associates Classification: Synthetic minor

Location AdcLress: Harbor Rci Region: TRO

INSPECTION CHECKLIST

Permit Date Recluirement Narrative Observation Comp  
or Basis Status

02-14-00 16 The maximum quantity of coal and The maximum quantity stored In  
petroleum coke in storage at any one at one time from August 2000  
time shall not exceed  $1.4 \times 10^6$  to July 2001 is  $5.1 \times 10^5$   
tons. tons.

02-14-00 17 The throughput of coal and petroleum The total throughput of coal  
In  
coke shall not exceed  $24 \times 10^6$  tons and petroleum coke from  
per year, calculated monthly as the August 2000 to July of 2001  
sum of each consecutive 12 month is  $6.6 \times 10^6$  tons.  
period.

02-14-00 19 Visible emissions from the enclosed The rotary rail car dumper In  
rotary rail car dumper shall not was not in operation during  
exceed 0 percent opacity as the inspection. No visible  
determined by the EPA Method 9. emissions were detected.

02-14-00 20 Visible emissions from the fabric No visible emissions were In  
filter shall not exceed 0 percent detected from any of the



opacity as determined by the EPA baghouses during the Method 9. inspection.

02-14-00 24 The permittee shall maintain records The source provided records I n

of emission data and operating for the throughput of coal parameters as necessary to and petroleum coke and demonstrate compliance with this maximum quantity of coal and permit. The content and format of petroleum coke stored at the such records shall be arranged with facility. Records of the K-the Director, Tidewater Regional Factor system was made Office. These records shall include, available for review. but are not limited to: Preventitive maintenance is done through Maximo, a

a. Annual throughput of coal and computer database. The petroleum coke, calculated monthly database prints out tasks to as the sum of each consecutive 12 be handled and once month period. completed the information is  
b. Maximum daily quantity of coal entered back into the and petroleum coke in storage. database. Examples of these  
C. Records of dust control measures reports were provided to DEQ as required by Appendix A. staff for evaluation.

These r@-cords sYiall be available for  
irispectioi-i by the DF@Q -And shiil i--@e  
current for the most recent five  
years.