

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

James S. Gilmore, III
Governor

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Dennis H. Treacy
Director

Francis L. Daniel
Tidewater Regional Director

John Paul Woodley, Jr.
Secretary of Natural Resources

DATE: 7/22/99
I. D. NO.: 700-00074
FILE NO.: 194

Enclosed is a copy of the report generated as a result of our recent inspection of your facility. If you have any questions, please contact me at (757) 518-2158.

Sincerely,

Richard C. Craft
Air Compliance Manager

RCC (cm/air/form-cloc/inspcvr.ltr)

5 - IN VIOLATION, MEETING SCHEDULE

Dominion Terminal Associates**I.D. # 700-00074****Reg. # 60997****Date: 7/6/99****September 1992 Permit to Operate a Coal Storage & Export Facility**

Permit Cond. #	Condition Summary	Source Status
Part 1, #4	Fugitive Emissions from rotary rail car dumper controlled by wet suppression; each tandem dump using ≥ 130 gallons	in compliance
Part 1, # 5	Fugitive coal emissions from transfer points and stacker reclaimers controlled by wet suppression with use of surfactant	in compliance
Part 1, # 6	Fugitive coal emissions from conveyor belts controlled by conveyor hoods and wind guards	in compliance
Part 1, # 7	Fugitive emissions from each silo controlled by a baghouse with gauge to measure differential pressure	not in compliance
Part 1, # 8	Fugitive emissions from storage piles controlled by wet suppression system covering 100% and using $\geq 35,500$ gal. water	in compliance
Part 1, # 9	Yearly throughput of coal ≤ 24 million tons	in compliance
Part 1, # 10	Maximum quantity of coal stored at one time ≤ 1.4 million tons	in compliance
Part 1, # 15	All coal storage piles are compacted and truncated	in compliance
Part 1, # 18	Source maintains operating procedures and records of employee training for use of pollution control equipment	in compliance
Part 11, # 1	Source maintains records of coal storage and throughputs	in compliance
Part 11, # 2	Source maintains operating procedures and maintenance records for air pollution control equipment	in compliance

I. INSPECTION SUMMARY

Dominion Terminal Associates has a September 1992 permit to operate a coal storage and export facility. The source uses a sophisticated K-Factor program implemented by Simpson Weather Service consulting firm to control fugitive coal dust. This computerized system considers weather conditions such as temperature, wind speed, wind direction, and humidity to determine how often the source must apply water to the coal storage piles.

II. COAL STORAGE & TRANSPORT

Coal is transported to the facility in railcars, usually 150 at a time. During cold weather, the rail cars are sent through a thaw shed, where propane fired heaters thaw the coal. From there, the rail cars are sent to the rotary rail car dumper which is enclosed in a large building. Here the rail cars are dumped 140 degrees and emptied into hoppers at a rated capacity of 100 tons/min. Wet suppression is used to control fugitive

coal emissions as required by permit condition part 1, #4. The wet suppression system consists of a water blanket over the rail car being dumped and a water curtain at the building opening. Each time a car is dumped, 140 gallons of water is used which contains a surfactant (aqueous solution or soap). The water is applied at a rate of 760 gal/min. and a pressure of 150 - 180 psi. During the inspection, one of the conveyor belts was being repaired and the rotary rail car dumper was not in use.

From the hoppers, the coal is transported via vibrating feeders to an underground conveyor belt. The coal is transported on this conveyor belt up to storage silo #1 (SS1), which has a 1000 ton capacity. From this silo the coal is either transported to storage silos #2(SS2) and #3(SS3) or to the stack/reclaimer equipment to be stacked into storage piles. From SS2 and SS3, which have a 4000 ton capacity each, the coal is transported via conveyor belts to cargo ships for export. During the inspection, a cargo ship was being loaded with coal with no visible coal emissions. No coal was being stacked at the time of inspection. All piles in the storage yard were compacted and truncated as required by permit condition part 1, #15. Piles of very fine metallurgical coal are turtle backed to avoid erosion.

Each of the storage silos is equipped with a baghouse to control fugitive coal emissions as required by permit condition part 1, #7. The baghouse on SS1 was operating with no visible emissions. The baghouse on SS2 was operating with a 5.5" water pressure drop, pulsating every eight seconds with no visible emissions. The baghouse on SS3 was operating with no visible emissions. The differential pressure gauge was not operating properly at the time of inspection, for which the source was issued a Request for Corrective Action.

III. WET SUPPRESSION SYSTEM

The source uses the K-factor wet suppression system as the primary fugitive coal dust control. Seventy four rainbirds are located around the perimeter of the storage piles which are controlled by the computerized system. During each cycle, the system uses 145,000 gallons of water which satisfies permit condition part 1, #8. The K-factor system will compute the required frequency of cycles determined by an array of weather conditions. The source will often increase the frequency to ensure that the fugitive coal dust is controlled. In addition to the rainbirds, there are 4 high masts which are manually turned on when needed. If winds maintain 25 mph for 4 minutes, the high masts will automatically come on. Additionally, the source uses a water truck to ensure 100% coverage of the yard. A copy of the last week of K-Factor reports was received during the inspection. The source has a new DTN weather system which gives instantaneous weather conditions via satellite. This system allows the facility to see a storm coming, giving them time to start a rainbird cycle if needed to adequately control fugitive coal dust.

IV. RECORD KEEPING

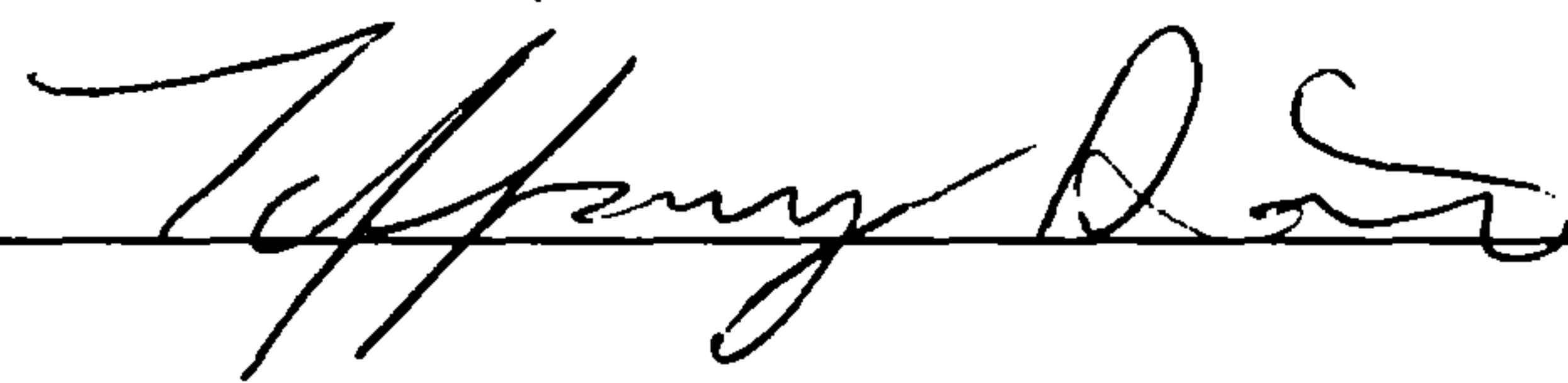
Permit part 1, condition #9 limits the annual coal throughput at the facility to 24 million tons. Records indicate that from July 1998 through June 1999, the throughput of coal was 9,930,881.66 tons. Permit part 1, condition #10 limits the coal stored at any one time to 1.4 million tons. Records provided indicate that the monthly average of coal stored at the facility from July 1998 through June 1999 was 527,407.37 tons with no monthly storage greater than 846,523.59 tons. The source is in compliance with both of these permit conditions at this time.

Permit part 1, condition #18 requires that the source maintain written operating procedures and records of employee training for the air pollution control equipment. These records were provided by the source during the inspection. Permit part II, condition #2 requires that the source maintain records of maintenance done on the air pollution control equipment. These records were provided by the source during the inspection. The source has recently developed a computerized system which prints out a preventative maintenance checklist when the scheduled maintenance time arrives. In addition, all maintenance which is done is entered into the computer. At this time, the source is in compliance with both of these permit conditions.

V. GENERAL NOTES

During the inspection, no fugitive coal dust was observed form any of the facility operations. The K-Factor System is performing adequately. The source's record keeping system has improved since the last inspection one year ago. The pressure gauge on the SS3 baghouse is in need of repair. The source is not in compliance with the permit at this time and was issued an RCA for the malfunctioning pressure gauge and given thirty days to respond in writing to DEQ.

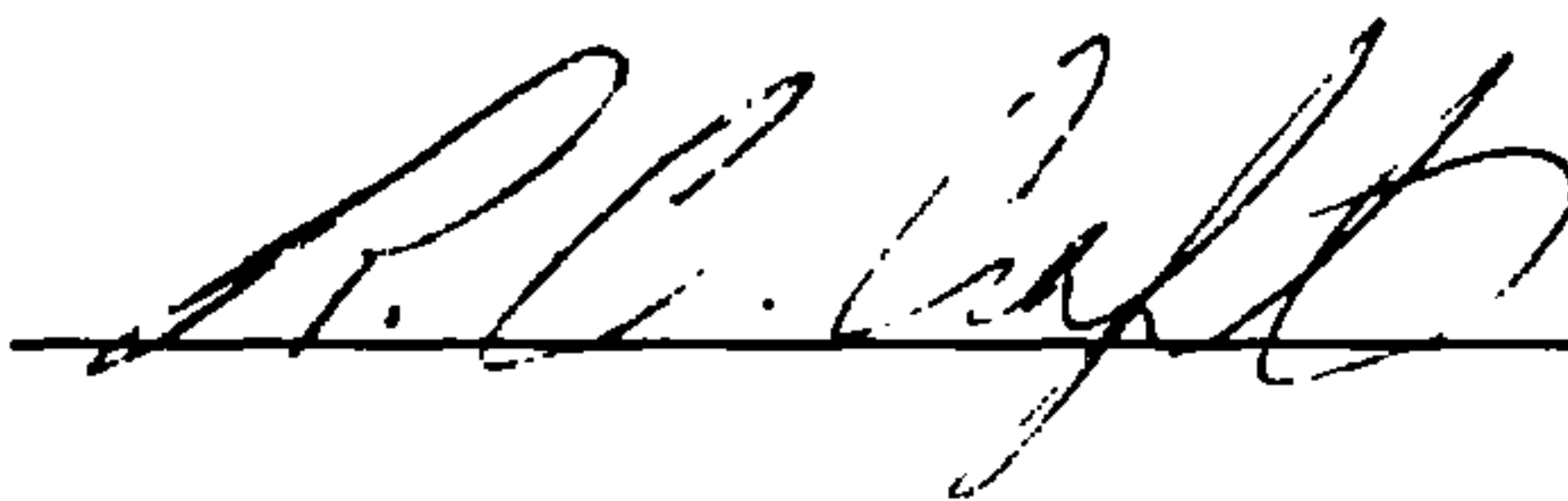
INSPECTOR'S SIGNATURE



DATE: July 12, 1999

SUPERVISOR'S COMMENTS:

SUPERVISOR'S SIGNATURE



DATE: 7/20/99

OCR

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

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5636 Southern Boulevard Dennis H. Treacy
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or
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An Agency of the Natural Resources Secretariat

L"OMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
SOURCE INSPECTION REPORT FORM

1. GENERAL INFORMATION

SOURCE NAME:- Dominion Terminal Associates REGISTRATION NO.:60997

LOCATION: Pier 1 1, Harbor Rd., NewWrt News INSPECTION DATE: 7/6/99

COUNTY NO.: 700 PLANT ID: 00074 FILE NO.: 194

SOURCE CLASS: -A X SM -B -NSPS -PSD NESHAP MACT

SOURCE CONTACT: Frank Falcon & Tom Houck

WEATHER CONDITIONS: 98'F and sunny with 5-10 mph variable winds
TYPE OF INSPECTION:

X CMS X Complete Permit Completion

- Surveillance Follow up

- Stack Test Complaint Investigation

CEMS Audit:

OTHER (EXPLAIN)

ANNOUNCED INSPECTION: No

INSPECTION LEVEL PERFORMED 2 COMPLIANCE CODE -1

VEE PERFORMED NO

OPERATING RATE: (& 50% capacity

INSPECTOR: - Jerome Brooks & Tiffany Davis STAFF CODE:-743

CODING INFORMATION FOR COMPLIANCE STATUS

- 0 - UNKNOWN 6 - IN VIOLATION, NOT MEETING SCHEDULE
- 1 - IN VIOLATION - NO SCHEDULE 7 - IN VIOLATION, UNKNOWN WITH RESPECT
- 2 - IN COMPLIANCE BY SOURCE TEST TO SCHEDULE
- 3 - IN COMPLIANCE BY INSPECTION 8 - NO APPLICABLE REGULATION
- 4 - IN COMPLIANCE BY CERTIFICATION 9 - IN COMPLIANCE, CLOSED
- 5 - IN VIOLATION, MEETING SCHEDULE

Dominion Terminal Associat-s
I.D. 700-00074
Reg. 60997
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September 1992 Permit to Operate a Coal Storage & Export Facility

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Part 1, # 10 Maximum quantity of coal stored at one time < 1.4 million tons in compliance
Part 1, # 15 All coal storage piles are compacted and truncated in compliance
Part 1, # 18 Source maintains operating procedures and records of employee in compliance training for use of pollution control equipment
Part 11, # I Source maintains records of coal storage and throughputs in compl i
Part 11, # 2 Source maintains operating procedures and maintenance records in compliance for air pollution control equipment

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INSPECTOR'S SIGNATURE DATE: July 12, 1999
SUPERVISOR'S COMMENTS:

SUPERVISOR'S SIGNATURE DATE: