NRO-281-10

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
NORTHERN REGIONAL OFFICE
13901 Crown Court, Woodbridge, Virginia 22193-1453
(703) 583-3800 Fax (703) 583-3821
www.deq.virginia.gov

Douglas W. Domenech
Secretary of Natural Resources

David K. Paylor
Director

Thomas A. Faha
Regional Director

October 1, 2010

Mr. Charles D. Holley
Vice President Fossil and Hydro Systems Ops
Dominion Ladysmith Combustion Turbine Station
5000 Dominion Boulevard
Glen Allen, Virginia 23060

Registration No: 40960

Dear Mr. Holley:

Attached is a Title V permit to operate your facility pursuant to 9 VAC 5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution (Regulations).

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil penalty. Please read all conditions carefully.

This approval to operate does not relieve Dominion Ladysmith Combustion Turbine Station of the responsibility to comply with all other local, state, and federal permit regulations.

Issuance of this permit is a case decision. The Regulations, at 9 VAC 5-170-200, provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this permit is mailed or delivered to you. Please consult that and other relevant provisions for additional requirements for such requests.

Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal to court by filing a Notice of Appeal with:

Mr. David K. Paylor, Director
Department of Environmental Quality
P. O. Box 1105
Richmond, VA 23218

Event	Date	Initials
Code PTV	10/1/10	HGR
Scanned		
QC		

In the event that you receive this permit by mail, three days are added to the period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for additional information including filing dates and the required content of the Notice of Appeal.

If you have any questions concerning this permit, please contact Gary Beeson at (703) 583-3969.

Sincerely,

Terry H. Darton
Regional Air Permit Manager

THD/HGB/NRO-000-10

Attachment: Permit

cc: Mr. William A. Scarpinato, Jr., Dominion Environmental Services
Director, OAPP (electronic file submission)
Manager, Data Analysis (electronic file submission)
Chief, Permits and Technical Assessment Branch (3AP11), U.S. EPA, Region III

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Article 3
Federal Operating Permit

This permit is based upon Federal Clean Air Act acid rain permitting requirements of Title IV, federal operating permit requirements of Title V; and Chapter 80, Article 3 and Chapter 140 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, 10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, 9 VAC 5-80-360 through 9 VAC 5-80-700 and 9 VAC 5-140-10 through 9 VAC 5-140-900 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to the following:

Permittee Name	Virginia Electric and Power Company
Facility Name	Dominion – Ladysmith Combustion Turbine Station
Facility Location	8063 Cedon Road, Woodford, Virginia 22580 Caroline County
Registration Number Permit Number:	40960 NRO40960

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Sections I through VII)

Federally Enforceable Requirements - Title IV Acid Rain (Section VIII)

Federally Enforceable Requirements – Clean Air Interstate Rule (Section IX)

October 1, 2010

Title V Permit Effective Date

January 1, 2010

Title IV Permit Effective Date

December 31, 2014

Title IV and Title V Permit Expiration Date

Thomas A. Faha

Thomas A. Faha
Regional Director, Department of Environmental Quality

September 30, 2010

Signature Date

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I. Facility Information

Permittee Information
Virginia Electric and Power Company
DBA: Dominion Ladysmith Combustion Turbine Station
5000 Dominion Boulevard
Glen Allen, Virginia 23060

Responsible Official
Mr. Charles D. Holley
Vice President Fossil and Hydro. Systems Ops

Acid Rain Designated Representative
Mr. Charles D. Holley
Vice President Fossil and Hydro. Systems Ops
USEPA ATS-AAR ID – 603957

Alternate Acid Rain Designated Representative
Mr. Philip Sandino
Director, Fossil and Hydro. Station II
USEPA ATS-AAR ID – 603850

Clean Air Interstate Rule (CAIR) Designated Representative
Mr. Charles D. Holley
Vice President Fossil and Hydro. Systems Ops
USEPA ATS-AAR ID – 603957

Alternate CAIR Designated Representative
Mr. Philip Sandino
Director, Fossil and Hydro. Station II
USEPA ATS-AAR ID – 603850

Facility ID
Dominion – Ladysmith Combustion Turbine Station
8063 Cedon Road
Woodford, Virginia 22580
Caroline County

Facility Contact Person
Ms. Cathy C. Taylor
Director, Electric Environmental Services
(804) 273-2929

County-Plant Identification Number: 51-033-00040 - Fossil Fuel Electric Power Generation

ORIS Code: 7838

Facility Description: NAICS 221112

Dominion has constructed and operates five simple-cycle dual fuel combustion turbines (CTs) designated as Unit 1, Unit 2, Unit 3, Unit 4, and Unit 5. The CTs are used for providing additional power during times of high electrical demand, e.g. they are peaking

units. Pipeline natural gas is the primary fuel with No.2 distillate fuel oil as the backup fuel.

The facility was issued a minor New Source Review (mNSR) permit to construct and operate on July 31, 2000 for five units, as identified above. Only two units (Unit 1 and Unit 2) were constructed under that permit. Unit 1 and Unit 2, which were constructed under the July 31, 2000 permit, are subject to the requirements of 40 CFR 60, Subpart GG. Two additional units (Unit 3 and Unit 4) were constructed under a July 6, 2007 mNSR permit which superseded the July 31, 2000 permit. The last unit (Unit 5) was permitted under a mNSR permit issued on July 1, 2008 which then superseded the July 6, 2007 permit. Since Unit 3, Unit 4, and Unit 5 were constructed after February 15, 2005 these units are subject to the requirements of 40 CFR 60, Subpart KKKK. This source is located in an attainment area for all pollutants, and is a synthetic minor source under the Prevention of Significant Deterioration (PSD) regulations (9 VAC 5-80 Article 8). For the purposes of an Article 3 Federal Operating Permit program (9 VAC 5-80-360), the source is classified as a major source for NO_X emissions.

The initial Acid Rain Permit was approved on May 9, 2001 with an effective date of January 1, 2001. The NO_X Trading Program was applicable to the facility on May 31, 2004 and then replaced by the Clean Air Interstate Rule (CAIR) therefore the NO_X Trading Program is no longer applicable. On December 23, 2008 the U.S. Court of Appeals remanded CAIR to EPA. This action kept CAIR in force, but required EPA to develop a replacement rule which addressed the courts order. The CAIR application was received on June 20, 2007 and revised on February 28, 2008. The requirements of the Acid Rain Program and CAIR Program are incorporated into the federal operating permit.

The facility has also applied for alternate-operating scenarios for re-tuning of the CTs and fuel type transfers. These alternate-operating scenarios were approved and will apply while firing on both pipeline natural gas and on No.2 distillate fuel oil.

In addition, the facility applied for a custom fuel monitoring schedule for Unit 1 and Unit 2 in a letter to the Environmental Protection Agency (EPA), Region III dated December 3, 2002. EPA approved the custom fuel monitoring schedule for Unit 1 and Unit 2 in a letter dated December 17, 2002. Both letters are attached as a part of this permit in Appendix A.

II. Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity[1] (P)-Primary Fuel (S) Secondary Fuel	Pollution Control Device Description[1] (PCD)	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment / Utility Units							
Unit 1	1	The CT is a GE Model PG7241 (FA) simple cycle, duel fuel CT constructed in 2000 and commenced operation on May 31, 2001.	1,761 MMBtu/hr on pipeline natural gas (P)[4]	When firing pipeline natural gas – dry low NO_X burners, each unit; and,	CD_LN_01[2]	Nitrogen Oxides (as NO_2)	7/31/00 NSR permit Superseded by 7/6/07 NSR permit
			1,910 MMBtu/hr on No.2 distillate fuel oil (S)[4]	When firing No.2 distillate fuel oil – water injection, each unit.	CD_WI_01[3]	Nitrogen Oxides (as NO_2)	Superseded by 7/01/08 NSR permit

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity[1] (P)-Primary Fuel (S) Secondary Fuel	Pollution Control Device Description[1] (PCD)	PCD ID	Pollutant Controlled	Applicable Permit Date
Unit 2	2	The CT is a GE Model PG7241 (FA) simple cycle, duel fuel CT constructed in 2000 and commenced operation on May 23, 2001.	1,761 MMBtu/hr on pipeline natural gas each (P)[4] 1,910 MMBtu/hr on No.2 distillate fuel oil (S)[4]	When firing pipeline natural gas – dry low NO_X burners, each unit; and, When firing No.2 distillate fuel oil – water injection, each unit.	CD_LN_02[2] CD_WI_02[3]	Nitrogen Oxides (as NO_2) Nitrogen Oxides (as NO_2)	7/31/00 NSR permit Superseded by 7/6/07 NSR permit Superseded by 7/01/08 NSR permit

Unit 3	3	The CT is a GE Model PG7241 (FA) simple cycle, duel fuel CT constructed in 2007 and commenced operation on May 19, 2008.	1,761 MMBtu/hr on pipeline natural gas each (P)[4] 1,910 MMBtu/hr on No.2 distillate fuel oil (S)[4]	When firing pipeline natural gas – dry low NO_X burners, each unit; and, When firing No.2 distillate fuel oil – water injection, each unit.	CD_LN_03[2] CD_WI_03[3]	Nitrogen Oxides (as NO_2) Nitrogen Oxides (as NO_2)	7/6/07 NSR permit Superseded by 7/01/08 NSR permit
Unit 4	4	The CT is a GE Model PG7241 (FA) simple cycle, duel fuel CT constructed in 2007 and commenced operation on June 3, 2008.	1,761 MMBtu/hr on pipeline natural gas (P)[4] 1,910 MMBtu/hr on No.2 distillate fuel oil (S)[4]	When firing pipeline natural gas – dry low NO_X burners, each unit; and When firing No.2 distillate fuel oil – water injection, each unit.	CD_LN_04[2] CD_WI_04[3]	Nitrogen Oxides (as NO_2) Nitrogen Oxides (as NO_2	7/6/07 NSR permit Superseded by 7/01/08 NSR permit
Emission Unit ID	**Stack ID**	**Emission Unit Description**	**Size/Rated Capacity[1] (P)-Primary Fuel (S) Secondary Fuel**	**Pollution Control Device Description[1] (PCD)**	**PCD ID**	**Pollutant Controlled**	**Applicable Permit Date**

Unit 5	5	The CT is a GE Model PG7241 (FA) simple cycle, duel fuel, CT constructed in 2008 and 2009 and commenced operational on March 5, 2009	1,761 MMBtu/hr on pipeline natural gas (P)[4] 1,910 MMBtu/hr on No.2 distillate fuel oil (S)[4]	When firing pipeline natural gas – dry low NO_X burners; When firing No.2 distillate fuel oil – water injection	CD_LN_05[2] CD_WI_05[3]	Nitrogen Oxides (as NO_2) Nitrogen Oxides (as NO_2)	7/01/08 NSR permit
PH-3	PHS3	Pipeline natural gas pipeline heaters. Constructed in 2007.	10.75 MMBtu/hr	None	N/A	N/A	7/01/08 NSR permit
PH-4	PHS4	Pipeline natural gas pipeline heaters. Constructed in 2008.	4.2 MMBtu/hr	None	N/A	N/A	7/01/08 NSR permit

1. Specifications included in this section are for informational purposes only and do not form enforceable terms or conditions of the permit
2. CD_LN = dry low NO_X burner technology
3. CD_WI = water injection
4. When operated at 100% base load at an ambient temperature of 59°F, 60% relative humidity and a pressure of 14.7 psia.

III. Fuel Burning Equipment Requirements - (Units 1 – 5, PH-3, & PH-4)

A. Limitations

1. ***Nitrogen Oxide Emission Controls – CTs:*** Nitrogen oxides (as NO_2) emissions from each CT while firing pipeline natural gas, shall be controlled by the utilization of a dry low NO_X combustor and water injection when firing on No.2 distillate fuel oil. The CTs shall be provided with adequate access for inspection.
(9 VAC 5-80-490 B & C and Condition 2 of 07/01/08 NSR Permit).

2. ***Nitrogen Oxide Emission Controls – Pipeline Heaters:*** Nitrogen oxides (as NO_2) emissions from each pipeline heater, PH-3 and PH-4, shall be controlled by the use of good combustion operating practices. The pipeline heaters shall be provided with adequate access for inspection.
(9 VAC 5-80-490 B & C and Condition 3 of 07/01/08 NSR Permit)

3. ***Sulfur Dioxide Emission Controls – CTs:*** Sulfur dioxide (SO_2) emissions from Unit 1, Unit 2, Unit 3, Unit 4, and Unit 5 shall be controlled by the use of pipeline quality natural gas as the primary and low sulfur No.2 distillate fuel oil as the secondary fuel.
(9 VAC 5-80-490 B & C and Condition 4 of 07/01/08 NSR Permit)

4. ***Sulfur Dioxide Emission Controls – Pipeline Heaters:*** Sulfur dioxide (SO_2) emissions from each pipeline heater shall be controlled by the use of pipeline natural gas.
(9 VAC 5-80-490 B & C and Condition 4 of 07/01/08 NSR Permit)

5. ***Particulate Emission Controls – CTs:*** Particulate matter (PM-10) emissions from each CT, shall be controlled by the use of pipeline quality natural gas as the primary fuel and No.2 distillate fuel oil as the back-up fuel along with good combustion operating practices.
(9 VAC 5-80-490 B & C and Condition 5 of 07/01/08 NSR Permit)

6. ***Particulate Emission Controls – Pipeline Heaters:*** Particulate matter (PM-10) emissions from each pipeline heater shall be controlled by the use of pipeline quality natural gas and good combustion practices.
(9 VAC 5-80-490 B & C and Condition 3 of the 04/01/2008 NSR Permit)

7. ***Volatile Organic Compounds and Carbon Monoxide Emission Controls – CTs:*** Volatile organic compounds (VOC) and carbon monoxide (CO) emissions from each CT shall be controlled by the use of good combustion operating practices.
(9 VAC 5-80-490 B & C and Condition 6 of 07/01/08 NSR Permit)

8. ***Volatile Organic Compounds and Carbon Monoxide Emission Controls – Pipeline Heaters:*** Volatile organic compounds (VOC) and carbon monoxide (CO) emissions from each Pipeline Heater shall be controlled by the use of good combustion practices.

(9 VAC 5-80-490 B & C and Condition 6 of the 07/01/2008 NSR Permit)

9. ***Combustion Turbines Fuels*** – The approved fuels for the CTs are pipeline quality natural gas (as defined in 40 CFR 72.2) as the primary fuel and No.2 distillate fuel oil, (defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 under the American Society for Testing and Materials, most current version of ASTM D396 "Standard Specification for Fuel Oils" or other approved ASTM methods, incorporated in 40 CFR 60 by reference), as the back-up fuel. A change in fuel may require a permit to modify and operate.

(9 VAC 5-80-490 B & C and Condition 7 of 07/01/08 NSR Permit)

10. ***Pipeline Heaters Fuel*** – The approved fuel for each pipeline heater is pipeline quality natural gas (as defined in 40 CFR 72.2). A change in fuel may require a permit to modify and operate.

(9 VAC 5-80-490 B & C and Condition 7 of 07/01/08 NSR Permit)

11. ***Number 2 distillate fuel oil specifications*** – The maximum sulfur content of the No.2 distillate fuel oil shall not exceed 0.05 percent by weight per oil transfer/shipment receipt as defined in Appendix B.

(40 CFR 60.333, 9 VAC 50-410, 9 VAC 5-80-490 B & C, and Condition 9 of 07/01/08 NSR Permit)

12. ***Distillate oil (No.2) Specifications (Unit 3, Unit 4, and Unit 5)*** – The maximum sulfur content of the No.2 distillate fuel oil shall not exceed 0.060 lb SO_2/MMBtu heat input.

(40 CFR 60.4330, 9 VAC 5-80-490 B & C, and Condition 9 of 07/01/08 NSR Permit)

13. ***Pipeline natural gas Specifications (CTs Unit 1 and Unit 2):***

    a. The maximum sulfur content of the pipeline natural gas shall not exceed 20 grains per 100 dry standard cubic feet.

    b. The annual average sulfur content of the pipeline natural gas shall not exceed 0.5 grains per 100 dry standard cubic feet per year, calculated monthly as the average of each consecutive twelve-month period. Compliance with the consecutive twelve-month period shall be demonstrated monthly by averaging the total for the most recently completed calendar month to the individual monthly totals for the preceding eleven months.

(40 CFR 60.333, 9 VAC 5-50-410, 9 VAC 5-80-490 B & C, and Condition 8 of 07/01/08 NSR Permit)

14. ***Pipeline natural gas Specifications (CTs Unit 3, Unit 4, Unit 5 and Pipeline Heaters):*** The maximum sulfur content of the pipeline natural gas shall not exceed 0.060 lb SO_2/MMBtu heat input.

(40 CFR 60.4330, 9 VAC 5-80-490 B & C and Condition 8 of 07/01/08 NSR Permit)

15. ***Fuel Tanks*** – The two 2,700,000 gallon fixed-roof storage tanks shall be used to store only No.2 distillate fuel oil with a sulfur content not to exceed 0.05 percent by weight.
(9 VAC 5-80-490 B & C and Condition 11 of 07/01/08 NSR Permit)

16. ***Requirements by Reference*** – Except where this permit is more restrictive than the applicable requirement, Unit 1 and Unit 2 shall be operated in compliance with the requirements of40 CFR 60, Subpart GG – Standards of Performance for Stationary Gas Turbines and 40 CFR 60, Subpart A – General Provisions.
(9 VAC 5-50-400, 9 VAC 5-50-410 and Condition 12 of 07/01/08 NSR Permit)

17. ***Requirements by Reference*** – Except where this permit is more restrictive than the applicable requirement, Unit 3, Unit 4, and Unit 5 shall be operated in compliance with the requirements of40 CFR 60, Subpart KKKK – Standards of Performance for Stationary Gas Turbines and 40 CFR 60, Subpart A – General Provisions.
(9 VAC 5-50-400, 9 VAC 5-50-410 and Condition 12 of 07/01/08 NSR Permit)

18. ***Requirements by Reference*** – Except where this permit is more restrictive than the applicable requirement, the pipeline heater (PH3) shall be operated in compliance with the requirements of 40 CFR, Subpart Dc (Standards of performance for Small Industrial-Commercial-Institutional Steam Generating Units).
(9 VAC 5-80-490 B & C and Condition 12 of 07/01/08 Permit)

19. ***Alternate Operating Scenario – Re-tuning –***

    a. Alternate 1 – Unit 1 through Unit 5 (Natural Gas)
        i. Re-tuning of the CTs while operating on natural gas shall be conducted in accordance with those procedures outlined in Appendix C of this permit.

    b. Alternate 2 – Unit 1 through Unit 5 (No. 2 Distillate Oil)
        i. Re-tuning of the CTs while operating on No. 2 distillate oil shall be conducted in accordance with those procedures outlined in Appendix C of this permit.

    c. Excess emissions resulting from the re-tuning of the combustion turbines shall be permitted provided that the procedures specified in Appendix C are followed.

(9 VAC 5-50-50E, 9 VAC 5-80-490F, and Condition 35 of the 07/01/08 NSR Permit)

20. ***Alternate Operating Scenario – Fuel Type Transfer –***

    Fuel type transfer shall be conducted in accordance with the following procedures (See Appendix D:

    a. <u>Event 1 – Automatic or Operator Initiated Fuel Transfer from Pipeline Natural Gas to No. 2 Distillate Fuel Oil</u>: The period will begin when gas usage is first reduced for the purpose of transferring to oil and will end when oil consumption and water injection have stabilized.

b. Event 2 – Operator Initiated Fuel Transfer from No. 2 Distillate Fuel Oil to Pipeline Natural Gas: The period will begin when the turbine's work load is reduced for the purpose of transferring to natural gas and will end when oil usage ceases and the turbine is re-stabilized in Mode 6 for Dry Low NO_X Burners.

c. Excess NO_X Emissions – Excess NO_X emissions from each combustion turbine shall be limited to no more than three one-hour averaging periods for any fuel transfer event, unless specifically authorized by the Regional Air Compliance Manager of the DEQs NRO for longer duration prior to the event. For each fuel transfer event, the permittee shall:

   i. Operate all equipment in a manner consistent with air pollution control practices for minimizing emissions.

   ii. The permittee shall provide, within thirty days of permit issuance, a general description of the procedures to be followed during periods of fuel transfer to ensure that the best operational practices to minimize emissions will be adhered to and the duration of excess emissions will be minimized.

   iii. The description should be submitted to the Regional Air Compliance Manager of the DEQs NRO. The description may be updated as needed by submitting such update to the Regional Air Compliance Manager of the DEQs NRO within thirty days of implementation.

   iv. Excess emissions during the fuel transfer procedure will be recorded and included in the quarterly Excess Emission Report. The CEM data will be "flagged" to indicate that fuel transfer took place.

All correspondence concerning this permit should be submitted to the Regional Air Compliance Manager of the DEQs NRO.

(9 VAC 5-20-180 J, 9 VAC 5-50-20 E, 9 VAC 5-80-490F, and Condition 13 of the 07/01/08 NSR Permit)

21. ***Short-term emission limits*** – The operation of Unit 1 and Unit 2 while firing on pipeline natural gas shall not exceed the limits specified below (except during start-up and shut-down conditions as defined in Condition III.A.25, re-tuning in accordance with Condition III.A.19, and fuel type transfer in accordance with Condition III.A.20):

PM-10	18.0 lbs/hr	(9 VAC 5-50-260)
Nitrogen Oxides	9.0 ppmvd @ 15% O2 (1 hour average)	(9 VAC 5-50-260)
Carbon Monoxide	9.0 ppmvd @ 15% O2 (3 hour average)	(9 VAC 5-50-260)

(40 CFR 60.332, 9 VAC 5-80-490 B & C, and Condition 14 of 07/01/2008 NSR Permit)

22. ***Short-term emission limits*** – The operation of Unit 3, Unit 4, and Unit 5 while firing on pipeline natural gas shall not exceed the limits specified below (except during start-up and shut-down conditions as defined in Condition III.A.25, re-tuning in accordance with Condition III.A.19, and fuel type transfer in accordance with Condition III.A.20)

PM-10	18.0 lbs/hr	(9 VAC 5-50-260)
Sulfur Dioxide	0.060 lb/MMBtu	(9 VAC 5-50-260)
Nitrogen Oxides	9.0 ppmvd @ 15% O2 (1 hour average)	(9 VAC 5-50-260)
Carbon Monoxide	9.0 ppmvd @ 15% O2 (3 hour average)	(9 VAC 5-50-260)

(40 CFR 60.4325, 9 VAC 5-80-490 B & C and Condition 14 of 07/01/08 NSR Permit)

23. ***Short-term emission limits*** – The operation of Unit 1 and Unit 2 while firing on No.2 distillate fuel oil shall not exceed the limits specified below (except during start-up and shut-down conditions as defined in Condition III.A.25, re-tuning in accordance with Condition III.A.19, and fuel type transfer in accordance with Condition III.A.20):

PM-10	34.0 lbs/hr	(9 VAC 5-50-260)
Nitrogen Oxides	42* ppmvd @ 15% O2 (1 hour average)	(9 VAC 5-50-260)
Carbon Monoxide	30 ppmvd @ 15% O2 (3 hour average)	(9 VAC 5-50-260)

*the facility requested and received approval to wave the requirement to sample for fuel bound nitrogen

(40 CFR 60.332, 9 VAC 5-80-490 B & C and Condition 15 of 07/01/08 NSR Permit)

24. ***Short-term emission limits*** – The operation of Unit 3, Unit 4, and Unit 5 while firing on No.2 distillate fuel oil shall not exceed the limits specified below (except during start-up and shut-down conditions as defined in Condition III.A.25, re-tuning in accordance with Condition III.A.19, and fuel type transfer in accordance with Condition III.A.20):

PM-10	34 lbs/hr	(9 VAC 5-50-260)
Sulfur Dioxide	0.060 lb/MMBtu	(9 VAC 5-50-260)
Nitrogen Oxides	42 ppmvd @ 15% O2 (1 hour average)	(9 VAC 5-50-260)
Carbon Monoxide	30 ppmvd @ 15% O2 (3 hour average)	(9 VAC 5-50-260)

(40 CFR 60.4325, 9 VAC 5-80-490 B & C and Condition 15 of 07/01/08 NSR Permit)

25. ***Start-up and shut-down:***

    a. Start-up is defined as the period commencing with ignition of the unit and consisting of two (2) hours of continuous emission monitoring system (CEMS) data.

    b. Shut-down is defined, as the period comprised of the final two hours of CEMS data prior to the time when no fuel is being combusted.

    (9 VAC 5-80-490 B & C and Condition 14 of 07/01/08 NSR Permit)

26. ***Excess Emissions – Startups, Shutdowns and Malfunctions*** – Excess emissions resulting from unit startups, shutdowns and malfunctions shall be permitted provided that:

    a. Best operational practices are adhered to and the duration of excess emissions shall be minimized

    b. During each startup, shutdown and malfunction which occurs at Unit 1 and Unit 2, NO_X emission concentrations based on hourly averages (4-hour rolling averages) shall not exceed the NO_X standards of the New Source Performance Standards (NSPS) 40 CFR 60.332 of Subpart GG.

    c. During each startup, shutdown and malfunction which occurs at Unit 3, Unit 4, and Unit 5, NO_X emission concentrations based on hourly averages (4-hour rolling averages) shall not exceed the NO_X standards of the New Source Performance Standards (NSPS) 40 CFR 60, Table 1 of Subpart KKKK.

    d. The permittee shall notify the Regional Air Compliance Manager of the DEQs NRO within four daytime business hours after a malfunction is discovered. The notification shall include, but is not limited to, the following information.

        i. Identification of the specific CT experiencing the malfunction.

        ii. The nature and quantity of emissions of air pollutants likely to have occurred during the malfunction.

        iii. Measures that will be taken to minimize the length of the malfunction.

    e. The permittee shall include the excess emissions in the quarterly report and shall include, but is not limited to, the following information.

i. Identification of the CT that experienced the malfunction.

ii. The magnitude of excess emissions per CT, any conversion factors used in the calculation of the excess emissions, and the date and time of commencement and completion of each period of excess emissions.

f. NO_X emissions during each malfunction shall be recorded and included in the total annual emissions.

g. The malfunction for each CT shall be identified on the Data Acquisition Report.

(9 VAC 5-20-180 J, 9 VAC 5-50-20 E, 9 VAC 5-80-490F, and Condition 36 of the 07/01/08 NSR Permit)

27. ***Annual emission limits –***

a. Combined emissions from the operation of Unit 1, Unit 2, Unit 3, Unit 4, and Unit 5 shall not exceed the limits specified below:

i. Sulfur Dioxide (SO_2)	74.4 tons/yr
ii. Nitrogen Oxides (as NO_2)	237 tons/yr
iii. Carbon Monoxide (CO)	119 tons/yr
iv. Particulate Matter (PM-10)	73.8 tons/yr
v. Volatile Organic Compounds (VOC)	11.5 tons/yr

NO_X emission rate calculations for Unit 1, Unit 2, Unit 3, Unit 4, and Unit 5 shall be calculated daily as the sum of each consecutive 365-day period. Compliance determination with the annual NO_X limit shall be determined using the NO_X mass emission provisions of 40 CFR Part 75, Subpart H, with the exception of data substitution as described in Condition III.B.4 of this permit.

SO_2, CO, PM-10, and VOCs emission rate calculations for Unit 1, Unit 2, Unit 3, Unit 4, and Unit 5 shall be calculated monthly as the sum of each consecutive twelve-month period. Compliance for the consecutive twelve-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 eleven months.

b. Facility wide annual emission limits:

i. Sulfur Dioxide (SO_2)	74.4 tons/yr
ii. Nitrogen Oxides (as NO_2)	248.2 tons/yr
iii. Carbon Monoxide (CO)	124.6 tons/yr
iv. Particulate Matter (PM-10)	74.3 tons/yr
v. Volatile Organic Compounds (VOC)	11.8 tons/yr

The total facility wide annual emissions shall be calculated monthly as the sum of each consecutive twelve-month period. Compliance for the consecutive twelve-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 eleven months.

(9 VAC 5-80-490B & C, Condition 16, and Condition 17 of the 07/01/08 NSR Permit)

28. ***Visible Emissions Limit*** – Visible emissions from each of the CT stacks (Unit 1, Unit 2, Unit 3, Unit 4, and Unit 5) shall not exceed ten percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed twenty percent opacity as determined by the Environmental Protection Agency (EPA) reference Method 9 (40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.

(9 VAC 5-80-490 B & C and Condition 19 of 07/01/08 NSR Permit)

29. ***NOX Emission Limits*** – NO_X emissions (as NO_2) from each CT when firing No.2 distillate fuel oil, shall not exceed 42 ppmvd at 15% O_2 on a one – hour average basis (as measured by CEMS). If the source wishes to account for the FBN allowance provided in NSPS Subpart GG (Applies to CT1 and CT2 only), for FBN values between 0.015% up to 0.05% (the maximum FBN allowed), the adjusted standard shall be determined, recorded and maintained upon each new fuel delivery by the following formula:

    Standard = (0.04 * N) + 0.0042 where:

    Standard = allowable NO_X emissions (percent by volume at 15% O_2 and on a dry basis)

    N = the nitrogen content of the fuel oil (percent by weight)

    Note: 0.0042 percent = 42 ppm

(9 VAC 5-80-490 B & C and Condition 18 of 07/01/08 NSR Permit)

B. Monitoring

1. **Opacity *(Unit 1, Unit 2, Unit 3, Unit 4, and Unit 5)*** – The permittee shall perform a visible emission observation (VEO) on each exhaust stack of CTs (Units 1 – 5) once each day that the CTs are operated. The VEO shall be based on the techniques of an EPA Method 22 with a follow-up EPA Reference Method 9, should an observation indicate visible emissions for more than six consecutive minutes.

   Each VEO shall be performed for a sufficient period of time to identify the presence or absence of visible emissions. If no visible emissions are observed, no action shall be required. However, if visible emissions are observed, a visible emissions evaluation (VEE) shall be conducted using 40 CFR Part 60, Appendix A, Method 9 for a period of not less than 6-minutes. If the average opacity exceeds 20%, modifications and/or repairs to the CT shall be performed to correct the problem and the corrective measures shall be recorded. If such corrective action fails to remedy the opacity problem, a VEE in accordance with 40 CFR Part 60, Appendix A, Method

9, shall be performed for a period of at least 18 consecutive minutes to determine compliance with the opacity limits specified in this permit. The follow-up VEE, if required, shall be conducted by currently certified Visible Emission Evaluator.

2. ***NO_X CEMS (Unit 1, Unit 2, Unit 3, Unit 4, and Unit 5)*** – CEMS shall be installed, maintained and operated in accordance with the performance specifications and test procedures (as applicable) identified in 40 CFR 75, Appendices A and B and shall measure and record the emissions of nitrogen oxides from the exhaust stack of Unit 1, Unit 2, Unit 3, Unit 4, and Unit 5. A diluent monitor (O_2 or CO_2) shall be co-located with each nitrogen oxide monitor.

   Upon request by the DEQ, the source shall conduct CEM performance tests. A thirty day notification, prior to the demonstration of the CEMs performance shall be submitted to the Regional Air Compliance Manager of the DEQs NRO. Two copies of the performance test evaluation reports (one hard copy and one copy on electronic media) shall be submitted to Regional Air Compliance Manager of the DEQs NRO.

   The quality assurance of data generated by the CEMs shall be demonstrated by implementing or exceeding the minimum requirements for CEMS quality assurance as defined in 40 CFR 75, Appendix B. A NO_X CEMS quality control program which meets the requirements of 40 CFR 75 and 40 CFR 75, Appendix B, shall be implemented for all continuous monitoring systems. As per 40 CFR 75, Appendix B §2.2.3f, no more than four successive calendar quarters plus the allowable grace period allowed in 40 CFR Part 75 will elapse without performing a NO_X and O_2 or CO_2 analyzer linearity check. As per Part 75, Appendix B §2.3.3a.4, no more than eight successive calendar quarters plus the allowable grace period allowed in 40 CFR Part 75 will elapse without performing a NO_X CEMS RATA.

(9 VAC 5-80-490 E, 40 CFR 60.334(b), 4 CFR 60.4335, and Condition 25 of 07/01/08 NSR Permit)

3. ***NO_X CEMs*** – At the discretion and approval of the Board, the NO_X CEMs required by this permit, the continuous monitoring data, and the quality assurance data shall be used to determine compliance with the NO_X emission limits and/or relevant emission standards. Each monitor is subject to such data capture requirements and/or quality assurance requirements as specified in this permit and as may be deemed appropriate by the Board.

(9 VAC 5-80-490 E and Condition 23 of 07/01/08 NSR Permit)

4. ***CEMS Minimum Data Capture*** – The NO_X CEMS required by this permit shall meet a minimum data capture of 90% of each CTs operating hours, calculated monthly as the sum of each consecutive twelve-month period. Compliance for the consecutive twelve-month period shall be demonstrated monthly. To determine the percent data capture, the total hours of valid CEMS data and the total hours of unit operation for the most recently completed month shall be added to their respective totals for the preceding eleven months' total hours of valid CEMS data capture. Divide the total hours of valid CEMS data in the twelve month period by the total hours of unit operation in the twelve month period to determine availability.

(9 VAC 5-80-490 E Condition 26 of 07/01/08 NSR Permit)

5. ***NOX CEMS Failure*** – In the event of a NO_X CEMS failure, the permittee must either:

   a. Use the maximum allowable hourly NO_X emission rate (in ppm), for each hour of operation where CEMS data is not available. This data shall be included in the rolling 365-day emission summation; or

   b. Provide data which demonstrates an accurate correlation between the water-to-fuel injection curve and actual emission rates. Upon approval of the DEQ, this curve can be used as surrogate CEM data for future emission calculations.

(9 VAC 5-80-490 E and Condition 27 of 07/01/08 NSR Permit)

6. ***Fuel Consumption Instrumentation/Backup Method*** –

   The permittee shall install and maintain instrumentation or have an available backup method approved by the Regional Air Compliance Manager of the DEQs NRO, to indicate/determine and record the hourly pipeline quality natural gas and No.2 distillate fuel oil consumption (in scf/hour and gallons/hour) of each CT (when in operation) and the hours of operation while using each fuel.

   These records shall be kept on file at the facility for the most current five year period.

(9 VAC 5-80-490E and Conditions 29 of the 07/01/08 NSR Permit)

7. ***Natural Gas Continuing Compliance*** –

   a. Unit 1 and Unit 2

      i. The requirement to determine the nitrogen content of the pipeline natural gas is waived

      ii. The permittee's custom fuel monitoring schedule for Unit 1 and Unit 2 received approval from the Environmental Protection Agency (EPA) in accordance with 40 CFR Part 60, Subpart GG. The EPA approval letter is attached in Appendix A of this permit and is considered a part of this permit. The permittee's custom fuel schedule is as follows:

         (a). The use of the Chesterfield Station samples for the determination of the sulfur content of the pipeline natural gas,

         (b). The permittee will follow all applicable sulfur content determinations for pipeline natural gas in 40 CFR Part 75, Appendix D.

(c). The permittee recognizes that Subpart GG establishes the following sulfur dioxide (SO2) emissions limitations:

(i) No owner or operator shall cause to be discharged into the atmosphere from any stationary gas turbine any gasses containing SO2 in excess of 0.015% by volume at 15% oxygen and on a dry basis; or,

(ii) No owner or operator shall burn in any stationary gas turbine any fuel which contains sulfur in excess of 0.8% by weight.

iii. If there is a change in fuel supply the permittee must notify the Regional Air Compliance Manger of the DEQs NRO of such change for re-examination of this custom schedule. A change in fuel quality may be deemed a change in fuel supply. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.

iv. As per 40 CFR 60.334(h)(3) and not withstanding 40 CFR 60.334(h)(1), the owners or operators may elect not to monitor more frequently than once per year (40 CFR 75, Appendix D, Section 2.3.1.4 or 2.3.2.4) for the total sulfur content of the gaseous fuel combusted in a turbine if the gaseous fuel is demonstrated to meet the definition of natural gas in 60.331(u), regardless of whether an existing custom schedule approved by the administrator for Subpart GG requires such monitoring. The owner or operator shall use one of the following sources of information to make the required demonstration:

(a). The gas quality characteristics in a current valid purchase contract, tariff sheet or transportation contract for gaseous fuel specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or

(b). Have representative fuel sampling data which shows that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of Appendix D to 40 CFR 75 shall be obtained.

These records shall be available on-site for inspection by the DEQ and kept on file for the most current five year period.

(9 VAC 5-80-490 E, 40 CFR 60.334(h), 40 CFR 60.334(i)(3) and Condition 31 of 07/01/08 NSR Permit and EPA letter dated 12/17/02)

b. Unit 3, Unit 4, Unit 5, PH-3, and PH-4

i. The permittee will follow all applicable sulfur content determinations and monitoring requirements for pipeline natural gas in 40 CFR Part 75, Appendix D.

ii. The permittee recognizes that 40 CFR 60, Subpart KKKK establishes the following sulfur dioxide (SO2) emissions limitations and that they must comply with either of the following conditions:

(a). No owner or operator shall cause to be discharged into the atmosphere from the subject stationary gas turbine any gasses containing SO2 in excess of 0.90 pounds per megawatt-hour (lb/MWh) gross output or,

(b). You must not burn in the subject stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 0.060 lb SO_2/MMBtu heat input. If your turbine simultaneously fires multiple fuels, each fuel must meet this requirement.

iii. If there is a change in fuel supply the permittee must notify the Regional Air Compliance Manger of the DEQs NRO at the address listed in Condition III.F. A change in fuel quality may be deemed a change in fuel supply and this change in fuel may require a reevaluation of the permit.

iv. The owners or operators must monitor the total sulfur content of the fuel being fired in the turbine, except as provided in Condition III B.7.b.v of this permit.

(a). The sulfur content of the fuel must be determined using total sulfur methods described in 40 CFR 60.4415.

(b). Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than half the applicable limit, ASTM D4084, D4810, D5504, or D6228, or Gas Processors Association Standard 2377 (all of which are incorporated by reference, see 40 CFR 60.17), which measure the major sulfur compounds, may be used.

v. The owners or operators may elect not to monitor the total sulfur content of the fuel combusted in the turbine, if the fuel is demonstrated not to exceed potential sulfur emissions of 0.060 lb SO2/MMBtu heat input. You must use one of the following sources of information to make the required demonstration:

(a). The fuel quality characteristics in a current, valid purchase contract, tariff sheet, or transportation contract for the fuel, specifying that the maximum total sulfur content for oil is 0.05 weight percent (500 ppmw), the total sulfur content for pipeline natural gas is 20 grains of sulfur or less per 100 standard cubic feet, has potential sulfur emissions of less than less than 0.060 lb SO2/MMBtu heat input; or

(b). Conduct representative fuel sampling data which show that the sulfur content of the fuel does not exceed 0.060 lb SO2/MMBtu heat input. At a

minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of Appendix D to 40 CFR 75 is required.

These records shall be available on-site for inspection by the DEQ and kept on file for the most current five year period
(9 VAC 5-50-30 G, 40 CFR 60.4330, 40 CFR 60.4360, 40 CFR 4365, Condition 10 and Condition 31 of the 07/01/08 NSR Permit)

8. ***No. 2 Distillate Fuel Oil's Sulfur Content: Continuing Compliance –***

a. Unit 1 and Unit 2

i. Prior to combustion, the permittee shall test the No.2 distillate fuel oil for sulfur content on each occasion that fuel is transferred/shipment receipt (as defined in Appendix B of this permit) to the storage tank, from any other source. Fuel oil sulfur content shall be determined using American Society for Testing and Materials, most current version of ASTM D2880 or another approved ASTM method incorporated in 40 CFR 60.17 by reference or incorporated in 40 CFR 60.355(b)(10)(i). Any deviations to test methods used by the permittee to determine sulfur content shall be submitted to the Regional Air Compliance Manager for the DEQs NRO for approval.

ii. These records shall be available on-site for inspection by the DEQ and kept on file for the most current five year period.

b. Unit 3, Unit 4, and Unit 5

i. The total sulfur content of the fuel being fired in the turbine, except as provided in III.B.7.b.ii below, must be determined. The sulfur content of the fuel must be determined using total sulfur methods described in 40 CFR 60.4415.

ii. The permittee may elect not to monitor the total sulfur content of the fuel combusted in the turbine, if the fuel is demonstrated not to exceed potential sulfur emissions of 26 ng SO_2/J (0.060 lb SO_2/MMBtu) heat input. You must use one of the following sources of information to make the required demonstration:

(a). The fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying that the maximum total sulfur content for oil is 0.05 weight percent (500 ppmw) or, has potential sulfur emissions of less than 26 ng SO_2/J (0.060 lb SO_2/MMBtu) heat;

OR

(b). Representative fuel sampling data which show that the sulfur content of the fuel does not exceed 26 ng SO_2/J (0.060 lb SO_2/MMBtu) heat input.

At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of 40 CFR 75 Appendix D is required.

iii. These records shall be available on-site for inspection by the DEQ and kept on file for the most current five year period.

(9 VAC 5-80-490 E, 40 CFR 60.40 CFR 60.4360, 40 CFR 60.4365, and Condition 32 of 07/01/08 NSR Permit)

9. ***Fuel Oil Certification –***

The permittee shall obtain a certification from the fuel supplier and/or fuel delivery company with each shipment of No.2 distillate fuel oil. Each fuel supplier certification shall include the following:

a. The name of the fuel supplier/fuel delivery company;

b. The date on which the No.2 distillate fuel oil was received;

c. The quantity of No.2 distillate fuel oil delivered in the shipment;

d. A statement that the No.2 distillate fuel oil complies with the American Society for Testing and Materials specifications (ASTM D396) for Numbers 1 and 2 fuel oil or other approved ASTM method, incorporated in 40 CFR 60 by reference; and,

e. The actual sulfur content of the No.2 distillate fuel oil;

OR,

f. Upon last delivery of the No.2 distillate fuel oil, the permittee shall collect an oil sample from the on-site fuel oil storage tank for use in determining the No.2 distillate fuel oil sulfur content.

(9 VAC 5-80-490F and Condition 10 of the 07/01/05 NSR Permit)

C. Maintenance/Operating Procedures

1. 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.

2. The permittee shall take, but are not limited to, the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment 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.

e. 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 5-80-490C and Condition 41 of the 07/01/08 NSR Permit)

D. On-Site Records

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrated compliance with this permit. The content of and format of such records shall be arranged with the Regional Air Compliance Manager of the DEQs NRO. These records shall include, but are not limited to the following:

   a. All fuel records to demonstrate compliance with Conditions III.A.9 – III.A.14 and III.B.7 – III.B.9.

   b. The hourly fuel consumption (in scf/hr of pipeline natural gas and gallons/hr of No.2 fuel oil) of each CT (Unit 1, Unit 2, Unit 3, Unit 4, and Unit 5) to demonstrate compliance with Condition III.B.6.

   c. All data and calculations necessary to demonstrate compliance with the emission limits contained in Condition III.A.21 – III.A.24, and III.A.27. These records shall include, but are not limited to the following:

      i. The times of operation of each CT when firing with No.2 distillate fuel oil.

      ii. Hourly throughput of No.2 distillate fuel oil and natural gas to each CT, for purposes of calculating hourly emissions for pollutants for which there is not a continuous emissions monitor.

      iii. Annual throughput of distillate fuel oil and natural gas for each CT, calculated monthly as the total for the most recent twelve complete calendar months

   d. Monthly emissions calculations for PM-10, sulfur dioxide, carbon monoxide, and VOC from the CTs stacks using calculation methods approved by the Air Compliance Manager of DEQs NRO to verify compliance with the lb/hr and ton/yr emission limitations in Conditions III.A.21 - III.A.24, and III.A.27. These calculation methods may use the hourly operation information above and the most recent stack test information or AP-42, as determined to be appropriate by

the Air Compliance Manager of the DEQs NRO.

.e. All valid purchase contracts, tariff sheets or transportation contracts for the fuels, specifying that the maximum sulfur content of the natural gas as required in Condition III.B.7.

f. All records of the required training including a statement of time, place and nature of training provided as required in Condition III.C.2.

g. Good written operating procedures and a maintenance schedule for the CTs. These procedures shall be based on the manufacturer's recommendations, at minimum as required in Condition III.C.2.

h. All 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 as required in Condition III.F.

i. All records of each occurrence of control equipment scheduled maintenance in which the control equipment will be shut down or bypassed or both which will result in excess emissions for more than one hour. The records shall include, but not limited to the following:

   i. Identification of the air pollution control equipment to be taken out of service using the PCD ID number from condition II, as well as its location, and registration number of the facility;

   ii. The expected length of time that the air pollution control equipment will be out of service;

   iii. The nature and quantity of emissions of air pollutants likely to occur during the shutdown period;

   iv. Measures that will be taken to minimize the length of the shutdown or to negate the effect of the outage.

j. All records of excess emissions to include date, time, cause, and corrective action taken to alleviate the excess emissions.

k. All records of scheduled and unscheduled maintenance.

l. All records of VEOs shall recorded and shall contain the date, time, results of the VEO, description of any modifications and/or repairs, if necessary to correct any problem, and all follow-up VEE records including name of certified observer, date, time, results of follow-up VEE and operating parameters necessary to demonstrated compliance with this permit. The content of and format of such

records shall be arranged with the Regional Air Compliance Manager of the DEQs NRO.

2. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-490F and Condition 33 and 42 of 07/01/08 NSR Permit)

E. Testing

1. ***Required testing –***

The permit does not require source tests. The DEQ and EPA have the authority to require testing necessary to determine compliance with an emission limit or standard at any reasonable time.

(9 VAC 5-80-490E & F)

2. ***Additional requested testing –***

Upon request by the DEQ, or in accordance with federal requirements, the permitted facility shall conduct additional performance tests to demonstrate compliance with the emission limits contained in this permit. The details of the tests shall be arranged with the Regional Air Compliance Manager of the DEQs NRO.

(9 VAC 5-80-490.E, 9 VAC 5-80-490.F and Condition 30 of 07/01/08 NSR Permit)

3. ***Acceptable emission test methods –***

If additional testing is requested in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

Pollutant	Test Method (40 CFR Part 60, Appendix A)
NO_X	EPA Method 7, 7E, or 20
SO2	EPA Method 6, or 6C
CO	EPA Method 10
PM/PM-10/PM-2.5	EPA Method 5, 202, OTM 027, and/or OTM 028
O_2 or CO_2	EPA Method 3 or 3A
Visible Emission	EPA Method 9

(9 VAC 5-80-490 E)

F. Reporting

All correspondence to the DEQ concerning this permit should be submitted to the following address:

Regional Air Compliance Manager
Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193

Unless otherwise specified in Condition VII.E, all correspondence to the EPA concerning this permit should be submitted to the following address:

U.S. Environmental Protection Agency, Region III
Air Protection Division (3AP12)
1650 Arch Street
Philadelphia, PA 19103-2029

1. ***Equipment and Control Equipment Malfunctions –***

   The permittee shall furnish notification to the Regional Air Compliance Manager of the DEQs NRO, of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by email, facsimile transmission, telephone, or telegraph.

   a. Such notification shall be made as soon as practicable but no later than four daytime business hours after the malfunction is discovered.

   b. 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.

   c. A permittee subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C is not required to provide the written two week statement for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40.

   d. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Regional Air Compliance Manager of the DEQs NRO-FSO.

(9 VAC 5-80-490F and Condition 43 of the 07/01/08 NSR Permit.

2. ***Control Equipment Maintenance –***

   The permittee shall furnish notification to the Regional Air Compliance Manager of the DEQs NRO of the intention to shut down or bypass, or both, air pollution control equipment for necessary scheduled maintenance, which may results in excess emissions for more than one hour, at least twenty-four hours prior to the shutdown. The notification shall include, but is not limited to, the following information:

a. Identification of the air pollution control equipment to be taken out of service using the PCD ID number from Condition II, as well as its location, and registration number of the facility;

b. The expected length of time that the air pollution control equipment will be out of service;

c. The nature and quantity of emissions of air pollutants likely to occur during the shutdown period;

d. Measures that will be taken to minimize the length of the shutdown or to negate the effect of the outage.

(9 VAC 5-80-490F and Condition 44 of the 07/01/08 NSR Permit)

3. ***Reporting of a Re-tuning Event –***

a. The permittee shall notify the Regional Air Compliance Manager of the DEQs NRO, no less than twenty-four hours prior to each CTs re-tuning event. The notification shall include, but is not limited to, the following information.

i. Identification of the specific CT to be re-tuned.

ii. Reason for the re-tuning event.

iii. Measures that will be taken to minimize the length of the re-tuning event.

b. The permittee shall furnish a written report to the Regional Air Compliance Manager of the DEQs NRO of all pertinent facts concerning the re-tuning event, as soon as practicable but not later than fourteen business days after the re-tuning event. The notification shall include, but is not limited to, the following information.

i. Identification of the CT that was re-tuned.

ii. The magnitude of excess emissions for each CT, any conversion factors used in the calculation of the excess emissions, and the date and time of commencement and completion of each period of excess emissions.

c. NO_X emissions during each CTs re-tuning event shall be recorded and included in the associated quarterly reports and in the total annual emissions as required in the Conditions III.A.19.

d. The re-tuning event for each CT shall be identified on the Data Acquisition Report.

(9 VAC 5-50-50E, 9 VAC 5-80-490F, and Condition 35 of the 07/01/08 NSR Permit)

IV. Facility Wide Conditions

A. 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.

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 and process equipment which affect such emissions:

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

2. Maintain an inventory of spare parts.

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

4. 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.

5. 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 5-80-490 and Condition 41 of 07/01/08 NSR Permit)

B. 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 5-80-490 and Condition 45 of 07/01/08 NSR Permit)

C. Recordkeeping

1. The permittee shall maintain records of all 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 Regional Air Compliance Manager of the DEQs NRO. These records shall include, but are not limited to the following:

   a. Data and calculations necessary to demonstrate compliance with the emission limits contained in Conditions III.A.21 – III.A.24, and III.A.27.

b. Scheduled and unscheduled maintenance and operator training, as required in Condition III.D.1.

2. These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-490 and Condition 33 of 07/01/08 NSR Permit)

D. Testing

1. The permit does not require source tests. The DEQ and EPA has authority to require testing not included in this permit if necessary to determine compliance with an emission limit or standard at any reasonable time.

2. The permitted facility shall be modified to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports will be provided at the appropriate locations.
(9 VAC 5-50-30 and 9 VAC 5-80-490 E & F)

3. If testing is conducted in addition to the CEMS testing specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

Pollutant	Test Method (40 CFR Part 60, Appendix A)
NO_X	EPA Method 7, 7E, or 20
SO2	EPA Method 6 or 6C
CO	EPA Method 10
PM/PM10	EPA Methods 5, 201, 201A, OTM 27, or OTM 28
Visible Emission	EPA Method 9

(9 VAC 5-80-490 E & F)

V. Insignificant Emission Units

The insignificant emission units are presumed to be in compliance with all requirements of the Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping or reporting shall be required for these emission units in accordance with 9 VAC 5-80-490.

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation 9 VAC 5-80-720B	Pollutant(s) Emitted (if applicable to 9 VAC 5-80-720B)	Rated Capacity (if applicable to 9 VAC 5-80-720)
TNK1	No.2 distillate fuel oil storage tank	9 VAC 5-80-720B	VOC	2,700,000 gallons
TNK2	No.2 distillate fuel oil storage tank	9 VAC 5-80-720B	VOC	2,700,000 gallons

(9 VAC 5-80-720 and 9 VAC 5-80-490 C, E, and F)

VI. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Non Applicability
40 CFR 60 Subpart Dc (Pipeline Heater PH-4)	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	Applies is each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input 100 MMBtu/hr less, but greater than or equal 10 MMBtu/hr. Since PH-4 is only 4.2 MMBtu this does not apply.
40 CFR 60 Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)	The storage vessels store liquids with a vapor pressure less than 3.5 kilopascals (0.5 psia).
40 CFR 63, Subpart YYYY	Standards of Performance for Combustion Turbines	The facility is not a major source of HAPs
9 VAC 5 Chapter 80, Article 7 and 9 VAC 5 Chapter 60, Article 3	Major HAPS NSR permitting	Not a major HAPS source.
40 CFR 68	Prevention of Accidental Chemical Releases	Any chemicals on-site are below threshold levels.

Nothing in this permit shield shall alter the provisions of §303 of the Federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-500)

VII. General Conditions

A. Certification of Documents

The following documents submitted to the board shall be signed by a responsible official: (i) any emission statement, application, form, report, or compliance certification; (ii) any document required to be signed by any provision of the regulations of the board; or (iii) any other document containing emissions data or compliance information the owner wishes the board to consider in the administration of its air quality programs. A responsible official is defined as follows:

1. For a business entity, such as a corporation, association or cooperative, a responsible official is either:

    a. The president, secretary, treasurer, or a vice president of the business entity in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the business entity; or

    b. A duly authorized representative of such business entity if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either (i) the facilities employ more than 250 persons or have gross annual sales or expenditures exceeding $25 million (in second quarter 1980 dollars) or (ii) the authority to sign documents has been assigned or delegated to such representative in accordance with procedures of the business entity.

2. For a partnership or sole proprietorship, a responsible official is a general partner or the proprietor, respectively.

3. Any person signing a document under this condition shall make the following certification:

    "I certify under penalty of law that this document and all attachments 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 managed 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."

4. Subsection 3 shall be interpreted to mean that the signer must have some form of direction or supervision over the persons gathering the data and preparing the document (the preparers), although the signer need not personally nor directly supervise these activities. The signer need not be in the same line of authority as the preparers, nor do the persons gathering the form need to be employees (e.g., outside contractors can be used). It is sufficient that the signer has authority to assure that the necessary actions are taken to prepare a complete and accurate document.

(9 VAC 5-80-490.B and Condition 37 of 07/01/08 NSR Permit)

B. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-490 N)

C. Permit Expiration

1. The Title V permit has a fixed term of five years. The expiration date shall be the date five years from the effective date of the permit. Unless the owner submits a timely and complete renewal application to Departmental of Environmental Quality (DEQ) consistent with 9 VAC 5-80-430, the right of the facility to operate shall terminate upon permit expiration.

2. The permit can be set to expire for a period of less than five years if required to bring the enforcement period into concurrence with other permitting programs. This Article 3 Title V/Title IV (Acid Rain) permit is a combined permit and therefore shall be issued to meet the enforcement period of the combined permitting programs and in this case the Title IV permit dates will dictate the expiration date.

3. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.

4. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 3, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-510.

5. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-430 for a renewal

permit, except in compliance with a permit issued under Article 3, Part II of 9 VAC 5 Chapter 80.

6. If an applicant submits a timely and complete application under section 9 VAC 5-80-430 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-500 , shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.

7. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-430 shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-430 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-430 B, C and F, 9 VAC 5-80-490 D and 9 VAC 5-80-530 B)

D. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
   a. The date, place as defined in the permit, and time of sampling or measurements.
   b. The date(s) analyses were performed.
   c. The company or entity that performed the analyses.
   d. The analytical techniques or methods used.
   e. The results of such analyses.
   f. The operating conditions existing at the time of sampling or measurement.
   (9 VAC 5-80-490 F)

2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
   (9 VAC 5-80-490 F)

3. The permittee shall submit the results of monitoring contained in any applicable requirement to the Air Compliance Manager of the DEQs NRO no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-430 G and shall include:

a. The time period included in the report. The time periods to be addressed are January 1 to June 30 inclusive and July 1 to December 31 inclusive.

b. All deviations from permit requirements. For purposes of this permit, a deviation includes, but is not limited to the following:

   i. Exceedance of emissions limitations or operational restrictions,

   ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,

   iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9 VAC 5-80-490 F)

E. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to 114(a)(3) and 504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with VAC 5-80-430 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.

2. The identification of each term or condition of the permit that is the basis of the certification.

3. The compliance status.

4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.

5. Consistent with subsection 9 VAC 5-80-490E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.

6. Such other facts as the permit may require in determining the compliance status of the source.

7. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

   R3_APD_Permits@epa.gov

(9 VAC 5-80-490K.5)

F. Permit Deviation Reporting

The permittee shall notify the Regional Air Compliance Manager of the DEQs NRO by email, facsimile transmission, telephone, or telegraph, as soon as practicable but no later than four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition IX.C.3 of this permit.
(9 VAC 5-80-490 F.2)

G. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after discovery, notify the Regional Air Compliance Manager of the DEQs NRO by email, facsimile transmission, telephone, or telegraph, email of such failure or malfunction and shall within 14-days provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Regional Air Compliance Manager of the DEQs NRO.
(9 VAC 5-20-180 C)

1. The emission units that have continuous monitors subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not subject to the two week written notification.

2. The emission units subject to the reporting and the procedure requirements of 9 VAC 5-40-50 C and the procedures of 9 VAC 5-50-50 C are:
   a. Unit 1
   b. Unit 2
   c. Unit 3
   d. Unit 4
   e. Unit 5

3. Each owner required to install a continuous monitoring system subject to 9 VAC 5-40-41 or 9 VAC 5-50-410 shall submit a written report of excess emissions (as defined in the applicable emission standard) to the board for every calendar quarter. All quarterly reports shall be postmarked by the thirtieth day following the end of each calendar quarter and shall include the following information:
   a. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h) or 9 VAC 5-40-41 B 6, any conversion factors used, and the date and time of commencement and completion of each period of excess emissions;
   b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the source. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted;
   c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and
   d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.

4. All emission units not subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C must make written reports within 14 days of the malfunction occurrence.

(9 VAC 5-20-180 C, 9 VAC 5-40-50, and 9 VAC 5-50-50)

H. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-490 G.1)

I. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit

termination, revocation and re-issuance, or modification; or for denial of a permit renewal application.
(9 VAC 5-80-490 G.2)

J. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-490 G.3)

K. Permit Modification

A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-360, 9 VAC 5-80-1100, 9 VAC 5-80-1790, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9 VAC 5-80-490 G, 9 VAC 5-80-490 L, 9 VAC 5-80-550, and 9 VAC 5-80-660)

L. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-490 G.5)

M. Duty to Submit Information

1. The permittee shall furnish to the board, within a reasonable time, any information that the board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the board along with a claim of confidentiality.

(9 VAC 5-80-490 G.6)

2. Any document (including reports) required in a permit condition to be submitted to the board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-430 G.9.

(9 VAC 5-80-490 K.1)

N. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-360 through 9 VAC 5-80-700 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 et seq. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to DEQ by April 15 of each year.

The calculations and final amount of emissions are subject to verification and final determination by DEQ.
(9 VAC 5-80-490 H)

O. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited, to the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;

2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;

4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and

5. The prompt removal of spilled or traced dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-40-20 E, 9 VAC 5-50-90, and 9 VAC 5-50-50)

P. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
(9 VAC 5-40-20 E, and 9 VAC 5-50-20 E)

Q. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted

facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-500 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80 Article 3. (9 VAC 5-80-490 J)

R. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable time's substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-490 K.2)

S. Reopening For Cause

The permit shall be reopened by the board if additional federal requirements become applicable to a major source with a remaining permit term of three or more years. Such a reopening shall be completed not later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-430 F.

1. The permit shall be reopened if the board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-490 D.

(9 VAC 5-80-490 L)

T. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.
(9 VAC 5-80-510 G)

U. Transfer of Permits

1. No person shall transfer a permit from one location to another or from one piece of equipment to another.
(9 VAC 5-80-520)

2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the board of the change in ownership within thirty days of the transfer and shall comply with the requirements of 9 VAC 5-80-560.
(9 VAC 5-80-520)

3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the board of the change in source name within thirty days of the name change and shall comply with the requirements of 9 VAC 5-80-560.
(9 VAC 5-80-520)

V. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.

2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:

   a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.

   b. The permitted facility was at the time being properly operated.

   c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.

   d. The permittee notified the board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any

steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-490 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.

3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any requirement applicable to the source.

4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-650)

W. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 3. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any of the grounds for revocation or termination or for any other violations of these regulations.
(9 VAC 5-80-490 G & L, 9 VAC 5-80-640 and 9 VAC 5-80-660)

X. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submits such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9 VAC 5-80-430 E)

Y. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substance subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A - F)

Z. Asbestos Requirements

The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9 VAC 5-60-70 and 9 VAC 5-80-490 A)

AA. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)

BB. Changes to Permits for Emissions Trading

No permit revision shall be required, under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-490 I)

CC. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-490 except subsection N shall be included to determine compliance.

2. The permit shield described in 9 VAC 5-80-500 shall extend to all terms and conditions that allow such increases and decreases in emissions.

3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-360 through 9 VAC 5-80-700.

(9 VAC 5-80-490 I)

VIII. Title IV (Phase II Acid Rain) Permit Allowances and Requirements

A. Statutory and Regulatory Authorities

In accordance with the Air Pollution Control Law of Virginia §10.1-1308 and §10.1-1322, the Environmental Protection Agency (EPA) Final Full Approval of the Operating Permits Program (Titles IV and V) published in the Federal Register December 4, 2001, Volume 66, Number 233, Rules and Regulations, Pages 62961-62967 and effective November

30, 2001, and Title 40, the Code of Federal Regulations §§72.1 through 76.16, the Commonwealth of Virginia Department of Environmental Quality (DEQ) issues this permit pursuant to 9 VAC 5 Chapter 80, Article 3 of the Virginia Regulations for the Control and Abatement of Air Pollution (Federal Operating Permit Article 3).
(9 VAC 5-80-490 B.2)

B. SO_2 Allowance Allocations and NO_X Requirements for affected units

		2010	2011	2012	2013	2014
Unit 1, Unit 2, Unit 3, Unit 4, Unit 5	SO_2 allowances, allocated by U. S. EPA (tons)	None	None	None	None	None
Unit 1, Unit 2, Unit 3, Unit 4, Unit 5	NO_X limit	The CTs are gas-fired or oil-fired units and are not subject to NO_X limitations under 40 CFR Part 76				

(9 VAC 5-80-490 A.4)

C. Additional Requirements, Notes, Comments, and Justifications.

1. *Additional Requirements –*

Virginia Electric and Power, Dominion – Ladysmith Combustion Turbine Station shall submit a complete permit application that includes all of the information required under 40 CFR §§72.21 and 72.31 at least six months, but no earlier than eighteen months, prior to the date of expiration of the existing Phase II Acid Rain permit. EPA forms shall be used.
(9 VAC 5-80-430 C.5)

2. *Notes –*

a. SO_2 allowances may be acquired from other sources in addition to those allocated by U.S. EPA. No revision to this permit is necessary in order for the owners and operators of this unit to hold additional allowances recorded in accordance with 40 CFR Part 73. The owners and operators of this unit remain obligated to hold sufficient allowances to account for SO_2 emissions from this unit in accordance with 40 CFR 72.9(c)(1).

(9 VAC 5-80-420 C.1 and H.1 and 9 VAC 5-80-490 O)

b. This unit was not eligible for SO_2 allowance allocation by U.S. EPA under Section 405 of the Clean Air Act and the Acid Rain Program, so none were assigned in 40 CFR Part 73, Table 2.

(9 VAC 5-80-420 C.6)

3. *Justifications –*

   Unit 1,Unit 2,Unit 3,Unit 4, and Unit 5 are gas-fired or oil-fired units and are not subject to NO_X limitations under 40 CFR Part 76.

(9 VAC 5-80-420 D)]

IX. Clean Air Interstate Rule (CAIR)

The permittee shall comply with all applicable CAIR requirements (9 VAC 5-140-1010 *et seq.*, 9 VAC 5-140-2010 *et seq.*, 9 VAC 5-140-3010 *et seq.*, 9 VAC 5-140-5010 *et seq.*, and 40 CFR Part 96) by the compliance date in the respective Part of 9 VAC 5 Chapter 140, as contained in the CAIR Permit. The CAIR Permit application (Appendix E) is attached to this document and expires upon expiration of this permit.
(9 VAC 5-80-490, 40 CFR Part 96, and 9 VAC 5 Chapter 140)

APPENDIX A

CUSTOM FUEL MONITORING SCHEDULE REQUEST AND THE EPA LETTER OF APPROVAL

Effective for Unit 1 and Unit 2 Only
(Units 3, 4, and 5 are subject to 40 CFR 60, Subpart KKKK and not included in this letter)

Dominion Generation

Dominion

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RECEIVED
DEC 9 2002
FSO

December 3, 2002

Mr. James Hagedorn
USEPA
Air Protection Division, 3AP12
1650 Arch Street
Philadelphia, PA 19103-2029

Re: Ladysmith Combustion Turbine Station
Custom Fuel Monitoring Schedule

Dear Mr. Hagedorn:

Dominion Generation operates the Ladysmith Combustion Turbine Station located in Caroline County, VA that became operational in June 2001. The two General Electric 7 FA simple-cycle combustion turbines operate primarily on natural gas, but they are capable of combusting distillate fuel oil (low sulfur #2 oil). The units are subject to NSPS Subpart GG, 40 CFR Part 75 (the Acid Rain provisions), and to a Virginia stationary source permit to construct and operate.

We request that EPA Region 3: 1) approve a custom fuel monitoring schedule for the analysis of sulfur in the natural gas combusted at Ladysmith Combustion Turbine Station; 2) approve that samples taken at our Chesterfield Station fulfill the fuel analysis requirement for the Ladysmith Station; and, 3) waive the requirement to analyze nitrogen in the natural gas at the Ladysmith Station.

We request to be relieved of the requirements at 40 CFR 60.334(b) and 60.335(d) to monitor, determine, and record the sulfur content of the fuels fired in the turbines. Instead, the facility proposes to follow applicable sulfur content determination and monitoring requirements for pipeline natural gas and fuel oil in 40 CFR Part 75, Appendix D.

We recognize that Subpart GG establishes the following sulfur dioxide (SO_2) emissions limitations:

- No owner or operator shall cause to be discharged into the atmosphere from any stationary gas turbine any gases containing SO_2 in excess of 0.015% by volume at 15% oxygen and on a dry basis; or,

Mr. James Hagedorn
December 3, 2002
Page 2

- No owner or operator shall burn in any stationary gas turbine any fuel which contains sulfur in excess of 0.8% by weight.

As indicated above, we propose to follow applicable sulfur content determination and monitoring requirements in Appendix D of 40 CFR Part 75. Given that the Acid Rain Program is recognized as more stringent than NSPS requirements, compliance with Subpart GG will be readily demonstrated. In a determination dated May 5, 2002 (see EPA Applicability Determination Index, Control Number 0200038, copy attached), EPA Region 3 approved similar requests for Pleasants Energy, LLC and for Armstrong Energy, LLLP, both of which are operated by Dominion.

In a letter dated July 2, 1998, EPA Region 3 approved the custom fuel monitoring schedule for our Darbytown Station (see EPA Applicability Determination Index, Control Number 9800110, copy attached). Our Ladysmith Station is located on the same pipeline that supplies our Darbytown and Chesterfield Stations, as is the Doswell Limited Partnership Station. In that same determination, Region 3 approved the use of natural gas samples taken at our Chesterfield Station to fulfill the fuel analysis requirement for the Darbytown Station. The Doswell facility had previously been granted approval for a custom fuel monitoring schedule (see ADI Control Number 9800053, January 9, 1998, copy attached). Given that at least two determinations have been made regarding natural gas in this pipeline, we request that the custom fuel monitoring schedule be approved without further study or analysis of additional data.

In addition, we request waiving of the requirement to analyze nitrogen in the natural gas.

Please contact Mr. Philip Knause at (804) 273-2946, or via email at Philip_Knause@Dom.com if you have any questions.

Yours Truly,

Cathy C. Taylor
Director – Electric Environmental Services

cc: Mr. James LaFratta
VADEQ Fredericksburg Satellite Office
806 Westwood Office Park
Fredericksburg, VA 22401

#40960

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

RECEIVED
DEC 19 2002
FGO

DEC 17 2002

Cathy C. Taylor, Director
Dominion Generation Environmental Services
5000 Dominion Boulevard
Glen Allen, Virginia, 23060

Dear Ms. Taylor:

The Philadelphia Regional Office of the U.S. Environmental Protection Agency (Region III) has received and reviewed your letter, dated December 3, 2002, requesting approval to use several alternative monitoring methods to the ones specified under Subpart GG of Part 60 for emission sources covered by the New Source Performance Standards (NSPS) program at the Company's Ladysmith Combustion Turbine Station. Dominion operates two General Electric 7 FA simple cycle combustion turbines at the station that primarily burn natural gas but do have the capability of burning distillate fuel oil #2. The Company is specifically requesting that EPA approve; 1) a custom fuel monitoring schedule for sulfur analysis for the pipeline-quality natural gas combusted in the turbines; 2) the use of Chesterfield Station samples for showing pipeline gas sulfur content; 3) a waiver of the requirement to monitor natural gas nitrogen content; and 4) approval to use the Acid Rain Part 75, Appendix D procedures for measuring the sulfur content in both the natural gas and distillate fuel oil combusted in the turbines.

After careful consideration of the facts presented in the Company's December letter, Region III has decided to approve these requests since similar requests have been approved in the past by EPA in both Region III and other EPA Regional Offices for similarly situated stations. These approvals are consistent with past EPA determinations as currently presented on the Agency's Applicability Determination Index database. EPA's 1987 National Policy covering Subpart GG gas turbines acknowledges the fact that fuel bound nitrogen in pipeline-quality natural gas fuel does not appreciably contribute to the formation of nitrogen oxides upon combustion. Another factor taken into consideration is the fact that Region III has already approved similar exemptions and alternatives for other turbine stations that also combust the same natural gas fuel as the Ladysmith Station from the same gas pipeline. If you should have any comments or questions in regard to this matter, do not hesitate to contact James W. Hagedorn, of my staff, at (215) 814-2161.

Sincerely,

Judith M. Katz, Director
Air Protection Division

cc: Jim LaFratta, VADEQ-Fredericksburg Office

Printed on 100% recycled/recyclable paper with 100% post-consumer fiber and process chlorine free.
Customer Service Hotline: 1-800-438-2474

SCANNED

APPENDIX B

FUEL TRANSFERS/SHIPMENT RECEIPT DEFINED

No. 2 Distillate Fuel Oil Transfers/Shipment Receipt

Dominion – Ladysmith CT Station defines fuel oil transfer/shipment receipt as a series of truck transport loads from a vendor's fuel oil tank to the facility's 2,700,000 gal tanks. Prior to the fuel transfer/shipment receipt, the vendor shall supply Dominion – Ladysmith CT Station personnel with copies of fuel contracts, tariff sheets and/or bills of laden with a maximum total sulfur specification that meets the definition of No. 2 distillate fuel oil. These certifications will provide, at a minimum, the information required in Condition 10 of this permit. Copies of the fuel supplier certifications shall be retained at the CT site.

Upon receipt of delivered oil, the receiving tank(s) at the CT site will be sampled for sulfur content prior to combustion. The sampling will be done as referenced in Condition 32 of the CT permit. Copies of these analyses will also be retained at the CT site as required by their permit.

APPENDIX C

ALTERNATE OPERATING SCENARIO – RE-TUNING

ALTERNATE OPERATING SCENARIOS – RE-TUNING

Alternate 1 – Units 1 – 5 (Natural Gas)
&
Alternate 2 – Units 1 – 5 (No. 2 Distillate Oil)

In order to meet NO_X emission limits, Units 1 – 5 may require periodic re-tuning based upon maintenance or a change in test methods for fuel-bound nitrogen. Re-tuning may require for either or both fuels. During retuning events, the unit(s) is ramped up at 5 MW increments all the way to 100% load. At each 5 MW increment, the unit(s) is tested and data is collected to produce a control curve for the units control system. The unit(s) is dropped back to minimum load, the new control curve is entered, and then the unit(s) is then ramped back up and data points are taken to ensure that the control curve meets the NO_X emission limits. This process is repeated until the unit is properly tuned. NO_X emissions may exceed short term NOX emission limits during re-tuning events. Re-tuning events are infrequent (typically once every 450 starts or 5 – 12 years; however, could be longer depending on the cause of the re-tuning). Consequently, Dominion is proposing a variance from NO_X emission limits during re-tuning events.

Excess Emissions – Re-tuning: Excess emissions resulting from the re-tuning of the combustion turbines shall be permitted provided that:

a. Best operational practices are adhered to and the duration of excess emissions shall be minimized but in no case exceed twelve hours per combustion turbine's re-tuning event in any twenty-four hour period. The operator may request additional hours from the DEQ.

b. During each Unit 1 and Unit 2 re-tuning event, NO_X emission concentrations, based on an hourly average, shall not exceed the NO_X standards of the New Source Performance Standards (NSPS) 40 CFR 60 Subpart GG - Standards of Performance for Stationary Gas Turbines (60.330 et seq.).

c. During each Unit 3, Unit 4, and Unit 5 re-tuning event, NO_X emission concentrations, based on an hourly average, shall not exceed the NO_X standards of the New Source Performance Standards (NSPS) 40 CFR 60 Subpart KKKK - Standards of Performance for Stationary Combustion Turbines (60.4300 et seq.).

d. The permittee shall notify the Regional Air Compliance Manager of the DEQs NRO, no less than twenty-four hours prior to each combustion turbine's re-tuning event. The notification shall include, but is not limited to, the following information.

   i. Identification of the specific combustion turbine to be re-tuned.
   ii. Reason for the re-tuning event.
   iii. Measures that will be taken to minimize the length of the re-tuning event.

e. The permittee shall furnish a written report to the Regional Air Compliance Manager of the DEQs NRO of all pertinent facts concerning the re-tuning event,

as soon as practicable but not later than fourteen business days after the re-tuning event. The notification shall include, but is not limited to, the following information.

i. Identification of the combustion turbine that was re-tuned.
ii. The magnitude of excess emissions for each combustion turbine, any conversion factors used in the calculation of the excess emissions, and the date and time of commencement and completion of each period of excess emissions.

f. NO_X emissions during each combustion turbine's re-tuning event shall be recorded and included in the associated quarterly reports and in the total annual emissions.

The re-tuning event for each combustion turbine shall be identified on the Data Acquisition Report.

APPENDIX D

ALTERNATE OPERATING SCENARIOS - FUEL TYPE TRANSFER
Excerpt from Facility Operating Procedures

At the CEMS Polling Computer

- ☐ After Unit is on line (approx. 30 minutes after FIRE) verify CEMS initiates a CAL by monitoring the POLLING Computer for "C" flags
- ☐ CEMS will CAL for approx. 25 min.
- ☐ After CAL is complete, check CAL REPORT on polling computer to assure no parameters are OOC.
- ☐ IF a parameter goes OOC during a CAL a "T" flag will appear on that parameter, the Technician MUST put PNOXL, PNOXH and QO2D in MAINT and perform a manual CAL to correct the problem. THEN a "hands off" cal needs to be performed.
- ☐ Check QNOXA15 to make sure that is below 9ppm when on Natural Gas and or 42ppm when on Liquid Fuel.
  - o Start up - This must occur within 2 one hour averaging periods (2 CEMS hours).
  - o Fuel Transfer - This must occur within 3 one hour averaging periods (3 CEMS hours).
  - o Shut Down - This must occur within 2 one hour averaging periods (2 CEMS hours).

  If the unit can not come into compliance within the above time frames the unit must be immediately shut down.
- ☐ All alarms on the CEMS Polling Computer must be addressed immediately to determine cause and appropriate action.

Fuel Transfers

Natural Gas to Liquid Fuel – Auto / Manual Operator Initiated Transfer

- ☐ If Manually transferring fuels lower the load on the Unit (40 - 60MW), initiate transfer and enter the start time of the transfer in the station log.
- ☐ If Auto transfer due to loss of gas pressure. Select PRESELECTED load to current MW to keep unit from continuing to runback and eventually off line. Enter the start time of the transfer in the station log.
- ☐ Confirm unit has successfully transferred to liquid fuel.
- ☐ Observe Exhaust Spreads and Temperatures, confirm within normal limits.
- ☐ Raise unit load to above Water Injection approximately 80MW.
- ☐ Confirm Water Injection system has started and flow is established.
- ☐ Observe Exhaust Spreads and Temperatures, confirm within normal limits

- ☐ Confirm NOX below 42ppm on CEMS Polling Computer.
- ☐ Enter the end time of the transfer in the station log.
- ☐ After verifying proper unit operation resume unit loading to meet required dispatch.
- ☐ At the CEMS Polling Computer the alarm for exceedance should be acknowledged with a fuel transfer as the reason code.

Liquid Fuel to Natural Gas - *Manual Operator Initiated Transfer*

- ☐ Lower unit load to 12MW.
- ☐ Initiate transfer.
- ☐ Enter the start time of the transfer in the station log.
- ☐ Confirm unit has transferred to natural gas.
- ☐ Observe Exhaust Spreads and Temperatures, confirm within normal limits
- ☐ Raise load to above Mode 6 approximately 90MW.
- ☐ Observe Exhaust Spreads and Temperatures, confirm within normal limits
- ☐ Confirm NOX below 9ppm on CEMS Polling Computer.
- ☐ Enter the end time of the transfer in the station log.
- ☐ After verifying proper unit operation resume unit loading to meet required dispatch.
- ☐ At the CEMS Polling Computer the alarm for exceedance should be acknowledged with a fuel transfer as the reason code.

APPENDIX E

CAIR PERMIT APPLICATION

Pamela F. Faggert
Vice President and Chief Environmental Officer
Dominion Resources Services, Inc.
5000 Dominion Boulevard, Glen Allen, Virginia 23060
Phone: 804-273-3667

Dominion

RECEIVED

FSO

Certified Mail – Return Receipt Requested

February 11, 2008

Mr. Terry H. Darton
Air Permit Manager
Virginia Department of Environmental Quality
Fredericksburg Satellite Office
806 Westwood Office Park
Fredericksburg, VA 22401

Re: Revised CAIR Permit Application
Dominion - Ladysmith CT Station
Registration No. 40960

Dear Mr. Darton:

Enclosed please find the revised CAIR application documents for Ladysmith CT Station. The Certificate of Representation was completed on-line via the CAMD website, so a copy of the Certificate of Representation report has been included for your reference.

If you have any questions, please feel free to contact Liz Willoughby at (804) 273-3740 or Elizabeth.A.Willoughby@dom.com.

Sincerely,

Pamela F. Faggert

Pamela F. Faggert

Enclosure: Ladysmith CT Station revised CAIR permit application

CAIR Permit Application
(for sources covered under a CAIR SIP)

For more information, refer to 40 CFR 96.121, 96.122, 96.221, 96.222, 96.321, and 96.322

This submission is: New x Revised

STEP 1
Identify the source by plant name, State, and ORIS or facility code

Plant Name Dominion – Ladysmith CT Station State VA ORIS/Facility Code 7838

STEP 2
Enter the unit ID# for each CAIR unit and indicate to which CAIR programs each unit is subject (by placing an "X" in the column)

Unit ID#	NO_X Annual	SO_2	NO_X Ozone Season
1	X	X	X
2	X	X	X
3	X	X	X
4	X	X	X
5	X	X	X

STEP 3
Read the standard requirements and the certification, enter the name of the CAIR designated representative, and sign and date

Standard Requirements

(a) Permit Requirements.

(1) The CAIR designated representative of each CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X Ozone Season source (as applicable) required to have a title V operating permit and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) required to have a title V operating permit at the source shall:

(i) Submit to the permitting authority a complete CAIR permit application under §96.122, §96.222, and §96.322 (as applicable) in accordance with the deadlines specified in §96.121, §96.221, and §96.321 (as applicable); and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit.

(2) The owners and operators of each CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X Ozone Season source (as applicable) required to have a title V operating permit and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) required to have a title V operating permit at the source shall have a CAIR permit issued by the permitting authority under subpart CC, CCC, and CCCC (as applicable) of 40 CFR part 96 for the source and operate the source and the unit in compliance with such CAIR permit.

(3) Except as provided in subpart II, III, and IIII (as applicable) of 40 CFR part 96, the owners and operators of a CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X Ozone Season source (as applicable) that is not otherwise required to have a title V operating permit and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) that is not otherwise required to have a title V operating permit are not required to submit a CAIR permit application, and to have a CAIR permit, under subpart CC, CCC, and CCCC (as applicable) of 40 CFR part 96 for such CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X Ozone Season source (as applicable) and such CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable).

Plant Name (from Step 1) **Dominion – Ladysmith CT Station**

STEP 3, continued

(b) Monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X Ozone Season source (as applicable) and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) at the source shall comply with the monitoring, reporting, and recordkeeping requirements of subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96.

(2) The emissions measurements recorded and reported in accordance with subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96 shall be used to determine compliance by each CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X Ozone Season source (as applicable) with the CAIR NO_X emissions limitation, CAIR SO_2 emissions limitation, and CAIR NO_X Ozone Season emissions limitation (as applicable) under paragraph (c) of §96.106, §96.206, and §96.306 (as applicable).

(c) Nitrogen oxides emissions requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_X source and each CAIR NO_X unit at the source shall hold, in the source's compliance account, CAIR NO_X allowances available for compliance deductions for the control period under §96.154(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_X units at the source, as determined in accordance with subpart HH of 40 CFR part 96.

(2) A CAIR NO_X unit shall be subject to the requirements under paragraph (c)(1) of §96.106 for the control period starting on the later of January 1, 2009 or the deadline for meeting the unit's monitor certification requirements under §96.170(b)(1), (2), or (5) and for each control period thereafter.

(3) A CAIR NO_X allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of §96.106, for a control period in a calendar year before the year for which the CAIR NO_X allowance was allocated.

(4) CAIR NO_X allowances shall be held in, deducted from, or transferred into or among CAIR NO_X Allowance Tracking System accounts in accordance with subparts FF, GG, and II of 40 CFR part 96.

(5) A CAIR NO_X allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_X Annual Trading Program. No provision of the CAIR NO_X Annual Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §96.105 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR NO_X allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart EE, FF, GG, or II of 40 CFR part 96, every allocation, transfer, or deduction of a CAIR NO_X allowance to or from a CAIR NO_X source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR NO_X unit.

Sulfur dioxide emission requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO_2 source and each CAIR SO_2 unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO_2 allowances available for compliance deductions for the control period under §96.254(a) and (b) not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO_2 units at the source, as determined in accordance with subpart HHH of 40 CFR part 96.

(2) A CAIR SO_2 unit shall be subject to the requirements under paragraph (c)(1) of §96.206 for the control period starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under §96.270(b)(1), (2), or (5) and for each control period thereafter.

(3) A CAIR SO_2 allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of §96.206, for a control period in a calendar year before the year for which the CAIR SO_2 allowance was allocated.

(4) CAIR SO_2 allowances shall be held in, deducted from, or transferred into or among CAIR SO_2 Allowance Tracking System accounts in accordance with subparts FFF, GGG, and III of 40 CFR part 96.

(5) A CAIR SO_2 allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO_2 Trading Program. No provision of the CAIR SO_2 Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §96.205 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR SO_2 allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart FFF, GGG, or III of 40 CFR part 96, every allocation, transfer, or deduction of a CAIR SO_2 allowance to or from a CAIR SO_2 source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR SO_2 unit.

Nitrogen oxides ozone season emissions requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_X Ozone Season source and each CAIR NO_X Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO_X Ozone Season allowances available for compliance deductions for the control period under §96.354(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_X Ozone Season units at the source, as determined in accordance with subpart HHHH of 40 CFR part 96.

(2) A CAIR NO_X Ozone Season unit shall be subject to the requirements under paragraph (c)(1) of §96.306 for the control period starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under §96.370(b)(1), (2), (3) or (7) and for each control period thereafter.

(3) A CAIR NO_X Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of §96.306, for a control period in a calendar year before the year for which the CAIR NO_X Ozone Season allowance was allocated.

(4) CAIR NO_X Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO_X Ozone Season Allowance Tracking System accounts in accordance with subparts FFFF, GGGG, and IIII of 40 CFR part 96.

(5) A CAIR NO_X allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_X Ozone Season Trading Program. No provision of the CAIR NO_X Ozone Season Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §96.305 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR NO_X allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart EEEE, FFFF, GGGG, or IIII of 40 CFR part 96, every allocation, transfer, or deduction of a CAIR NO_X Ozone Season allowance to or from a CAIR NO_X Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.

Plant Name (from Step 1) **Dominion – Ladysmith CT Station**

STEP 3, continued

(d) Excess emissions requirements.
If a CAIR NO_X source emits nitrogen oxides during any control period in excess of the CAIR NO_X emissions limitation, then:
(1) The owners and operators of the source and each CAIR NO_X unit at the source shall surrender the CAIR NO_X allowances required for deduction under §96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and
(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

If a CAIR SO_2 source emits sulfur dioxide during any control period in excess of the CAIR SO_2 emissions limitation, then:
(1) The owners and operators of the source and each CAIR SO_2 unit at the source shall surrender the CAIR SO_2 allowances required for deduction under §96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and
(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

If a CAIR NO_X Ozone Season source emits nitrogen oxides during any control period in excess of the CAIR NO_X Ozone Season emissions limitation, then:
(1) The owners and operators of the source and each CAIR NO_X Ozone Season unit at the source shall surrender the CAIR NO_X Ozone Season allowances required for deduction under §96.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and
(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

(e) Recordkeeping and Reporting Requirements.
(1) Unless otherwise provided, the owners and operators of the CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X Ozone Season source (as applicable) and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the Administrator.
(i) The certificate of representation under §96.113, §96.213, and §96.313 (as applicable) for the CAIR designated representative for the source and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under §96.113, §96.213, and §96.313 (as applicable) changing the CAIR designated representative.
(ii) All emissions monitoring information, in accordance with subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96, provided that to the extent that subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_X Annual Trading Program, CAIR SO_2 Trading Program, and CAIR NO_X Ozone Season Trading Program (as applicable).
(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO_X Annual Trading Program, CAIR SO_2 Trading Program, and CAIR NO_X Ozone Season Trading Program (as applicable) or to demonstrate compliance with the requirements of the CAIR NO_X Annual Trading Program, CAIR SO_2 Trading Program, and CAIR NO_X Ozone Season Trading Program (as applicable).
(2) The CAIR designated representative of a CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X Ozone Season source (as applicable) and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) at the source shall submit the reports required under the CAIR NO_X Annual Trading Program, CAIR SO_2 Trading Program, and CAIR NO_X Ozone Season Trading Program (as applicable) including those under subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96.

(f) Liability.
(1) Each CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X Ozone Season source (as applicable) and each NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) shall meet the requirements of the CAIR NO_X Annual Trading Program, CAIR SO_2 Trading Program, and CAIR NO_X Ozone Season Trading Program (as applicable).
(2) Any provision of the CAIR NO_X Annual Trading Program, CAIR SO_2 Trading Program, and CAIR NO_X Ozone Season Trading Program (as applicable) that applies to a CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X Ozone Season source (as applicable) or the CAIR designated representative of a CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X Ozone Season source (as applicable) shall also apply to the owners and operators of such source and of the CAIR NO_X units, CAIR SO_2 units, and CAIR NO_X Ozone Season units (as applicable) at the source.
(3) Any provision of the CAIR NO_X Annual Trading Program, CAIR SO_2 Trading Program, and CAIR NO_X Ozone Season Trading Program (as applicable) that applies to a CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) or the CAIR designated representative of a CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) shall also apply to the owners and operators of such unit.

Plant Name (from Step 1) **Dominion – Ladysmith CT Station**

STEP 3, continued

(g) Effect on Other Authorities.
No provision of the CAIR NO_X Annual Trading Program, CAIR SO_2 Trading Program, and CAIR NO_X Ozone Season Trading Program (as applicable), a CAIR permit application, a CAIR permit, or an exemption under § 96.105, §96.205, and §96.305 (as applicable) shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X Ozone Season source (as applicable) or CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

Certification

I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name C.D. Holley

Signature C.D. Holley Date 3/14/2006

Back Print

Reports and Queries

Certificate of Representation

01/08/2008

Facility Information

Facility ID (ORISPL):	7838	**Facility Name:**	Ladysmith Combustion Turbine Sta	**State:**	VA	**Tribal Land:**	
County:	Caroline	**EPA AIRS ID:**	5103300040	**Latitude:**	38.0722	**Longitude:**	-77.5133

Facility Detail (Mini Detail)

Representative Information

Name: Charles D Holley
Company: Dominion Resources Services, Inc
Title: VP, Fossil & Hydro, System Ops
Address: VA 23060
Phone: (804) 273-3592
Fax: (804) 273-2433
Alternate:
Email: doug.holley@dom.com

Name: Phillip Sandino
Company: Virginia Electric & Power Company
Title: Dir F&H Station II
Address: VA 22026
Phone: (703) 441-3880

Fax: (703) 441-3897

Alternate: (267) 549-6436

Email: Phillip.M.Sandino@Dom.com

Popper Dear Legend (Multiple)

Current Representatives

Program	Primary Representative, Effective Date	Alternate Representative, Effective Date	Primary Representative, End Date	Alternate Representative, End Date
ARP	Charles D Holley, 12/27/2007	Phillip Sandino, 10/15/2007		
CAIRNOX	Charles D Holley, 12/27/2007	Phillip Sandino, 10/15/2007		
CAIROS	Charles D Holley, 12/27/2007	Phillip Sandino, 10/15/2007		
CAIRSO2	Charles D Holley, 12/27/2007	Phillip Sandino, 10/15/2007		
NBP	Charles D Holley, 12/27/2007	Phillip Sandino, 10/15/2007		

Scale Table Layout

Units

Unit ID	Program	Unit Classification	Operating Status	Unit Type	Source Category	NAICS Code	Commence Operation Date	Commence Operation Date Code	Comm. Commercial Operation Date	Commence Commercial Operation Date Code	Unit Monitoring Certification Begin Date
1	ARP	Phase 2	Operating	CT	Electric Utility	Fossil fuel electric power generation	05/31/2001	A	05/31/2001	A	05/31/2001
1	CAIRNOX	Affected	Operating	CT	Electric Utility	Fossil fuel electric power generation	05/31/2001	A	05/31/2001	A	01/01/2008
1	CAIROS	Affected	Operating	CT	Electric Utility	Fossil fuel electric power generation	05/31/2001	A	05/31/2001	A	05/01/2008
1	CAIRSO2	Affected	Operating	CT	Electric	Fossil fuel	05/31/2001	A	05/31/2001	A	01/01/2009

					Utility	electric power generation					
1	NBP	Affected	Operating	CT	Electric Utility	Fossil fuel electric power generation	05/31/2001	A	05/31/2001	A	05/30/2004
2	ARP	Phase 2	Operating	CT	Electric Utility	Fossil fuel electric power generation	05/23/2001	A	05/23/2001	A	05/23/2001
2	CAIRNOX	Affected	Operating	CT	Electric Utility	Fossil fuel electric power generation	05/23/2001	A	05/23/2001	A	01/01/2008
2	CAIROS	Affected	Operating	CT	Electric Utility	Fossil fuel electric power generation	05/23/2001	A	05/23/2001	A	05/01/2008
2	CAIRSO2	Affected	Operating	CT	Electric Utility	Fossil fuel electric power generation	05/23/2001	A	05/23/2001	A	01/01/2009
2	NBP	Affected	Operating	CT	Electric Utility	Fossil fuel electric power generation	05/23/2001	A	05/23/2001	A	05/30/2004
3	ARP	Phase 2	Future	CT	Electric Utility	Fossil fuel electric power generation	07/01/2008	P	07/01/2008	P	07/01/2008
3	CAIRNOX	Affected	Future	CT	Electric Utility	Fossil fuel electric power generation	07/01/2008	P	07/01/2008	P	07/01/2008
3	CAIROS	Affected	Future	CT	Electric Utility	Fossil fuel electric power generation	07/01/2008	P	07/01/2008	P	07/01/2008
3	CAIRSO2	Affected	Future	CT	Electric Utility	Fossil fuel electric power generation	07/01/2008	P	07/01/2008	P	01/01/2009
3	NBP	Affected	Future	CT	Electric	Fossil fuel	07/01/2008	P	07/01/2008	P	07/01/2008

					Utility	electric power generation					
4	ARP	Phase 2	Future	CT	Electric Utility	Fossil fuel electric power generation	07/01/2008	P	07/01/2008	P	07/01/2008
4	CAIRNOX	Affected	Future	CT	Electric Utility	Fossil fuel electric power generation	07/01/2008	P	07/01/2008	P	07/01/2008
4	CAIROS	Affected	Future	CT	Electric Utility	Fossil fuel electric power generation	07/01/2008	P	07/01/2008	P	07/01/2008
4	CAIRSO2	Affected	Future	CT	Electric Utility	Fossil fuel electric power generation	07/01/2008	P	07/01/2008	P	01/01/2009
4	NBP	Affected	Future	CT	Electric Utility	Fossil fuel electric power generation	07/01/2008	P	07/01/2008	P	07/01/2008
5	ARP	Phase 2	Future	CT	Electric Utility	Fossil fuel electric power generation	06/01/2009	P	06/01/2009	P	06/01/2009
5	CAIRNOX	Affected	Future	CT	Electric Utility	Fossil fuel electric power generation	06/01/2009	P	06/01/2009	P	06/01/2009
5	CAIROS	Affected	Future	CT	Electric Utility	Fossil fuel electric power generation	06/01/2009	P	06/01/2009	P	06/01/2009
5	CAIRSO2	Affected	Future	CT	Electric Utility	Fossil fuel electric power generation	06/01/2009	P	06/01/2009	P	06/01/2009
5	NBP	Affected	Future	CT	Electric Utility	Fossil fuel electric power generation	06/01/2009	P	06/01/2009	P	06/01/2009

Excel Table Export

Generator Information

Generator ID	Unit ID	ARP Nameplate Capacity	CAIR/CAMR Nameplate Capacity	Effective Date
3	3	192.1	192.1	01/08/2008
5	5	192.1	192.1	01/08/2008
2	2	178.5	178.5	06/04/2007
4	4	192.1	192.1	01/08/2008
1	1	178.5	178.5	06/04/2007

Basic Table Layout

Current Owners and Operators

Unit ID	Owner/Operator Company Name	Type	Effective Date	End Date
1	Dominion Generation	Operator	03/07/2003	
1	Virginia Electric & Power Company	Owner	03/07/2003	
2	Dominion Generation	Operator	03/07/2003	
2	Virginia Electric & Power Company	Owner	03/07/2003	
3	Dominion Generation	Operator	12/26/2007	
3	Virginia Electric & Power Company	Owner	12/26/2007	
4	Dominion Generation	Operator	12/26/2007	
4	Virginia Electric & Power Company	Owner	12/26/2007	
5	Dominion Generation	Operator	01/08/2008	
5	Virginia Electric & Power Company	Owner	01/08/2008	

Basic Table Layout