



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

PIEDMONT REGIONAL OFFICE

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Douglas W. Domenech
Secretary of Natural Resources

David K. Paylor
Director

Michael P. Murphy
Regional Director

March 21, 2013

Mr. Charles D. Holley
Vice President – F & H System Operations
Virginia Electric & Power Company
Dominion – Hopewell Power Station
5000 Dominion Boulevard
Glen Allen, Virginia 23060

Location: Hopewell / City
Registration No: PRO 51019-18
County-Plant Identification No: 670-00063

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. This permit incorporates provisions from the permit that was issued on May 23, 2012 and was later amended and superseded by the permit issued on November 26, 2012.

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 Resources Services Inc. 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.

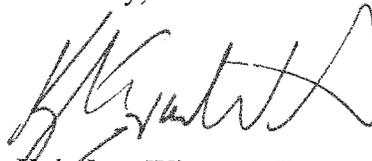
Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal to court by filing a Notice of Appeal with:

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

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 Mr Dick Stone, the Air Permit Writer at (804) 527-5088 or the Piedmont Regional Office at (804) 527 5020.

Sincerely,



Kyle Ivar Winter, P.E.
Deputy Regional Director

KIW/ROS/510190313.T5.sig.mod.

Attachments: Permit
 NSPS, Subpart Db
 NSPS, Subpart Dc
 MACT, Subpart ZZZZ
 Source Testing Report Format

cc: Director, OAPP (electronic file submission)
 Manager, Data Analysis (electronic file submission)
 Chief, Air Enforcement Branch (3AP13), U.S. EPA, Region III
 Manager/Inspector, Air Compliance



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Article 3 Federal Operating Permit

This permit amendment 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 5-140-1010 et seq., 9 VAC 5-140-2010 et seq., 9 VAC 5-140-3010 et seq. 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:

Permittee Name:	Virginia Electric & Power Company
Facility Name:	Hopewell Power Station
Facility Location:	107 Terminal Street Hopewell, Virginia
Registration Number:	51019
Permit Number:	PRO-51019

This permit includes the following programs:

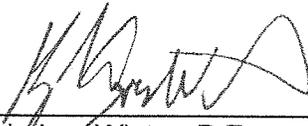
- Federally Enforceable Requirements - Clean Air Act (Sections I through XIII)
- State Only Enforceable Requirements (Section XIV)
- Federally Enforceable Requirements – Clean Air Act Interstate Rule, CAIR Requirements (Section XV)
- Federally Enforceable Requirements – Phase II Acid Rain Permit (Appendix A)

The permit application submitted for this source including the attached NO_x compliance plan and NO_x Averaging Plan, as corrected by the Commonwealth of Virginia Department of Environmental Quality has been attached to this document.

May 25, 2012
Effective Date

March 21, 2013
Amended Date

December 31, 2016
Expiration Date



Kyle Ivar Winter, P.E.
Deputy Regional Director

March 21, 2013
Signature Date

Table of Contents, pages 3 - 4
Permit Conditions, pages 5 - 66

**Virginia Electric & Power Company - Hopewell Power Station
Title V Operating Permit Table of Contents**

I.	FACILITY INFORMATION	5
II.	EMISSION UNITS	6
III.	FUEL BURNING EQUIPMENT REQUIREMENTS – PRIMARY BIOMASS BOILERS (EMISSION UNIT ID NOS. 001 AND 002)	12
	A. LIMITATIONS	15
	B. MONITORING	16
	C. REPORTING	23
	D. RECORDKEEPING	25
	E. TESTING	27
IV.	FUEL BURNING EQUIPMENT REQUIREMENTS – AUXILIARY BOILER A (EMISSION UNIT NO. 003)	29
	A. LIMITATIONS	31
	B. MONITORING	32
	C. RECORDKEEPING AND REPORTING	33
	D. TESTING	35
V.	FUEL BURNING EQUIPMENT REQUIREMENTS – AUXILIARY BOILER B (EMISSION UNIT NO. 005)	35
	A. LIMITATIONS	36
	B. MONITORING	37
	C. RECORDKEEPING	37
	D. TESTING	38
VI.	FUEL BURNING EQUIPMENT REQUIREMENTS – COMBINED PRIMARY AND AUXILIARY BOILERS (EMISSION UNIT NOS. 001, 002, 003, AND 005 COMBINED)	38
	A. LIMITATIONS	38
	B. MONITORING	39
	C. RECORDKEEPING	39
	D. TESTING	40
VII.	FUEL BURNING EQUIPMENT REQUIREMENTS – EMERGENCY DIESEL FEEDWATER PUMP (UNIT REF. NO. 007) AND EMERGENCY DIESEL FIREWATER PUMP (UNIT REF. NO. 009)	40
	A. LIMITATIONS	40
	B. MONITORING	41
	C. RECORDKEEPING	42
	D. TESTING	43
VIII.	PROCESS EQUIPMENT REQUIREMENTS - BED, FLYASH, LIME HANDLING, BIOMASS AND ASH STORAGE SYSTEMS (UNIT REF. NOS. 010, 012, 013, 014, 015, 016 AND 017)	43
	A. LIMITATIONS	44
	B. MONITORING	46
	C. RECORDKEEPING	47
	D. TESTING	47

IX.	SOLVENT METAL CLEANING OPERATIONS – NON-HALOGENATED COLD SOLVENT DEGREASER (EMISSION UNIT NO. 019)	48
	A. LIMITATIONS	48
	B. PERIODIC MONITORING AND RECORDKEEPING	49
X.	INSIGNIFICANT EMISSION UNITS	49
XI.	PERMIT SHIELD & INAPPLICABLE REQUIREMENTS	50
XII.	GENERAL CONDITIONS	52
	A. FEDERAL ENFORCEABILITY	52
	B. PERMIT EXPIRATION	52
	C. RECORDKEEPING AND REPORTING	53
	D. ANNUAL COMPLIANCE CERTIFICATION	53
	E. PERMIT DEVIATION REPORTING	54
	F. FAILURE/MALFUNCTION REPORTING	54
	G. SEVERABILITY	55
	H. DUTY TO COMPLY	55
	I. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE	55
	J. PERMIT MODIFICATION	55
	K. PROPERTY RIGHTS	55
	L. DUTY TO SUBMIT INFORMATION	55
	M. DUTY TO PAY PERMIT FEES	56
	N. FUGITIVE DUST EMISSION STANDARDS	56
	O. STARTUP, SHUTDOWN, AND MALFUNCTION	56
	P. ALTERNATIVE OPERATING SCENARIOS	57
	Q. INSPECTION AND ENTRY REQUIREMENTS	57
	R. REOPENING FOR CAUSE	57
	S. (9 VAC 5-80-490 L)PERMIT AVAILABILITY	58
	T. TRANSFER OF PERMITS	58
	U. MALFUNCTION AS AN AFFIRMATIVE DEFENSE	58
	V. PERMIT REVOCATION OR TERMINATION FOR CAUSE	59
	W. DUTY TO SUPPLEMENT OR CORRECT APPLICATION	59
	X. STRATOSPHERIC OZONE PROTECTION	59
	Y. ACCIDENTAL RELEASE PREVENTION	59
	Z. CHANGES TO PERMITS FOR EMISSIONS TRADING	59
	AA. EMISSIONS TRADING	59
XIII.	STATE-ONLY ENFORCEABLE REQUIREMENTS	60
XIV.	CLEAN AIR INTERSTATE RULE, CAIR REQUIREMENTS	60
	C. ADDITIONAL REQUIREMENTS, NOTES:	73
	APPENDIX A - PHASE II ACID RAIN PERMIT SUPERSEDES PERMIT ISSUED: AUGUST 19, 2005	73
	APPENDIX B CAIR PERMIT APPLICATION	75
	APPENDIX C NSPS SUBPART D_B	76
	APPENDIX D NSPS SUBPART D_C	77
	APPENDIX E MACT SUBPART ZZZZ	78

I. Facility Information

Permittee

Virginia Electric & Power Company
5000 Dominion Boulevard
Glen Allen, Virginia 23060

Responsible Official

David W. Faison
Dominion Hopewell Power Station Director

Acid Rain Designated Representative

Charles D. Holley
Vice President – F & H Systems Operations
USEPA ATS-AAR ID Number 602099

Facility

Hopewell Power Station
107 Terminal Street
Hopewell, Virginia 23860

Contact Person

Cathy C. Taylor
Director, Electric Environmental Services
(804) 273-2929

County Plant Identification Number: 51- 670-00063

ORIS Code: 10771

NATS Facility Identification Number: 010771000001

Facility Description: NAICS Code 221112 (SIC Code 4931) The Dominion Hopewell Power Station (HPS) is an electric generating facility that operates two primary biomass-fired spreader stoker Babcox and Wilcox (B & W) boilers each rated at 394 mmBTU/hr (maximum capacity) and associated fuel, ash and lime handling systems. Each primary boiler has the potential to operate 8,400 hours per year. Two package auxiliary boilers, one 73.43 mmBTU/hr distillate oil/natural gas boiler and one 90 mmBTU/hr natural gas boiler, are located at the station to provide steam to the host during times when the plant is not generating electricity.

II. Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled*	Applicable Permit Date
Fuel Burning Equipment							
001	001	One (1) B & W single drum, single pass stoker boiler that includes an overfire air (OFA) system to generate steam for process use and electricity generation (combusts biomass; startup – natural gas)	394 x 10 ⁶ BTU/hr firing biomass (maximum); 379 x 10 ⁶ BTU/hr firing biomass (nominal)	1) Selective Non-catalytic Reduction System (SNCR) Ammonia injection installed 1990; 2) Dry Lime Scrubber installed 1990; 3) Fabric Filter Baghouse installed 1990	1) 001/EC-1a; 2) 001/EC-1b; 3) 001/EC-1c;	1) NO _x (40% design control efficiency); 2) SO ₂ (75% design control efficiency); 3) PM, PM-10, PM-2.5 (99.9% design control efficiency)	PSD permit issued 05/23/2012 [^]

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled*	Applicable Permit Date
002	001	One (1) B & W single drum, single pass stoker boiler that includes an overfire air (OFA) system to generate steam for process use and electricity generation (combusts biomass; startup – natural gas)	394 x 10 ⁶ BTU/hr firing biomass (maximum); 379 x 10 ⁶ BTU/hr firing biomass (nominal)	1) Selective Non-catalytic Reduction System (SNCR) Ammonia injection installed 1990; 2) Dry Lime Scrubber installed 1990; 3) Fabric Filter Baghouse Installed 1990	1) 002/EC-2a; 2) 002/EC-2b; 3) 002/EC-2c;	1) NO _x (40% design control efficiency); 2) SO ₂ (75% design control efficiency); 3) PM, PM-10, PM-2.5 (99.9% design control efficiency)	PSD permit issued 5/23/2012^
003	003	One (1) auxiliary boiler A to generate steam for process use (combusts natural gas or distillate oil)	73.43 x 10 ⁶ BTU/hr firing natural gas or distillate oil (nominal)	1) Low NO _x Burners installed in 1990; and 2) Flue Gas Recirculation installed 1990	1) 003/EC-3a 1) 003/EC-3b	1) NO _x 2) NO _x	PSD permit issued 5/23/2012^

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
005	005	One (1) auxiliary boiler B to generate steam for process use (combusts natural gas)	90 x 10 ⁶ BTU/hr firing natural gas (nominal)	1) Low NOx Burners installed 1994; 2) Flue Gas Recirculation installed 1994	1) 005/ EC-5a; 2) 005/ EC-5b	1) NO _x (30% design control efficiency); 2) NO _x (60% design control efficiency)	PSD permit issued 5/23/2012 [^]
007	007	One (1) emergency diesel feedwater pump (combusts diesel fuel)	1.2 x 10 ⁶ BTU/hr; 126 BHP	None	N/A	N/A	PSD permit issued 5/23/2012 [^]
009	009	One (1) emergency diesel firewater pump (combusts diesel fuel)	0.68 x 10 ⁶ BTU/hr; 208 BHP	None	N/A	N/A	PSD permit issued 5/23/2012 [^]
Process Equipment – Bed and Flyash Handling System and Lime Handling System Storage							
010	N/A	One (1) Boiler Ash Conveyor Blower Systems A	28 tons/hr	Fabric Filter Baghouse	EC-10	PM, PM-10, PM 2.5 (99% design control efficiency)	PSD permit issued 5/23/2012 [^]
012	N/A	One (1) Boiler Ash Conveyor Blower Systems B	28 tons/hr	Fabric Filter Baghouse	EC-11	PM, PM-10, PM 2.5 (99% design control efficiency)	PSD permit issued 5/23/2012 [^]
013	N/A	One (1) Boiler Ash Conveyor Blower Systems C	28 tons/hr	Fabric Filter Baghouse	EC-12	PM, PM-10, PM 2.5 (99% design control efficiency)	PSD permit issued 5/23/2012 [^]

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled*	Applicable Permit Date
014	014	One (1) Ash Unloading Feeder	80 tons/hr tons/hr	Ash Conditioning System (water spray)	EC-14	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
015	015	One (1) Recycle Ash Bin	26.5 tons	Bin Vent Filter	EC-15	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
016	016	One (1) Ash Storage Silo	530 tons	Bin Vent Filter	EC-16	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
017	017	One (1) Pebble Lime Storage Silo	135 tons	Bin Vent Filter	EC-17	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
018	018	One (1) Biomass Storage Silo (former coal silo)	180 tons	Bin Vent Filter	EC-18	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
019	019	Parts Washer	Various	NA	NA	VOC	NA
Process Equipment – Biomass Handling System							
101 A	NA	Biomass Truck Tipper (1) to Receiving Hopper (1)	269 tons	Partial Enclosure	NA	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
101 B	NA	Biomass Truck Tipper (1) to Receiving Hopper (1)	269 tons	Partial Enclosure	NA	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled*	Applicable Permit Date
101 C	NA	One (1) Emergency Reclaimer	90 tons/hr	NA	NA	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
102	NA	One (1) Biomass Storage Pile	3 MMCF	NA	NA	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
103	NA	Biomass Stacker	269 tons/hr	NA	NA	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
104-1	NA	Truck Tipper Reclaimer # 1 to Conveyor A Transfer Point	269 tons/hr	Partial Enclosure	NA	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
104-2	NA	Truck Tipper Reclaimer # 2 to Conveyor A Transfer Point	269 tons/hr	Partial Enclosure	NA	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
104-3	NA	Conveyor B To Diverter Gate #2 Transfer Point	269 tons/hr	Partial Enclosure	NA	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
104-4	NA	Conveyor C to Stacker Transfer Point	269 tons/hr	Partial Enclosure	NA	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
104-5	NA	Reclaimer to Conveyor D Transfer Point	90 tons/hr	Partial Enclosure	NA	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled*	Applicable Permit Date
104-6	NA	Emergency Reclaimer To Conveyor D Transfer Point	90 tons/hr	Partial Enclosure	NA	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
104-7	NA	Diverter Gate # 2 To Conveyor D Transfer Point	90 tons/hr	Partial Enclosure	NA	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
104-10	NA	Conveyor D To Fuel Bunker Drag Chain Transfer Point	90 tons/hr	Partial Enclosure	NA	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
105	NA	Cooling Tower	NA	NA	NA	NA	PSD permit issued 5/23/2012 [^]
106	NA	Biomass Screen and Hogging System	269 tons/hr	Total Enclosure	NA	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]
107	NA	Ash Collection System	----	Water Spray	NA	PM, PM-10, PM 2.5	PSD permit issued 5/23/2012 [^]

*The Size/Rated capacities and PCD efficiencies are provided for informational purposes only, and are not applicable requirements.

[^] The PSD permit that was issued on 05/23/2012 was amended on 11/26/2012. There were no emission changes.

III. Fuel Burning Equipment Requirements – Primary Biomass Boilers (Emission Unit ID Nos. 001 and 002)

Table III - Emission Limitations for Each Primary Biomass Boiler, Unit Ref. Nos. 001 and 002			
Regulated Pollutant	Limitation/Standard		Applicable Requirement
	lb/hr	tons/yr	
NO _x (biomass-firing)	0.135 lb/million btu on a 30-day rolling average basis		Condition 35, PSD permit issued 5/23/2012 [^] ; 40 CFR 60.44b
NO _x (biomass-firing)	53.2 on a 30-day rolling avg. basis	206.4*	Condition 35, PSD permit issued 5/23/2012 [^]
NO _x (natural gas-firing)	0.140 lb/million btu on a 30-day rolling average basis		Condition 36, PSD permit issued 5/23/2012 [^] ; 40 CFR 60.44b
NO _x (natural gas-firing)	8.33 on a 30-day rolling avg. basis	--	Condition 36, PSD permit issued 5/23/2012 [^]
SO ₂ (biomass-firing)	0.0125 lb/million btu on a 30-day rolling average basis		Condition 35, PSD permit issued 5/23/2012 [^] ; 40 CFR 60.42b
SO ₂ (biomass-firing)	4.9 on a 30-day rolling avg. basis	19.1*	Condition 35, PSD permit issued 5/23/2012 [^]
SO ₂ (natural gas-firing)	0.009 lb/million btu on a 30-day rolling average basis		Condition 36, PSD permit issued 5/23/2012 [^] ; 40 CFR 60.42b
SO ₂ (natural gas-firing)	0.50 on a 30-day rolling avg. basis	--	Condition 36, PSD permit issued 5/23/2012 [^]
Total PM ₁₀ (biomass-firing)	--		Condition 35, PSD permit issued 5/23/2012 [^]
Total PM ₁₀ (biomass-firing)	11.08	46.55*	Condition 35, PSD permit issued 5/23/2012 [^]
PM ₁₀ (natural gas-firing)	0.013 lb/million btu		Condition 36, PSD permit issued 5/23/2012 [^] ; CFR 60.43b
PM ₁₀ (natural gas-firing)	0.80	--	Condition 36, PSD permit issued 5/23/2012 [^] , 40 CFR 60.43b

Table III - Emission Limitations for Each Primary Biomass Boiler, Unit Ref. Nos. 001 and 002			
Regulated Pollutant	Limitation/Standard		Applicable Requirement
	lb/hr	tons/yr	
Filterable PM10 (biomass-firing)	0.017 lb/million btu		Condition 35, PSD Permit Issued 5/23/2012 [^] , 40 CFR 60.43b
Filterable PM10 (biomass-firing)	6.7	--	Condition 35, PSD permit Issued 5/23/2012 [^] , 40 CFR 60.43b
Total PM2.5 (biomass-firing)	--		Condition 35, PSD permit issued 5/23/2012 [^]
Total PM2.5 (biomass-firing)	10.55	44.31*	Condition 35, PSD permit Issued 5/23/2012 [^] ,
Total PM (biomass-firing)			Condition 35, PSD permit issued 5/23/2012 [^] ; 40 CFR 60.43b
Total PM (biomass-firing)	12.16	51.08*	Condition 35, PSD permit issued 5/23/2012, 40 CFR 60.43b
PM (natural gas-firing)	0.013 lb/million btu		Condition 36, PSD permit issued 5/23/2012 [^] ; 40 CFR 60.43b
PM (natural gas-firing)	0.80	--	Condition 36, PSD permit issued 5/23/2012 [^] , 40 CFR 60.43b
Filterable PM (biomass-firing)	0.019 lb/million btu		Condition 35, PSD Permit Issued 5/23/2012 [^] , 40 CFR 60.43b
Filterable PM (biomass-firing)	7.5	--	Condition 35, PSD permit Issued 5/23/2012 [^] , 40 CFR 60.43b
CO (biomass-firing)	0.30 lb/million btu		Condition 35, PSD permit issued 5/23/2012 [^]

Table III - Emission Limitations for Each Primary Biomass Boiler, Unit Ref. Nos. 001 and 002			
Regulated Pollutant	Limitation/Standard		Applicable Requirement
	lb/hr	tons/yr	
CO (biomass-firing)	118.2	458.2*	Condition 35, PSD permit issued 5/23/2012 [^]
CO (natural gas-firing)	0.040 lb/million btu		Condition 36, PSD permit issued 5/23/2012 [^]
CO (natural gas-firing)	2.40	--	Condition 36, PSD permit issued 5/23/2012 [^]
VOC (biomass-firing)	0.030 lb/million btu		Condition 35, PSD permit issued 5/23/2012 [^]
VOC (biomass-firing)	5.21	21.89*	Condition 35, PSD permit issued 5/23/2012 [^]
VOC (natural gas-firing)	0.009 lb/million btu		Condition 36, PSD permit issued 5/23/2012
VOC (natural gas-firing)	0.50	--	Condition 36, PSD permit issued 5/23/2012 [^]
Fluorides, as HF (biomass-firing)	0.3	1.1*	Condition 35, PSD permit issued 5/23/2012 [^]
Sulfuric Acid Mist (biomass-firing)	0.90	3.78*	Condition 35, PSD permit issued 5/23/2012 [^]

(9 VAC 5-80-490, 40 CFR 60.42b, 40 CFR 60.43b and Conditions 35, and 36 PSD permit issued 5/23/2012)

* Annual emissions of NO_x, SO₂, PM-10, PM-2.5, PM, CO, VOC, Fluorides as HF, and Sulfuric Acid Mist shall be calculated monthly as the sum of each consecutive 12-month period. (9 VAC 5-50-280)

** Reference Methods 6 and 7 are the preferred alternative methods during periods of malfunction of the continuous emissions monitors (CEMs) for NO_x and SO₂. Unless otherwise specified, CEMs shall be utilized for monitoring these pollutants as specified in 40 CFR 60 Subpart Db.

[^] The PSD permit that was issued on 05/23/2012 was amended on 11/26/2012. There were no emission changes.

A. Limitations

1. This permit will supersede the permit issued on January 30, 2012 upon startup of the biomass handling system as described in the permit application. Upon the startup of the biomass handling system as described in the permit application, the permittee shall deactivate all coal handling equipment.
(9 VAC 5-80-490 B & C and Condition 3, PSD permit issued 5/23/2012, amended 11/26/2012)
2. Each B & W primary biomass boiler (Ref. Nos. 001, 002) shall not operate more than 8,400 hours per year, calculated monthly as the sum of each consecutive 12 month period.
(9 VAC 5-80-490 B & C and Condition 19, PSD permit issued 5/23/2012, amended 11/26/2012)
3. The maximum firing rate of each primary boiler shall not exceed 394 mmBTU per hour. The total heat input to the primary boilers combined shall not exceed 6,109,480 mmBTU/yr, calculated as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-490 B & C and Condition 20, PSD permit issued 5/23/2012, amended 11/26/2012)
4. Particulate emissions from the B & W primary biomass boilers (Ref. Nos. 001, 002) shall be controlled by an in-line multiple cyclone, a lime water injection spray dryer (dry flue gas desulfurization), and a fabric filter rated at 99.9 percent control efficiency. The control systems shall be provided with adequate access for inspection and shall be in operation when the B & W primary biomass boilers (Ref. Nos. 001, 002) are operating. The fabric filter may be by-passed during non-biomass fuel boiler start-ups and operations to alleviate potential moisture damage to the baghouse at low start-up temperatures. Bypass of the fabric filters shall not exceed 12 hours per start-up. Each fabric filter compartment shall be equipped with a device to continuously measure pressure drop.
(9 VAC 5-80-490 B & C, 40 CFR 60.43b and Condition 4, PSD Permit issued 5/23/2012, amended 11/26/2012)
5. Sulfur dioxide emissions from the B & W primary biomass boilers (Ref. Nos. 001, 002) shall be controlled by a lime-water injection spray dryer (a dry FGD system). The control system shall be provided with adequate access for inspection.
(9 VAC 5-80-490 B & C, 40, CFR 60.42b and Condition 16, PSD permit issued 5/23/2012, amended 11/26/2012)

6. The approved fuels for the B & W primary biomass boilers (Ref. Nos. 001, 002) are biomass and natural gas. Natural gas shall be fired during boiler startup and to provide supplemental steam for the host facility. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-490 B & C, and Condition 26, PSD permit issued 5/23/2012, amended 11/26/2012)
7. The biomass shall meet the following specifications: biomass means those residuals that are akin to traditional cellulosic biomass including forest-derived biomass (*e.g.*, green wood, forest thinning, clean and unadulterated bark, sawdust, trim, and tree harvesting residuals from logging and sawmill materials), wood collected from forest fire clearance activities, trees and clean wood found in disaster debris, and clean biomass from land clearing operations, each as specified in the definition of Clean Cellulosic Biomass in 40 CFR 241.2, excluding any wood which contains chemical treatments or has affixed thereto paint and/or finishing materials or paper or plastic laminates. Approved biomass is biomass that does not contain contaminants at concentrations not normally associated with virgin biomass materials.
(9 VAC 5-80-490 B & C and Condition 27, PSD permit issued 5/23/2012, amended 11/26/2012)
8. In order to protect the short-term National Ambient Air Quality Standard for SO₂, the maximum SO₂ emissions from each of the primary biomass boilers for any 180-minute (3-hr) period shall not exceed 0.162 lbs per million BTU.
(9 VAC 5-80-490 B & C and Condition 45, PSD permit issued 5/23/2012)
9. Visible emissions from common stack of the two primary biomass boilers and the 73.43 x 10⁶ btu/hr auxiliary boiler stack shall not exceed ten (10) percent opacity except during one six (6) minute period per hour which shall not exceed twenty (20) percent opacity.
(9 VAC 5-80-490 B & C, 40 CFR 60.43b and Condition 48, PSD permit issued 5/23/2012, amended 11/26/2012)
10. Visible emissions from all fabric filters (except those on the primary biomass boilers) shall not exceed five (5) percent opacity.
(9 VAC 5-80-490 B & C, 9 VAC 5-50-260, 9 VAC 5-50-280 9 VAC 5-80-1705 9 VAC 5-80-1985 E and Condition 50, PSD permit issued 5/23/2012, amended 11/26/2012)

B. Monitoring

1. Continuous emission monitors shall be installed to measure and record opacity and the concentration of SO₂, NO_x (at each boiler outlet) and CO₂ or O₂ emitted from the primary biomass boilers. Also, a device shall be installed to continuously measure and record the exhaust gas flow rate. They shall be maintained, located, and calibrated in accordance with approved procedures (reference to 40 CFR 60.13). A 30 day notification prior to the demonstration of the continuous monitoring system

performance and subsequent notifications are to be submitted to DEQ (Director, Piedmont Regional Office).

(9 VAC 5-80-490 B & C, 40 CFR 60.13, 40 CFR 60.46b, 40 CFR 60.48b and Condition 54, PSD permit issued 5/23/2012, amended 11/26/2012)

2. A NO_x continuous emission monitoring system shall be installed on each primary biomass boiler. The continuous monitoring data generated by the NO_x CEMS shall be used to determine continuous compliance with the 30 day average NO_x emission standards in the Title V Permit, Condition III, Table III. A separate 30 day NO_x rolling average shall be determined for the primary biomass boilers when firing natural gas and a separate 30 day NO_x rolling average shall be determined for the primary biomass boilers when firing biomass. Data from the NO_x CEMS shall be used to determine compliance with the emission standard on a 30 day rolling average. All of the CEM calculation, data reduction, record keeping, and reporting requirements of NSPS Subpart Db shall apply.
(9 VAC 5-80-490 B & C, 40 CFR 60.13, 40 CFR 60 Subpart Db and Condition 56, PSD permit issued 5/23/2012, amended 11/26/2012)
3. For the opacity monitors required by this permit, the continuous monitoring and quality assurance data may, at the discretion of the Board, be used as evidence of violation of the emission standards. All continuous monitors required by this permit are subject to such data capture requirements and/or quality assurance requirements as may be deemed appropriate by the Board (refer to 40 CFR 60.13 and Appendix B). For each required opacity monitor, quarterly reports of excess emissions and monitor downtime shall be submitted to DEQ (Director Piedmont Regional Office), in accordance with approved procedures (refer to 40 CFR 60.7 (c)).
(9 VAC 5-80-490 B & C, 40 CFR 60.13 and Condition 58, PSD permit issued 5/23/2012, amended 11/26/2012)
4. All continuous monitoring systems and monitoring devices, as may be applicable for your source type, shall be installed and operational prior to conducting performance tests under 9 VAC 5-50-30 and 9 VAC 5-60-30. Performance evaluations of the continuous monitoring system shall take place during the performance tests under 9 VAC 5-50-30 and 9 VAC 5-60-30 or within 30 days thereafter. DEQ (Director, Piedmont Regional Office) shall be furnished with two copies of the report of the performance evaluations within 60 days of the evaluation.
(9 VAC 5-80-490 E, 40 CFR 60.49b and Condition 59, PSD permit issued 5/23/2012, amended 11/26/2012)
5. Continuous Emission Monitoring Systems (CEMS), meeting the design specifications of 40 CFR Part 60, Appendix B Performance Specification 4A, shall be installed to measure and record the emissions of CO from each primary biomass boiler as lbs/mmBTU and lbs/hr. The CEMs shall be installed, calibrated, maintained, audited and operated in accordance with DEQ approved procedures which are equivalent to the requirements of 40 CFR 60.13 and Appendices B and F. Data shall be reduced to 30 day rolling averages per the procedures for NO_x contained in 40 CFR 60 Subpart Db. The monitor shall be used to demonstrate compliance with the 30-day rolling average CO emission standard (lb/mmBTU basis) as noted in the Title V permit, Condition III, Table III.

(9 VAC 5-80-490 E and Condition 60, PSD Permit issued 5/23/2012, amended 11/26/2012)

6. A flowmeter shall be used to measure the stack gas airflow from the common stack with the flow apportioned by steam flow rate for each primary biomass boiler utilizing the procedures for Part 75 apportionment. The stack gas flowmeter shall be installed, operated, and maintained in accordance with the provisions of 40 CFR 75 Appendices A and B, with the exception that the relative accuracy test audit (RATA) be performed at least once every four (4) consecutive calendar quarters. The permittee shall submit stack gas flowmeter reports as required by 40 CFR 75 Appendices A and B. The CO emissions (lb/hr basis) shall be calculated from data obtained from the CO continuous emissions monitoring system and stack gas flowmeter in accordance to the provisions of 40 CFR 75 Appendix F. These data shall be used to demonstrate compliance with the CO emission standard (lb/hr basis) as noted in the Title V Permit, Condition III, Table III.

(9 VAC 5-80-490 E, 9 VAC 5-50-40, 9 VAC 5050-410, 9 VAC 5-80-1705, 9 VAC 5-80-1985 E and Condition 61, PSD Permit issued 5/23/2012, amended 11/26/2012)

7. Performance evaluation of the CO continuous monitoring systems shall be conducted in accordance with 40 CFR 60, Appendix B, and shall take place within 180 days after the initial effective date of the CO 30-day rolling average limit. Two copies of the performance evaluations report shall be submitted to the Piedmont Regional Office within 45 days of the evaluation. The continuous monitoring systems shall be installed and operational prior to conducting initial performance evaluation. Verification of operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation and calibration of the device. A 30 day notification, prior to the demonstration of continuous monitoring system's performance, and subsequent notifications shall be submitted to the Piedmont Regional Office.

(9 VAC 5-80-490 E and Condition 62, PSD Permit issued 5/23/2012, amended 11/26/2012)

The following conditions: 8 – 16, have been included in this Title V permit to implement the requirements of the CAM regulations (40 CFR 64).

8. Compliance Assurance Monitoring (CAM) - The permittee shall measure opacity using continuous opacity monitoring system (COMS) to meet the requirements of CAM for PM and PM10. These units are subject to the federal New Source Performance Standard (NSPS) for electric utility steam generating units. The opacity monitoring required and the location of the monitors shall meet the requirements of 40CFR 60 Appendix B Performance Specification 1 (PS-1). Zero and span drift shall be checked daily and filter audits shall be performed in accordance with PS-1.

(9 VAC 5-80-490 and 40 CFR 64.3(b)(1))

9. Compliance Assurance Monitoring (CAM) - The permittee shall monitor, operate, calibrate and maintain the Continuous Opacity Monitoring devices as controls for particulate matter emissions from the Primary Biomass Boilers, Unit Reference Numbers 001 and 002 according to the following:

Table 1: Primary Boilers (Units 001 and 002) Compliance Assurance Monitoring Plan	
Description	Two Traveling Grate Stoker boilers fueled with biomass and/or Nat'l gas
Control Device	Baghouses
Applicable Requirement	9 VAC 5-80-1985 E, 9 VAC 5-50-280, 9 VAC 5-80-1705, 9 VAC 5-80-1180, and 9 VAC 5-50-260
Regulated Pollutant	PM, PM ₁₀ & PM _{2.5}
I. CAM Indicator	Opacity.
Measurement Approach	Continuous opacity monitor system (COMS).
Monitoring Frequency	Continuous
Justification	COMS satisfies applicable monitoring requirements and performance specifications as specified in 40 CFR 64.3, "Special criteria for the use of continuous emission, opacity or predictive monitoring systems".
II. Indicator Range	Continuous operation between 0% - 10% opacity per hour. Excursion is one six-minute period > 10% opacity.
III. Performance Criteria Data Representativeness	Location and installation of monitors is per 40 CFR 60, Appendix B, Performance Specification 1 (PS-1).
Verification of Operational Status	This provision of the CAM program applies to facilities that are proposing monitoring methods that are not otherwise required. Since the operation of the COMS is otherwise required, this provision is not applicable.
QA/QC Practices and Criteria	COMS was installed and evaluated in accordance with PS-1. Zero and span drift are checked daily and annual filter audits are performed in accordance with PS-1.
Data Collection Procedures	Data are collected by computerized data acquisition and handling system (DAHS). The system collects and retains all relevant opacity data.
Averaging period	Six-minute block basis.

Description	Two Spreader Stoker boilers fueled with wood and/or Nat'l gas
Control Device	Baghouses
Applicable Requirement	9 VAC 5-80-1985 E, 9 VAC 5-50-280, 9 VAC 5-80-1705, 9 VAC 5-80-1180, and 9 VAC 5-50-260
Regulated Pollutant	PM, PM ₁₀ & PM _{2.5}
I. CAM Indicator	Operational Status of Equipment
Measurement Approach	<p>Actions taken in the event an opacity excursion is observed:</p> <ul style="list-style-type: none"> • Initiate a cleaning cycle for each baghouse. • Monitor the opacity as the baghouses (which are dedicated to either Unit 1 or Unit 2) go through a cleaning cycle. The opacity will drop when the compartment with the problem or leaking bag goes off line to clean. • Once the problem compartment is identified, the compartment is isolated and the issue resolved (e.g., replacement of bags).
Monitoring Frequency	As needed.
Justification	These actions are supplemental to the primary indicator of opacity and are taken to determine which of the two units may be causing an opacity excursion.
II. Indicator Range	Varies; these are work practices.
III. Performance Criteria Data Representativeness	NA. COMS satisfy 40 CFR 64.3(b).
Verification of Operational Status	Verification procedures for operation in accordance with manufacturer's recommendations, at a minimum.
QA/QC Practices and Criteria	NA
Data Collection Procedures	Events and corrective actions are logged as needed.
Averaging period	NA

Description	Two Traveling Grate Stoker boilers fueled with biomass and/or Nat'l gas
Control Device	Lime-water injection spray dryer
Applicable Requirement	9 VAC 5-80-1985 E, 9 VAC 5-50-280, 9 VAC 5-80-1705, 9 VAC 5-80-1180, and 9 VAC 5-50-260
Regulated Pollutant	PM, PM ₁₀ & PM _{2.5}
I. CAM Indicator	Exhaust Temperature
Measurement Approach	Monitor exhaust gas temperature between scrubber and baghouse
Monitoring Frequency	Continuous
Justification	The spray dryer will cool the exhaust gas temperature from a typical value prior to the spray dryer of 400°F to approximately 300°F or less at the baghouse inlet.
II. Indicator Range	Exhaust gas temperature at the baghouse inlet (15 minute average) not to exceed value based on temperatures measured during stack testing that demonstrates compliance.
III. Performance Criteria	
Data Representativeness	Location and installation of temperature monitor at inlet duct to baghouse.
Verification of Operational Status	Verification procedures, including installation, calibration, and operation in accordance with manufacturer's recommendations, at a minimum.
QA/QC Practices and Criteria	Calibrate, maintain, and operate instrumentation using procedures that are based on the manufacturer's specifications, at a minimum.
Data Collection Procedures	Data are collected by computerized data acquisition and handling system connected to the plant distributed control system. The system collects and retains all relevant temperature data.
Averaging period	One minute data values.
Data Collection Procedures	Data are collected by computerized data acquisition and handling system (DAHS). The system collects and retains all relevant opacity data.
Averaging period	Six-minute block basis.

10. Compliance Assurance Monitoring (CAM) - The permittee shall conduct the monitoring and fulfill the other obligations specified in 40 CFR 64.7 through 40 CFR 64.9.
(9 VAC 5-80-490 E (Article 3 – Acid Rain) and 40 CFR 64.6 (c))
11. Compliance Assurance Monitoring (CAM) - At all times, the permittee shall maintain the monitoring equipment, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
(9 VAC 5-80-490 E (Article 3 – Acid Rain) and 40 CFR 64.7 (b))
12. Compliance Assurance Monitoring (CAM) - Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the Primary Biomass Boilers, Unit Reference Numbers 001 and/or 002 are operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of compliance assurance monitoring, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and

associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by inadequate maintenance or improper operation are not malfunctions.

(9 VAC 5-80-490 E (Article 3 – Acid Rain) and 40 CFR 64.7 (c))

13. Compliance Assurance Monitoring (CAM) - Upon detecting an excursion or exceedance, the permittee shall restore operation of the Primary Biomass Boilers, Unit Reference Numbers 001 and 002 (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup and shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator, designated condition, or below the applicable emission limitation or standard, as applicable.
(9 VAC 5-80-490 E (Article 3 – Acid Rain) and 40 CFR 64.7 (d)(1))
14. Compliance Assurance Monitoring (CAM) - Determination that acceptable procedures were used in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
(9 VAC 5-80-490 E (Article 3 – Acid Rain) and 40 CFR 64.7(d)(2))
15. Compliance Assurance Monitoring (CAM) - If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the Director, Piedmont Regional Office and, if necessary, submit a proposed modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
(9 VAC 5-80-490 E (Article 3 – Acid Rain) and 40 CFR 64.7(e))
16. Compliance Assurance Monitoring (CAM) - If the number of exceedances or excursions exceeds 5 percent duration of the operating time for the Primary Biomass Boilers, Unit Reference Numbers 001 and 002, for a semiannual reporting period, the permittee shall develop, implement and maintain a Quality Improvement Plan (QIP) in accordance with 40 CFR 64.8. If a QIP is required, the permittee shall have it available for inspection. The QIP initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the permittee shall modify the plan to include procedures for conducting one or more of the following, as appropriate:

- a. Improved preventative maintenance practices;
- b. Process operation changes;
- c. Appropriate improvements to control methods;
- d. Other steps appropriate to correct control performance; and
- e. More frequent or improved monitoring.

(9 VAC 5-80-490 E (Article 3 – Acid Rain) and 40 CFR 64.8(a) and (b))

C. Reporting

1. For sulfur dioxide and nitrogen oxides, the following information shall be included in the quarterly excess emission reports for each 24-hour period and shall be submitted to the Director, Piedmont Regional Office:
 - a. Calendar date.
 - b. The average sulfur dioxide and nitrogen oxide emission rates (ng/J or lb/million Btu) for each 30 successive boiler operating days, ending with the last 30-day period in the quarter; reasons for non-compliance with the emission standards; and, description of corrective actions taken.
 - c. Percent reduction of the potential combustion concentration of sulfur dioxide when the unit is burning coal for each 30 successive boiler operating days, ending with the last 30-day period in the quarter; reasons for non-compliance with the standard; and, description of corrective actions taken.
 - d. Identification of the boiler operating days for which pollutant or diluent data have not been obtained by an approved method for at least 18 hours of operation of the facility; justification for not obtaining sufficient data; and description of corrective actions taken.
 - e. Identification of the times when emissions data have been excluded from the calculation of average emission rates because of startup, shutdown, malfunction (NO_x only), emergency conditions (SO₂ only), or other reasons, and justification for excluding data for reasons other than startup, shutdown, malfunction, or emergency conditions.
 - f. Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.
 - g. Identification of times when hourly averages have been obtained based on manual sampling methods.
 - h. Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system.
 - i. Description of any modifications to the continuous monitoring system which could affect the ability of the continuous monitoring system to comply with Performance Specifications 2 or 3.

(9 VAC 5-80-490 F)

2. For each required opacity monitor, quarterly reports of excess emissions and monitor downtime shall be submitted to the Director, Piedmont Regional Office, in accordance with approved procedures (reference 40 CFR 60.7 (c)).
(9 VAC 5-80-490 F., Condition 58, PSD permit issued 5/23/2012, amended 11/26/2012)
3. Compliance Assurance Monitoring (CAM) Reporting - the permittee shall submit CAM reports as part of the Title V semi-annual monitoring reports required by General Condition C.3 of this permit to the Director Piedmont Regional Office. Such reports shall include at a minimum:
 - a. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - b. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
 - c. A description of the actions taken to implement a quality improvement plan (QIP) during the reporting period as specified in §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.
(9 VAC 5-80-490 F and 40 CFR 64.9(a))
4. Initial Notifications - The permittee shall furnish written notification to DEQ (Director, Piedmont Regional Office):
 - a. The actual date on which construction of the biomass material handling equipment commenced within 30 days after such date.
 - b. The actual date on which the modification of the B & W primary boilers (Ref. Nos. 1, 2) from coal to biomass commenced within 30 days after such date.
 - c. The anticipated start-up date of the primary biomass and auxiliary boilers postmarked not more than 60 days nor less than 30 days prior to such date.
 - d. The actual start-up date of each boiler within 15 days after such date.
 - e. The anticipated date of performance tests of the primary biomass boilers postmarked at least 30 days prior to such date.

Copies of the written notifications referenced in items a through c above shall be sent to:

Associate Director
Office of Enforcement and Compliance Assistance (3AP10)
U.S. Environmental Protection Agency
Region III

1650 Arch Street
Philadelphia, PA 19103-2029]
(9 VAC 5-80-490 and Condition 70, PSD permit issued 5/23/2012, amended
11/26/2012)

D. Recordkeeping

1. Hopewell Power Station shall maintain records of all material processed in the biomass material handling system (Ref. Nos. 101A, 101B) per year. These records shall be available on site for inspection by DEQ personnel and shall be kept on file for the most recent five (5) years.
(9 VAC 5-80-490 F and Condition 25, PSD permit issued 5/23/2012, amended 11/26/2012)
2. For each NO_x and SO₂ continuous emission monitor (CEM) for the primary biomass boilers (Unit Ref. Nos. 001 & 002), all of the CEM calculation, data reduction, recordkeeping, and reporting requirements of NSPS Subpart Db shall apply. All such records shall be available on site for inspection by DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-80-490 E & F and Conditions 56 and 57, PSD permit issued 5/23/2012, amended 11/26/2012)
3. The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Piedmont Regional Office. These records shall include, but are not limited to:
 - a. Continuous monitoring system calibrations and calibration checks, percent operating time, and excess emissions.
 - b. Results of all stack tests, visible emission evaluations and performance evaluations.
 - c. Monthly estimates of the mass of material processed by the ash unloading/truck loading system. The estimate shall be based upon the amount of biomass burned and/or the amount of lime sorbent used and/or a measurement of the amount of material unloaded. The assumptions and records used to estimate the emissions shall be documented and available on site for inspection by DEQ personnel. Annual estimates of material processed shall be calculated monthly as the sum of the material process for each consecutive 12 month period.
 - d. Any host steam agreement, excluding financial terms, shall be made available on site for review by the DEQ upon request.
 - e. The total annual heat input to the primary biomass boilers. The annual total shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly total for the preceding 11 months.
 - f. Records of the maximum firing rate of each primary biomass boiler.

- g. Throughput of biomass for the biomass handling system in tons/yr to the facility, calculated monthly as the sum of each consecutive 12 month period.
- h. Throughput of natural gas to each boiler, calculated monthly as the sum of each consecutive 12 month period.
- i. Throughput of distillate oil to each piece of equipment, calculated monthly as the sum of each consecutive 12 month period.
- j. Fuel oil certifications identifying the sulfur content of the distillate oil.
- k. Annual hours of operation for each primary biomass boiler, calculated monthly as the sum of each consecutive 12 month period.
- l. Operational records showing compliance with the Title V Permit, Condition VI.A.1.
- m. All records required by 40 CFR 60 Subpart Db.
- n. All fuel quality analyses in accordance with the Title V Permit, Condition III.D.5.
- o. All reports required by 40 CFR 60 Subpart Db for the primary biomass boiler including , but not limited to:
 - (i) Reports of excess emission in accordance with 40 CFR 60.49b(h), and
 - (ii) Reports containing the steam generating unit operating day information recorded in condition III.D.3.p.(ii).(40 CFR 60.49b(h) and 40 CFR 60.49b(i))
- p. Any additional information required by 40 CFR 60 Subpart D for the primary biomass boiler, including but not limited to:
 - (i) Records of opacity in accordance with 40 CFR 60.49b(f), and
 - (ii) Records required by 40 CFR 60.49b(g) for each steam generating unit operating day.(40 CFR 60.49b(f) and 40 CFR 60.49b(g))

These records shall be available for inspection by the DEQ and shall be current for the most recent three years.

The reporting period for the reports required under 40 CFR 60 Subpart Db is each 6 month period. Reports required by Conditions VI.A1 and III.D.5 may be submitted electronically in accordance with 40 CFR 60.49b(v)

(9 VAC 5-80-490 F, 9 VAC 5-50-50, 40 CFR 60.49b(h), 40 CFR 60.49b(i), 40 CFR 60.49b(v), and 40 CFR 60.49b(w) and Condition ,63, PSD permit issued 5/23/2012, amended 11/26/2012)

- 4. Compliance Assurance Monitoring (CAM) Recordkeeping - The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan (QIP) required pursuant to §64.8 and any activities undertaken to implement a quality improvement plan (QIP), and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).
- (9 VAC 5-80-490 and 40 CFR 64.9)

5. The permittee shall obtain the following fuel quality data:
 - a. An analysis of the biomass heat content as fired at least once per calendar week,
 - b. Results of all stack tests, visible emission evaluations and performance evaluations.
 - c. Monthly estimates of the mass of material processed by the ash unloading/truck loading system. The estimate shall be based upon the amount of biomass burned and/or the amount of lime sorbent used and/or a measurement of the amount of material unloaded. The assumptions and records used to estimate the emissions shall be documented and available on site for inspection by DEQ personnel. Annual estimates of material processed shall be calculated monthly as the sum of the material process for each consecutive 12 month period.
 - d. Any host steam agreement, excluding financial terms, shall be made available on site for review by the DEQ upon request.

Details of the sampling procedures shall be arranged with the Piedmont Regional Office. Records of fuel quality data shall be available on site for inspection by Department personnel and shall be kept current for the most recent five year period.

(9 VAC 5-80- 490 E & F and Condition 66, PSD permit issued 5/23/2012, amended 11/26/2012)

E. Testing

1. Initial performance tests shall be conducted for sulfur dioxide, oxides of nitrogen, volatile organic compounds, carbon monoxide sulfuric acid mist and fluorides, as HF from the two primary biomass boilers. All testing shall be conducted when firing maximum biomass. The tests shall be performed, and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of the permitted facility. Tests shall be conducted and reported and data reduced as set forth in 9 VAC 5-50-30 and 9 VAC 5-60-30, and the test methods and procedures contained in each applicable section or subpart listed in 9 VAC 5-50-410 and 9 VAC 5-60-70. The details of the tests are to be arranged with the Director, Piedmont Region. Two copies of the test results shall be submitted to the Director, Piedmont Region within 45 days after test completion and shall conform to the test report format enclosed with this permit. At the same time, opacity tests, in accordance with 40 CFR 60 Appendix A Method 9 shall also be conducted on the primary biomass boiler exhaust gases. The details of the visible emissions test shall be arranged with the Director, Piedmont Regional Office.
(9 VAC 5-80-490 E & F, 40 CFR 60.49b and Condition 64, PSD permit issued 5/23/2012, amended 11/26/2012)
2. For each primary boiler, four performance tests shall be conducted for each of the following pollutants: Filterable PM, Total PM, Filterable PM10, Total PM10, Total PM2.5. Concurrently with each performance test the fuel analyses in accordance with Condition 67 shall be obtained. The performance tests shall be conducted to determine compliance with the emission limits contained in the Title V Permit,

Condition III, Table III. The initial performances tests shall be performed, reported, and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event more than 180 days after start start-up of the permitted facility. Subsequent performance tests shall be performed, at least 75 but not more than 105 days after the directly preceding test. Tests shall be conducted and reported and data reduced as set forth in 9 VAC 5-50-30 and the test methods and procedures contained in each applicable section or subpart listed in 9 VAC 5-50-410 or 40CFR51, Appendix M as applicable. The details of the tests are to be arranged with the Piedmont Regional Office. The permittee shall submit a test protocol at least 30 days prior to the initial performance test. The protocol shall cover all performance tests for the respective pollutant. One copy of the initial performance test results shall be submitted to the Piedmont Regional Office within 180 days of startup or 45 days after completion of the test, whichever is earlier, and shall conform to the test report format enclosed with this permit. One copy of the test results shall be submitted to the Piedmont Regional Office within 45 days after completion of each subsequent performance test and shall conform to the test report format enclosed with this permit.

(9 VAC 5-80-490 E & F, 40 CFR 60.46b, 40 CFR 60.49b and Condition 65, PSD Permit issued 5/23/2012, amended 11/26/2012)

3. Concurrently with the initial performance tests required by the Title V Permit, Condition III.E.2, Visible Emission Evaluations (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9, shall also be conducted on the primary biomass boilers. Each test shall consist of 30 sets of 24 consecutive observations (at 15 second intervals) to yield a six minute average. The details of the tests are to be arranged with the Piedmont Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. The evaluation shall be performed, reported and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of the permitted facility. Should conditions prevent concurrent opacity observations, the Piedmont Regional Office shall be notified in writing, within seven days, and visible emissions testing shall be rescheduled within 30 days. Rescheduled testing shall be conducted under the same conditions (as possible) as the initial performance tests. One copy of the test result shall be submitted to the Piedmont Regional Office within 45 days after test completion and shall conform to the test report format enclosed with this permit.

(9 VAC 5-80-490 E & F, 40 CFR 60.46b and Condition 67, PSD permit issued 5/23/2012, amended 11/26/2012)

4. A continuous opacity monitoring system may be used to satisfy the visible emission evaluation requirement in lieu of 40 CFR, Part 60, Appendix A, Method 9. The reported test data shall include average of all six minute continuous periods within the test period and within the duration of any mass emission performance tests being conducted. It is the responsibility of the permittee to demonstrate that the monitoring system has met the requirements of the applicable performance evaluation, that the monitoring system has been properly maintained and operated, and that the resulting data has not been altered in any way. If monitoring system data indicates compliance for a period during which Method 9 data indicates non-compliance, the Method 9 data shall be used to determine compliance with the visible emission limit.

(9 VAC 5-80-490 E & F, 40 CFR 60.46b and Condition 68, PSD permit issued 5/23/2012, amended 11/26/2012)

5. The permitted facility shall be constructed so as to allow for emissions testing and monitoring upon reasonable notice at any time, using appropriate methods. This includes constructing the facility such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing stack or duct that is free from cyclonic flow. Test ports shall be provided at the appropriate locations.

(9 VAC 5-80-490 E & F and Condition 69, PSD permit issued 5/23/2012, amended 11/26/2012)

6. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate methods in accordance with procedures approved by the DEQ.

(9 VAC 5-80-490 E & F and 9 VAC 5-80-110)

IV. Fuel Burning Equipment Requirements – Auxiliary Boiler A (Emission Unit No. 003)

Regulated Pollutant	Limitation/Standard		Applicable Requirement
	lb/hr	tons/yr	
NO _x (distillate oil-firing)	0.1* lb/million btu		Condition 37 PSD permit issued 5/23/2012 [^]
NO _x (distillate oil-firing)	7.3*	-	Condition 37 PSD permit issued 5/23/2012 [^]
NO _x (natural gas-firing)	0.065* lb/million btu		Condition 37 PSD permit issued 5/23/2012 [^]
NO _x (natural gas-firing)	4.8*	-	Condition 37 PSD permit issued 5/23/2012 [^]
SO ₂ (distillate oil-firing)	0.31 lb/million btu		Condition 37 PSD permit issued 5/23/2012 [^] ; 40 CFR 60.42Dc(d)

Regulated Pollutant	Limitation/Standard		Applicable Requirement
	lb/hr	tons/yr	
SO ₂ (distillate oil-firing)	22.8	-	Condition 37 PSD permit issued 5/23/2012 [^]
PM10 (distillate oil-firing)	0.03 lb/million btu		Condition 37 PSD permit issued 5/23/2012 [^]
PM10 (distillate oil-firing)	2.2	-	Condition 37 PSD permit issued 5/23/2012 [^]
PM (distillate oil-firing)	0.04 lb/million btu		Condition 37 PSD permit issued 5/23/2012 [^]
PM (distillate oil-firing)	2.9	-	Condition 37 PSD permit issued 5/23/2012 [^]
CO (distillate oil-firing)	0.082 lb/million btu		Condition 37 PSD permit issued 5/23/2012 [^]
CO (distillate oil-firing)	6.0	-	Condition 37 PSD permit issued 5/23/2012 [^]
CO (natural gas-firing)	0.082 lb/million btu		Condition 37 PSD permit issued 5/23/2012 [^]
CO (natural gas-firing)	6.0	-	Condition 37 PSD permit issued 5/23/2012 [^]
VOC (distillate oil-firing)	0.041 lb/million btu		Condition 37 PSD permit issued 5/23/2012 [^]
VOC (distillate oil-firing)	3.0	-	Condition 37 PSD permit issued 5/23/2012 [^]
VOC (natural gas-firing)	0.041 lb/million btu		Condition 37 PSD permit issued 5/23/2012 [^]
VOC (natural gas-firing)	3.0	-	Condition 37 PSD permit issued 5/23/2012 [^]

*Based on high heat release rate.

(9 VAC 5-80-490 B & C and 9 VAC 5-50-260)

[^]The PSD permit that was issued on 05/23/2012 was amended on 11/26/2012. There were no emission changes.

A. Limitations

1. Particulate emissions from the 73.43 mmBTU/hr auxiliary boiler A (Unit Ref. No. 003) shall be controlled by good combustion practices.
(9 VAC 9-80-490 and Condition 5, PSD permit issued 5/23/2012, amended 11/26/2012)
2. Emissions from the 73.43 mmBTU/hr auxiliary boiler A (Unit Ref. No. 003) shall not exceed the limitations specified in Table IV.
(9 VAC 5-80-490 B & C and 40 CFR 60.42Dc(d))
3. Visible emissions from the common stack of the two primary biomass boilers (Unit Ref. Nos. 001, & 002) and the 73.43 mmBTU/hr auxiliary boiler A (Unit Ref. No. 003) shall not exceed ten (10) percent opacity except during one six (6) minute period per hour which shall not exceed twenty (20) percent opacity.
(9 VAC 5-80-490 B & C and Condition 48, PSD permit issued 1/30/2012, amended 11/26/2012 and 40 CFR 60.43Dc(c) and (d))
4. The approved fuels for the 73.43 mmBTU/hr auxiliary boiler A (Unit Ref. No. 003) are natural gas and distillate oil. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-490 B & C and Condition 29, PSD permit issued 5/23/2012, amended 11/26/2012)
5. The maximum sulfur content of the distillate fuel oil to be burned in Auxiliary Boiler A (Unit Ref. No. 003) shall not exceed 0.3 percent by weight per shipment. The permittee shall maintain records of all distillate fuel oil shipments purchased indicating the sulfur content per shipment. These records shall be available on site for inspection by DEQ personnel and shall be kept on file for the most current three (3) year period.
(9 VAC 5-80-490 B, C & F and Condition 31, PSD permit issued 5/23/2012, amended 11/26/2012 and 40 CFR 60.42 Dc(d), 40 CFR 60.42Dc(h)(1), 40 CFR 60.44Dc(h), and 40 CFR 60.48Dc(e), (f)(1))
6. The average sulfur content of the distillate fuel oil to be burned in the 73.43 mmBTU/hr auxiliary boiler A (Unit Ref. No. 003) shall not exceed 0.2 percent by weight. The permittee shall maintain records of all the fuel oil shipments purchased and the annual average sulfur content determined monthly. These records shall be available on site for inspection by DEQ personnel. They shall be kept on file for the most current three year period.
(9 VAC 5-80-490 B, C & F, Condition 32, PSD permit issued 5/23/2012, amended 11/26/2012 and 40 CFR 60.42Dc(d), 40 CFR 60.44Dc(g), 40 CFR 60.46Dc(d)(2), and 40 CFR 60.48Dc(e))
7. The maximum sulfur content of the distillate fuel oil to be burned in the 73.43 mmBTU/hr auxiliary boiler A (Unit Ref. No. 003) during start-up and shutdown of the primary biomass boilers (Unit Ref. Nos. 001 & 002) shall not exceed 0.2 percent by weight. The permittee shall maintain records of the fuel oil sulfur content used during periods of primary biomass boiler start-up and shutdown and these records shall be available on site for inspection by DEQ personnel. They shall be kept on file for the most current three year period.

- (9 VAC 5-80-490 B, C & F and Condition 33, PSD permit issued 5/23/2012, amended 11/26/2012 and 40 CFR 60.42Dc(d), 40 CFR 60.44Dc(g), 40 CFR 60.46Dc(d)(2), and 40 CFR 60.48Dc(e))
8. The the 73.43 mmBTU/hr auxiliary boiler A (Unit Ref. Nos. 003) stack height shall be constructed to a height of 200 feet or greater above ground level.
(9 VAC 5-80-490 and Condition 46, PSD permit issued 5/23/2012, amended 11/26/2012)
 9. The 73.43 mmBTU/hr auxiliary boiler A (Unit Ref. No. 003) shall be operated in compliance with Federal emissions requirements under 40 CFR 60, Subpart Dc.
(9 VAC 5-80-490 B, C & F and Condition 71, PSD permit issued 5/23/2012, amended 11/26/2012)

B. Monitoring

1. A continuous opacity monitor (COMs) shall be installed to measure and record the opacity from the 73.43 mmBTU/hr auxiliary boiler A (Unit Ref. No. 003) when burning distillate fuel oil. It shall be maintained and calibrated in accordance with approved procedures (40 CFR 60.13 and 40 CFR 60.47Dc). A 30-day notification prior to the demonstration of continuous monitoring system performance and subsequent notifications are to be submitted to the Director, Piedmont Regional Office. At least one time per week when burning natural gas, an observation of the presence of visible emissions shall be made. If visible emissions are observed, the permittee shall take timely corrective action such that the boiler resumes operation with no visible emissions or perform a visible emissions evaluation (VEE) in accordance with 40 CFR 60, Appendix A-4, Method 9 to assure visible emissions from the boiler stack do not exceed ten percent (10%) opacity. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed 10 percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the boiler resumes operation with visible emissions of 10 percent or less. The permittee shall maintain a boiler observation log to demonstrate compliance. The log shall include the date and the time of the observations, whether or not there were visible emissions, any VEE recordings, and any necessary corrective action.
(9 VAC 5-80-490 E & F, Condition 55, PSD permit issued 5/23/2012, amended 11/26/2012 and 40 CFR 60.47Dc(a))
2. For the opacity monitor for Auxiliary Boiler A (Unit Ref. No. 003), the continuous opacity and quality assurance data may be used as evidence of violation of the opacity standards set forth in Specific Condition IV. A. 3. of this permit. All other continuous monitors required by this permit are subject to such data capture requirements and/or quality assurance requirements as may be deemed appropriate (40 CFR 60.13 and 40 CFR 60.47Dc). For each required opacity monitor, quarterly reports of excess emissions and monitor downtime shall be submitted to the Director, Piedmont Regional Office, in accordance with approved procedures (40 CFR 60.7 (c)).
(9 VAC 5-80-490 E & F Condition 58, PSD permit issued 5/23/2012, amended 11/26/2012 and 40 CFR 60.47Dc(b))

3. The permittee shall calculate emissions of NO_x, SO₂, PM-10, PM, CO, and VOC in lbs/hr and lbs/mmBTU daily using appropriate pollutant-specific emission factors (F-factors or AP-42), hourly records of boiler heat input, and hourly throughput of natural gas and distillate fuel oil to demonstrate compliance with the emission limitations set forth in Table IV. The permittee shall calculate lb/mmBTU SO₂ emissions in accordance with approved procedures outlined in 40 CFR 60.44Dc(d) (9 VAC 5-80-490 E & F and 40 CFR 60.44Dc(d))
4. Compliance with the lb/mmBtu SO₂ emission limitations set forth in Table IV shall be demonstrated by compliance with the SO₂ emission monitoring procedures outlined in 40 CFR 60.46Dc(d) or (e). If the permittee elects to follow the compliance procedures of 40 CFR 60.46Dc(e), the permittee shall obtain fuel supplier certifications as provided in 40 CFR Dc 60.48Dc(f).
(9 VAC 5-80-490 E & F and 40 CFR 60.46Dc and 60.48Dc)
5. In addition, upon implementation of distillate fuel oil firing capability, performance tests must be performed in accordance with 40 CFR 60 Subparts A and Dc within 60 days of reaching maximum oil-firing capability but no later than 180 days after initial implementation of oil-firing capability. All sampling analyses exceeding 0.2 percent sulfur by weight and any required performance test results shall be submitted to the Director, Piedmont Regional Office.
(9 VAC 5-80-490 E, Condition 32, PSD permit issued 5/23/2012, amended 11/26/2012 and 40 CFR 60 Subpart Dc)

C. Recordkeeping and Reporting

1. The permittee shall maintain records of the maximum sulfur content of all distillate fuel oil shipments purchased indicating the maximum sulfur content per shipment. These records shall be available on site for inspection by DEQ personnel and shall be kept on file for the most current three (3) year period.
(9 VAC 5-80-490 F, Condition 31, PSD permit issued 5/23/2012, amended 11/26/2012 and 40 CFR 60.42Dc(h)(1))
2. The permittee shall maintain records of the annual average sulfur content of all distillate fuel oil consumed by the 73.43 mmBTU/hr auxiliary boiler A (Unit Ref. No. 003), calculated monthly as the sum of each consecutive 12-month period. These records shall be available on site for inspection by DEQ personnel and shall be kept on file for the most current three (3) year period.
(9 VAC 5-80-490 F, Condition 32, PSD permit issued 5/23/2012, , amended 11/26/2012, 40 CFR 60.44Dc(g), 40 CFR 60.46Dc(d)(2), and 40 CFR 60.48Dc(e))
3. The permittee shall maintain records of the maximum sulfur content of all distillate fuel oil consumed by the 73.43 mmBTU/hr auxiliary boiler A (Unit Ref. No. 003) during start-up and shutdown of the primary biomass boilers (Unit Ref. Nos. 001 & 002). These records shall be available on site for inspection by DEQ personnel and shall be kept on file for the most current three (3) year period.
(9 VAC 5-80-490 F, Condition 33, PSD permit issued 5/23/2012, , amended 11/26/2012, 40 CFR 60.44Dc(g), 40 CFR 60.46Dc(d)(2), and 40 CFR 60.48Dc(e))

4. The results of any sampling analyses of distillate fuel oil performed in accordance with Condition IV. A.7 of this document which exceed 0.2 percent sulfur by weight and any performance test results in accordance with Condition IV.A.7 of this document shall be submitted to the Director, Piedmont Regional Office.
(9 VAC 5-80-490 F; Condition 33, PSD permit issued 5/23/2012, amended 11/26/2012)
5. For each required opacity monitor, quarterly reports of excess emissions and monitor downtime shall be submitted to the Director, Piedmont Regional Office, in accordance with approved procedures (reference 40 CFR 60.7 (c)).
(9 VAC 5-80-490 F; Condition 55, PSD permit issued 5/23/2012, amended 11/26/2012)
6. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. These records shall include, but are not limited to:
 - a. Process throughputs and daily hours of concurrent operation of the auxiliary boilers (Unit Ref. Nos. 003 and 005) with the primary boilers (Unit Ref. Nos. 001 and 002) calculated hourly as the sum of each consecutive 24-hour period.
 - b. All fuel supplier certifications. Vendor receipts indicating fuel oil percent sulfur per shipment shall be considered certifications.
 - c. All emission calculations demonstrating compliance with the emission limitations set forth in Table IV. Such records shall include all pollutant-specific emission factors (F-factors or AP-42) and all assumptions used in the calculations.
 - d. All continuous opacity monitor records and VEE records.
 - e. All records as specified in 40 CFR 60.48Dc(d), (e)(1) through (11), (f), (g), and (i) including daily records of the amounts of each fuel combusted during each day.

These records shall be available on site for inspection by DEQ and shall be current for the most recent five years.
(9 VAC 5-80-490 F, Conditions 24, 63, PSD permit issued 5/23/2012; amended 11/26/2012 40 CFR 60.48Dc
7. Unless specified otherwise by the conditions of this permit, the permittee shall comply with the recordkeeping and reporting provisions of 40 CFR 60 Subpart A for Unit Ref. Nos. 001, 002, 003, and 005. The permittee shall maintain on-site records of all applicable provisions of 40 CFR 60 Subpart A which have been met. Such records shall be made readily available for inspection.
(9 VAC 5-80-490 F; 40 CFR 60.7(a) through (h), 40 CFR 60.8(a) through (f), 40 CFR 60.11(a) through (g), 40 CFR 60.12, 40 CFR 60.13(a) through (h), and 40 CFR 60.19)

D. Testing

1. The permitted facility shall be constructed so as 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 5-80-490 E & F)

2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate methods in accordance with procedures approved by the DEQ.

(9 VAC 5-80-490)

V. Fuel Burning Equipment Requirements – Auxiliary Boiler B (Emission Unit No. 005)

Regulated Pollutant	Limitation/Standard		Applicable Requirement
	Lb/hr	tons/yr	
NO _x	0.05 lb/million btu		Condition 38, PSD permit issued 5/23/2012 [^]
NO _x	4.5	-	Condition 38, PSD permit issued 5/23/2012 [^]
PM ₁₀	0.0053 lb/million btu		Condition 38, PSD permit issued 5/23/2012 [^]
PM ₁₀	0.5	-	Condition 38, PSD permit issued 5/23/2012 [^]
PM	0.0053 lb/million btu		Condition 38, PSD permit issued 5/23/2012 [^]
PM	0.5	-	Condition 38, PSD permit issued 5/23/2012 [^]
CO	0.082* lb/million btu		Condition 38, PSD permit issued 5/23/2012 [^]
CO	7.4	-	Condition 38, PSD permit issued 5/23/2012 [^]
VOC	0.0082 lb/million btu		Condition 38, PSD permit issued 5/23/2012 [^]
VOC	0.8	-	Condition 38, PSD permit issued 5/23/2012 [^]

(9 VAC 5-80-490 B & C)

*@ 15% excess air.

[^]The PSD permit that was issued on 05/23/2012 was amended on 11/26/2012. There were no emission changes.

A. Limitations

1. Particulate emissions from the 90 mmBTU/hr auxiliary boiler B (Unit Ref. No. 005) shall be controlled by good combustion practices.
(9 VAC 5-80-490 B & C; and Condition 5, PSD permit issued 5/23/2012, amended 11/26/2012)
2. Emissions from the 90 mmBTU/hr auxiliary boiler B (Unit Ref. No. 005) shall not exceed the limitations specified in Table V.
(9 VAC 5-80-490 B & C)
3. Nitrogen oxide emissions from the 90 mmBTU/hr auxiliary boiler B (Unit Ref. No. 005) shall be controlled by the use of a low nitrogen dioxide burner and flue gas recirculation.
(9 VAC 5-80-490 B & C and Condition 18, PSD permit issued 5/23/2012, amended 11/26/2012)
4. The 90 mmBTU/hr auxiliary boiler B (Unit Ref. No. 005) shall consume no more than 917.2×10^6 cubic feet of natural gas per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-490 B & C, and Condition 21, PSD permit issued 5/23/2012, amended 11/26/2012)
5. The approved fuel for the 90 mmBTU/hr auxiliary boiler B (Unit Ref. No. 005) is natural gas. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-490 B & C and Condition 28, PSD permit issued 5/23/2012, amended 11/26/2012)
6. The 90 mmBTU/hr auxiliary boiler B (Unit Ref. No. 005) stack height shall be constructed to a height of 200 feet or greater above ground level.
(9 VAC 5-80-490 B & C and Condition 46, PSD permit issued 5/23/2012, amended 11/26/2012)
7. Visible emissions from the 90.0×10^6 Btu/hr auxiliary boiler stack (Unit Ref. No. 005) shall not exceed ten (10) percent opacity except during one six (6) minute period in any one hour in which visible emissions shall not exceed twenty (20) percent opacity. This condition applies at all times except during startup, shutdown, and malfunction. Visible emission evaluations shall be conducted on the boiler stack. The details of the test shall be arranged with the Director, Piedmont Regional office. The permittee shall submit a test protocol at least thirty (30) days prior to testing.
(9 VAC 5-80-490 B & C and Condition 49, PSD permit issued 5/23/2012, amended 11/26/2012)
8. The 90.0×10^6 Btu/hr auxiliary boiler stack (Unit Ref. No. 005) shall be operated in compliance with Federal emissions requirements under 40 CFR 60, Subpart Dc.
(9 VAC 5-80-490 B & C and Condition 71, PSD permit issued 5/23/2012, amended 11/26/2012)

B. Monitoring

1. The permittee shall calculate emissions of NO_x, PM-10, PM, CO, and VOC in lbs/hour and lbs/mmBtu daily using appropriate pollutant-specific emission factors (F-factors or AP-42), hourly records of boiler heat input, and hourly throughput of natural gas to demonstrate compliance with the emission limitations set forth in Table V.
(9 VAC 5-80-490 E)
2. At least one time per week while operating, an observation of the presence of visible emissions from the stack of Auxiliary Boiler B (Unit Ref. No. 005) shall be made. If visible emissions are observed, the permittee shall take timely corrective action such that the boiler resumes operation with no visible emissions or perform a visible emissions evaluation (VEE) in accordance with 40 CFR 60, Appendix A-4, Method 9 to assure visible emissions from the boiler stack do not exceed ten percent (10%) opacity. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed 10 percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the boiler resumes operation with visible emissions of 10 percent or less. The permittee shall maintain a boiler observation log to demonstrate compliance. The log shall include the date and the time of the observations, whether or not there were visible emissions, any VEE recordings, and any necessary corrective action.
(9 VAC 5-80-490 E)

C. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. These records shall include, but are not limited to:
 - a. Process throughputs and daily hours of concurrent operation of the auxiliary boilers (Unit Ref. Nos. 003 and 005) with the primary biomass boilers (Unit Ref. Nos. 001 and 002) calculated hourly as the sum of each consecutive 24-hour period.
 - b. All emission calculations demonstrating compliance with the emission limitations set forth in Table V. Such records shall include all pollutant-specific emission factors (F-factors or AP-42) and all assumptions used in the calculations.
 - c. All records of weekly opacity observations.
 - d. Annual natural gas throughput in million cubic feet per year calculated monthly as the sum of each consecutive 12-month period.

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

(9 VAC 5-80-490 F and Conditions 24, 63 of PSD permit issued 5/23/2012, amended 11/26/2012)

D. Testing

1. The permitted facility shall be constructed so as 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 5-80-490 E & F)
2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate methods in accordance with procedures approved by the DEQ.
(9 VAC 5-80-490)

VI. Fuel Burning Equipment Requirements – Combined Primary and Auxiliary Boilers (Emission Unit Nos. 001, 002, 003, and 005 combined)

Regulated Pollutant	Limitation/Standard		Applicable Requirement
	lb/hr	tons/yr	
NO _x	-	413.7*	Condition 39, PSD permit issued 5/23/2012 [^]
SO ₂	-	42.3*	Condition 39, PSD permit issued 5/23/2012 [^]
PM ₁₀	-	93.5*	Condition 39, PSD permit issued 5/23/2012 [^]
PM	-	102.7*	Condition 39, PSD permit issued 5/23/2012 [^]
CO	-	917.8*	Condition 39, PSD permit issued 5/23/2012 [^]
VOC	-	44.3*	Condition 39, PSD permit issued 5/23/2012 [^]

These limitation are based on the primary biomass boilers operating at 8,400 hours per year and the auxiliary boilers combined operating at 360 hour per year.

*Annual emission of NO_x, SO₂, PM-10, PM, CO, and VOC shall be calculated monthly as the sum of each consecutive 12-month period.

[^]The PSD permit that was issued on 05/23/2012 was amended on 11/26/2012. There were no emission changes.

(9 VAC 5-80-490 B & C)

A. Limitations

1. The auxiliary boilers (Unit Ref. Nos. 003 & 005) and the primary biomass boilers (Unit Ref. Nos. 001 & 002) shall not be operated concurrently, except during start-up and shutdown, and then for no more than 11 hours over any consecutive

24-hour period, unless both primary biomass boilers (Unit Ref. Nos. 001 & 002) are operating at 50 percent capacity or less.

(9 VAC 5-80-490 B & C and Condition 24, PSD permit issued 5/23/2012, amended 11/26/2012)

2. Except as specified in this permit, the facility is to be operated in compliance with Federal requirements under 40 CFR 63, Subpart DDDDD. 40 CFR 63 Subpart DDDDD is applicable to the facility, unless the permittee obtains federally enforceable limits on its facility-wide emissions of hazardous air pollutants (HAPs) to below major-source thresholds prior to the first substantive compliance date.
(9 VAC 5-80-490 B & C, 40 CFR 63 Subpart A, and 40 CFR 63.7490 (a))

B. Monitoring

1. Compliance with the tons/year particulate (PM-10 and PM), CO, and VOC emission limits in Table VI shall be demonstrated by the use of pollutant-specific emission factors (F-factors or AP-42) and records of monthly fuel throughput for the primary and auxiliary boilers. Compliance with the tons/year SO₂ and NO_x emission limits for the auxiliary boilers shall be demonstrated by the use of pollutant-specific emission factors (F-factors or AP-42) and records of monthly fuel throughput for the auxiliary boilers. The permittee shall calculate annual emissions monthly as the sum of each consecutive 12-month period. The primary boiler contribution to the combined tons/year NO_x and SO₂ emission limits in Table VI shall be demonstrated by the use of the primary boiler NO_x and SO₂ CEMS data.
(VAC 5-80-490 E & F)

C. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Piedmont Regional Office. These records shall include, but are not limited to:
 - a. Annual fuel throughput for each primary and auxiliary boiler calculated monthly as the sum of each consecutive 12-month period.
 - b. Annual combined emissions from the primary and auxiliary boilers (Unit Ref. Nos. 001, 002, 003, and 005) demonstrating compliance with the limitations in Table VI calculated monthly as the sum of each consecutive 12-month period.

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

(9 VAC 5-50-50 and 9 VAC 5-80-110 and 9 VAC 5-80-490 F)

D. Testing

1. The permitted facility shall be constructed so as 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 5-80-490 E & F)
2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate methods in accordance with procedures approved by the DEQ.
 (9 VAC 5-80-490)

VII. Fuel Burning Equipment Requirements – Emergency Diesel Feedwater Pump (Unit Ref. No. 007) and Emergency Diesel Firewater Pump (Unit Ref. No. 009)

Table VII Emission Limitations for Emergency Diesel Feedwater Pump (Unit Ref. No. 007)			
Regulated Pollutant	Limitation/Standard		Applicable Requirement
	lb/hr	tons/yr	
NO _x	5.4	0.5*	Condition 40, PSD permit issued 5/23/2012 [^]

*Annual emissions of NO_x shall be calculated monthly as the sum of each consecutive 12-month period.

[^]The PSD permit that was issued on 05/23/2012 was amended on 11/26/2012. There were no emission changes.

(9 VAC 5-80-490 B & C and Condition 40 of PSD permit issued 5/23/2012, amended 11/26/2012)

A. Limitations

1. Emissions from the 1.2 mmBTU/hr emergency diesel feed water pump (Unit Ref. No. 007) shall not exceed the limitations in Table VII.
 (9 VAC 5-80-490 B & C)
2. The 1.2 mmBTU/hr emergency diesel feed water pump (Unit Ref. No. 007) shall consume no more than 1,044 gallons of distillate oil per year calculated monthly as the sum of each consecutive 12-month period.
 (9 VAC 5-80-490 B & C and Condition 22, PSD permit issued 5/23/2012, amended 11/26/2012)
3. The 0.68 mmBTU/hr fire water diesel pump (Unit Ref. No. 009) shall consume no more than 580 gallons of distillate oil per year calculated monthly as the sum of each consecutive 12-month period.
 (9 VAC 5-80-490 B & C and Condition 23, PSD permit issued 5/23/2012, amended 11/26/2012)

4. The approved fuel for the 1.2 mmBTU/hr emergency diesel feed water pump (Unit Ref. No. 007), and the 0.68 mmBTU/hr fire water diesel pump (Unit Ref. No. 009) is distillate oil. Distillate oil is defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 of the American Society for Testing and Materials. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-490 B & C and Condition 30, PSD permit issued 5/23/2012, amended 11/26/2012)
5. The maximum sulfur content of the distillate fuel oil to be burned in the emergency diesel feed water pump (Unit Ref. No. 007) and the emergency diesel firewater pump (Unit Ref. No. 009) shall not exceed 0.3 percent by weight per shipment. The permittee shall maintain records of all distillate fuel oil shipments purchased indicating the sulfur content per shipment. These records shall be available on site for inspection by DEQ personnel and shall be kept on file for the most recent five (5) years.
(9 VAC 5-80-490 B & C and Condition 31, PSD permit issued 5/23/2012, amended 11/26/2012)
6. Visible emissions from the operation of the 1.2 mmBTU/hr emergency diesel feed water pump (Unit Ref. No. 007) and the 0.68 mmBTU/hr fire water diesel pump (Unit Ref. No. 009) shall not exceed ten (10) percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed twenty (20) percent opacity.
(9 VAC 5-80-490 B & C and Condition 51, PSD permit issued 5/23/2012, amended 11/26/2012)
7. Except where this permit is more restrictive than the applicable requirement, the 1.2 mmBTU/hr emergency diesel feed water pump (Unit ID 007) and the 0.68 mmBTU/hr fire water diesel pump (Unit ID 009) shall be operated in compliance with the MACT rules of 40 CFR Part 63 Subpart ZZZZ.
(9 VAC 5-80-490 B & C, 40 CFR 63.6595, 40 CFR 63.6603, 40 CFR 63.6612, 40 CFR 63.6625, 40 CFR 63.6640, 40 CFR 63.6645, 40 CFR 63.6650, 40 CFR 63.6655, and 40 CFR 63.6665)

B. Monitoring

1. Emissions from the 1.2 mmBTU/hr emergency diesel feed water pump (Unit Ref. No. 007) shall not exceed the limitations specified in Tables VII. The permittee shall calculate annual NO_x emissions for this unit monthly as the sum of each consecutive 12-month period using monthly fuel throughput and pollutant-specific AP-42 emission factors (F-factors or AP-42) or other appropriate unit-specific factor (manufacturer specifications). In lieu of such calculations, the permittee may elect to make a one-time demonstration of the correlation between monthly permitted fuel throughput of the units and annual emissions. In such case, compliance with the annual fuel throughput limitations for Unit Ref. No. 007 shall be deemed sufficient to demonstrate compliance with the annual NO_x limitation set forth in Tables VII. The permittee shall make a one-time demonstration of maximum hourly NO_x emissions from the 1.2 mmBTU/hr emergency diesel feed water pump (Unit Ref. No. 007) using manufacturer specifications for maximum heat input (or power output) and appropriate AP-42 emission factors or manufacturer test data. The permittee shall

maintain a record of this one-time demonstration of maximum hourly NO_x emissions on-site for the life of the unit.

(VAC 5-80-490 E & F)

2. At least one time per month that the units operate, an observation of the presence of visible emissions from the stacks of Unit Ref. Nos. 007 and 009 shall be made. If visible emissions are observed, the permittee shall take timely corrective action such that the units resume operation with no visible emissions or perform a visible emissions evaluation (VEE) in accordance with 40 CFR 60, Appendix A-4, Method 9 to assure visible emissions from the units do not exceed ten percent (10%) opacity. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed 10 percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the units resume operation with visible emissions of 10 percent or less. The permittee shall maintain an observation log to demonstrate compliance. The log shall include the date and the time of the observations, whether or not there were visible emissions, any VEE recordings, and any necessary corrective action.

(VAC 5-80-490 E & F and Condition 51, PSD issued 5/23/2012, amended 11/26/2012)

C. Recordkeeping

1. The permittee shall maintain records of the maximum sulfur content of all distillate fuel oil shipments purchased indicating the maximum sulfur content per shipment. These records shall be available on site for inspection by DEQ personnel and shall be kept on file for the most recent five (5) years.
(9 VAC 5-80-490 F and Condition 31 and 63, PSD permit issued 5/23/2012, amended 11/26/2012)
2. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. These records shall include, but are not limited to:
 - a. Annual fuel throughput in gallons for each of the units (Unit Ref. Nos. 007 and 009) calculated monthly as the sum of each consecutive 12-month period.
 - b. All fuel supplier certifications. Vendor receipts containing the required information pertaining to low sulfur oil shall be considered certifications for the purposes of this permit.
 - c. A one-time calculation of maximum hourly NO_x emissions from the emergency diesel feedwater pump (Unit Ref. No. 007) to be maintained on-site and readily accessible for inspection for the life of this unit.
 - d. Calculations of annual NO_x emissions from the emergency diesel feedwater pump (Unit Ref. No. 007) calculated monthly as the sum of each consecutive 12-month period. In lieu of monthly calculations, the permittee may elect to maintain records of a one-time demonstration of maximum annual emissions for each unit based on maximum annual permitted fuel throughput. Such records shall be maintained on-site and readily accessible for inspection for the life of each unit.
 - e. Any visible emissions evaluations.

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

(VAC 5-80-490 F and Condition 63, PSD permit issued 5/23/2012, amended 11/26/2012)

D. Testing

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate methods in accordance with procedures approved by the DEQ.

(9 VAC 5-80-490)

VIII. Process Equipment Requirements - Bed, Flyash, Lime Handling, Biomass and Ash Storage Systems (Unit Ref. Nos. 010, 012, 013, 014, 015, 016 and 017)

Table VIII.A - Emission Limitations for Lime Storage and Handling Systems, Unit Ref. Nos. 010, 012, 013, 014 and 017			
Regulated Pollutant	Limitation/Standard		Applicable Requirement
	lb/hr	tons/yr	
PM	0.3*	1.2*	Condition 41, PSD permit issued 5/23/2012 [^]
PM10	0.3*	1.2*	Condition 41, PSD permit issued 5/23/2012 [^]

*These emissions are derived from the estimated overall emission contribution and are included for emission inventory purposes. Compliance shall be determined as stated in Conditions the Title V Permit, Section VIII.A.1,2,5,6 7,8 9 and 10.

[^]The PSD permit that was issued on 05/23/2012 was amended on 11/26/2012. There were no emission changes.

(9 VAC 5-80-490 B & C)

Table VIII.B - Emission Limitations for the Biomass Handling System, Unit Ref. Nos. 101A, 101B, 103 and 104-4			
Regulated Pollutant	Limitation/Standard		Applicable Requirement
	lb/hr	tons/yr	
PM	0.4*	1.5*	Condition 42, PSD permit issued 5/23/2012 [^]
PM10	0.2*	0.6*	Condition 42, PSD permit issued 5/23/2012 [^]
PM2.5	0.1*	0.1*	Condition 42, PSD permit issued 5/23/2012 [^]

*These emissions are derived from the estimated overall emission contribution and are included for emission inventory purposes. Compliance shall be determined as stated in Conditions the Title V Permit, Section VIII.A.12.

^The PSD permit that was issued on 05/23/2012 was amended on 11/26/2012. There were no emission changes.

(9 VAC 5-80-490 B & C)

Table VIII.C - Emission Limitations for Ash Storage (Ash Silo), Unit Ref. No. 016			
Regulated Pollutant	Limitation/Standard		Applicable Requirement
	lb/hr	tons/yr	
PM	0.6*	2.6*	Condition 43, PSD permit issued 5/23/2012^
PM10	0.6*	2.6*	Condition 43, PSD permit issued 5/23/2012^

Table VIII.D - Emission Limitations for Recycle Ash Storage (Recycle Ash Bin), Unit Ref. No. 015			
Regulated Pollutant	Limitation/Standard		Applicable Requirement
	lb/hr	tons/yr	
PM	0.2*	1.0*	Condition 44, PSD permit issued 5/23/2012^
PM10	0.2*	1.0*	Condition 44, PSD permit issued 5/23/2012^

*These emissions are derived from the estimated overall emission contribution and are included for emission inventory purposes.

^The PSD permit that was issued on 05/23/2012 was amended on 11/26/2012. There were no emission changes.

(9 VAC 5-50-260 and 9 VAC 5-80-490 B & C)

A. Limitations

1. Particulate emissions from the biomass storage silo (Ref. No. 018), the lime storage silo (Ref. No. 017), the recycle ash bin (Ref. No. 015), the discharge storage silo, and the ash handling system shall be controlled by fabric filters. The fabric filters shall be provided with adequate access for inspection.

(9 VAC 5-80-490 B & C and Condition 6, PSD permit issued 5/23/2012, amended 11/26/2012)

2. Fugitive dust emissions from biomass unloading, feeding, and conveying shall be controlled by enclosure and wet suppression with surfactant as necessary.

(9 VAC 5-80-490 B & C and Condition 7, PSD permit issued 5/23/2012, amended 11/26/2012)

3. Fugitive dust emissions from the furnace bottom ash drag shall be controlled by quenching ash with water. Fugitive dust emissions from the boiler ash collection drag and mechanical collector ash collection drag shall be saturated by water spray nozzles.
(9 VAC 5-80-490 B & C and Condition 8, PSD permit issued 5/23/2012, amended 11/26/2012)
4. Particulate emission from the biomass screening and hogging system shall be controlled by total enclosure.
(9 VAC 5-80-490 B & C and Condition 9, PSD permit issued 5/23/2012, amended 11/26/2012)
5. Lime slaker emissions shall be controlled by a dust suppression aspirator and water jet spray system (venturi scrubber). The aspirator vapor discharge shall be piped to the slurry tank for complete enclosure of all dust particles produced during the slaking process. The control system shall be provided with adequate access for inspection and shall have a device for continuous measurement of temperature.
(9 VAC 5-80-490 B & C and Condition 10, PSD permit issued 5/23/2012, amended 11/26/2012)
6. All conveyor belt returns shall be equipped with a belt scraper system. Scrapings shall be returned in an enclosed manner to the main flow of material.
(9 VAC 5-80-490 B & C and Condition 11, PSD permit issued 5/23/2012, amended 11/26/2012)
7. Fugitive dust emissions from the biomass storage silo (Unit Ref. No. 018) to the B & W primary biomass boilers (Ref. Nos. 001, 002) feed hopper shall be controlled by enclosed transfer system.
(9 VAC 5-80-490 B & C and Condition 12, PSD permit issued 5/23/2012, amended 11/26/2012)
8. Fugitive dust emissions from the ash and flue gas desulfurization product storage silo shall be controlled by mixing the discharge with water.
(9 VAC 5-80-490 B & C and Condition 13, PSD permit issued 5/23/2012, amended 11/26/2012)
9. The biomass storage pile (Ref. No. 102) shall be moist or treated (wet suppression and surfactant)
(9 VAC 5-80-490 B & C and Condition 14, PSD permit issued 5/23/2012, amended 11/26/2012)
10. Fugitive dust and fugitive emission controls shall include the following, or equivalent, as approved by DEQ:
 - a. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; paving of roadways, and maintenance of roadways in a clean condition.
 - b. Open equipment for conveying or transporting materials likely to create objectionable air pollution when airborne shall be covered, or treated in an equally effective manner at all times when in motion.
 - c. Prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

- d. Dust from material handling, and load-outs, shall be controlled by wet suppression or equivalent. The wet suppression spray systems shall be operated at optimum design.
- e. Reasonable precautions shall be taken to prevent deposition of dirt on public roads and subsequent dust emissions. These measures shall include paving the entrance/access road to the facility. Dirt, product, or raw material spilled or tracked onto paved surfaces shall be promptly removed to prevent particulate matter from becoming airborne.

(9 VAC 5-80-490 B & C and Condition 15, PSD permit issued 5/23/2012, amended 11/26/2012)

11. Emissions from the Bed, Flyash, Lime Handling, Biomass and Ash Storage Systems (Unit Ref. Nos. 010, 012, 013 014, 015, 016 and 017) shall not exceed the limitations in Tables VIII.A, B., C., and D.
(9 VAC 5-80-490 B & C)
12. The biomass material handling system (Ref. Nos. 101A, 101B) shall not process more than 784,480 tons per year of material, calculated monthly as the sum of each consecutive 12 month period.
(9 VAC 5-80-490 B & C and Condition 25, PSD permit issued 5/23/2012, amended 11/26/2012)
13. Visible emissions from all fabric filters (except those on the primary biomass boilers) shall not exceed five (5) percent opacity as determined by section VIII B 4 of this permit.
(9 VAC 5-80-490 B & C and Condition 50, PSD permit issued 5/23/2012, amended 11/26/2012 40 CFR 60.254(a))
14. Visible emissions from the ash unloading/truck loading system shall not exceed ten (10) percent opacity as determined by section VIII B 4 of this permit
(9 VAC 5-80-490 B & C and Condition 52, PSD permit issued 5/23/2012, amended 11/26/2012)
15. Visible emissions from the biomass handling system shall not exceed ten (10) percent opacity as determined by section VIII B 4 of this permit..
(9 VAC 5-80-490 B & C and Condition 53, PSD permit issued 5/23/2012, amended 11/26/2012 and 40 CFR 60.254(a))

B. Monitoring

1. Grit screen inspections to assess physical wear shall be performed every day of operation. Hopewell Power Station shall keep a daily log of all inspections.
(9 VAC 5-80-490)
2. Grit screen shall be replaced every 31 operational days or sooner if daily inspections indicate otherwise. Hopewell Power Station shall keep a log of all grit screen replacements .
(9 VAC 5-80-490)

3. Compliance with the limitations set forth in Tables VIII. A, B., C., and D shall be demonstrated by compliance with the provisions of Conditions VIII. A. 1 through 15 (inclusive) of this permit.
(9 VAC 5-80-490 E)
4. At least one time per week when in operation, an observation of the presence of visible emissions shall be made. If visible emissions are observed, the permittee shall take timely corrective action such that the units resume operation with no visible emissions or perform a visible emissions evaluation (VEE) in accordance with 40 CFR 60, Appendix A-4, Method 9 to assure visible emissions from the units do not exceed ten percent (10%) opacity and five percent (5%) for the fabric filters. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed 10 percent or 5 percent for the fabric filters, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the units resume operation with visible emissions of 10 percent or less or 5 percent or less for the fabric filters. The permittee shall maintain an observation log to demonstrate compliance. The log shall include the date and the time of the observations, whether or not there were visible emissions, any VEE recordings, and any necessary corrective action.
(9 VAC 5-80-490 E and 40 CFR 60.257(a))

C. Recordkeeping

1. Hopewell Power Station shall estimate the mass of material processed by the ash unloading/truck loading system. The estimate shall be based upon the amount of biomass burned and/or the amount of lime sorbent used and/or a measurement of the amount of material unloaded. The assumptions and records used to estimate emissions shall be documented and available on site for inspection by DEQ personnel. These records shall be kept on file for the most current five (5) year period.
(9 VAC 5-80-490 F and Condition 63, PSD permit issued 5/23/2012, amended 11/26/2012)
2. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. These records shall include, but are not limited to:
 - a. Annual throughput of material through the ash unloading/truck unloading system in tons per year calculated monthly as the sum of each consecutive 12-month period.
 - b. Performance test records in accordance with 40 CFR 60.255(a), 40 CFR 60.257, Subpart Y and VEE records.
(9 VAC 5-80-490 F and Condition 58, PSD permit issued 1/30/2012, amended 11/26/2012)

D. Testing

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate methods in accordance with procedures approved by the DEQ.

(9 VAC 5-80-490)

**IX. Solvent Metal Cleaning Operations – Non-Halogenated Cold Solvent Degreaser
(Emission Unit No. 019)**

Note: The requirements of Conditions IX A 1 – 5 are not applicable to aqueous based solutions.

A. Limitations

1. No owner or other person shall use or permit the use of any cold cleaner unless such cleaner is equipped with a control method that will remove, destroy or prevent the discharge into the atmosphere of at least 85% by weight of volatile organic compound emissions.
(9 VAC 5-80-490 and 9 VAC 5-40-3280 C)
2. Achievement of this emission standard in this subsection by use of the methods in 9 VAC 5-40-3290 C and D will be acceptable to the board.
(9 VAC 5-80-490 and 9 VAC 5-40-3280 C)
3. Emissions from each solvent metal cleaning operation (cold cleaning) shall be controlled as follows:
 - a. Covers or enclosed remote reservoirs shall be provided. Covers shall be designed so that they can be easily operated with one hand. (Covers for larger degreasers may require mechanical assistance, by spring loading, counterweighting or powered systems). Enclosed remote reservoirs shall be designed such that they provide reduction effectiveness equivalent to that of a cover.
 - b. External or internal drainage facilities shall be provided to collect and return the solvent to a closed container or a solvent cleaning machine. If solvent volatility is greater than 0.6 psi measured at 100°F, then the drainage facilities should be internal, so that parts are enclosed under the cover while draining. The drainage facilities may be external for applications where an internal type cannot fit into the cleaning system.
 - c. A permanent label summarizing the operating procedures in Condition IX A 4. shall be placed in a conspicuous location on or near the degreaser.
 - d. If used, the solvent spray should be a solid, fluid stream (not a fine, atomized or shower type spray) and at a pressure which does not cause excessive splashing.
(9 VAC 5-80-490 and 9 VAC 5-40-3290 C1).

4. The permittee shall operate each solvent cleaning operation (cold cleaning) consistent with good operating practices including the following:
 - a. Waste solvent should not be disposed of or transferred to another party, such that greater than 20% of the waste (by weight) can evaporate to the atmosphere. Store waste solvent only in closed containers.
 - b. The cold cleaning unit cover should be closed whenever not handling parts in the cold cleaner
 - c. Cleaned parts should drain for at least 15 seconds or until dripping ceases.
(9 VAC 5-80-490, 9 VAC 5-40 3280 C.1 & 2, and 9 VAC 5-40-3290 C. 2)
5. The permittee shall dispose of waste solvent from the cold cleaning units by one of the following methods:
 - a. Reclamation (either by outside services or in-house)
 - b. Incineration.
(9 VAC 5-80-490, and 9 VAC 5-40-3290 D)

B. Periodic Monitoring and Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Regional Office. These records shall include, but are not limited to:
 - a. Records documenting that each solvent metal cleaning operation (cold cleaning) at the facility is in compliance with the requirements of Conditions IX A & B.

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

(9 VAC 5-80-490)

X. Insignificant Emission Units

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	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
--	Turbine Lube Oil Reservoir	5-80-720 B.2	VOC	3,434 gallons
--	Used Oil Tank	5-80-720 C.3.	VOC	500 gallons
--	Portable Welder Engine	5-80-720 B.1.	NO _x , SO ₂ , VOC, PM, PM-10, CO	0.21 mmBtu/hr
--	Oil/Water Separator (Oil Sump)	5-80-720 C.3.	VOC	280 gallons

These emission units are presumed to be in compliance with all requirements of the federal 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 C, E & F.

XI. 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
9 VAC 5-40-60 (Rule 4-1)	Emission Standards for Visible Emissions and Fugitive Dust /Emissions	Units 001 & 002 are subject to opacity standards listed in Db which is more stringent than this rule.
9 VAC 5-40-900 (Rule 4-8)	Particulate Matter Standard for Fuel Burning Equipment	This standard does not apply to stationary internal combustion engines, which include the emergency diesel feed water pump and the diesel firewater pump. Units 001 & 002 are subject to NSPS Subpart Db and the auxiliary boilers are subject to NSPS Subparts Dc, which have more stringent particulate matter emissions limits.
9 VAC 5-40-930 (Rule 4-8)	Sulfur Dioxide Standard for Fuel Burning Equipment	This standard does not apply to stationary internal combustion engines, which include the emergency diesel feed water pump and the diesel firewater pump. Units 001 & 002 are subject to NSPS Subpart Db and the auxiliary boilers are subject to NSPS Subparts Dc, which have more stringent SO ₂ emissions limits.
40 CFR 60 Subpart D	Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971	Units 001 and 002 covered by Db, therefore not covered under this subpart, reference 60.40 (a)(2)(e).

Citation	Title of Citation	Description of Non Applicability
40 CFR 60 Subpart K	Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and prior to May 19, 1978	No emissions sources at this facility are subject to these NSPS requirements.
40 CFR 60 Subpart Ka	Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and prior to July 23, 1984	This standard does not apply to the fuel oil storage tanks because it is not applicable to units storing petroleum liquids with a vapor pressure less than 1.5 pounds per square inch
40 CFR 60 Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	This standard does not apply to the fuel oil storage tanks because it is not applicable to units storing petroleum liquids with a vapor pressure less than 1.5 pounds per square inch.
40 CFR 60 Subpart IIII	Stationary Compression Ignition Internal Combustion Engines Standards	This Subpart does not apply to the diesels on site because they were constructed before July 11, 2005.
40 CFR 60 Subpart OOO	Standards of Performance for Nonmetallic Mineral Processing Plants	This standard does not apply to the Coal crushers and conveyors because coal does not meet the definition of a nonmetallic mineral
40 CFR 60 Subpart Y	Standards of Performance for Coal Preparation and Processing Plants	This standard does not apply because the facility is being converted to biomass fired station, non coal on site

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 5-80-140 and 9 VAC 5-80-500)

XII. General Conditions

A. 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)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

1. 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.
2. 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 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
3. 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 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 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 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant to section 9 VAC 5-80-80 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)

C. 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)

2. Records of all monitoring data and support information shall be retained for at least 5 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 DEQ 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 5-80-80 G, and shall include:

- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
- b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:
 1. Exceedance of emissions limitations or operational restrictions;
 2. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
 3. 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)

D. 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 9 VAC 5-80-80 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 5-80-110 E, 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 to determine the compliance status of the source.

One copy of the annual compliance certification shall be emailed to EPA at R3_APO_Permits@epa.gov or sent to the following address:

Clean Air Act Title V Compliance Certification (3AP00)
U. S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029.

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

E. Permit Deviation Reporting

The permittee shall notify the Director, Piedmont Regional Office, within 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. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition XI.C.3. of this permit.

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

F. 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 the malfunction is discovered, notify the Director, Piedmont Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery 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 Director, Piedmont Regional Office. All malfunctions of emission units not subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C require written reports within 14 days of the discovery of the malfunction.

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

G. 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)

H. 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 reissuance, or modification; or, for denial of a permit renewal application.

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

I. 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)

J. Permit Modification

A physical change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, 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 & L, 9 VAC 5-80-550 and 9 VAC 5-80-660)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.

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

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

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-305 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-355. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by **April 15** of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.
(9 VAC 5-80-490 H)

N. 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, oil, 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 tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-40-90 and 9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, 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 5-50-20 E and 9 VAC 5-40-20 E)

P. 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 Article 3 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 1.

(9 VAC 5-80-490 J)

Q. 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 times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-490 K 2)

R. 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 years or more. Such reopening shall be completed no later than 18 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.

S. (9 VAC 5-80-490 L) 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 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, 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 30 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 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-560.
(9 VAC 5-80-520)

U. 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 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)

V. 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)

W. 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 submit 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)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances 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)

Y. 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 by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.

(40 CFR Part 68)

Z. 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)

AA. 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:

- a. All terms and conditions required under 9 VAC 5-80-490, except subsection N, shall be included to determine compliance.
- b. 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.
- c. 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)

XIII. State-Only Enforceable Requirements

The following terms and conditions are not required under the federal Clean Air Act or under any of its applicable federal requirements, and are not subject to the requirements of 9 VAC 5-80-690 concerning review of proposed permits by EPA and draft permits by affected states.

- a. Odor (9 VAC 5 Chapter 40, Article 2)
- b. State toxics rule (9 VAC 5 Chapter 60)

(9 VAC 5-80-490 N and 9 VAC 5-80-700)

XIV. Clean Air Interstate Rule, CAIR Requirements

A. CAIR General Conditions

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., and 40 CFR Part 96) by the compliance date in the respective Part of 9 VAC 5 Chapter 140. The CAIR application in Attachment A to this document contains specific conditions and expires upon expiration of this Title V permit.

(9 VAC 5-80-490, 40 CFR Part 96, and 9 VAC 5 Chapter 140)

B. See attached CAIR Application for original signature. (Appendix B)

C. CAIR Permit Application:

Plant Name: **Dominion - Hopewell Power Station** State: **VA** ORIS Facility Code **10771**

Unit ID #	NO _x Annual	SO ₂	NO _x Ozone Season
1	x	x	x
2	x	x	x

Standard Requirements

(a) Permit Requirements.

- (1) The CAIR designated representative of each CAIR NO_x source, CAIR SO₂ 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 SO₂ 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 NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) required to have a title V operating permit and each CAIR NOx unit, CAIR SO2 unit, and CAIR NOx 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 NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) that is not otherwise required to have a title V operating permit and each CAIR NOx unit, CAIR SO2 unit, and CAIR NOx 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 NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) and such CAIR NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable).
- (b) Monitoring, reporting, and recordkeeping requirements.
- (1) The owners and operators, and the CAIR designated representative, of each CAIR NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) and each CAIR NOx unit, CAIR SO2 unit, and CAIR NOx 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 NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) with the CAIR NOx emissions limitation, CAIR SO2 emissions limitation, and CAIR NOx 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.

(d) Sulfur dioxide emission requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO₂ 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 SO₂ units at the source, as determined in accordance with subpart HHH of 40 CFR part 96.
- (2) A CAIR SO₂ 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 SO₂ 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 SO₂ allowance was allocated.
 - (4) CAIR SO₂ allowances shall be held in, deducted from, or transferred into or among CAIR SO₂ Allowance Tracking System accounts in accordance with subparts FFF, GGG, and III of 40 CFR part 96.
 - (5) A CAIR SO₂ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂ Trading Program. No provision of the CAIR SO₂ 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 SO₂ 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 SO₂ allowance to or from a CAIR SO₂ source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR SO₂ unit.
- (e) 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 NOx allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NOx Ozone Season Trading Program. No provision of the CAIR NOx 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 NOx 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 NOx Ozone Season allowance to or from a CAIR NOx Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.

(f) Excess emissions requirements.

If a CAIR NOx source emits nitrogen oxides during any control period in excess of the CAIR NOx emissions limitation, then:

- (1) The owners and operators of the source and each CAIR NOx unit at the source shall surrender the CAIR NOx 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 SO₂ source emits sulfur dioxide during any control period in excess of the CAIR SO₂ emissions limitation, then:

- (1) The owners and operators of the source and each CAIR SO₂ unit at the source shall surrender the CAIR SO₂ 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 NOx Ozone Season source emits nitrogen oxides during any control period in excess of the CAIR NOx Ozone Season emissions limitation, then:

- (1) The owners and operators of the source and each CAIR NOx Ozone Season unit at the source shall surrender the CAIR NOx 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.

(g) Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ 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 SO₂ 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 SO₂ 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 SO₂ 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 SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).
- (2) The CAIR designated representative of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ 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 SO₂ 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.

(h) Liability.

- (1) Each CAIR NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) and each NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable) shall meet the requirements of the CAIR NOx Annual Trading Program, CAIR SO2 Trading Program, and CAIR NOx Ozone Season Trading Program (as applicable).
- (2) Any provision of the CAIR NOx Annual Trading Program, CAIR SO2 Trading Program, and CAIR NOx Ozone Season Trading Program (as applicable) that applies to a CAIR NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) or the CAIR designated representative of a CAIR NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) shall also apply to the owners and operators of such source and of the CAIR NOx units, CAIR SO2 units, and CAIR NOx Ozone Season units (as applicable) at the source.
- (3) Any provision of the CAIR NOx Annual Trading Program, CAIR SO2 Trading Program, and CAIR NOx Ozone Season Trading Program (as applicable) that applies to a CAIR NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable) or the CAIR designated representative of a CAIR NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable) shall also apply to the owners and operators of such unit.

(i) Effect on Other Authorities.

No provision of the CAIR NOx Annual Trading Program, CAIR SO2 Trading Program, and CAIR NOx 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 NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) or CAIR NOx unit, CAIR SO2 unit, and CAIR NOx 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: J. David Rives Signed: 06-21-2007

To: Air Compliance Manager
Department of Environmental Quality – Piedmont Regional Office
4949 A Cox Road
Glen Allen, VA 23060

From: Hopewell Power Station

Registration No. 51019

Re: TITLE V ANNUAL COMPLIANCE CERTIFICATION

Date:

Please find attached our Title V Annual Compliance Certification for the period from ___/___/___ to ___/___/____. It identifies each term or condition of the permit that is the basis of the certification. All deviations and periods of non-compliance for the period have been addressed in semi-annual monitoring reports that have either been previously submitted or are enclosed.

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 manage the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(Signature)

(Name & Title)

cc: Director, Air and Waste Division (Mail drop 3AP00)
United States Environmental Protection Agency -- Region III
1650 Arch Street
Philadelphia, PA 19103-2029

(Annual Compliance Certifications are due 60 days following end of reporting period.)

To: Air Compliance Manager
Department of Environmental Quality – Piedmont Regional Office
4949 A Cox Road
Glen Allen, VA 23060

From: Hopewell Power Station

Reg. No. 51019

Re: PROMPT DEVIATION REPORT – Pursuant to Title V Permit

Date:

This confirms the deviation reported to the Regional Office at _____ o'clock on ____/____/____. The details are described below. The deviation may have caused excess emissions for more than one hour, consistent with specified averaging times. None of these deviations were related to a malfunction.

Start date & time:	End date & time:	Estimated Duration:
Deviation from which permit condition (<i>condition number and brief description</i>):		
Description of incident (<i>including emission unit affected</i>):		
Description of Monitoring Requirement for affected unit(s):		
Probable cause:		
Description of corrective measures taken (<i>demonstrating a timely & appropriate response</i>):		
Description of preventive measures taken:		

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 manage the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(Signature)

(Name & Title)

To: Air Compliance Manager
Department of Environmental Quality – Piedmont Regional Office
4949 A Cox Road
Glen Allen, VA 23060

From: Hopewell Power Station Reg. No. 51019

Re: SEMI-ANNUAL MONITORING REPORT – Pursuant to Title V Permit

Date:

The following monitoring report is submitted as required by our Title V permit. For the purposes of this report, deviation means (1) exceedances of emission limits, as determined by such means as stack testing, continuous emission monitors, parametric monitoring and EPA Method 9 visible emission evaluations; (2) excursions from control device operating parameter requirements such as afterburner temperature, scrubber flow rate, baghouse pressure drop; (3) excursions from operational restrictions things such as throughput, fuel quality, and coating VOC and HAP content; and (4) failure to meet monitoring, record keeping or reporting requirements. The report addresses all data points, which are above a standard, limit etc, according to the averaging period, if any, specified in the permit. If no averaging period is specified in the permit, then any monitored reading is considered a deviation to be reported. Deviations are reported regardless of whether they may have caused excess emissions or whether they were the result of a malfunction.

The period covered by the report is from ___/___/___ to ___/___/___.

During the reporting period:

No deviations from permit requirements occurred during this semi-annual reporting period. (We conducted all required monitoring and associated record keeping and reporting. Required monitoring revealed no deviations from permit requirements.)

We failed to conduct required monitoring/record keeping/reporting as explained on the attached form.

We identified deviations as a result of required monitoring:

Deviations were addressed in CEM Excess Emission Report(s) dated: _____

Deviations were addressed in Fuel Report(s) dated: _____

Deviations were addressed in MACT Report(s) dated: _____

Deviations due to malfunctions were addressed in letters dated: _____

Deviations were addressed in other report(s) dated: _____

Type of report: _____

Deviations were previously described in Prompt Deviation Reports dated:

"Other" deviations, which were not previously reported, are described in the attachment.

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 manage the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(Signature)

(Name & Title)

Annual Compliance Certification

Registration No. _____

Page _____ of _____

Cond. No.	TERMS & CONDITIONS CONTAINED IN THE PERMIT <i>(list in order)</i>	MEANS OF DETERMINING COMPLIANCE STATUS	TYPE OF DATA THE MEANS PROVIDES	PERIODS OF NON-COMPLIANCE
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No

"OTHER" DEVIATIONS
 Submitted as Part of Semi-Annual Monitoring Report

Registration No. 51019 Page of

Condition No. & Description of Requirement	Description of Deviation (time, emission unit, description of event, cause)	Description of Associated Monitoring Requirement	Description of corrective measures taken (<i>demonstrating a timely & appropriate response</i>)

(Report deviations which may have caused excess emissions for more than one hour on a deviation report form, not here.)

APPENDIX A - PHASE II ACID RAIN PERMIT SUPERSEDES PERMIT ISSUED AUGUST 19, 2005

Title IV Permit Allowances and Requirements

PHASE II Permit – The attached Phase II permit is incorporated into this permit by reference. The owners and operators of the source shall comply with the standard requirements and special provisions set forth in the application (9 VAC 5-80-440 and 9 VAC 5-80-490 A.4.a and c, B,C, E, F, M, O, and P)

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 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. SO2 Allowance Allocations and NOx Requirements for affected units

		2012	2013	2014	2015	2016
Unit 001	SO ₂ allowances, allocated by U. S. EPA. (tons)	None	None	None	None	None
	NO _x limit	Not Applicable.				

		2012	2013	2014	2015	2016
Unit 002	SO ₂ allowances, allocated by U. S. EPA. (tons)	None	None	None	None	None
	NO _x limit	Not Applicable.				

C. Additional Requirements, Notes:

1. Additional Requirements:

Dominion Resource Services – Hopewell Power Station, shall submit a complete permit application that includes all of the information required under 40 CFR §§72.21 and 72.31 at least 6 months, but no earlier than 18 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. SO₂ 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 SO₂ 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. These units (Units 001 and 002) were not eligible for SO₂ 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)
- c. The two stoker-fired coal boilers are not subject to NO_x emission reductions. The NO_x acid rain regulations list stoker-fired boilers as Group II boilers. However, there are no emission limitations for these types of boilers in 40 CFR 76.6.
- d. Phase II Renewal Acid Rain Permit Application Attached (5 pages).

Appendix B CAIR Permit Application Documents

Dominion Generation
5000 Dominion Boulevard, Glen Allen, VA 23060



Dominion

13

Certified Mail – Return Receipt Requested

June 22, 2007

Mr. James E. Kyle
Air Permit Manager
Virginia Department of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060

RECEIVED

JUN 26 2007

PRO

**Re: Dominion - Hopewell Power Station
Initial CAIR Permit Application
DEQ Air Registration No. 51019**

Dear Mr. Kyle:

Enclosed please find the requested CAIR application documents for Hopewell Power Station. A completed CAIR permit application and the appropriate pages of the Form 7 are included. 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 Dawn Garber at (804) 273-3912 or dawn.k.garber@dom.com.

Sincerely,

Cathy C. Taylor
Director, Environmental Support

Enclosure: Hopewell Power Station CAIR permit application

Plant Name (from Step 1) **Dominion – Hopewell Power 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 SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ 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 SO₂ source, and CAIR NO_x Ozone Season source (as applicable) with the CAIR NO_x emissions limitation, CAIR SO₂ 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 SO₂ source and each CAIR SO₂ unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO₂ 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 SO₂ units at the source, as determined in accordance with subpart HHH of 40 CFR part 96.

(2) A CAIR SO₂ 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 SO₂ 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 SO₂ allowance was allocated.

(4) CAIR SO₂ allowances shall be held in, deducted from, or transferred into or among CAIR SO₂ Allowance Tracking System accounts in accordance with subparts FFF, GGG, and III of 40 CFR part 96.

(5) A CAIR SO₂ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂ Trading Program. No provision of the CAIR SO₂ 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 SO₂ 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 SO₂ allowance to or from a CAIR SO₂ source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR SO₂ 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 Ozone Season 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 Ozone Season 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 – Hopewell Power 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 SO₂ source emits sulfur dioxide during any control period in excess of the CAIR SO₂ emissions limitation, then:

- (1) The owners and operators of the source and each CAIR SO₂ unit at the source shall surrender the CAIR SO₂ 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 SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ 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 SO₂ 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 SO₂ 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 SO₂ 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 SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).
- (2) The CAIR designated representative of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ 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 SO₂ 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 SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) shall meet the requirements of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).
- (2) Any provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) that applies to a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) or the CAIR designated representative of a CAIR NO_x source, CAIR SO₂ 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 SO₂ 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 SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) that applies to a CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) or the CAIR designated representative of a CAIR NO_x unit, CAIR SO₂ 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 – Hopewell Power Station**

**STEP 3,
continued**

(g) Effect on Other Authorities.

No provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ 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 SO₂ source, and CAIR NO_x Ozone Season source (as applicable) or CAIR NO_x unit, CAIR SO₂ 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 J. David Rives	
Signature 	Date 06-21-07

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality



General information

CHECK ALL FORMS THAT APPLY AND LIST ALL ATTACHED DOCUMENTS.

- | | |
|--|---|
| <input type="checkbox"/> MAP AND LOCALITIES LIST (information), Pages iii-vi | <input type="checkbox"/> PAST ACTUAL ANNUAL CRITERIA POLLUTANT EMISSIONS, Page 15 |
| <input type="checkbox"/> CONFIDENTIAL INFORMATION, Page vii-viii | <input type="checkbox"/> TOXIC OR HAP EMISSIONS, Page 16 |
| <input type="checkbox"/> FORMULA-BASED HAZARDOUS AIR POLLUTANT INFORMATION, Page ix | <input type="checkbox"/> OTHER REGULATED EMISSIONS, Page 17 |
| <input type="checkbox"/> HAZARDOUS AIR POLLUTANT LIST (information), Pages xi-xii | <input type="checkbox"/> OPERATING PERIODS, Page 18 |
| <input type="checkbox"/> REQUEST FOR LOCAL GOVERNMENT CERTIFICATION FORM, Page xiii | |
| <input checked="" type="checkbox"/> 1 CONTENTS AND DOCUMENT CERTIFICATION, Page 1 | LIST ATTACHED DOCUMENTS |
| <input checked="" type="checkbox"/> 1 GENERAL INFORMATION, Page 2 | <input type="checkbox"/> MAP of SITE LOCATION |
| <input checked="" type="checkbox"/> 1 GENERAL INFORMATION (continued), Page 3 | <input type="checkbox"/> FACILITY SITE PLAN |
| <input type="checkbox"/> FUEL-BURNING EQUIPMENT, Page 4 | <input type="checkbox"/> PROCESS FLOW DIAGRAM/SCHEMATIC |
| <input type="checkbox"/> PROCESSING, Page 5 | <input type="checkbox"/> MSDS or CPDS SHEETS |
| <input type="checkbox"/> INKS, COATINGS, STAINS, AND ADHESIVES, Page 6 | <input type="checkbox"/> ESTIMATED EMISSIONS CALCULATIONS |
| <input type="checkbox"/> INCINERATORS, Page 7 | <input type="checkbox"/> STACK TESTS |
| <input type="checkbox"/> VOLATILE ORGANIC COMPOUND/PETROLEUM STORAGE TANKS, Page 8 | <input type="checkbox"/> AIR MODEL DATA |
| <input type="checkbox"/> VOLATILE ORGANIC COMPOUND/PETROLEUM STORAGE TANKS - CONTINUED, Page 9 | _____ |
| <input type="checkbox"/> LOADING RACKS AND OIL-WATER SEPARATORS, Page 10 | _____ |
| <input type="checkbox"/> STACK PARAMETERS AND FUEL DATA, Page 11 | _____ |
| <input type="checkbox"/> AIR POLLUTION CONTROL AND MONITORING EQUIPMENT, PAGE 12 | _____ |
| <input type="checkbox"/> AIR POLLUTION CONTROL/SUPPLEMENTAL INFORMATION, PAGE 13 | _____ |
| <input type="checkbox"/> PROPOSED MAXIMUM CRITERIA POLLUTANT EMISSIONS, Page 14 | |

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

DOCUMENT CERTIFICATION FORM

(see other side for instructions)

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

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

SIGNATURE: J. David Rives DATE: 06-21-07

NAME: J. David Rives

TITLE: VP Fossil & Hydro REGISTRATION

COMPANY: Dominion - Hopewell Power Station NUMBER: 51019

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

COMMONWEALTH OF VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY
 AIR PERMIT APPLICATION GENERAL INFORMATION

PERSON COMPLETING FORM	DATE	REGISTRATION NUMBER
Dawn Garber	June 2007	51019

REASON(S) FOR SUBMISSION (Check all that apply):

<input checked="" type="checkbox"/> STATE OPERATING PERMIT	THIS PERMIT IS APPLIED FOR PURSUANT TO PROVISIONS OF THE VIRGINIA ADMINISTRATIVE CODE, 9 VAC 5 Chapter 80, Article 5 (SOP)
<input type="checkbox"/> NEW (Greenfield) SOURCE	THIS PERMIT IS APPLIED FOR PURSUANT TO THE FOLLOWING PROVISION(S) OF THE VIRGINIA ADMINISTRATIVE CODE: <input type="checkbox"/> 9 VAC 5 Chapter 80, Art. 6 (MINOR SOURCES) <input type="checkbox"/> 9 VAC 5 Chapter 80, Art. 8 (PSD MAJOR SOURCES) <input type="checkbox"/> 9 VAC 5 Chapter 80, Art. 9 (NON-ATTAINMENT MAJOR SOURCES)
<input type="checkbox"/> MODIFICATION of a SOURCE	
<input type="checkbox"/> RELOCATION of a SOURCE	
<input type="checkbox"/> Non-Binding Letter of EXEMPTION	
<input type="checkbox"/> AMENDMENT to a Permit dated: _____ Permit type: <input type="checkbox"/> SOP (Art. 5) <input type="checkbox"/> NSR (Art. 6)	
Amendment Type: <input type="checkbox"/> Administrative Amendment <input type="checkbox"/> Minor Amendment <input type="checkbox"/> Significant Amendment	THIS AMENDMENT IS REQUESTED PURSUANT TO THE PROVISIONS OF: <input type="checkbox"/> 9 VAC 5-80-970 (SOP Adm.) <input type="checkbox"/> 9 VAC 5-80-1270 (NSR Adm.) <input type="checkbox"/> 9 VAC 5-80-980 (SOP Minor) <input type="checkbox"/> 9 VAC 5-80-1280 (NSR Minor) <input type="checkbox"/> 9 VAC 5-80-990 (SOP Sig.) <input type="checkbox"/> 9 VAC 5-80-1290 (NSR. Sig.)

Complete Pages 1, 2, and 3 and refer to the above checked provisions for additional information requirements. Form 7 pages may be used to satisfy those requirements.

Notification of Change in Ownership - Effective Date: _____

Notification of Facility Name Change - Effective Date: _____

Notification of Owner Name Change - Effective Date: _____

Other (Specify): _____

COMPANY AND DIVISION NAME:
 Dominion - Hopewell Power Station

MAILING ADDRESS:
 5000 Dominion Boulevard, Glen Allen, VA 23060

TELEPHONE NUMBER: 804-452-1300	NUMBER OF EMPLOYEES AT SITE:	PROPERTY AREA AT SITE:
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EXACT SOURCE LOCATION - INCLUDE NAME OF CITY (COUNTY) AND FULL STREET ADDRESS OR DIRECTIONS:
 107 Terminal Street, Hopewell, VA 23860

PERSON TO CONTACT ON AIR POLLUTION MATTERS - NAME AND TITLE: Cathy C. Taylor Director, Environmental Support	PHONE NUMBER: 804-273-2929
	FAX NUMBER: 804-273-3410
	E-MAIL ADDRESS: Cathy.C.Taylor@dom.com

Please check here if you obtained this form from the DEQ website.

FOR OFFICIAL USE ONLY

COUNTY CODE:	PLANT ID NUMBER:	LAT/LONG:
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Appendix C NSPS Subpart D_b

Appendix D NSPS Subpart D_c

Appendix E MACT Subpart ZZZZ

SOURCE TESTING REPORT FORMAT

Cover

1. Plant name and location
2. Units tested at source (indicate Ref. No. used on permit)
3. Tester; name, address and report date

Certification

1. Signed by team leader / certified observer (include certification date)
- * 2. Signed by reviewer

Introduction

1. Test purpose
2. Test location, type of process
3. Test dates
- * 4. Pollutants tested
5. Test methods used
6. Observers' names (industry and agency)
7. Any other important background information

Summary of Results

1. Pollutant emission results / visible emissions summary
2. Input during test vs. rated capacity
3. Allowable emissions
- * 4. Description of collected samples, to include audits when applicable
5. Discussion of errors, both real and apparent

Source Operation

1. Description of process and control devices
2. Process and control equipment flow diagram
3. Process and control equipment data

* Sampling and Analysis Procedures

1. Sampling port location and dimensioned cross section
2. Sampling point description
3. Sampling train description
4. Brief description of sampling procedures with discussion of deviations from standard methods
5. Brief description of analytical procedures with discussion of deviation from standard methods

Appendix

- * 1. Process data and emission results example calculations
2. Raw field data
- * 3. Laboratory reports
4. Raw production data
- * 5. Calibration procedures and results
6. Project participants and titles
7. Related correspondence
8. Standard procedures

* Not applicable to visible emission evaluations.