COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
TIDEWATER REGIONAL OFFICE
5636 Southern Boulevard, Virginia Beach, Virginia 23462
(757) 518-2000 Fax (757) 518-2009
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Doug Domenech
Secretary of Natural Resources

David K. Paylor
Director

Maria R. Nold
Regional Director

September 10, 2012

Mr. Gary Hughes
General Manager
Portsmouth Genco LLC
1 Wild Duck Lane
Portsmouth, VA 23703

Location: Portsmouth
Registration No.: 61049
AFS Id. No.: 51-740-00081

Dear Mr. Hughes:

Attached is a permit to operate your cogeneration plant pursuant to 9 VAC 5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution (the regulations). This permit incorporates provisions from the NSR permit dated October 23, 2006 and PSD permit dated October 23, 2009.

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

In evaluating the application and arriving at a final decision to issue this permit, the Department deemed the application complete on March 14, 2012 and solicited written public comments by placing a newspaper advertisement in the Virginian-Pilot on Wednesday, July 25, 2012. The thirty day comment period (provided for in 9 VAC 5-80-270) expired on Friday, August 24, 2012 with no comments having been received in this office.

This approval to operate does not relieve Portsmouth Genco LLC 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:

David K. Paylor, Director
Department of Environmental Quality
PO Box 1105
Richmond, VA 23218-1105

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 Rule 2A 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 Cindy Keltner by phone at (757) 518-2167 or by e-mail at Cindy.Keltner@deq.virginia.gov.

Sincerely,

Troy D. Breathwaite
Regional Air Permits Manager

TDB/CLK/61049_017_12_T5Renewal_FOP_cvrltr_PortsmouthGencoLLC.docx

Attachment: Permit

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

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Federal Operating Permit
Article 3

This permit is based upon Federal Clean Air Act acid rain permitting requirements of Title IV, federal operating permit requirements of Title V; and Chapter 80, Article 3 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 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:	Portsmouth Genco LLC
Facility Name:	Portsmouth Genco LLC
Facility Location:	1 Wild Duck Lane Portsmouth, Virginia
Registration Number:	61049
Permit Number:	**TRO 61049**

This permit includes the following programs:
Federally Enforceable Requirements - Clean Air Act (Sections I through VI)
Federally Enforceable Requirements – SO_2 Opt-in Acid Rain (Section VIII)
Federally Enforceable Requirements – Clean Air Interstate Rule (CAIR) (Section VIII)
State Only Enforceable Requirements (Section IX)

The Phase II Acid Rain Opt-in Permit Application has been attached to this document. (49 pages).
The Clean Air Interstate Rule (CAIR) permit application and conditions have been attached to this document.

April 1, 2012
Effective Date

March 31, 2017
Expiration Date

_____
Maria R. Nold

September 10, 2012
Signature Date

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I. Facility Information

Permittee Information
Portsmouth Genco LLC
1 Wild Duck Lane
Portsmouth, Virginia 23703

Responsible Official
Gary Hughes
General Manager

Acid Rain Designated Representative
Gary Hughes
Air Quality Manager
USEPA AAR ID Number: 603736

CAMD Facility ID
Portsmouth Genco LLC
1 Wild Duck Lane
Portsmouth, Virginia 23703

Facility Contact person
Randy Musselwhite
Compliance Supervisor
757-484-3540

County-Plant I Identification Number: 51-740-00081
ORIS Code and/or EIA Facility ID 10071
NATS Facility Identification Number: 10071

Facility Description: NAICS 221122 - Portsmouth Genco LLC is a cogeneration plant which combusts bituminous coal in six (6) stoker-fired boilers, each rated at approximately 200 million Btu heat input per hour, to produce steam. The plant was originally permitted under the requirements of PSD in 1986. The boilers are traveling grate, overfeed, stoker boilers manufactured by Foster Wheeler and are operated as dispatched by NOVEC. In addition to the stoker boilers, other emission sources on the plant site include the coal handling operations and the ash handling operations. Coal is delivered to the site via barge and off-loaded to a conveyor belt. The flat conveyor belt is formed into a tube to carry the coal to the coal storage yard. The coal is stacked onto a pile over underground hoppers. From these hoppers, coal is fed onto a conveyor belt for delivery into the plant where it is stored in a bunker for each boiler. The ash produced from the fuel combustion and that is collected by the boiler baghouse is collected and pneumatically conveyed to a storage silo. The ash is unloaded from the silos into trucks. The facility also maintains a 340 brake horsepower emergency diesel water pump for fire control purposes.

II. Emission Units

Equipment to be operated consists of:

Emission Unit I (EU ID)	Emission Unit Description	Size/Rated Capacity	Pollution Control Device Description (PCD)	PCD ID	Stack ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment							
1A	Foster-Wheeler stoker boiler/1986	175,000 lbs steam/hour 200 mmBtu/hour heat input	Fabric filter baghouse: Wheelabrator-Frye MDL 168 Series 6P with a control efficiency of 99.1%	1A	001	PM	10/23/09 PSD
			Dry Flue Gas Desulfurization System with a control efficiency of 90%	1A-1	001	SO2	
1 B	Foster-Wheeler stoker boiler/1986	175,000 lbs steam/hour 200 mmBtu/hour heat input	Fabric filter baghouse: Wheelabrator-Frye MDL 168 Series 6P with a control efficiency of 99.1%	1B	001	PM	10/23/09 PSD
			Dry Flue Gas Desulfurization System with a control efficiency of 90%	1B-1	001	SO2	
1C	Foster-Wheeler stoker boiler/1986	175,000 lbs steam/hour 200 mmBtu/hour heat input	Fabric filter baghouse: Wheelabrator-Frye MDL 168 Series 6P with a control efficiency of 99.1%	1C	001	PM	10/23/09 PSD
			Dry Flue Gas Desulfurization System with a control efficiency of 90%	1C-1	001	SO2	
2A	Foster-Wheeler stoker boiler/1986	175,000 lbs steam/hour 200 mmBtu/hour heat input	Fabric filter baghouse: Wheelabrator-Frye MDL 168 Series 6P with a control efficiency of 99.1%	2A	002	PM	10/23/09 PSD

Emission Unit I (EU ID)	Emission Unit Description	Size/Rated Capacity	Pollution Control Device Description (PCD)	PCD ID	Stack ID	Pollutant Controlled	Applicable Permit Date
			Dry Flue Gas Desulfurization System with a control efficiency of 90%	2A-1	002	SO2	
2B	Foster-Wheeler stoker boiler/1986	175,000 lbs steam/hour 200 mmBtu/hour heat input	Fabric filter baghouse: Wheelabrator-Frye MDL 168 Series 6P with a control efficiency of 99.1%	2B	002	PM	10/23/09 PSD
			Dry Flue Gas Desulfurization System with a control efficiency of 90%	2B-1	002	SO2	
2C	Foster-Wheeler stoker boiler/1986	175,000 lbs steam/hour 200 mmBtu/hour heat input	Fabric filter baghouse: Wheelabrator-Frye MDL 168 Series 6P with a control efficiency of 99.1%	2C	002	PM	10/23/09 PSD
			Dry Flue Gas Desulfurization System with a control efficiency of 90%	2C-1	002	SO2	
FP	Emergency diesel power fire pumps	2.83 MMBtu/hr					10/23/06 NSR
Coal Handling							
FS3	Coal unloading and stock out: unloading hopper, covered conveyor, stock	600 tons coal/hour	Water spray/wet dust suppression	3	NA	PM	10/23/09 PSD
FS4	Coal screening/classifier / crusher system with associated conveyors	300 tons coal/hour	Water spray at transfer points.	4A	NA	PM	10/23/06 NSR
			Bagfilter on classifier/screener	4B	F-4	PM	

Emission Unit I (EU ID)	Emission Unit Description	Size/Rated Capacity	Pollution Control Device Description (PCD)	PCD ID	Stack ID	Pollutant Controlled	Applicable Permit Date
1-2A	Boiler 1A coal storage bunker	270 tons coal/hour	Fabric filter baghouse: Dalamatic DLMV1 5	1-2A	1-2A	PM	10/23/09 PSD
1 -2B	Boiler 1 B coal storage bunker	270 tons coal/hour	Fabric filter baghouse: Dalamatic DLMV1 5	1 -2B	1 -2B	PM	10/23/09 PSD
1 -2C	Boiler 1 C coal storage bunker	270 tons coal/hour	Fabric filter baghouse: Dalamatic DLMV1 5	1 -2C	1 -2C	PM	10/23/09 PSD
2-2A	Boiler 2A coal storage bunker	270 tons coal/hour	Fabric filter baghouse: Dalamatic DLMV1 5	2-2A	2-2A	PM	10/23/09 PSD
2-2B	Boiler 2B coal storage bunker	270 tons coal/hour	Fabric filter baghouse: Dalamatic DLMV1 5	2-2B	2-2B	PM	10/23/09 PSD
2-2C	Boiler 2C coal storage bunker	270 tons coal/hour	Fabric filter baghouse: Dalamatic DLMV1 5	2-2C	2-2C	PM	10/23/09 PSD
Unit 1 Fly Ash System (total system rating of 4 tons of ash/hour)							
1-3	Storage Silo		Bagfilter: A-S-H Binvent	1 -3A	1 -3A	PM	10/23/09 PSD
1-3	Vacuum system		Filter: In line cartridge filter Cyclone: A-S-H Co. T-42 primary collector Bag filter: A-S-H Co. T-42 w/Micropulsair Mdl 42-8-18 hg	1-3B 1-3E 1-3F	1-3B	PM	10/23/09 PSD

Emission Unit I (EU ID)	Emission Unit Description	Size/Rated Capacity	Pollution Control Device Description (PCD)	PCD ID	Stack ID	Pollutant Controlled	Applicable Permit Date
1-3	Vacuum system		Filter: In line cartridge filter Cyclone: A-S-H Co. T-42 primary collector Bag filter: A-S-H Co. T-42 2/Micropulsair Mdl 42-8-18 hg	1-3C 1-3-E 1-3-F	1-3C	PM	10/23/09 PSD
1-3	Wet unloader		Pugmill: A-S-H-C-40 pugmill	1-3D	1-3D	PM	10/23/09 PSD
Unit 2 Fly Ash System (total system rating of 4 tons of ash/hour)							
2-3	Storage Silo		Bagfilter: A-S-H Binvent	2-3A	2-3A	PM	10/23/09 PSD
2-3	Vacuum system		Filter: In line cartridge filter Cyclone: A-S-H Co. T-42 primary collector Bag filter: A-S-H Co. T042 w/Micropulsair Mdl 42-8-18" hg	2-3B	2-3B	PM	10/23/09 PSD
2-3	Vacuum system		Filter: In line cartridge filter Cyclone: A-S-H Co. T-42 primary collector Bag filter: AA-S-H Co. T-42 w/Micropulsair Mdl 42-8-18" hg	2-3-C 2-3-E 2-3-F	2-3C	PM	10/23/09 PSD
2-3	Wet unloader		Pugmill: A-S-H C-40 pugmill	2-3-D	2-3-D	PM	10/23/09 PSD
Bottom Ash System							
1-4	Bottom Ash Silo		Binvent filter	1-4	1-4	PM	10/23/06 NSR

Emission Unit I (EU ID)	Emission Unit Description	Size/Rated Capacity	Pollution Control Device Description (PCD)	PCD ID	Stack ID	Pollutant Controlled	Applicable Permit Date
	Unit 1 Vacuum System		Primary collector	1-4A	1-4A or B	PM	10/23/06 NSR
			Micropulsaire Mdl 42-8-18"Hg Bagfilter	1-4B	1-4A or B	PM	10/23/06 NSR
			In –line Cartridge Filter				
	Unit 2 Vacuum System		Primary collector	2-4A	2-4C or B	PM	10/23/06 NSR
			Micropulsaire Mdl 42-8-18"Hg Bagfilter	2-4B	2-4C or B	PM	10/23/06 NSR
			In-line Cartridge Filter	2-4C	2-4C or B	PM	10/23/06 NSR
	Wet Unloader		Pugmill	1-4D	1-4D	PM	
Lime Storage System							
1-5	Lime Silo		Vent Filter with Reverse-Air Purge	1-5	1-5	PM	10/23/06 NSR

III. Equipment Requirements

A. Limitations

1. Particulate emissions from the six (6) boilers (1A, 1B, 1C, 2A, 2B, and 2C) shall be controlled by the use of a baghouse rated at 99.1 percent efficiency.
(9 VAC 5-80-490 B & C and Condition 9 of 10/23/09 PSD Permit).

2. PM/PM_{10} emissions from the bottom ash silo (Unit 1-4) shall be controlled by a primary cyclone separator (CD 1-4A, 2-4A) and a secondary bagfilter collector (CD 1-4B, 2-4B). The primary cyclone separator and secondary bagfilter collector shall be provided with adequate access for inspection and shall be in operation when the bottom ash silo is operating.
(9 VAC 5-80-490, 9 VAC 5-80-850, 9 VAC 5-50-260 and Condition 3 of the 10/23/06 NSR permit)

3. Particulate emissions from the lime silo (Unit 1-5) shall be controlled by a vent filter with reverse air purge (EP 1-5, CD 1-5). The filter shall be provided with adequate access for inspection and shall be in operation when the lime silo is operating.
(9 VAC 5-80-490, 9 VAC 5-80-850, 9 VAC 5-50-260 and Condition 4 of the 10/23/06 NSR permit)

4. Particulate emissions from the barge unloader, coal storage load-in and coal storage (FS-3) shall be controlled by wet suppression with surfactant as needed.
(9 VAC 5-80-490, 9 VAC 5-170-160, 9 VAC 5-50-280, and Condition 10 of 10/23/09 PSD permit)

5. Particulate emissions from the ash silo unloaders (1-3 and 2-3) shall be controlled by a water spray system in the pugmill. Water spray system shall be provided with adequate access for inspection and shall be in operation when the ash silo unloaders are operating.
(9 VAC 5-80-490, 9 VAC 5-80-850, 9 VAC 5-50-260 and Condition 5 of the 10/23/06 NSR permit)

6. PM/PM_{10} emissions from the screener/classifier and crusher (FS-4) shall be controlled by the bagfilter (CD 4A). The associated conveyors shall be partially covered and use water spray (CD 4B) at all transfer points. The water spray system shall be provided with adequate access for inspection and shall be in operation, as needed, to control fugitive dust emissions while the associated conveyors are operating.
(9 VAC 5-80-490, 9 VAC 5-80-850, 9 VAC 5-50-260 and Condition 6 of the 10/23/06 NSR permit)

7. Particulate emissions from the coal bunkers (1-2A, 1-2B, 1-2C, 2-2A, 2-2B, and 2-2C) shall be controlled by bin vent filters and the two fly ash systems shall be controlled by bagfilters and multiclones in series followed by bagfilters. The bagfilters and multiclones shall be provided with adequate access for inspection.
(9 VAC 5-80-490, 9 VAC 5-170-160, 9 VAC 5-50-280, and Condition 11 of 10/23/09 PSD permit)

8. Fugitive emission 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, or equivalent, as approved by DEQ.
(9 VAC 5-80-490, 9 VAC 5-50-90, 9 VAC 5-80-260, and Condition 13 of 10/23/06 NSR Permit)

9. The dead coal storage pile shall be sprayed with a chemical binder as needed to prevent fugitive emissions.
(9 VAC 5-80-490, 9 VAC 5-170-160 and Condition 18 of 10/23/09 PSD Permit)

10. SO_2 emissions from the six (6) boilers (1A, 1B, 1C, 2A, 2B, and 2C) shall be controlled by a flue gas desulphurization system. The flue gas desulphurization system shall be provided with adequate access for inspection and shall be in operation as required to meet the permit limits specified in condition III.A.15. (9 VAC 5-80-490, 9 VAC 5-50-280, and Condition 8 of 10/23/09 PSD Permit)

11. The bottom ash system shall process no more than 95,000 tons, dry weight, of coal ash per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-490.B and Condition 7 of 10/23/06 NSR Permit)

12. The coal screening/classifier/crusher shall process no more than 430,992 tons of coal per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-490.B, Condition 8 of 10/23/06 NSR Permit)

13. The approved fuels for the six (6) boilers (1A, 1B, 1C, 2A, 2B, and 2C) is bituminous coal. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-490 B & C and Condition 12 of 10/23/09 PSD Permit)

14. The combined annual throughput of coal to boilers 1A, 1B, 1C, 2A, 2B, and 2C shall not exceed 430,992 tons. The combined annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-490, 9 VAC 5-80-110 B & C or 9 VAC 5-80-490 B & C, and Condition 3 of 10/23/09 PSD Permit)

15. Emissions from the operation of each of the boiler common stacks (Stack ID 001 and 002) shall not exceed the limits specified below:

	Permitted Limits				
Pollutant	**30 day rolling ave.**	**Lbs/hr**	**Tons/yr**	**Citation**	**Compliance Method**
PM	0.03 lbs/mmBTU	17.7	78	(9 VAC 5-50-280)	Methods 5, 17, 201a
Sulfur Dioxide	0.96 lbs/mmBTU	576	2523	(9 VAC 5-50-260)	CEMS (Direct Compliance)
Nitrogen Oxides (as NO_2)	0.60 lbs/mmBTU (NSPS Db)	360.0	1576.8	(9 VAC 5-50-260)	CEMS (Direct Compliance)
Carbon Monoxide	0.60 lbs/mmBTU	360.0	1579.8	(9 VAC 5-50-260)	Method 10
Volatile Organic Compounds	0.003 lbs/mmBTU	1.8	7.5	(9 VAC 5-50-260)	Methods 18, 25, 25a, 25b

Compliance shall be determined as stated in Conditions III.A.1, III.A.10, III.A.13, III.A.14, III.A.22, III.A.23, and III.C.8.

Note: Permitted limits above are equivalent to one another.

(9 VAC 5-80-490, and Condition 4 of 10/23/09 PSD Permit)

16. Emissions from the operation of coal barge unloader, coal storage load-in, and coal storage piles shall not exceed the limits specified below:

PM	0.22 lbs/hr	0.65 tons/yr	(9 VAC 5-50-260)

Compliance shall be determined as stated in Conditions III.A.4 and III.A.14.
(9 VAC 5-80-490, 9 VAC 5-170-160, 9 VAC 5-50-260, and Condition 5 of 10/23/09 PSD permit)

17. Emissions from the operation of each of the two (2) fly ash silo systems shall not exceed the limitations specified below:

PM	0.07 lbs/hr	0.30 tons/yr	(9 VAC 5-50-260)

Compliance shall be determined as stated in Conditions III.A.7 and III.A.14.
(9 VAC 5-80-490, 9 VAC 5-170-160, 9 VAC 5-50-260, and Condition 6 of 10/23/09 PSD permit)

18. Emissions from the operation of each of the six (6) coal storage bunkers shall not exceed the limitations specified below:

PM	0.005 lbs/hr	0.009 tons/yr	(9 VAC 5-50-260)

Compliance shall be determined as stated in Condition III.A.7 and III.A.14.
(9 VAC 5-80-490, 9 VAC 5-170-160, 9 VAC 5-50-260, and Condition 7 of 10/23/09 PSD permit)

19. The coal handling equipment (FS3, FS4, 1-2A, 1-2B, 1-2C, 2-2A, 2-2B, and 2-2C); Unit 1 ash system (1-3); and Unit 2 ash system (2-3) shall not exhibit opacity greater than 20% (6 minute average) except for one 6 minute period per hour of not more than 30% opacity.
(9 VAC 5-80-490, 9 VAC 5-50-80)

20. Visible emissions from each of the two (2) boiler stacks shall not exceed 20% percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 27% percent opacity.
(9 VAC 5-80-490, 9 VAC 5-50-410, 40 CFR 60.43b(f), 40 CFR 60.43b(g), and 40 CFR 60.49b(h)(3))

21. All air pollution control equipment operators shall be trained and certified in the proper operation of all such equipment. Portsmouth Genco LLC shall maintain records of the required training and certification. Certification of training shall consist of a statement of time, place and nature of training provided.
(9 VAC 5-80-490 B & C, 9 VAC 5-50-20 E , and General Condition 8 of 10/23/09 PSD Permit)

22. The NOx emission limitation expressed in lbs/mmBtu that is listed in Condition III.A.15 of this permit applies at all times including periods of startup, shutdown, or malfunction. The particulate emission limitation listed in Condition III.A.16 applies at all times except during periods of startup, shutdown, or malfunction. The opacity limitations listed in Condition III.A.20 of this permit apply at all times except during periods of startup, shutdown, or malfunction.
(9 VAC 5-80-490, 9 VAC 5-50-410, 40 CFR 60.43b(g), and 40 CFR 60.44b(i))

23. Compliance with the NOx emission limitation expressed in lbs/mmBtu and listed in Condition III.A.15 of this permit shall be determined on a 30-day rolling average basis. NOx excess emissions are defined as any calculated 30-day rolling average NOx emission rate expressed in lbs/mmBtu that exceeds the limitation in Condition III.A.15 of this permit.
(9 VAC 5-80-490, 9 VAC 5-50-410, 40 CFR 60.44b(i), and 40 CFR 60.49b(h)(4))

24. Boiler emissions from 1A, 1B, 1C, 2A, 2B, and 2C shall be controlled by proper operation using good combustion techniques, practices, and maintenance of the boilers and the associated pollution control equipment. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.
(9 VAC 5-80-490, 9 VAC 5-80-110)

25. Emissions from 1-2A, 1-2B, 1-2C, 2-2A, 2-2B, 2-2C (coal storage bunkers); Unit 1 Fly Ash system; Unit 2 Fly Ash system; and FS3 (coal unloading and stock out) shall be controlled by proper operation and maintenance of required control equipment listed in Conditions III.A.4 and III.A.7. The permittee shall have available written operating procedures for the related air pollution control equipment. Operators shall be trained in the proper operation of all such equipment and shall be familiar with the written operating procedures. These procedures shall be based on the manufacturer's recommendations, at minimum.
(9 VAC 5-80-490, 9 VAC 5-170-160 and 9 VAC 5-80-110 B.1.)

26. Boilers 1A, 1B, 1C, 2A, 2B, and 2C shall be operated in accordance with 40 CFR 60 Subpart Db.
(9 VAC 5-80-490, 9 VAC 5-50-410 and 40 CFR 60.40b)

27. The facility shall operate in compliance with Rule 6-5, Non-Criteria Pollutants. No changes in the facility that alter emissions of any non-criteria pollutant or cause the emission of additional non-criteria pollutants shall be made without the prior written approval of the Board.
(9 VAC 5-80-490, 9 VAC 5-50-305 and General Condition 15 of 10/23/09 PSD permit)

28. Visible emissions from the coal screening/classifier/crusher shall not exceed twenty (20) percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-490, 9 VAC 5-80-110, 40 CFR 60.252(c), and Condition 11 of 10/23/06 NSR Permit)

29. **MACT, Subpart ZZZZ** - All existing emergency compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 hp shall be in compliance with 40 CFR 63, Subpart ZZZZ by May 3, 2013. These units shall comply with the following requirements, as applicable:

    a) Emission limitations in 40 CFR 63.6602 (Table 2c).

    b) General compliance requirements in 40 CFR 63.6605.

    c) Monitoring, installation, collection, operation, and maintenance requirements in 40 CFR 63.6625(e), (f), (h), and (i).

    d) Continuous compliance requirements in 40 CFR 63.6640.

    e) Recordkeeping requirements in 40 CFR 63.6655 (except (c)) and 63.6660.

    f) Reporting requirements as specified in Footnote 1 of Table 2c.

    g) Requirements of the General Provisions listed in 40 CFR Subpart A, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).

    (9 VAC 5-80-110, 40 CFR 63.6602, 63.6605, 63.6625, 63.6640, 63.6645, 63.6655, and 63.6660)

B. Monitoring

1. For boilers 1A, 1B, 1C, 2A, 2B, and 2C, the permittee shall install, calibrate, maintain, and operate continuous monitoring systems for each common boiler stack (Stack ID 001 and 002) measuring the opacity of emissions discharged to the atmosphere and shall record the output of the systems. In addition, for boilers 1A, 1B, 1C, 2A, 2B, and 2C, the permittee shall install, calibrate, maintain, and operate continuous monitoring systems for each common boiler stack (Stack ID 001 and 002) measuring NOx emissions discharged to the atmosphere and shall record the output of the systems.
(9 VAC 5-80-490 E and Condition 16 of 10/23/09 PSD Permit)

2. The permittee shall check for visible emissions from each fabric filter exhaust for the Coal Screening/Classifier/Crusher System, the Bottom Ash System, and the Lime Silo during normal operation with a frequency of not less than once per operating week. Visible emissions from each fabric filter shall not exceed 20 percent opacity during any six minute period except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction. The presence of visible emissions shall indicate the need for corrective action. The permittee shall keep records of the observations including, but not limited to date, time, observation, observer's name, the acceptable range and corrective action, including but not limited to a brief description and date of completion.
(9 VAC 5-80-490, 9 VAC 5-50-80, 9 VAC 5-50-260, and Condition 10 of 10/23/06 NSR Permit)

3. Continuous Emission Monitoring Systems, meeting the design specifications of 40 CFR Part 72, shall be installed to measure and record the emissions of sulfur oxides from the Foster Wheeler boilers (units 1A, 1B, 1C, 2A, 2B, and 2C) as lbs/MMBtu through measurement at the common stack. The CEMS shall be installed, calibrated, maintained, audited and operated in accordance with the requirements of 40 CFR 72. A diluent cap of 5.0% CO2 will be substituted for any data collected under Part 60 or Part 75 programs when the hourly CO2 value is less than 5.0%. Data shall be reduced to units of lbs/MMBtu and compliance shall be evaluated on a 30-day rolling average basis.
(9 VAC 5-80-490, 9 VAC 5-50-40 and Condition 19 of 10/23/09 PSD Permit)

4. A CEMS/COMS quality control program that meets the requirements of 40 CFR 60.13 and Appendices B and F shall be implemented for all continuous monitoring systems. Alternatively, Part 75 requirements may be used for quality control of the CEMS as per 40 CFR 60.486(b)(2).
(9 VAC 5-80-490, 9 VAC 5-50-40, 40 CFR 75, Subpart B, § 75.10.b, 40 CFR 75, Appendix B, and Condition 20 of 10/23/09 PSD Permit)

5. The permittee shall check the zero (or low level value between 0 and 20% of span value) and span (50 to 100% of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span shall, as a minimum, be adjusted whenever the 24-hour zero drift or 24-hour span drift exceeds two times the limits of the applicable performance specification in 40 CFR 60 Appendix B. The systems shall allow the amount of excess zero and span drift measured at the 24-hour interval checks to be recorded and quantified. For continuous monitoring systems measuring opacity, the optical surfaces exposed to the effluent gases shall be cleaned prior to performing the zero and span drift adjustments except for systems using automatic zero adjustments. The optical surfaces shall be cleaned when the cumulative automatic zero compensation exceeds 4% opacity. For opacity measurements, minimum procedures shall include a method for producing a simulated zero opacity condition and upscale (span) opacity condition using a certified neutral density filter or other related technique to produce a known obscuration of the light beam. Such procedures shall provide a system check of the analyzer internal optical surfaces and all electronic circuitry including the lamp and photo detector assembly.
(9 VAC 5-80-490, 9 VAC 5-50-410, 40 CFR 60.13(d), and 9 VAC 5-50-100)

6. The span value for continuous monitoring systems for measuring opacity shall be between 60 and 80%. The span value for NOx monitoring systems shall be 500 ppm or adjusted as required by 40 CFR 75, Appendix A, Sections 2.1.2.1 and 2.1.2.3, whichever is lower.
(9 VAC 5-80-490, 9 VAC 5-50-410, 40 CFR 60.48b(e), 9 VAC 5-50-100)

7. Except for system breakdowns, repairs, calibration checks, and zero and span adjustments, all continuous emission monitoring systems and continuous opacity monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:

   a) For opacity, each system shall complete a minimum of one cycle of sampling and analyzing for each successive 10 second period and one cycle of data recording for each successive 6-minute period. This cycle of sampling, analyzing, and recording shall be considered a data point for opacity monitoring systems.

   b) All continuous monitoring systems except opacity shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. This cycle of sampling, analyzing, and recording shall be considered a data point for all monitoring systems other than opacity.

   For opacity, each system shall reduce all data to 6-minute averages. For NOx, each system shall reduce all data to 1-hour averages. The 6-minute opacity averages shall be calculated from 36 or more data points equally spaced over each 6-minute period. For NOx, at least 2 data points shall be used to calculate each 1-hour average, and the 1-hour average shall be expressed in lbs/million Btu heat input. These average hourly emission rates shall be used to calculate the average emission rates.
   (9 VAC 5-80-490, 9 VAC 5-50-410, 40 CFR 60.13(e), 40 CFR 60.13(h), 40 CFR 60.48b(d), and 9 VAC 5-50-100)

8. The NOx continuous emission monitoring systems shall be operated and data recorded during all periods of operation of the boilers except for continuous monitoring system breakdowns and repairs. Data shall be recorded during calibration checks, and zero and span adjustments.
   (9 VAC 5-80-490, 9 VAC 5-50-410, 40 CFR 60.48b(c), and 9 VAC 5-50-100)

9. The permittee shall determine compliance with the NOx standards expressed in lbs/mmbtu and listed in Condition III.A.15. on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate shall be calculated each steam generating unit operating day as the average of all hourly nitrogen oxides emission data for the preceding 30 steam generating unit operating days. A steam generating unit operating day shall be defined as a 24-hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time in the steam generating unit. It is not necessary for fuel to be combusted continuously for the entire 24-hour period.
   (9 VAC 5-80-490, 9 VAC 5-50-410, 40 CFR 60.46b(e)(2), and 9 VAC 5-50-100)

10. When NOx emissions data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, emission data shall be obtained by using standby monitoring systems, Method 7, Method 7a, or other approved reference methods to provide emission data for a minimum of 75% of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.
    (9 VAC 5-80-490, 9 VAC 5-50-410, 40 CFR 60.48b(f), and 9 VAC 5-50-100)

11. The fabric filters for the six (6) boilers (pollution control devices numbered 1A, 1B, 1C, 2A, 2B, and 2C) shall be equipped with a device to continuously measure the differential pressure drop across the fabric filter. The device shall be installed in an accessible location and shall be maintained and calibrated by the permittee in accordance with the manufacturer's specifications, at a minimum.
    (9 VAC 5-80-490, 9 VAC 5-50-280 and 9 VAC 5-80-110 B.1)

12. The differential pressure across each boiler baghouse (pollution control devices numbered 1A, 1B, 1C, 2A, 2B, and 2C) shall be recorded once every 12 hours while the associated boiler is operating under normal operating conditions. The permittee shall record the pressure drop as differential pressure, inches water column. If the pressure drop exceeds 10 inches water column, the following actions shall be taken:

a) The affected baghouse control panel shall be examined for any faults to ensure the baghouse pulse cleaning controls are operating properly. The permittee shall initiate a manual cleaning cycle to ensure the pulse cleaning controls are operating properly. The baghouse differential pressure indication shall be verified for accuracy during this time.

b) After the control panel has been checked for faults and for proper operation, the baghouse differential pressure shall be checked again. If the pressure drop is 10 inches water column or less, no further action shall be required. If the pressure drop is greater than 10 inches water column, the operator shall verify the boiler firing condition, to include even firing, proper excess boiler oxygen, and ash bed thickness.

c) If items (a) and (b) are completed and the baghouse pressure drop cannot be reduced to 10 inches water column or less at the existing boiler load, the operating level of the affected boiler shall be reduced to a level where the baghouse is operating at 10 inches water column or less. Items (a), (b), and (c) shall be carried out within 2 hours of the initial determination of the high baghouse pressure drop.

d) If no other action can reduce the differential pressure drop on the baghouse to 10 inches of water column or less, a particulate test using Method 5 shall be scheduled within 7 working days to verify the compliance status of the unit in regards to the particulate standards listed in Condition III.A.15 at the higher pressure drop. The Director, Tidewater Regional Office shall be notified of the day and time of the planned test. Until the emissions testing is performed and demonstrates compliance with the particulate emissions standards in Condition III.A.15, the affected boiler shall not be operated at a level that results in a baghouse differential pressure greater than 10 inches water column.

e) Performance test reports shall be submitted to the Director, Tidewater Regional Office, within 45 days of conducting the testing described in item (d). The reports shall document the baghouse pressure drop during each run of the test.

(9 VAC 5-80-490, 9 VAC 5-50-110 B.1)

13. Each coal bunker exhaust (1-2A, 1-2B, 1-2C, 2-2A, 2-2B, and 2-2C), each fly ash handling system exhaust (1-3 and 2-3), and the coal unloading and stock out (FS3) shall be observed visually at least once each calendar month while the equipment is being operated for a brief period of time. The permittee shall determine, during this time, whether or not the exhaust from any of this equipment has any visible emissions. Any monthly observation of equipment that determines the existence of any visible emissions shall be followed up with a 40 CFR 60, Appendix A, Method 9 visible emission evaluation unless the visible emission condition is corrected as expeditiously as possible such that there are no visible emissions present and recorded. The cause and corrective measures taken shall also be recorded. Records of the monthly determinations and any Method 9 evaluations performed shall be kept on hand for at least 5 years.
(9 VAC 5-80-490, 9 VAC 5-80-110)

14. An annual inspection of all internal and external components of the cyclones (1-3E and 2-3E) that serves vacuum system (1-3 and 2-3) shall be conducted by the permittee to insure structural integrity. The cyclone shall be provided with adequate access for inspection and shall be in operation when the bottom ash silo is operating.
(9 VAC 5-80-490, 9 VAC 5-50-80, 9 VAC 5-50-260, and Condition 12 of 10/23/06 NSR Permit)

C. Recordkeeping

1. The permittee shall develop, maintain, and have available to all operators good written operating procedures for all air pollution control equipment. A maintenance schedule for all such equipment will be established and made available to the Director, Tidewater Regional Office for review.
(9 VAC 5-80-490, 9 VAC 5-80-110, 9 VAC 5-50-50, and General Condition 9 of 10/23/09 PSD permit)

2. The permittee shall record and maintain records of the amounts of coal combusted during each day and calculate the annual capacity factor each calendar quarter. The annual capacity factor shall be determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.
(9 VAC 5-80-490, 9 VAC 5-50-410, 40 CFR 60.49b(d), and 9 VAC 5-50-50)

3. The permittee shall maintain records of opacity. The permittee shall also maintain records of the following information for each NOx monitoring system and for each steam generating unit operating day:

   a) Calendar date.

   b) Average measured hourly NOx emission rates in lbs/million Btu.

   c) 30-day average NOx emission rates in lbs/million Btu calculated at the end of each steam generating unit operating day from the measured hourly NOx emission rates for the preceding 30 steam generating unit operating days.

   d) Identification of days when the calculated 30-day averages of NOx are in excess of the standard, with reasons for each excess emissions as well as a description of corrective actions taken.

   e) Identification of days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.

   f) Identification of time when emissions data have been excluded from the calculation of average emission rates and the reasons for excluding data.

   g) Identification of the F factor used for calculations, method of determination, and type of fuel combusted.

   h) Identification of times when pollutant concentrations exceeded full span of the continuous monitoring system.

   i) Description of modifications to continuous emission monitoring systems that could affect the ability of the system to comply with 40 CFR 60, Appendix B, Performance Specification 2 or 3.

   j) Results of daily continuous emission monitoring systems' drift tests and quarterly accuracy assessments as required under 40 CFR 60, Appendix F, Procedure 1.

   (9 VAC 5-80-490, 9 VAC 5-50-410, 40 CFR 60.49b(g), and 9 VAC 5-50-50)

4. The permittee shall maintain records of pressure drop across each baghouse for boilers 1A, 1B, 1C, 2A, 2B, and 2C. In addition, the permittee shall maintain records of maintenance performed on these baghouses as a result of the pressure drop exceeding 10 inches water column. Any actions taken which are not described in Condition III.B.12 shall be noted as such. The permittee shall maintain copies of any testing performed to determine compliance as stated in Condition III.B.12.
(9 VAC 5-80-490, 9 VAC 5-80-110, and 9 VAC 5-50-280)

5. The permittee shall maintain records of all required training including a statement of time, place, and nature of training provided. The permittee shall have available good written operating procedures and a maintenance schedule for each piece of operating equipment and control equipment listed in Conditions III.A.4 and III.A.7. The procedures and training shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ.
(9 VAC 5-80-490, 9 VAC 5-80-110, and 9 VAC 5-50-280)

6. The permittee shall maintain records of all times when the pugmill was not operational or malfunctioning during ash loading operations and of all times when wet suppression was needed but was not used during coal handling operations.
(9 VAC 5-80-490 and 9 VAC 5-80-110)

7. The permittee shall maintain records of monthly visible emission examinations as required by Conditions III.B.13.
(9 VAC 5-80-490, 9 VAC 5-80-110)

8. The permittee shall maintain records of the DEQ-approved, pollutant-specific emission factors, equipment ratings, and the equations used to demonstrate compliance with the VOC, CO, and PM_{10} limitations contained in Condition III.A.15 as well as the calculated actual emission rates from boilers 1A, 1B, 1C, 2A, 2B, and 2C. Additionally, the permittee shall maintain records of the results of the testing required for these pollutants in Condition III.D.3.
(9 VAC 5-80-490, 9 VAC 5-80-110)

9. The permittee shall maintain all records required by Conditions III.C.1 through III.C.8. The format of these records shall be arranged with the Director, Tidewater Regional Office. All records shall be kept on site for a minimum of five years.
(9 VAC 5-80-490, 9 VAC 5-50-410 and 9 VAC 5-80-110 F)

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

    a) Annual throughput of coal ash from the bottom ash system (1-4), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

    b) Annual throughput of coal from the screener, classifier, crusher system (FS-4), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

    c) Operation and control device monitoring records for the baghouses as required in Condition III.B.2.

    d) Scheduled and unscheduled maintenance and operator training.

    These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
    (9 VAC 5-80-490, 9 VAC 5-80-110, 9 VAC 5-50-50, and Condition 14 of 10/23/06 NSR Permit)

11. The permittee shall comply with the reporting and recordkeeping provisions of NSPS Subpart Db, 40 CFR 60.46.b.
(9 VAC 5-80-490, 9 VAC 5-50-410 and 40 CFR 60.46.b)

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, 9 VAC 5-50-30, 9 VAC 5-80-110, and General Condition 5 of 10/23/09 PSD Permit)

2. In order to facilitate continuing compliance measurements, test ports shall be provided in both common boiler stacks.
(9 VAC 5-80-490, 9 VAC 5-50-30, 9 VAC 5-80-110, and General Condition 14 of 10/23/09 PSD Permit)

3. Performance tests shall be conducted for PM, CO, and VOC on one stack, while the three boilers exhausting to that stack are operating at a minimum of 80% of their maximum rated capacity, to determine compliance with the emission limits contained in Condition III.A.15. The tests shall be performed, and demonstrate compliance, upon renewal of this permit. 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 as listed below in Condition III.D.5. The details of the tests are to be arranged with the Director, Tidewater Regional Office. Test report information shall contain a record of the pressure drop across the fabric filter associated with each boiler being tested for each test run. The permittee shall submit a test protocol at least thirty days prior to testing. Two copies of the test results shall be submitted to the Director, Tidewater Regional Office within 45 days after test completion.
(9 VAC 5-80-490, 9 VAC 5-50-30 and 9 VAC 5-80-110)

4. The screener/classifier and crusher (FS-4) shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods as specified in 40 CFR 60.254(b)(2). Sampling ports shall be provided when requested at the appropriate locations and safe sampling platforms and access shall be provided.
(9 VAC 5-80-490, 9 VAC 5-50-30 F and Condition 15 of 10/23/06 NSR Permit)

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

Table III.D.1 Boilers 1A, 1B, 1C, 2A, 2B, and 2C

Pollutant	Test Method	Applicable Requirement
VOC	40 CFR 60, Appendix A, EPA Methods 18, 25, 25a, 25b	9 VAC 5-50-30
NO_x	40 CFR 60, Appendix A, EPA Method 7 or NO_x monitoring system	40 CFR 60.46b(e)(2)
SO_2	40 CFR 60, Appendix A, EPA Method 6, 6c or SO_2 monitoring system	9 VAC 5-50-30
CO	40 CFR 60, Appendix A, EPA Method 10	9 VAC 5-50-30
PM/PM_{10}	40 CFR 60, Appendix A, EPA Method 5, 17, 201a	40 CFR 60.46b(d)(2)(i)
Opacity	40 CFR 60, Appendix A, EPA Method 9	40 CFR 60.46b(d)(7)

(9 VAC 5-80-490, 9 VAC 5-80-110)

E. Reporting

1. The permittee shall submit excess emission reports of opacity for any calendar quarter during which there are excess emissions from the affected facility. If there are no excess emissions during the calendar quarter, the permittee shall submit a report semi-annually stating no excess emissions occurred. The reports shall be submitted to the Director, Tidewater Regional Office.
(9 VAC 5-80-490, 9 VAC 5-50-410 and 40 CFR 60.49b(h))

2. The permittee shall furnish written reports to the Director, Tidewater Region of excess emissions from any process monitored by a continuous monitoring system (COMS/CEMS) on a quarterly basis, postmarked no later than the 30th day following the end of the calendar quarter. These reports shall include, but are not limited to the following information:

   a) The magnitude of excess emissions, any conversion factors used in the calculation of excess emissions, and the date and time of commencement and completion of each period of excess emissions;

   b) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the process, the nature and cause of the malfunction (if known), the corrective action taken or preventative measures adopted;

   c) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and

   d) When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated.
   (9 VAC 5-80-490, 9 VAC 5-50-50 and Condition 21 of 10/23/09 PSD Permit)

3. The permittee shall submit a quarterly report to the Director, Tidewater Regional Office and shall contain:

   a) Information listed in Condition III.C.3 for NOx,

   b) Instances of pressure drop across any baghouse that was outside the range described in Condition III.C.4,

   c) Instances where the pugmill was malfunctioning or was not in use during ash loading, instances where the wet suppression system was malfunctioning or not in use during coal handling operations,

   d) Instances when Method 9 visible emissions evaluations, as required by Conditions III.B.13, show violations of the applicable opacity standards.

   e) The minimum information required for these instances are the time, date, location, description, and corrective action taken for each instance.

   (9 VAC 5-80-490, 9 VAC 5-50-410, 9 VAC 5-80-110, and 40 CFR 60.49b(h)(4)(i))

4. The permittee shall ensure that all quarterly reports are postmarked by the 30th day following the end of each calendar month.

   One copy of the semi-annual report shall be submitted to the U.S. Environmental Protection Agency at the address specified below:

   Associate Director
   Office of Air Enforcement (3AP10)
   U.S. Environmental Protection Agency
   Region III
   1650 Arch Street
   Philadelphia, PA 19103-2029

   (9 VAC 5-80-490, 9 VAC 5-50-410 and 40 CFR 60.49b(h)(4)(i))

IV. 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[1] (9 VAC_)	Pollutant Emitted (5-80-720 B.)	Rated Capacity (5-80-720 C.)
1-4	Turbine lube oil tank vent	Emissions level 9 VAC 5-80-720 B	VOC	n/a
2-4	Turbine lube oil tank vent	Emissions level 9 VAC 5-80-720 B	VOC	n/a
1-5	Cooling tower	9 VAC 5-80-720 A	PM	n/a
2-5	Cooling tower	9 VAC 5-80-720 A	PM	n/a
6	Diesel fuel storage tank	Emissions level 9 VAC 5-80-720 B	VOC	n/a
SK	Parts cleaner	Named activity 9 VAC 5-80-720 A 24		35 gals <0.07 tpy
7	Oil/Water separator	Named activity 9 VAC 5-80-720 A 41		Emergency use only < 5.0 tpy

[1]The citation criteria for insignificant activities are as follows:
9 VAC 5-80-720 A - Listed Insignificant Activity, Not Included in Permit Application
9 VAC 5-80-720 B - Insignificant due to emission levels
9 VAC 5-80-720 C - Insignificant due to size or production rate

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, monitoring, recordkeeping and reporting shall not be required for these emission units in accordance with 9 VAC 5-80-110.

V. Permit Shield & Inapplicable Requirements

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

Citation	Title of Citation	Description of Non Applicability
40 CFR 60.42b	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units – Standard for Sulfur Dioxide	This section of 40 CFR 60 Subpart Db does not apply to the permittee since the construction of the boilers commenced after June 18, 1984 but on or before June 19, 1986.

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 5-80-490, 9 VAC 5-80-140)

VI. 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, 9 VAC 5-80-490 N)

B. Permit Expiration

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

   a) 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.

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

   c) No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-430 for a renewal permit, except in compliance with a permit issued under Article 3, Part II of 9 VAC 5 Chapter 80.

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

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

   (9 VAC 5-80-490, 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 F)

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

3. The permittee shall submit the results of monitoring contained in any applicable requirement to 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 5-80-430 G and shall include:

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

   b) All deviations from permit requirements. For purposes of this permit, a deviation includes, but 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 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." The time period included in the report.

   (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 VAC 5-80-430 G, and shall include:

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

2. A description of the means for assessing or monitoring the compliance of the source with its emissions limitations, standards, and work practices.

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

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

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

6. The status of compliance with the terms and conditions of this permit for the certification period.

7. 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 sent to EPA at 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, Tidewater 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. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition VI.C.3.b. 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 discovery, notify the Director, Tidewater Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14-days provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Tidewater Regional Office.
(9 VAC 5-80-490, 9 VAC 5-20-180 C)

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

2. The emission units subject to the reporting and the procedure requirements of 9 VAC 5-40-50 C and the procedures of 9 VAC 5-50-50 C are listed below:

   a) Boiler 1A

   b) Boiler 1B

   c) Boiler 1C

   d) Boiler 2A

   e) Boiler 2B

   f) Boiler 2C

3. Each owner required to install a continuous monitoring system subject to 9 VAC 5-40-41 or 9 VAC 5-50-410 shall submit a written report of excess emissions (as defined in the applicable emission standard) to the board for every calendar quarter. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter and shall include the following information:

a) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h) or 9 VAC 5-40-41 B 6, any conversion factors used, and the date and time of commencement and completion of each period of excess emissions;

b) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the source. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted;

c) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and

d) When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.

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

(9 VAC 5-80-490, 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, or 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 5-80-1790, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9 VAC 5-80-490 G and 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 5-80-430 G.9. (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 5-80-360 through 9 VAC 5-80-700 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 et seq. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to 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, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

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

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

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

(9 VAC 5-80-490, 9 VAC 5-40-20 E, 9 VAC 5-50-90, and 9 VAC 5-50-50)

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 5-80-490, 9 VAC 5-40-20 E, and 9 VAC 5-50-20 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 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80 Article 3.
(9 VAC 5-80-490 J)

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 or more years. Such a reopening shall be completed not 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.

(9 VAC 5-80-490 L)

S. 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 5-80-490, 9 VAC 5-80-510 G)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another or from one piece of equipment to another. (9 VAC 5-80-490, 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 5-80-490, 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 5-80-490, 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.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.

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

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

(9 VAC 5-80-490, 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 submits such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9 VAC 5-80-490, 9 VAC 5-80-430 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substance subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(9 VAC 5-80-490, 40 CFR Part 82, Subparts A - F)

Y. Asbestos Requirements

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

Z. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(9 VAC 5-80-490, 40 CFR Part 68)

AA. 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)

BB. Emissions Trading

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

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

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

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

(9 VAC 5-80-490 I)

VII. Title IV Opt-in Permit Allowances and Requirements

Opt-in Acid Rain Application - The attached Opt-in permit application 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 and 40 CFR 74, Subpart B, § 74.10)

B. SO2 Allowance Allocations and Requirements for affected units

(9 VAC 5-80-490 A.4 and 40 CFR 74, Subpart C)

		2012	2013	2014	2015	2016
Boiler 01A	SO_2 allowances, under Table 2, 40 CFR Part 73. (tons)	1077	1077	1077	1077	1077

[1] See Sub section C.1

		2012	2013	2014	2015	2016
Boiler 01B	SO_2 allowances, under Table 2, 40 CFR Part 73. (tons)	1094	1094	1094	1094	1094

[1] See Sub section C.1

		2012	2013	2014	2015	2016
Boiler 01C	SO_2 allowances, under Table 2, 40 CFR Part 73. (tons)	1112	1112	1112	1112	1112

[1] See Sub section C.1

		2012	2013	2014	2015	2016
Boiler 02A	SO_2 allowances, under Table 2, 40 CFR Part 73. (tons)	1080	1080	1080	1080	1080

[1] See Sub section C.1

		2012	2013	2014	2015	2016
Boiler 02B	SO_2 allowances, under Table 2, 40 CFR Part 73. (tons)	1082	1082	1082	1082	1082

[1] See Sub section C.1

		2012	2013	2014	2015	2016
Boiler 02C	SO_2 allowances, under Table 2, 40 CFR Part 73. (tons)	1083	1083	1083	1083	1083

[1] See Sub section C.1

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

1. Additional Requirements:

   a) Portsmouth Genco LLC shall submit a complete permit application that includes all of the information required under 40 CFR §74.19 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 and 40 CFR 74, Subpart B, § 74.19)

2. Notes.

   a) SO_2 allowances may be acquired from other sources in addition to those allocated by U.S. EPA. No revision to this permit is necessary in order for the owners and operators of this unit to hold additional allowances recorded in accordance with 40 CFR Part 73. The owners and operators of this unit remain obligated to hold sufficient allowances to account for SO_2 emissions from this unit in accordance with 40 CFR 72.9(c)(1).
   (9 VAC 5-80-420 C.1 and H.1 and 9 VAC 5-80-490 O)

   b) The provision that participation of a combustion or process source in the Acid Rain Program may be terminated only in accordance with §74.18 (withdrawal), §74.46 (shutdown, reconstruction, or change in affected status), and §74.50 (deducting allowances).
   (40 CFR 74.12(c)(4))

   c) Per 40 CFR 72.6(b)(1) (as applied to cogeneration units that sell below 219,000 MWe-hrs of electricity or 1/3 of their potential electrical output capacity to the grid on an annual, 3-year rolling average basis.), the permittee is exempt from the Acid Rain Program but elected to opt-in to the program.
   (40 CFR 72.6(b)(1))

VIII. Clean Air Interstate Rule (CAIR)

The permittee shall comply with all applicable CAIR requirements (9 VAC 5-140-1010 *et seq.*, 9 VAC 5-140-2010 *et seq.*, 9 VAC 5-140-3010 *et seq.*, 9 VAC 5-140-5010 *et seq.*, and 40 CFR Part 96) by the compliance date in the respective Part of 9 VAC 5 Chapter 140.
(9 VAC 5-80-490, 40 CFR Part 96 and 9 VAC 5 Chapter 140)

IX. 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.

1. 9 VAC 5, Chapter 50, Part II, Article 2, Standards of Performance for Odorous Emissions

2. 9 VAC 5, Chapter 50, Part II, Article 3, Standards of Performance for Toxic Emissions

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

Cogentrix

Cogentrix Virginia Leasing Corporation
One Wild Duck Lane
Portsmouth VA 23703
Tel 757-484-3570
Fax 757-484-7338

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June 27, 2007

Ms. Jane Workman
Air Permit Manager
Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Blvd.
Virginia Beach, VA 23462

Subject: CAIR Permit Application
Facility I.D. No. 51-740-00081, Reg. No. 61049
Cogentrix Virginia Leasing Corporation

Dear Ms. Workman,

Please find enclosed with this letter a completed original CAIR Permit Application and Form 7 General Information pages 1-3 for the subject facility.

Please call me at (757) 484-3540 if you have any questions or require additional information.

Sincerely,

Gary Hughes

Gary Hughes
General Manager

cc:
Mr. Jerome Curtin - USEPA Region III
Lauren Billheimer – Cogentrix Air Quality Manager
Plant Files – EHS PM 2.4.1

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

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

This submission is: ☒ New ☐ Revised

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

Plant Name Cogentrix Virginia Leasing Corporation - Portsmouth State VA ORIS/Facility Code 10071

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

Unit ID#	NO_X Annual	SO_2	NO_X Ozone Season
BLR01A	✓	✓	✓
BLR01B	✓	✓	✓
BLR01C	✓	✓	✓
BLR02A	✓	✓	✓
BLR02B	✓	✓	✓
BLR02C	✓	✓	✓

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

Standard Requirements

(a) Permit Requirements.

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

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

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

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

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

STEP 3, continued

(b) Monitoring, reporting, and recordkeeping requirements.

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

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

(c) Nitrogen oxides emissions requirements.

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

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

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

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

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

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

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

Sulfur dioxide emission requirements.

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

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

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

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

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

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

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

Nitrogen oxides ozone season emissions requirements.

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

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

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

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

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

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

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

STEP 3, continued

(d) Excess emissions requirements.

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

(1) The owners and operators of the source and each CAIR NO_X unit at the source shall surrender the CAIR NO_X allowances required for deduction under §96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and

(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

If a CAIR SO_2 source emits sulfur dioxide during any control period in excess of the CAIR SO_2 emissions limitation, then:

(1) The owners and operators of the source and each CAIR SO_2 unit at the source shall surrender the CAIR SO_2 allowances required for deduction under §96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and

(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

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

(1) The owners and operators of the source and each CAIR NO_X Ozone Season unit at the source shall surrender the CAIR NO_X Ozone Season allowances required for deduction under §96.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and

(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

(e) Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X Ozone Season source (as applicable) and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the Administrator.

(i) The certificate of representation under §96.113, §96.213, and §96.313 (as applicable) for the CAIR designated representative for the source and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under §96.113, §96.213, and §96.313 (as applicable) changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96, provided that to the extent that subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96 provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_X Annual Trading Program, CAIR SO_2 Trading Program, and CAIR NO_X Ozone Season Trading Program (as applicable).

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO_X Annual Trading Program, CAIR SO_2 Trading Program, and CAIR NO_X Ozone Season Trading Program (as applicable) or to demonstrate compliance with the requirements of the CAIR NO_X Annual Trading Program, CAIR SO_2 Trading Program, and CAIR NO_X Ozone Season Trading Program (as applicable).

(2) The CAIR designated representative of a CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X Ozone Season source (as applicable) and each CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) at the source shall submit the reports required under the CAIR NO_X Annual Trading Program, CAIR SO_2 Trading Program, and CAIR NO_X Ozone Season Trading Program (as applicable) including those under subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96.

(f) Liability.

(1) Each CAIR NO_X source, CAIR SO_2 source, and CAIR NO_X Ozone Season source (as applicable) and each NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) shall meet the requirements of the CAIR NO_X Annual Trading Program, CAIR SO_2 Trading Program, and CAIR NO_X Ozone Season Trading Program (as applicable).

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

(3) Any provision of the CAIR NO_X Annual Trading Program, CAIR SO_2 Trading Program, and CAIR NO_X Ozone Season Trading Program (as applicable) that applies to a CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) or the CAIR designated representative of a CAIR NO_X unit, CAIR SO_2 unit, and CAIR NO_X Ozone Season unit (as applicable) shall also apply to the owners and operators of such unit.

Plant Name (from Step 1) Cogentrix Virginia Leasing Corporation - Portsmouth

STEP 3, continued

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

Certification

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

Name	Lauren Billheimer		
Signature	Lauren Billheimer	Date	6/25/07

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality

CHECK ALL FORMS THAT APPLY AND LIST ALL ATTACHED DOCUMENTS.

MAP AND LOCALITIES LIST (information), Pages iii-vi

CONFIDENTIAL INFORMATION, Page vii-viii

FORMULA-BASED HAZARDOUS AIR POLLUTANT INFORMATION, Page ix

HAZARDOUS AIR POLLUTANT LIST (information), Pages xi-xii

__ REQUEST FOR LOCAL GOVERNMENT CERTIFICATION FORM, Page xiii

__ CONTENTS AND DOCUMENT CERTIFICATION, Page 1

__ GENERAL INFORMATION, Page 2

__ GENERAL INFORMATION (continued), Page 3

__ FUEL-BURNING EQUIPMENT, Page 4

__ PROCESSING, Page 5

__ INKS, COATINGS, STAINS, AND ADHESIVES, Page 6

__ INCINERATORS, Page 7

__ VOLATILE ORGANIC COMPOUND/PETROLEUM STORAGE TANKS, Page 8

__ VOLATILE ORGANIC COMPOUND/PETROLEUM STORAGE TANKS - CONTINUED, Page 9

__ LOADING RACKS AND OIL-WATER SEPARATORS, Page 10

__ STACK PARAMETERS AND FUEL DATA, Page 11

__ AIR POLLUTION CONTROL AND MONITORING EQUIPMENT, PAGE 12

__ AIR POLLUTION CONTROL/SUPPLEMENTAL INFORMATION, PAGE 13

__ PROPOSED MAXIMUM CRITERIA POLLUTANT EMISSIONS, Page 14

__ PAST ACTUAL ANNUAL CRITERIA POLLUTANT EMISSIONS, Page 15

__ TOXIC OR HAP EMISSIONS, Page 16

__ OTHER REGULATED EMISSIONS, Page 17

__ OPERATING PERIODS, Page 18

LIST ATTACHED DOCUMENTS

__ MAP of SITE LOCATION

__ FACILITY SITE PLAN

__ PROCESS FLOW DIAGRAM/SCHEMATIC

__ MSDS or CPDS SHEETS

__ ESTIMATED EMISSIONS CALCULATIONS

__ STACK TESTS

__ AIR MODEL DATA

1 CAIR Application

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: Gary Hughes DATE: 6-26-07

NAME: Gary Hughes

TITLE: General Manager REGISTRATION

COMPANY: Cogentrix Va. Leasing Corp. NUMBER: 61049

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
Randy Musselwhite	6-26-07	61049

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

☐ STATE OPERATING PERMIT — THIS PERMIT IS APPLIED FOR PURSUANT TO PROVISIONS OF THE VIRGINIA ADMINISTRATIVE CODE, 9 VAC 5 Chapter 80, Article 5 (SOP)

☐ NEW (Greenfield) SOURCE
☐ MODIFICATION of a SOURCE
☐ RELOCATION of a SOURCE

THIS PERMIT IS APPLIED FOR PURSUANT TO THE FOLLOWING PROVISION(S) OF THE VIRGINIA ADMINISTRATIVE CODE:
- ☐ 9 VAC 5 Chapter 80, Art. 6 (MINOR SOURCES)
- ☐ 9 VAC 5 Chapter 80, Art. 8 (PSD MAJOR SOURCES)
- ☐ 9 VAC 5 Chapter 80, Art. 9 (NON-ATTAINMENT MAJOR SOURCES)

☐ Non-Binding Letter of EXEMPTION

☐ AMENDMENT to a Permit dated: _____ Permit type: ☐ SOP (Art.5) ☐ NSR (Art.6)

Amendment Type:
- ☐ Administrative Amendment
- ☐ Minor Amendment
- ☐ Significant Amendment

THIS AMENDMENT IS REQUESTED PURSUANT TO THE PROVISIONS OF:
- ☐ 9 VAC 5-80-970 (SOP Adm.) ☐ 9 VAC 5-80-1270 (NSR Adm.)
- ☐ 9 VAC 5-80-980 (SOP Minor) ☐ 9 VAC 5-80-1280 (NSR Minor)
- ☐ 9 VAC 5-80-990 (SOP Sig.) ☐ 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): CAIR Application

COMPANY AND DIVISION NAME: Cogentrix Virginia Leasing Corporation – Portsmouth		
MAILING ADDRESS: One Wild Duck Lane Portsmouth, VA 23703		
TELEPHONE NUMBER: 757-484-3540	NUMBER OF EMPLOYEES AT SITE: 40	PROPERTY AREA AT SITE: 11.91 acres
EXACT SOURCE LOCATION – INCLUDE NAME OF CITY (COUNTY) AND FULL STREET ADDRESS OR DIRECTIONS: One Wild Duck Lane Portsmouth, Virginia		
PERSON TO CONTACT ON AIR POLLUTION MATTERS – NAME AND TITLE: Randy Musselwhite Compliance Supervisor – Environment, Health & Safety	PHONE NUMBER: 757-484-3540 x39 FAX NUMBER: 757-484-7338 E-MAIL ADDRESS: randymusselwhite@cogentrix.com	

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

FOR OFFICIAL USE ONLY

COUNTY CODE: 740	PLANT ID NUMBER: 10071	LAT/LONG: 365213/0762107

COMPANY NAME	DATE	REGISTRATION NUMBER
Cogentrix Virginia Leasing Corporation-Portsmouth	6-26-07	61049

FOR PORTABLE PLANTS:

IS THIS FACILITY DESIGNED TO BE PORTABLE? ☐ YES ☒ NO

- IF YES, IS THIS FACILITY ALREADY PERMITTED AS A PORTABLE PLANT? ☐ YES ☐ NO PERMIT DATE: _____

IF NOT PERMITTED, IS THIS AN APPLICATION TO BE PERMITTED AS A PORTABLE PLANT? ☐ YES ☐ NO

IF PERMITTED AS A PORTABLE FACILITY, IS THIS A NOTIFICATION OF RELOCATION? ☐ YES ☐ NO

- DESCRIBE THE NEW LOCATION OR ADDRESS (INCLUDE A SITE MAP): _____

- WILL THE PORTABLE FACILITY BE CO-LOCATED WITH ANOTHER SOURCE? ☐ YES ☐ NO REG. NO.: _____
- WILL THE PORTABLE FACILITY BE MODIFIED OR RECONSTRUCTED AS A RESULT OF THE RELOCATION? ☐ YES ☐ NO
- WILL THERE BE ANY NEW EMISSIONS OTHER THAN THOSE ASSOCIATED WITH THE RELOCATION? ☐ YES ☐ NO
- IS THE FACILITY SUITABLE FOR THE AREA TO WHICH IT WILL BE LOCATED? (ATTACH DOCUMENTATION.) ☐ YES ☐ NO

DESCRIBE THE PRODUCTS MANUFACTURED AND/OR SERVICES PERFORMED AT THIS FACILITY:

This is a cogeneration facility, burning solid fuels to produce steam. A portion of the steam is sold to a nearby industrial host for process use. The remainder of the steam is used to drive a turbine-generator to produce electricity. The electricity is sold to the connected utility.

LIST THE STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE(S) FOR THE FACILITY:

4911

LIST THE NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS) CODE(S) FOR THE FACILITY:

221112

PLEASE LIST ALL THE FACILITIES IN VIRGINIA UNDER COMMON OWNERSHIP OR CONTROL BY THE OWNER OF THIS FACILITY:

James River Cogeneration Company
Spruance Genco

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

MILESTONES*	STARTING DATE	ESTIMATED COMPLETION DATE
New equipment installation		
Modification of existing process or equipment		
Start-up dates		

*For new or modified installations to be constructed in phased schedule, give construction/installation starting and completion date for each phase.

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Expires 1-31-96

EPA

Opt-In Permit Application

For more information, see instructions and refer to 40 CFR 74.16

STEP 1
Identify the facility by plant name, State, ORIS code from NADB (if known), and operator's name.

Plant Name	State	ORIS Code
COGENTRIX - PORTSMOUTH	VA	10071

Operating Company Name: COGENTRIX VIRGINIA LEASING CORP.

STEP 2
Identify the combustion source by unique ID number and short name assigned by the operating company.

Combustion Source ID#: BLR01A

Short Name: Boiler 01A

JAN 2007
DEQ TIDEWATER REGIONAL OFFICE

STEP 3
Enter the requested information on the location of the source.

Plant Site Address: 1 WIND DUCK LANE
PORTSMOUTH, VA 23703

County	Latitude	Longitude
PORTSMOUTH CITY	36 52 13	076 21 07

Plant Mailing Address: SAME AS ABOVE

STEP 4
Check the appropriate box.

Has the combustion source previously participated in the Opt-In Program?

☐ Yes ☒ No

If Yes, enter the effective date of the most recent opt-in permit ——→ mm/dd/yy

STEP 5
Briefly describe the combustion source and the facility. Attach the required information.

General facility description: COGENERATION FACILITY CONSISTING OF 2 ELECTRIC STEAM GENERATING UNITS. ELECTRICITY IS SOLD UNDER LONG TERM CONTRACT TO CONNECTED UTILITY WITH STEAM SOLD TO CONNECTED INDUSTRIAL HOST.

Combustion source description: FACILITY HAS SIX STOKER BOILERS. 3 BOILERS ARE COMBINED TO SUPPLY STEAM TO A TURBINE-GENERATOR AND EXHAUST TO A COMMON STACK, FOR TOTAL OF 2 GENERATING UNITS.

☒ A diagram showing the configuration of the combustion source and the facility is attached.

EPA Form 7610-26 (4-95)

Date: 1/16/07

COGENTRIX - PORTSMOUTH
Plant Name (from Step 1)

BLR 01A
Combustion Source ID#

STEP 6
Indicate whether the combustion source has SO_2 controls.

☐ Scrubber ☒ Other Controls (specify): FUEL SULFUR LIMIT (BACT) ☐ Uncontrolled

STEP 7
Check the top box and the second or third box and attach the required information.

☒ Two copies of a complete Monitoring Plan (as required by 40 CFR parts 74 and 75) are attached.

☒ A completed Certificate of Representation is attached.

☐ A completed Certificate of Representation has been previously submitted.

STEP 8
Specify the compliance plan for the combustion source. Check the second box to identify an additional method of compliance.

☒ Hold allowances in accordance with 40 CFR 72.9(c)(1).

☐ A Thermal Energy Plan is attached. This combustion source seeks to transfer allowances to one or more replacement units for the replacement of thermal energy.

STEP 9
Provide the required information on the operating history of the combustion source. Indicate that the required documentation is attached.

Date the combustion source commenced operation → 06/88 mm/yy

Number of hours the combustion source operated during the six months immediately preceding this application → 3982 hrs

Preceding six months of operation → Start 07/06 mm/yy - End (Date of Application) 12/06 mm/yy

☒ Data supporting determination of operating hours are attached.

STEP 10
Identify the time period for which the baseline data is provided.

☐ Baseline 1985 -1987

☒ Alternative Baseline, beginning with → 1989 year

☒ Combustion source began operation after 1985.

☐ Combustion source was subject to natural catastrophe during 1985-1987. Documentation of natural catastrophe is attached.

STEP 11
Complete and attach one worksheet for each type of fuel used at the combustion source.

Number of completed worksheets attached → 1 worksheets

1/16/07
Date

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Expires 1-31-96

Plant Name (from Step 1): Cogentrix - Portsmouth

Combustion Source ID# (from Step 2): BLR01A

Opt-In Permit Application Worksheet

For more information, see instructions and refer to 40 CFR 74.20-74.22

Type of Fuel: Coal

Heat Content Units: Btu/lb

Control System Efficiency: ϕ %

Fuel Units: Kton

SO_2 Emissions Factor: 30,069 lb/kton

Fuel Pretreatment Efficiency: ϕ %

	(a)				(b)				(c)				(d)
	1985/1st Operating Year: 1989				1986/2nd Operating Year: 1990				1987/3rd Operating Year: 1991				1985/1st Year
	Quantity	% S	Heat Content	Fuel Consumption	Quantity	% S	Heat Content	Fuel Consumption	Quantity	% S	Heat Content	Fuel Consumption	SO_2 Emissions
Jan				mmBtu				mmBtu				mmBtu	lbs
Feb				mmBtu				mmBtu				mmBtu	lbs
Mar				mmBtu				mmBtu				mmBtu	lbs
Apr				mmBtu				mmBtu				mmBtu	lbs
May				mmBtu				mmBtu				mmBtu	lbs
June				mmBtu				mmBtu				mmBtu	lbs
July				mmBtu				mmBtu				mmBtu	lbs
Aug				mmBtu				mmBtu				mmBtu	lbs
Sep				mmBtu				mmBtu				mmBtu	lbs
Oct				mmBtu				mmBtu				mmBtu	lbs
Nov				mmBtu				mmBtu				mmBtu	lbs
Dec				mmBtu				mmBtu				mmBtu	lbs
ANNUAL	70.637	0.771	12678	1,791,259 mmBtu	72.376	0.713	12688	1,836,312 mmBtu	74.205	0.665	12729	1,888,998 mmBtu	

SEE ATTACHED SHEET

Total these values for each worksheet and transfer each total to Step 12 of the Opt-in Permit Application

1985/1st Operating Year Fuel Consumption	Average Annual Fuel Consumption	1985/1st yr SO_2 Emissions
1,791,259 mmBtu	1,838,856 mmBtu	2,123,984 lbs

EPA Form 7610-26W (4-95)

CVLC - Portsmouth
Historical Data for Opt-In Baseline
BLR01A

	1989				1990				1991			
	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)
	6.216	0.786	12678	157,604	6.537	0.669	12722	166,319	6.474	0.688	12623	163,451
	4.383	0.746	12677	111,135	5.606	0.758	12715	142,569	5.314	0.651	12710	135,073
	6.343	0.704	12670	160,732	6.052	0.743	12722	153,996	6.367	0.694	12609	160,563
	5.569	0.691	12702	141,475	5.643	0.763	12786	144,303	6.235	0.653	12718	158,602
	6.007	0.74	12668	152,202	6.342	0.784	12561	159,315	6.241	0.671	12918	161,234
	5.451	0.807	12609	137,472	5.958	0.705	12680	151,103	5.599	0.667	12737	142,637
	5.990	0.71	12620	151,179	6.181	0.732	12567	155,345	6.519	0.654	12765	166,430
	6.434	0.841	12797	164,663	6.429	0.738	12600	162,011	6.830	0.664	12736	173,965
	5.816	0.749	12764	148,471	5.988	0.675	12576	150,610	6.530	0.628	12699	165,840
	6.213	0.877	12600	156,568	6.138	0.658	12765	156,703	6.899	0.664	12769	176,195
	5.793	0.865	12630	146,323	5.626	0.66	12811	144,149	6.130	0.643	12707	155,788
	6.422	0.736	12724	163,436	5.876	0.67	12755	149,888	5.067	0.699	12751	129,219
Annual	**70.637**	**0.771**	**12678**	**1,791,259**	**72.376**	**0.713**	**12688**	**1,836,312**	**74.205**	**0.665**	**12729**	**1,888,998**

1st Operting Year Fuel Consumption
1,791,259

Average Annual Fuel Consumption
1,838,856

1st Operting Year SO2 Emissions
2,123,984

Cogentrix - Portsmouth
Plant Name (from Step 1)

BLR01A
Combustion Source ID#

STEP 12
For each fuel type used at the combustion source, indicate that a worksheet is attached, enter the total 1985 (or first year) fuel consumption from the bottom row of the worksheet, and enter the average of the total fuel consumption for the three operating years from the bottom row of the worksheet. Enter the SO_2 emissions for the first operating year from each worksheet.

Fuel Type	Total 1985 (or first year) Fuel Consumption	Average Annual Fuel Consumption	SO_2 Emissions for 1985 (or first year)
[X] Bituminous Coal	1,799,640 mmBtu	1,815,276 mmBtu	2,134,087 lbs
[ ] Subbituminous Coal	mmBtu	mmBtu	lbs
[ ] Lignite Coal	mmBtu	mmBtu	lbs
[ ] Distillate Oil	mmBtu	mmBtu	lbs
[ ] Residual Oil	mmBtu	mmBtu	lbs
[ ] Natural Gas	mmBtu	mmBtu	lbs
[ ] Other (describe):	mmBtu	mmBtu	lbs
[ ] Other (describe):	mmBtu	mmBtu	lbs

STEP 13
Enter the total 1985 (or first year) fuel consumption, the total average annual fuel consumption, and the total 1985 (or first year) actual SO_2 emissions for all fuels used.

(a) Total 1985 (or first year) Fuel Consumption	(b) Total Average Annual Fuel Consumption (Baseline)	(c) Total SO_2 Emissions for 1985 (or first year)
1,799,640 mmBtu	1,815,276 mmBtu	2,134,087 lbs

STEP 14
Calculate the actual 1985 (or first year) SO_2 emissions rate.

Total SO_2 Emissions for 1985 (or first year)		Total 1985 (or first year) Fuel Consumption		Actual 1985 (or first year) SO_2 Emissions Rate
2,134,087 lbs	÷	1,799,640 mmBtu	=	1.19 lbs/mmBtu

1/16/07
Date

COGENTRIX-PORTSMOUTH	BLR01A
Plant Name (from Step 1)	Combustion Source ID#

STEP 15
Enter information for the 1985 (or first year) allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	
Annualization Factor	X		0.89	
Annualized Rate	=	1.35	lbs/mmBtu	

STEP 16
Enter the current allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	

STEP 17
Enter the current promulgated SO_2 emissions limit, if different from the current allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	

STEP 18
Identify the regulatory citations for the SO_2 emissions limits in Steps 15-17.

Regulatory Limit	Effective Date	Regulatory Citation and Name of Permitting Authority
1985 (1st yr) Allowable (Step 15)	12/23/1986	REGISTRATION 61049 VaDEQ SECTION 120-05-0403
Current Allowable (Step 16)	5/31/2001	REG. 61049 VaDEQ 9 VAC 5-50-280
Current Promulgated (Step 17)	5/31/2001	REG 61049 VaDEQ 9 VAC 5-50-280

1/16/07
Date

Cogentrix - Portsmouth
Plant Name (from Step 1)

BLR 01A
Combustion Source ID#

STEP 19
Calculate and enter the proposed allowances for the combustion source.

Baseline (Step 13(b))		Lowest of 3 SO_2 Emission Rates		Proposed Allowances
1,838,856 mmBtu	x	1.19 lbs/mmBtu	÷ 2,000 =	1094 allowances

STEP 20
Calculate and enter the proposed allowances for the combustion source, if the current promulgated SO_2 emissions limit differs from the current allowable SO_2 emissions rate.

Baseline (Step 13(b))		Lowest of 4 SO_2 Emission Rates		Proposed Allowances
1,838,856 mmBtu	x	1.19 lbs/mmBtu	÷ 2,000 =	1094 allowances

STEP 21
Read the Opt-in Program requirements and certifications, and sign and date.

Opt-In Program Requirements

Permit Requirements.

(1) The designated representative of each combustion source under 40 CFR part 74 shall:
(i) Submit a complete opt-in permit application (including a compliance plan).
(ii) Submit in a timely manner any supplemental information that the Administrator or the permitting authority determines is necessary to review an opt-in permit application and issue or deny an opt-in permit;
(2) The owners and operators of each combustion source under 40 CFR part 74 shall:
(i) Have an opt-in permit; and
(ii) Operate the opt-in source in compliance with the opt-in permit.

Monitoring Requirements.

(1) The owners and operators and, to the extent applicable, the designated representative of each combustion source and each opt-in source shall comply with the monitoring requirements of 40 CFR parts 74 and 75.
(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the opt-in source with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide under the Acid Rain Program.
(3) The requirements of 40 CFR parts 74 and 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the opt-in source under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements.

(1) The owners and operators of each opt-in source shall:
(i) Hold allowances, as of the allowance transfer deadline, in the opt-in source's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the opt-in source; and
(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
(3) An opt-in source shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements upon the effective date of the opt-in source's opt-in permit.
(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program, including 40 CFR parts 73 and 74.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the opt-in permit application, or the opt-in permit, and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Excess Emissions Requirements.

(1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

1/16/07
Date

Cogentrix - Portsmouth	BLR01A
Plant Name (from Step 1)	Combustion Source ID#

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the opt-in source shall keep on site at the opt-in 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 prior to the end of the 5 years, in writing by the Administrator or permitting authority:

(i) The certificate of representation for the designated representative for the opt-in source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24, provided that the certificate and documents shall be retained on site at the opt-in source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
(ii) All emissions monitoring information, in accordance with 40 CFR part 75;
(iii) Copies of all reports, compliance certifications, and other submissions, and all records made or required under the Acid Rain Program; and
(iv) Copies of all documents used to complete an opt-in permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability.

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program or an opt-in permit, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such affected unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR part 76 (NOx averaging plans), and except with regard to the requirements applicable to affected units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No provision of the Acid Rain Program, an opt-in permit application, or an opt-in permit shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certifications

I certify that, to the best of my knowledge and belief, the combustion source is not an affected unit under 40 CFR 72.6.

I certify that the data submitted under subpart C of part 74 reflects actual operations of the combustion source and has not been adjusted in any way.

I am authorized to make this submission on behalf of the owners and operators of the combustion source or opt-in sources 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 TRACY L PATTERSON II	
Signature Tracy L Patterson II	Date 1/16/07

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Expires 1-31-96

EPA

Opt-In Permit Application

For more information, see instructions and refer to 40 CFR 74.16

STEP 1
Identify the facility by plant name, State, ORIS code from NADB (if known), and operator's name.

Plant Name	State	ORIS Code
COGENTRIX - PORTSMOUTH	VA	10071

Operating Company Name: COGENTRIX VIRGINIA LEASING CORP.

STEP 2
Identify the combustion source by unique ID number and short name assigned by the operating company.

Combustion Source ID#: BLR 01B

Short Name: Boiler 01B

STEP 3
Enter the requested information on the location of the source.

Plant Site Address: 1 WILD DUCK LANE
PORTSMOUTH, VA 23703

County	Latitude	Longitude
PORTSMOUTH CITY	36 52 13	076 21 07

Plant Mailing Address: SAME AS ABOVE

STEP 4
Check the appropriate box.

Has the combustion source previously participated in the Opt-In Program?

☐ Yes ☒ No

If Yes, enter the effective date of the most recent opt-in permit ——→ _____ mm/dd/yy

STEP 5
Briefly describe the combustion source and the facility. Attach the required information.

General facility description: COGENERATION FACILITY CONSISTING OF 2 ELECTRIC STEAM GENERATING UNITS. ELECTRICITY IS SOLD UNDER LONG TERM CONTRACT TO CONNECTED UTILITY WITH STEAM SOLD TO CONNECTED INDUSTRIAL HOST.

Combustion source description: FACILITY HAS SIX STOKER BOILERS. 3 BOILERS ARE COMBINED TO SUPPLY STEAM TO A TURBINE-GENERATOR AND EXHAUST TO A COMMON STACK, FOR TOTAL OF 2 GENERATING UNITS.

☒ A diagram showing the configuration of the combustion source and the facility is attached.

Date: 1/16/07

COGENTRIX - PORTSMOUTH
Plant Name (from Step 1)

BLR01B
Combustion Source ID#

STEP 6
Indicate whether the combustion source has SO_2 controls.

☐ Scrubber ☒ Other Controls (specify): FUEL SULFUR LIMIT (BACT) ☐ Uncontrolled

STEP 7
Check the top box and the second or third box and attach the required information.

☒ Two copies of a complete Monitoring Plan (as required by 40 CFR parts 74 and 75) are attached.

☒ A completed Certificate of Representation is attached.

☐ A completed Certificate of Representation has been previously submitted.

STEP 8
Specify the compliance plan for the combustion source. Check the second box to identify an additional method of compliance.

☒ Hold allowances in accordance with 40 CFR 72.9(c)(1).

☐ A Thermal Energy Plan is attached. This combustion source seeks to transfer allowances to one or more replacement units for the replacement of thermal energy.

STEP 9
Provide the required information on the operating history of the combustion source. Indicate that the required documentation is attached.

Date the combustion source commenced operation → 06/88 mm/yy

Number of hours the combustion source operated during the six months immediately preceding this application → 3843 hrs

Preceding six months of operation → Start 07/06 mm/yy - End (Date of Application) 12/06 mm/yy

☒ Data supporting determination of operating hours are attached.

STEP 10
Identify the time period for which the baseline data is provided.

☐ Baseline 1985 -1987

☒ Alternative Baseline, beginning with → 1989 year

☒ Combustion source began operation after 1985.

☐ Combustion source was subject to natural catastrophe during 1985-1987. Documentation of natural catastrophe is attached.

STEP 11
Complete and attach one worksheet for each type of fuel used at the combustion source.

Number of completed worksheets attached → 1 worksheets

1/16/07
Date

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Expires 1-31-96

Plant Name (from Step 1): Cogentrix - Portsmouth

Combustion Source ID# (from Step 2): BLR01B

Opt-In Permit Application Worksheet

For more information, see instructions and refer to 40 CFR 74.20-74.22

Type of Fuel: Coal | Heat Content Units: Btu/lb | Control System Efficiency: Ø %

Fuel Units: Kton | SO_2 Emissions Factor: 30,069 lb/kton | Fuel Pretreatment Efficiency: Ø %

(a) (b) (c) (d)

1985/1st Operating Year: 1989 | 1986/2nd Operating Year: 1990 | 1987/3rd Operating Year: 1991 | 1985/1st Year

	Quantity	% S	Heat Content	Fuel Consumption	Quantity	% S	Heat Content	Fuel Consumption	Quantity	% S	Heat Content	Fuel Consumption	SO_2 Emissions
Jan				mmBtu				mmBtu				mmBtu	lbs
Feb				mmBtu				mmBtu				mmBtu	lbs
Mar				mmBtu				mmBtu				mmBtu	lbs
Apr				mmBtu				mmBtu				mmBtu	lbs
May				mmBtu				mmBtu				mmBtu	lbs
June				mmBtu				mmBtu				mmBtu	lbs
July				mmBtu				mmBtu				mmBtu	lbs
Aug				mmBtu				mmBtu				mmBtu	lbs
Sep				mmBtu				mmBtu				mmBtu	lbs
Oct				mmBtu				mmBtu				mmBtu	lbs
Nov				mmBtu				mmBtu				mmBtu	lbs
Dec				mmBtu				mmBtu				mmBtu	lbs
ANNUAL	70.637	0.771	12678	1,791,259 mmBtu	72.376	0.713	12688	1,836,312 mmBtu	74.205	0.665	12729	1,888,998 mmBtu	

SEE ATTACHED SHEET

Total these values for each worksheet and transfer each total to Step 12 of the Opt-in Permit Application

1985/1st Operating Year Fuel Consumption	Average Annual Fuel Consumption	1985/1st yr SO_2 Emissions
1,791,259 mmBtu	1,838,856 mmBtu	2,123,984 lbs

EPA Form 7610-26W (4-95)

CVLC - Portsmouth
Historical Data for Opt-In Baseline
BLR01B

	1989				1990				1991			
	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)
	6.216	0.786	12678	157,604	6.537	0.669	12722	166,319	6.474	0.688	12623	163,451
	4.383	0.746	12677	111,135	5.606	0.758	12715	142,569	5.314	0.651	12710	135,073
	6.343	0.704	12670	160,732	6.052	0.743	12722	153,996	6.367	0.694	12609	160,563
	5.569	0.691	12702	141,475	5.643	0.763	12786	144,303	6.235	0.653	12718	158,602
	6.007	0.74	12668	152,202	6.342	0.784	12561	159,315	6.241	0.671	12918	161,234
	5.451	0.807	12609	137,472	5.958	0.705	12680	151,103	5.599	0.667	12737	142,637
	5.990	0.71	12620	151,179	6.181	0.732	12567	155,345	6.519	0.654	12765	166,430
	6.434	0.841	12797	164,663	6.429	0.738	12600	162,011	6.830	0.664	12736	173,965
	5.816	0.749	12764	148,471	5.988	0.675	12576	150,610	6.530	0.628	12699	165,840
	6.213	0.877	12600	156,568	6.138	0.658	12765	156,703	6.899	0.664	12769	176,195
	5.793	0.865	12630	146,323	5.626	0.66	12811	144,149	6.130	0.643	12707	155,788
	6.422	0.736	12724	163,436	5.876	0.67	12755	149,888	5.067	0.699	12751	129,219
Annual	**70.637**	**0.771**	**12678**	**1,791,259**	**72.376**	**0.713**	**12688**	**1,836,312**	**74.205**	**0.665**	**12729**	**1,888,998**

1st Operting Year Fuel Consumption
1,791,259

Average Annual Fuel Consumption
1,838,856

1st Operting Year SO2 Emissions
2,123,984

Cogentrix - Portsmouth
Plant Name (from Step 1)

BLR01B
Combustion Source ID#

STEP 12
For each fuel type used at the combustion source, indicate that a worksheet is attached, enter the total 1985 (or first year) fuel consumption from the bottom row of the worksheet, and enter the average of the total fuel consumption for the three operating years from the bottom row of the worksheet. Enter the SO_2 emissions for the first operating year from each worksheet.

Fuel Type	Total 1985 (or first year) Fuel Consumption	Average Annual Fuel Consumption	SO_2 Emissions for 1985 (or first year)
[X] Bituminous Coal	1,799,640 mmBtu	1,815,276 mmBtu	2,134,087 lbs
[ ] Subbituminous Coal	mmBtu	mmBtu	lbs
[ ] Lignite Coal	mmBtu	mmBtu	lbs
[ ] Distillate Oil	mmBtu	mmBtu	lbs
[ ] Residual Oil	mmBtu	mmBtu	lbs
[ ] Natural Gas	mmBtu	mmBtu	lbs
[ ] Other (describe):	mmBtu	mmBtu	lbs
[ ] Other (describe):	mmBtu	mmBtu	lbs

STEP 13
Enter the total 1985 (or first year) fuel consumption, the total average annual fuel consumption, and the total 1985 (or first year) actual SO_2 emissions for all fuels used.

(a) Total 1985 (or first year) Fuel Consumption	(b) Total Average Annual Fuel Consumption (Baseline)	(c) Total SO_2 Emissions for 1985 (or first year)
1,799,640 mmBtu	1,815,276 mmBtu	2,134,087 lbs

STEP 14
Calculate the actual 1985 (or first year) SO_2 emissions rate.

Total SO_2 Emissions for 1985 (or first year)		Total 1985 (or first year) Fuel Consumption		Actual 1985 (or first year) SO_2 Emissions Rate
2,134,087 lbs	÷	1,799,640 mmBtu	=	1.19 lbs/mmBtu

1/16/07
Date

COGENTRIX- PORTSMOUTH	BLR 01B
Plant Name (from Step 1)	Combustion Source ID#

STEP 15
Enter information for the 1985 (or first year) allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	
Annualization Factor	X		0.89	
Annualized Rate	=	1.35	lbs/mmBtu	

STEP 16
Enter the current allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	

STEP 17
Enter the current promulgated SO_2 emissions limit, if different from the current allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	

STEP 18
Identify the regulatory citations for the SO_2 emissions limits in Steps 15-17.

Regulatory Limit	Effective Date	Regulatory Citation and Name of Permitting Authority
1985 (1st yr) Allowable (Step 15)	12/23/1986	REGISTRATION 61049 SECTION 120-05-0403 VaDEQ
Current Allowable (Step 16)	5/31/2001	REG. 61049 9VAC 5-50-280 VaDEQ
Current Promulgated (Step 17)	5/31/2001	REG 61049 9 VAC 5-50-280 VaDEQ

1/16/07
Date

Cogentrix - Portsmouth
Plant Name (from Step 1)

BLR01B
Combustion Source ID#

STEP 19
Calculate and enter the proposed allowances for the combustion source.

Baseline (Step 13(b))		Lowest of 3 SO_2 Emission Rates		Proposed Allowances
1,838,856 mmBtu	x	1.19 lbs/mmBtu	÷ 2,000 =	1094 allowances

STEP 20
Calculate and enter the proposed allowances for the combustion source, if the current promulgated SO_2 emissions limit differs from the current allowable SO_2 emissions rate.

Baseline (Step 13(b))		Lowest of 4 SO_2 Emission Rates		Proposed Allowances
1,838,856 mmBtu	x	1.19 lbs/mmBtu	÷ 2,000 =	1094 allowances

STEP 21
Read the Opt-in Program requirements and certifications, and sign and date.

Opt-In Program Requirements

Permit Requirements.

(1) The designated representative of each combustion source under 40 CFR part 74 shall:
(i) Submit a complete opt-in permit application (including a compliance plan).
(ii) Submit in a timely manner any supplemental information that the Administrator or the permitting authority determines is necessary to review an opt-in permit application and issue or deny an opt-in permit;
(2) The owners and operators of each combustion source under 40 CFR part 74 shall:
(i) Have an opt-in permit; and
(ii) Operate the opt-in source in compliance with the opt-in permit.

Monitoring Requirements.

(1) The owners and operators and, to the extent applicable, the designated representative of each combustion source and each opt-in source shall comply with the monitoring requirements of 40 CFR parts 74 and 75.
(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the opt-in source with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide under the Acid Rain Program.
(3) The requirements of 40 CFR parts 74 and 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the opt-in source under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements.

(1) The owners and operators of each opt-in source shall:
(i) Hold allowances, as of the allowance transfer deadline, in the opt-in source's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the opt-in source; and
(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
(3) An opt-in source shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements upon the effective date of the opt-in source's opt-in permit.
(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program, including 40 CFR parts 73 and 74.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the opt-in permit application, or the opt-in permit, and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Excess Emissions Requirements.

(1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

1/16/07
Date

Cogentrix - Portsmouth	BLR01B
Plant Name (from Step 1)	Combustion Source ID#

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the opt-in source shall keep on site at the opt-in 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 prior to the end of the 5 years, in writing by the Administrator or permitting authority:
(i) The certificate of representation for the designated representative for the opt-in source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24, provided that the certificate and documents shall be retained on site at the opt-in source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
(ii) All emissions monitoring information, in accordance with 40 CFR part 75;
(iii) Copies of all reports, compliance certifications, and other submissions, and all records made or required under the Acid Rain Program; and
(iv) Copies of all documents used to complete an opt-in permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability.

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program or an opt-in permit, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such affected unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR part 76 (NO$_x$ averaging plans), and except with regard to the requirements applicable to affected units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No provision of the Acid Rain Program, an opt-in permit application, or an opt-in permit shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certifications

I certify that, to the best of my knowledge and belief, the combustion source is not an affected unit under 40 CFR 72.6.

I certify that the data submitted under subpart C of part 74 reflects actual operations of the combustion source and has not been adjusted in any way.

I am authorized to make this submission on behalf of the owners and operators of the combustion source or opt-in sources 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 TRACY L PATTERSON II	
Signature Tracy L Patterson II	Date 1/16/07

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Expires 1-31-96

EPA

Opt-In Permit Application

For more information, see instructions and refer to 40 CFR 74.16

STEP 1
Identify the facility by plant name, State, ORIS code from NADB (if known), and operator's name.

Plant Name	State	ORIS Code
COGENTRIX - PORTSMOUTH	VA	10071

Operating Company Name: COGENTRIX VIRGINIA LEASING CORP.

STEP 2
Identify the combustion source by unique ID number and short name assigned by the operating company.

Combustion Source ID#: BLR 01C

Short Name: Boiler 01C

STEP 3
Enter the requested information on the location of the source.

Plant Site Address: 1 WILD DUCK LANE
PORTSMOUTH, VA 23703

County	Latitude	Longitude
PORTSMOUTH CITY	36 52 13	076 21 07

Plant Mailing Address: SAME AS ABOVE

STEP 4
Check the appropriate box.

Has the combustion source previously participated in the Opt-in Program?

☐ Yes ☒ No

If Yes, enter the effective date of the most recent opt-in permit ——→ _____ mm/dd/yy

STEP 5
Briefly describe the combustion source and the facility. Attach the required information.

General facility description: COGENERATION FACILITY CONSISTING OF 2 ELECTRIC STEAM GENERATING UNITS. ELECTRICITY IS SOLD UNDER LONG TERM CONTRACT TO CONNECTED UTILITY WITH STEAM SOLD TO CONNECTED INDUSTRIAL HOST.

Combustion source description: FACILITY HAS SIX STOKER BOILERS. 3 BOILERS ARE COMBINED TO SUPPLY STEAM TO A TURBINE-GENERATOR AND EXHAUST TO A COMMON STACK, FOR TOTAL OF 2 GENERATING UNITS.

☒ A diagram showing the configuration of the combustion source and the facility is attached.

Date: 1/16/07

COGENTRIX - PORTSMOUTH
Plant Name (from Step 1)

BLR01C
Combustion Source ID#

STEP 6
Indicate whether the combustion source has SO_2 controls.

☐ Scrubber ☒ Other Controls (specify): FUEL SULFUR LIMIT (BACT) ☐ Uncontrolled

STEP 7
Check the top box and the second or third box and attach the required information.

☒ Two copies of a complete Monitoring Plan (as required by 40 CFR parts 74 and 75) are attached.

☒ A completed Certificate of Representation is attached.

☐ A completed Certificate of Representation has been previously submitted.

STEP 8
Specify the compliance plan for the combustion source. Check the second box to identify an additional method of compliance.

☒ Hold allowances in accordance with 40 CFR 72.9(c)(1).

☐ A Thermal Energy Plan is attached. This combustion source seeks to transfer allowances to one or more replacement units for the replacement of thermal energy.

STEP 9
Provide the required information on the operating history of the combustion source. Indicate that the required documentation is attached.

Date the combustion source commenced operation → 06/88 mm/yy

Number of hours the combustion source operated during the six months immediately preceding this application → 3851 hrs

Preceding six months of operation → Start 07/06 mm/yy – End (Date of Application) 12/06 mm/yy

☒ Data supporting determination of operating hours are attached.

STEP 10
Identify the time period for which the baseline data is provided.

☐ Baseline 1985 -1987

☒ Alternative Baseline, beginning with → 1989 year

☒ Combustion source began operation after 1985.

☐ Combustion source was subject to natural catastrophe during 1985-1987. Documentation of natural catastrophe is attached.

STEP 11
Complete and attach one worksheet for each type of fuel used at the combustion source.

Number of completed worksheets attached → 1 worksheets

1/16/07
Date

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Expires 1-31-96

Cogentrix - Portsmouth
Plant Name (from Step 1)

BLR01C
Combustion Source ID# (from Step 2)

Opt-In Permit Application Worksheet

For more information, see instructions and refer to 40 CFR 74.20-74.22

Type of Fuel: Coal
Fuel Units: Kton
Heat Content Units: Btu/lb
SO_2 Emissions Factor: 30,069 lb/kton
Control System Efficiency: Ø %
Fuel Pretreatment Efficiency: Ø %

1985/1st Operating Year: 1989
1986/2nd Operating Year: 1990
1987/3rd Operating Year: 1991

	(a) Quantity	(a) % S	(a) Heat Content	(a) Fuel Consumption	(b) Quantity	(b) % S	(b) Heat Content	(b) Fuel Consumption	(c) Quantity	(c) % S	(c) Heat Content	(c) Fuel Consumption	(d) 1985/1st Year SO_2 Emissions
Jan				mmBtu				mmBtu				mmBtu	lbs
Feb				mmBtu				mmBtu				mmBtu	lbs
Mar				mmBtu				mmBtu				mmBtu	lbs
Apr				mmBtu				mmBtu				mmBtu	lbs
May				mmBtu				mmBtu				mmBtu	lbs
June				mmBtu				mmBtu				mmBtu	lbs
July				mmBtu				mmBtu				mmBtu	lbs
Aug				mmBtu				mmBtu				mmBtu	lbs
Sep				mmBtu				mmBtu				mmBtu	lbs
Oct				mmBtu				mmBtu				mmBtu	lbs
Nov				mmBtu				mmBtu				mmBtu	lbs
Dec				mmBtu				mmBtu				mmBtu	lbs
ANNUAL	70.637	0.771	12678	1,791,259 mmBtu	72.376	0.713	12688	1,836,312 mmBtu	74.205	0.665	12729	1,888,998 mmBtu	

SEE ATTACHED SHEET

Total these values for each worksheet and transfer each total to Step 12 of the Opt-in Permit Application

1985/1st Operating Year Fuel Consumption	Average Annual Fuel Consumption	1985/1st yr SO_2 Emissions
1,791,259 mmBtu	1,838,856 mmBtu	2,123,984 lbs

EPA Form 7610-26W (4-95)

06/22/05 14:48 FAX 015

CVLC - Portsmouth
Historical Data for Opt-In Baseline
BLR01C

	1989				1990				1991			
	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)
	6.216	0.786	12678	157,604	6.537	0.669	12722	166,319	6.474	0.688	12623	163,451
	4.383	0.746	12677	111,135	5.606	0.758	12715	142,569	5.314	0.651	12710	135,073
	6.343	0.704	12670	160,732	6.052	0.743	12722	153,996	6.367	0.694	12609	160,563
	5.569	0.691	12702	141,475	5.643	0.763	12786	144,303	6.235	0.653	12718	158,602
	6.007	0.74	12668	152,202	6.342	0.784	12561	159,315	6.241	0.671	12918	161,234
	5.451	0.807	12609	137,472	5.958	0.705	12680	151,103	5.599	0.667	12737	142,637
	5.990	0.71	12620	151,179	6.181	0.732	12567	155,345	6.519	0.654	12765	166,430
	6.434	0.841	12797	164,663	6.429	0.738	12600	162,011	6.830	0.664	12736	173,965
	5.816	0.749	12764	148,471	5.988	0.675	12576	150,610	6.530	0.628	12699	165,840
	6.213	0.877	12600	156,568	6.138	0.658	12765	156,703	6.899	0.664	12769	176,195
	5.793	0.865	12630	146,323	5.626	0.66	12811	144,149	6.130	0.643	12707	155,788
	6.422	0.736	12724	163,436	5.876	0.67	12755	149,888	5.067	0.699	12751	129,219
Annual	**70.637**	**0.771**	**12678**	**1,791,259**	**72.376**	**0.713**	**12688**	**1,836,312**	**74.205**	**0.665**	**12729**	**1,888,998**

1st Operting Year Fuel Consumption	Average Annual Fuel Consumption	1st Operting Year SO2 Emissions
1,791,259	**1,838,856**	**2,123,984**

Cogentrix - Portsmouth
Plant Name (from Step 1)

BLR01C
Combustion Source ID#

STEP 12
For each fuel type used at the combustion source, indicate that a worksheet is attached, enter the total 1985 (or first year) fuel consumption from the bottom row of the worksheet, and enter the average of the total fuel consumption for the three operating years from the bottom row of the worksheet. Enter the SO_2 emissions for the first operating year from each worksheet.

Fuel Type	Total 1985 (or first year) Fuel Consumption	Average Annual Fuel Consumption	SO_2 Emissions for 1985 (or first year)
☒ Bituminous Coal	1,799,640 mmBtu	1,815,276 mmBtu	2,134,087 lbs
☐ Subbituminous Coal	mmBtu	mmBtu	lbs
☐ Lignite Coal	mmBtu	mmBtu	lbs
☐ Distillate Oil	mmBtu	mmBtu	lbs
☐ Residual Oil	mmBtu	mmBtu	lbs
☐ Natural Gas	mmBtu	mmBtu	lbs
☐ Other (describe):	mmBtu	mmBtu	lbs
☐ Other (describe):	mmBtu	mmBtu	lbs

STEP 13
Enter the total 1985 (or first year) fuel consumption, the total average annual fuel consumption, and the total 1985 (or first year) actual SO_2 emissions for all fuels used.

(a) Total 1985 (or first year) Fuel Consumption	(b) Total Average Annual Fuel Consumption (Baseline)	(c) Total SO_2 Emissions for 1985 (or first year)
1,799,640 mmBtu	1,815,276 mmBtu	2,134,087 lbs

STEP 14
Calculate the actual 1985 (or first year) SO_2 emissions rate.

Total SO_2 Emissions for 1985 (or first year)		Total 1985 (or first year) Fuel Consumption		Actual 1985 (or first year) SO_2 Emissions Rate
2,134,087 lbs	÷	1,799,640 mmBtu	=	1.19 lbs/mmBtu

1/16/07
Date

Plant Name (from Step 1)	Combustion Source ID#
COGENTRIX-PORTSMOUTH	BLR01C

STEP 15
Enter information for the 1985 (or first year) allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	
Annualization Factor	X		0.89	
Annualized Rate	=	1.35	lbs/mmBtu	

STEP 16
Enter the current allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	

STEP 17
Enter the current promulgated SO_2 emissions limit. If different from the current allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	

STEP 18
Identify the regulatory citations for the SO_2 emissions limits in Steps 15-17.

Regulatory Limit	Effective Date	Regulatory Citation and Name of Permitting Authority
1985 (1st yr) Allowable (Step 15)	12/23/1986	REGISTRATION 61049 SECTION 120-05-0403 VaDEQ
Current Allowable (Step 16)	5/31/2001	REG. 61049 9VAC 5-50-280 VaDEQ
Current Promulgated (Step 17)	5/31/2001	REG 61049 9 VAC 5-50-280 VaDEQ

Date
1/16/07

Cogentrix - Portsmouth	BLR 01C
Plant Name (from Step 1)	Combustion Source ID#

STEP 19
Calculate and enter the proposed allowances for the combustion source.

Baseline (Step 13(b))		Lowest of 3 SO_2 Emission Rates			Proposed Allowances
1,815,276 mmBtu	x	1.19 lbs/mmBtu	÷ 2,000	=	1080 allowances

STEP 20
Calculate and enter the proposed allowances for the combustion source, if the current promulgated SO_2 emissions limit differs from the current allowable SO_2 emissions rate.

Baseline (Step 13(b))		Lowest of 4 SO_2 Emission Rates			Proposed Allowances
1,815,276 mmBtu	x	1.19 lbs/mmBtu	÷ 2,000	=	1080 allowances

STEP 21
Read the Opt-in Program requirements and certifications, and sign and date.

Opt-In Program Requirements

Permit Requirements.

(1) The designated representative of each combustion source under 40 CFR part 74 shall:
(i) Submit a complete opt-in permit application (including a compliance plan).
(ii) Submit in a timely manner any supplemental information that the Administrator or the permitting authority determines is necessary to review an opt-in permit application and issue or deny an opt-in permit;
(2) The owners and operators of each combustion source under 40 CFR part 74 shall:
(i) Have an opt-in permit; and
(ii) Operate the opt-in source in compliance with the opt-in permit.

Monitoring Requirements.

(1) The owners and operators and, to the extent applicable, the designated representative of each combustion source and each opt-in source shall comply with the monitoring requirements of 40 CFR parts 74 and 75.
(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the opt-in source with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide under the Acid Rain Program.
(3) The requirements of 40 CFR parts 74 and 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the opt-in source under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements.

(1) The owners and operators of each opt-in source shall:
(i) Hold allowances, as of the allowance transfer deadline, in the opt-in source's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the opt-in source; and
(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
(3) An opt-in source shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements upon the effective date of the opt-in source's opt-in permit.
(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program, including 40 CFR parts 73 and 74.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the opt-in permit application, or the opt-in permit, and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Excess Emissions Requirements.

(1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

1/16/07
Date

Cogentrix - Portsmouth	BLR01C
Plant Name (from Step 1)	Combustion Source ID#

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the opt-in source shall keep on site at the opt-in 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 prior to the end of the 5 years, in writing by the Administrator or permitting authority:

(i) The certificate of representation for the designated representative for the opt-in source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24, provided that the certificate and documents shall be retained on site at the opt-in source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
(ii) All emissions monitoring information, in accordance with 40 CFR part 75;
(iii) Copies of all reports, compliance certifications, and other submissions, and all records made or required under the Acid Rain Program; and
(iv) Copies of all documents used to complete an opt-in permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability.

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program or an opt-in permit, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such affected unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR part 76 (NOx averaging plans), and except with regard to the requirements applicable to affected units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No provision of the Acid Rain Program, an opt-in permit application, or an opt-in permit shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State implementation Plans;
(2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certifications

I certify that, to the best of my knowledge and belief, the combustion source is not an affected unit under 40 CFR 72.6.

I certify that the data submitted under subpart C of part 74 reflects actual operations of the combustion source and has not been adjusted in any way.

I am authorized to make this submission on behalf of the owners and operators of the combustion source or opt-in sources 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 TRACY L PATTERSON II	
Signature Tracy L Patterson II	Date 1/16/07

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Expires 1-31-96

EPA

Opt-In Permit Application

For more information, see instructions and refer to 40 CFR 74.16

STEP 1
Identify the facility by plant name, State, ORIS code from NADB (if known), and operator's name.

Plant Name	State	ORIS Code
COGENTRIX - PORTSMOUTH	VA	10071

Operating Company Name: COGENTRIX VIRGINIA LEASING CORP.

STEP 2
Identify the combustion source by unique ID number and short name assigned by the operating company.

Combustion Source ID#: BLR 02A

Short Name: Boiler 02A

STEP 3
Enter the requested information on the location of the source.

Plant Site Address: 1 WILD DUCK LANE
PORTSMOUTH, VA 23703

County	Latitude	Longitude
PORTSMOUTH CITY	365213	0762107

Plant Mailing Address: SAME AS ABOVE

STEP 4
Check the appropriate box.

Has the combustion source previously participated in the Opt-In Program?

☐ Yes ☒ No

If Yes, enter the effective date of the most recent opt-in permit ——→ _____ mm/dd/yy

STEP 5
Briefly describe the combustion source and the facility. Attach the required information.

General facility description: COGENERATION FACILITY CONSISTING OF 2 ELECTRIC STEAM GENERATING UNITS. ELECTRICITY IS SOLD UNDER LONG TERM CONTRACT TO CONNECTED UTILITY WITH STEAM SOLD TO CONNECTED INDUSTRIAL HOST.

Combustion source description: FACILITY HAS SIX STOKER BOILERS. 3 BOILERS ARE COMBINED TO SUPPLY STEAM TO A TURBINE-GENERATOR AND EXHAUST TO A COMMON STACK, FOR TOTAL OF 2 GENERATING UNITS.

☒ A diagram showing the configuration of the combustion source and the facility is attached.

EPA Form 7610-26 (4-95)

Date: 1/16/07

COGENTRIX - PORTSMOUTH	BLR02A
Plant Name (from Step 1)	Combustion Source ID#

STEP 6
Indicate whether the combustion source has SO_2 controls.

☐ Scrubber ☒ Other Controls (specify): FUEL SULFUR LIMIT (BACT) ☐ Uncontrolled

STEP 7
Check the top box and the second or third box and attach the required information.

☒ Two copies of a complete Monitoring Plan (as required by 40 CFR parts 74 and 75) are attached.

☒ A completed Certificate of Representation is attached.

☐ A completed Certificate of Representation has been previously submitted.

STEP 8
Specify the compliance plan for the combustion source. Check the second box to identify an additional method of compliance.

☒ Hold allowances in accordance with 40 CFR 72.9(c)(1).

☐ A Thermal Energy Plan is attached. This combustion source seeks to transfer allowances to one or more replacement units for the replacement of thermal energy.

STEP 9
Provide the required information on the operating history of the combustion source. Indicate that the required documentation is attached.

Date the combustion source commenced operation → 06/88 mm/yy

Number of hours the combustion source operated during the six months immediately preceding this application → 4069 hrs

	Start		End (Date of Application)
Preceding six months of operation →	07/06 mm/yy	-	12/06 mm/yy

☒ Data supporting determination of operating hours are attached.

STEP 10
Identify the time period for which the baseline data is provided.

☐ Baseline 1985 -1987

☒ Alternative Baseline, beginning with → 1989 year

☒ Combustion source began operation after 1985.

☐ Combustion source was subject to natural catastrophe during 1985-1987. Documentation of natural catastrophe is attached.

STEP 11
Complete and attach one worksheet for each type of fuel used at the combustion source.

Number of completed worksheets attached → 1 worksheets

1/16/07
Date

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Expires 1-31-96

Cogentrix - Portsmouth
Plant Name (from Step 1)

BLR02A
Combustion Source ID# (from Step 2)

Opt-In Permit Application Worksheet

For more information, see instructions and refer to 40 CFR 74.20-74.22

Type of Fuel: Coal Heat Content Units: Btu/lb Control System Efficiency: ϕ %

Fuel Units: Kton SO_2 Emissions Factor: 30,069 lb/kton Fuel Pretreatment Efficiency: ϕ %

	(a)				(b)				(c)				(d)
	1985/1st Operating Year: 1989				1986/2nd Operating Year: 1990				1987/3rd Operating Year: 1991				1985/1st Year
	Quantity	% S	Heat Content	Fuel Consumption	Quantity	% S	Heat Content	Fuel Consumption	Quantity	% S	Heat Content	Fuel Consumption	SO_2 Emissions
Jan				mmBtu				mmBtu				mmBtu	lbs
Feb				mmBtu				mmBtu				mmBtu	lbs
Mar				mmBtu				mmBtu				mmBtu	lbs
Apr				mmBtu				mmBtu				mmBtu	lbs
May				mmBtu				mmBtu				mmBtu	lbs
June				mmBtu				mmBtu				mmBtu	lbs
July				mmBtu				mmBtu				mmBtu	lbs
Aug				mmBtu				mmBtu				mmBtu	lbs
Sep				mmBtu				mmBtu				mmBtu	lbs
Oct				mmBtu				mmBtu				mmBtu	lbs
Nov				mmBtu				mmBtu				mmBtu	lbs
Dec				mmBtu				mmBtu				mmBtu	lbs
ANNUAL	70.923	0.771	12678	1,799,640 mmBtu	71.141	0.713	12688	1,805,291 mmBtu	72.310	0.665	12729	1,849,898 mmBtu	

SEE ATTACHED SHEET

Total these values for each worksheet and transfer each total to Step 12 of the Opt-in Permit Application

1985/1st Operating Year Fuel Consumption	Average Annual Fuel Consumption	1985/1st yr SO_2 Emissions
1,799,640 mmBtu	1,815,276 mmBtu	2,134,087 lbs

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CVLC - Portsmouth
Historical Data for Opt-In Baseline
BLR02A

	1989				1990				1991			
	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)
	6.226	0.786	12678	157,875	6.488	0.669	12722	165,089	6.154	0.688	12623	155,355
	5.796	0.746	12677	146,960	5.695	0.758	12715	144,832	5.841	0.651	12710	148,470
	5.770	0.704	12670	146,203	5.974	0.743	12722	151,994	5.824	0.694	12609	146,870
	5.506	0.691	12702	139,874	5.810	0.763	12786	148,582	5.621	0.653	12718	142,984
	6.322	0.74	12668	160,183	5.944	0.784	12561	149,325	6.160	0.671	12918	159,150
	5.421	0.807	12609	136,715	5.893	0.705	12680	149,455	5.741	0.667	12737	146,246
	5.651	0.71	12620	142,640	5.725	0.732	12567	143,884	6.400	0.654	12765	163,383
	6.141	0.841	12797	157,181	6.138	0.738	12600	154,669	6.753	0.664	12736	172,004
	5.786	0.749	12764	147,705	5.853	0.675	12576	147,223	5.992	0.628	12699	152,176
	6.392	0.877	12600	161,087	6.073	0.658	12765	155,044	6.326	0.664	12769	161,562
	6.070	0.865	12630	153,337	5.474	0.66	12811	140,255	6.354	0.643	12707	161,481
	5.890	0.736	12724	149,880	6.074	0.67	12755	154,939	5.145	0.699	12751	131,216
Annual	**70.973**	**0.771**	**12678**	**1,799,640**	**71.141**	**0.713**	**12688**	**1,805,291**	**72.310**	**0.665**	**12729**	**1,840,898**

1st Operting Year Fuel Consumption
1,799,640

Average Annual Fuel Consumption
1,815,276

1st Operting Year SO2 Emissions
2,134,087

Cogentrix - Portsmouth
Plant Name (from Step 1)

BLR02A
Combustion Source ID#

STEP 12
For each fuel type used at the combustion source, indicate that a worksheet is attached, enter the total 1985 (or first year) fuel consumption from the bottom row of the worksheet, and enter the average of the total fuel consumption for the three operating years from the bottom row of the worksheet. Enter the SO_2 emissions for the first operating year from each worksheet.

Fuel Type	Total 1985 (or first year) Fuel Consumption	Average Annual Fuel Consumption	SO_2 Emissions for 1985 (or first year)
[X] Bituminous Coal	1,791,259 mmBtu	1,838,856 mmBtu	2,123,984 lbs
[ ] Subbituminous Coal	mmBtu	mmBtu	lbs
[ ] Lignite Coal	mmBtu	mmBtu	lbs
[ ] Distillate Oil	mmBtu	mmBtu	lbs
[ ] Residual Oil	mmBtu	mmBtu	lbs
[ ] Natural Gas	mmBtu	mmBtu	lbs
[ ] Other (describe):	mmBtu	mmBtu	lbs
[ ] Other (describe):	mmBtu	mmBtu	lbs

STEP 13
Enter the total 1985 (or first year) fuel consumption, the total average annual fuel consumption, and the total 1985 (or first year) actual SO_2 emissions for all fuels used.

(a) Total 1985 (or first year) Fuel Consumption	(b) Total Average Annual Fuel Consumption (Baseline)	(c) Total SO_2 Emissions for 1985 (or first year)
1,791,259 mmBtu	1,838,856 mmBtu	2,123,984 lbs

STEP 14
Calculate the actual 1985 (or first year) SO_2 emissions rate.

Total SO_2 Emissions for 1985 (or first year)		Total 1985 (or first year) Fuel Consumption		Actual 1985 (or first year) SO_2 Emissions Rate
2,123,984 lbs	÷	1,791,259 mmBtu	=	1.19 lbs/mmBtu

11/16/07
Date

COGENTRIX- PORTSMOUTH	BLR02A
Plant Name (from Step 1)	Combustion Source ID#

STEP 15
Enter information for the 1985 (or first year) allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	
Annualization Factor	X		0.89	
Annualized Rate	=	1.35	lbs/mmBtu	

STEP 16
Enter the current allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	

STEP 17
Enter the current promulgated SO_2 emissions limit, if different from the current allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	

STEP 18
Identify the regulatory citations for the SO_2 emissions limits in Steps 15-17.

Regulatory Limit	Effective Date	Regulatory Citation and Name of Permitting Authority
1985 (1st yr) Allowable (Step 15)	12/23/1986	REGISTRATION 61049 SECTION 120-05-0403 VaDEQ
Current Allowable (Step 16)	5/31/2001	REG. 61049 9VAC 5-50-280 VaDEQ
Current Promulgated (Step 17)	5/31/2001	REG 61049 9 VAC 5-50-280 VaDEQ

1/16/07
Date

Plant Name (from Step 1)	Combustion Source ID#
Cogentrix - Portsmouth	BLR02A

STEP 19
Calculate and enter the proposed allowances for the combustion source.

Baseline (Step 13(b))		Lowest of 3 SO_2 Emission Rates		Proposed Allowances
1,838,856 mmBtu	x	1.19 lbs/mmBtu	÷ 2,000 =	1094 allowances

STEP 20
Calculate and enter the proposed allowances for the combustion source, if the current promulgated SO_2 emissions limit differs from the current allowable SO_2 emissions rate.

Baseline (Step 13(b))		Lowest of 4 SO_2 Emission Rates		Proposed Allowances
1,838,856 mmBtu	x	1.19 lbs/mmBtu	÷ 2,000 =	1094 allowances

STEP 21
Read the Opt-in Program requirements and certifications, and sign and date.

Opt-in Program Requirements

Permit Requirements.

(1) The designated representative of each combustion source under 40 CFR part 74 shall:
(i) Submit a complete opt-in permit application (including a compliance plan).
(ii) Submit in a timely manner any supplemental information that the Administrator or the permitting authority determines is necessary to review an opt-in permit application and issue or deny an opt-in permit;
(2) The owners and operators of each combustion source under 40 CFR part 74 shall:
(i) Have an opt-in permit; and
(ii) Operate the opt-in source in compliance with the opt-in permit.

Monitoring Requirements.

(1) The owners and operators and, to the extent applicable, the designated representative of each combustion source and each opt-in source shall comply with the monitoring requirements of 40 CFR parts 74 and 75.
(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the opt-in source with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide under the Acid Rain Program.
(3) The requirements of 40 CFR parts 74 and 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the opt-in source under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements.

(1) The owners and operators of each opt-in source shall:
(i) Hold allowances, as of the allowance transfer deadline, in the opt-in source's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the opt-in source; and
(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a seperate violation of the Act.
(3) An opt-in source shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements upon the effective date of the opt-in source's opt-in permit.
(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program, including 40 CFR parts 73 and 74.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the opt-in permit application, or the opt-in permit, and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Excess Emissions Requirements.

(1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

1/16/07
Date

Cogentrix - Portsmouth	BLR02A
Plant Name (from Step 1)	Combustion Source ID#

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the opt-in source shall keep on site at the opt-in 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 prior to the end of the 5 years, in writing by the Administrator or permitting authority:

(i) The certificate of representation for the designated representative for the opt-in source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24, provided that the certificate and documents shall be retained on site at the opt-in source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
(ii) All emissions monitoring information, in accordance with 40 CFR part 75;
(iii) Copies of all reports, compliance certifications, and other submissions, and all records made or required under the Acid Rain Program; and
(iv) Copies of all documents used to complete an opt-in permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability.

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program or an opt-in permit, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such affected unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR part 76 (NO_x averaging plans), and except with regard to the requirements applicable to affected units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No provision of the Acid Rain Program, an opt-in permit application, or an opt-in permit shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certifications

I certify that, to the best of my knowledge and belief, the combustion source is not an affected unit under 40 CFR 72.6.

I certify that the data submitted under subpart C of part 74 reflects actual operations of the combustion source and has not been adjusted in any way.

I am authorized to make this submission on behalf of the owners and operators of the combustion source or opt-in sources 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	TRACY L PATTERSON II	
Signature	Tracy L Patterson II	Date 1/17/05

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Expires 1-31-96

EPA

Opt-In Permit Application

For more information, see instructions and refer to 40 CFR 74.16

STEP 1
Identify the facility by plant name, State, ORIS code from NADB (if known), and operator's name.

Plant Name	State	ORIS Code
COGENTRIX - PORTSMOUTH	VA	10071

Operating Company Name: COGENTRIX VIRGINIA LEASING CORP.

STEP 2
Identify the combustion source by unique ID number and short name assigned by the operating company.

Combustion Source ID#: BLR 02B

Short Name: Boiler 02B

STEP 3
Enter the requested information on the location of the source.

Plant Site Address: 1 WIND DUCK LANE
PORTSMOUTH, VA 23703

County	Latitude	Longitude
PORTSMOUTH CITY	365213	0762107

Plant Mailing Address: SAME AS ABOVE

STEP 4
Check the appropriate box.

Has the combustion source previously participated in the Opt-in Program?

☐ Yes ☒ No

If Yes, enter the effective date of the most recent opt-in permit ⟶ _____ mm/dd/yy

STEP 5
Briefly describe the combustion source and the facility. Attach the required information.

General facility description: COGENERATION FACILITY CONSISTING OF 2 ELECTRIC STEAM GENERATING UNITS. ELECTRICITY IS SOLD UNDER LONG TERM CONTRACT TO CONNECTED UTILITY WITH STEAM SOLD TO CONNECTED INDUSTRIAL HOST.

Combustion source description: FACILITY HAS SIX STOKER BOILERS. 3 BOILERS ARE COMBINED TO SUPPLY STEAM TO A TURBINE-GENERATOR AND EXHAUST TO A COMMON STACK, FOR TOTAL OF 2 GENERATING UNITS.

☒ A diagram showing the configuration of the combustion source and the facility is attached.

Date: 1/16/07

COGENTRIX - PORTSMOUTH
Plant Name (from Step 1)

BLR02B
Combustion Source ID#

STEP 6
Indicate whether the combustion source has SO_2 controls.

☐ Scrubber ☒ Other Controls (specify): FUEL SULFUR LIMIT (BACT) ☐ Uncontrolled

STEP 7
Check the top box and the second or third box and attach the required information.

☒ Two copies of a complete Monitoring Plan (as required by 40 CFR parts 74 and 75) are attached.

☒ A completed Certificate of Representation is attached.

☐ A completed Certificate of Representation has been previously submitted.

STEP 8
Specify the compliance plan for the combustion source. Check the second box to identify an additional method of compliance.

☒ Hold allowances in accordance with 40 CFR 72.9(c)(1).

☐ A Thermal Energy Plan is attached. This combustion source seeks to transfer allowances to one or more replacement units for the replacement of thermal energy.

STEP 9
Provide the required information on the operating history of the combustion source. Indicate that the required documentation is attached.

Date the combustion source commenced operation → 06/88 mm/yy

Number of hours the combustion source operated during the six months immediately preceding this application → 3871 hrs

	Start		End (Date of Application)
Preceding six months of operation →	07/06 mm/yy	-	12/06 mm/yy

☒ Data supporting determination of operating hours are attached.

STEP 10
Identify the time period for which the baseline data is provided.

☐ Baseline 1985 -1987

☒ Alternative Baseline, beginning with → 1989 year

☒ Combustion source began operation after 1985.

☐ Combustion source was subject to natural catastrophe during 1985-1987. Documentation of natural catastrophe is attached.

STEP 11
Complete and attach one worksheet for each type of fuel used at the combustion source.

Number of completed worksheets attached → 1 worksheets

1/16/07
Date

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Expires 1-31-96

Cogentrix - Portsmouth
Plant Name (from Step 1)

BLR 02B
Combustion Source ID# (from Step 2)

Opt-In Permit Application Worksheet

For more information, see instructions and refer to 40 CFR 74.20-74.22

Type of Fuel: Coal (a)

Heat Content Units: Btu/lb (b)

Control System Efficiency: 0 % (c)

Fuel Units: Kton

SO_2 Emissions Factor: 30,069 lb/kton

Fuel Pretreatment Efficiency: 0 % (d)

1985/1st Operating Year: 1989

1986/2nd Operating Year: 1990

1987/3rd Operating Year: 1991

1985/1st Year

	Quantity	% S	Heat Content	Fuel Consumption	Quantity	% S	Heat Content	Fuel Consumption	Quantity	% S	Heat Content	Fuel Consumption	SO_2 Emissions
Jan				mmBtu				mmBtu				mmBtu	lbs
Feb				mmBtu				mmBtu				mmBtu	lbs
Mar				mmBtu				mmBtu				mmBtu	lbs
Apr				mmBtu				mmBtu				mmBtu	lbs
May				mmBtu				mmBtu				mmBtu	lbs
June				mmBtu				mmBtu				mmBtu	lbs
July				mmBtu				mmBtu				mmBtu	lbs
Aug				mmBtu				mmBtu				mmBtu	lbs
Sep				mmBtu				mmBtu				mmBtu	lbs
Oct				mmBtu				mmBtu				mmBtu	lbs
Nov				mmBtu				mmBtu				mmBtu	lbs
Dec				mmBtu				mmBtu				mmBtu	lbs
ANNUAL	70.973	0.771	12678	1,799,640 mmBtu	71.141	0.713	12688	1,805,291 mmBtu	72.310	0.665	12729	1,849,898 mmBtu	

SEE ATTACHED SHEET

Total these values for each worksheet and transfer each total to Step 12 of the Opt-in Permit Application

1985/1st Operating Year Fuel Consumption	Average Annual Fuel Consumption	1985/1st yr SO_2 Emissions
1,799,640 mmBtu	1,815,276 mmBtu	2,134,087 lbs

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CVLC - Portsmouth
Historical Data for Opt-In Baseline
BLR02B

	1989				1990				1991			
	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)
	6.226	0.786	12678	157,875	6.488	0.669	12722	165,089	6.154	0.688	12623	155,355
	5.796	0.746	12677	146,960	5.695	0.758	12715	144,832	5.841	0.651	12710	148,470
	5.770	0.704	12670	146,203	5.974	0.743	12722	151,994	5.824	0.694	12609	146,870
	5.506	0.691	12702	139,874	5.810	0.763	12786	148,582	5.621	0.653	12718	142,984
	6.322	0.74	12668	160,183	5.944	0.784	12561	149,325	6.160	0.671	12918	159,150
	5.421	0.807	12609	136,715	5.893	0.705	12680	149,455	5.741	0.667	12737	146,246
	5.651	0.71	12620	142,640	5.725	0.732	12567	143,884	6.400	0.654	12765	163,383
	6.141	0.841	12797	157,181	6.138	0.738	12600	154,669	6.753	0.664	12736	172,004
	5.786	0.749	12764	147,705	5.853	0.675	12576	147,223	5.992	0.628	12699	152,176
	6.392	0.877	12600	161,087	6.073	0.658	12765	155,044	6.326	0.664	12769	161,562
	6.070	0.865	12630	153,337	5.474	0.66	12811	140,255	6.354	0.643	12707	161,481
	5.890	0.736	12724	149,880	6.074	0.67	12755	154,939	5.145	0.699	12751	131,216
Annual	**70.973**	**0.771**	**12678**	**1,799,640**	**71.141**	**0.713**	**12688**	**1,805,291**	**72.310**	**0.665**	**12729**	**1,840,898**

1st Operting Year Fuel Consumption
1,799,640

Average Annual Fuel Consumption
1,815,276

1st Operting Year SO2 Emissions
2,134,087

Cogentrix - Portsmouth
Plant Name (from Step 1)

BLR02B
Combustion Source ID#

STEP 12
For each fuel type used at the combustion source, indicate that a worksheet is attached, enter the total 1985 (or first year) fuel consumption from the bottom row of the worksheet, and enter the average of the total fuel consumption for the three operating years from the bottom row of the worksheet. Enter the SO_2 emissions for the first operating year from each worksheet.

Fuel Type	Total 1985 (or first year) Fuel Consumption	Average Annual Fuel Consumption	SO_2 Emissions for 1985 (or first year)
[X] Bituminous Coal	1,791,259 mmBtu	1,838,856 mmBtu	2,123,984 lbs
[ ] Subbituminous Coal	mmBtu	mmBtu	lbs
[ ] Lignite Coal	mmBtu	mmBtu	lbs
[ ] Distillate Oil	mmBtu	mmBtu	lbs
[ ] Residual Oil	mmBtu	mmBtu	lbs
[ ] Natural Gas	mmBtu	mmBtu	lbs
[ ] Other (describe):	mmBtu	mmBtu	lbs
[ ] Other (describe):	mmBtu	mmBtu	lbs

STEP 13
Enter the total 1985 (or first year) fuel consumption, the total average annual fuel consumption, and the total 1985 (or first year) actual SO_2 emissions for all fuels used.

(a) Total 1985 (or first year) Fuel Consumption	(b) Total Average Annual Fuel Consumption (Baseline)	(c) Total SO_2 Emissions for 1985 (or first year)
1,791,259 mmBtu	1,838,856 mmBtu	2,123,984 lbs

STEP 14
Calculate the actual 1985 (or first year) SO_2 emissions rate.

Total SO_2 Emissions for 1985 (or first year)		Total 1985 (or first year) Fuel Consumption		Actual 1985 (or first year) SO_2 Emissions Rate
2,123,984 lbs	÷	1,791,259 mmBtu	=	1.19 lbs/mmBtu

1/16/07
Date

COGENTRIX- PORTSMOUTH	BLR02B
Plant Name (from Step 1)	Combustion Source ID#

STEP 15
Enter information for the 1985 (or first year) allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	
Annualization Factor	X		0.89	
Annualized Rate	=	1.35	lbs/mmBtu	

STEP 16
Enter the current allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	

STEP 17
Enter the current promulgated SO_2 emissions limit, if different from the current allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	

STEP 18
Identify the regulatory citations for the SO_2 emissions limits in Steps 15-17.

Regulatory Limit	Effective Date	Regulatory Citation and Name of Permitting Authority
1985 (1st yr) Allowable (Step 15)	12/23/1986	REGISTRATION 61049 SECTION 120-05-0403 VaDEQ
Current Allowable (Step 16)	5/31/2001	REG. 61049 9VAC 5-50-280 VaDEQ
Current Promulgated (Step 17)	5/31/2001	REG 61049 9 VAC 5-50-280 VaDEQ

1/16/07
Date

Cogentrix - Portsmouth
Plant Name (from Step 1)

BLR02B
Combustion Source ID#

STEP 19
Calculate and enter the proposed allowances for the combustion source.

Baseline (Step 13(b))		Lowest of 3 SO_2 Emission Rates			Proposed Allowances
1,815,276 mmBtu	x	1.19 lbs/mmBtu	÷ 2,000	=	1080 allowances

STEP 20
Calculate and enter the proposed allowances for the combustion source, if the current promulgated SO_2 emissions limit differs from the current allowable SO_2 emissions rate.

Baseline (Step 13(b))		Lowest of 4 SO_2 Emission Rates			Proposed Allowances
1,815,276 mmBtu	x	1.19 lbs/mmBtu	÷ 2,000	=	1080 allowances

STEP 21
Read the Opt-in Program requirements and certifications, and sign and date.

Opt-in Program Requirements

Permit Requirements.

(1) The designated representative of each combustion source under 40 CFR part 74 shall:
(i) Submit a complete opt-in permit application (including a compliance plan).
(ii) Submit in a timely manner any supplemental information that the Administrator or the permitting authority determines is necessary to review an opt-in permit application and issue or deny an opt-in permit;
(2) The owners and operators of each combustion source under 40 CFR part 74 shall:
(i) Have an opt-in permit; and
(ii) Operate the opt-in source in compliance with the opt-in permit.

Monitoring Requirements.

(1) The owners and operators and, to the extent applicable, the designated representative of each combustion source and each opt-in source shall comply with the monitoring requirements of 40 CFR parts 74 and 75.
(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the opt-in source with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide under the Acid Rain Program.
(3) The requirements of 40 CFR parts 74 and 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the opt-in source under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements.

(1) The owners and operators of each opt-in source shall:
(i) Hold allowances, as of the allowance transfer deadline, in the opt-in source's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the opt-in source; and
(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
(3) An opt-in source shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements upon the effective date of the opt-in source's opt-in permit.
(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program, including 40 CFR parts 73 and 74.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the opt-in permit application, or the opt-in permit, and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Excess Emissions Requirements.

(1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

1/16/07
Date

Cogentrix - Portsmouth	BLR02B
Plant Name (from Step 1)	Combustion Source ID#

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the opt-in source shall keep on site at the opt-in 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 prior to the end of the 5 years, in writing by the Administrator or permitting authority:

(i) The certificate of representation for the designated representative for the opt-in source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24, provided that the certificate and documents shall be retained on site at the opt-in source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
(ii) All emissions monitoring information, in accordance with 40 CFR part 75;
(iii) Copies of all reports, compliance certifications, and other submissions, and all records made or required under the Acid Rain Program; and
(iv) Copies of all documents used to complete an opt-in permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability.

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program or an opt-in permit, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such affected unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR part 76 (NO$_x$ averaging plans), and except with regard to the requirements applicable to affected units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No provision of the Acid Rain Program, an opt-in permit application, or an opt-in permit shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certifications

I certify that, to the best of my knowledge and belief, the combustion source is not an affected unit under 40 CFR 72.6.

I certify that the data submitted under subpart C of part 74 reflects actual operations of the combustion source and has not been adjusted in any way.

I am authorized to make this submission on behalf of the owners and operators of the combustion source or opt-in sources 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 TRACY L PATTERSON II	
Signature Tracy L Patterson II	Date 1/18/07

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Expires 1-31-96

EPA

Opt-In Permit Application

For more information, see instructions and refer to 40 CFR 74.16

STEP 1
Identify the facility by plant name, State, ORIS code from NADB (if known), and operator's name.

Plant Name	State	ORIS Code
COGENTRIX - PORTSMOUTH	VA	10071

Operating Company Name: COGENTRIX VIRGINIA LEASING CORP.

STEP 2
Identify the combustion source by unique ID number and short name assigned by the operating company.

Combustion Source ID#: BLR 02C

Short Name: Boiler 02C

STEP 3
Enter the requested information on the location of the source.

Plant Site Address: 1 WILD DUCK LANE
PORTSMOUTH, VA 23703

County	Latitude	Longitude
PORTSMOUTH CITY	365213	0762107

Plant Mailing Address: SAME AS ABOVE

STEP 4
Check the appropriate box.

Has the combustion source previously participated in the Opt-in Program?

☐ Yes ☒ No

If Yes, enter the effective date of the most recent opt-in permit ⟶ _____ mm/dd/yy

STEP 5
Briefly describe the combustion source and the facility. Attach the required information.

General facility description: COGENERATION FACILITY CONSISTING OF 2 ELECTRIC STEAM GENERATING UNITS. ELECTRICITY IS SOLD UNDER LONG TERM CONTRACT TO CONNECTED UTILITY WITH STEAM SOLD TO CONNECTED INDUSTRIAL HOST.

Combustion source description: FACILITY HAS SIX STOKER BOILERS. 3 BOILERS ARE COMBINED TO SUPPLY STEAM TO A TURBINE-GENERATOR AND EXHAUST TO A COMMON STACK, FOR TOTAL OF 2 GENERATING UNITS.

☒ A diagram showing the configuration of the combustion source and the facility is attached.

EPA Form 7610-26 (4-95)

Date: 1/16/07

COGENTRIX - PORTSMOUTH
Plant Name (from Step 1)

BLR 02C
Combustion Source ID#

STEP 6
Indicate whether the combustion source has SO_2 controls.

☐ Scrubber ☒ Other Controls (specify): FUEL SULFUR LIMIT (BACT) ☐ Uncontrolled

STEP 7
Check the top box and the second or third box and attach the required information.

☒ Two copies of a complete Monitoring Plan (as required by 40 CFR parts 74 and 75) are attached.

☒ A completed Certificate of Representation is attached.

☐ A completed Certificate of Representation has been previously submitted.

STEP 8
Specify the compliance plan for the combustion source. Check the second box to identify an additional method of compliance.

☒ Hold allowances in accordance with 40 CFR 72.9(c)(1).

☐ A Thermal Energy Plan is attached. This combustion source seeks to transfer allowances to one or more replacement units for the replacement of thermal energy.

STEP 9
Provide the required information on the operating history of the combustion source. Indicate that the required documentation is attached.

Date the combustion source commenced operation → 06/88 mm/yy

Number of hours the combustion source operated during the six months immediately preceding this application → 3901 hrs

Preceding six months of operation → Start 07/06 mm/yy - End (Date of Application) 12/06 mm/yy

☒ Data supporting determination of operating hours are attached.

STEP 10
Identify the time period for which the baseline data is provided.

☐ Baseline 1985 -1987

☒ Alternative Baseline, beginning with → 1989 year

☒ Combustion source began operation after 1985.

☐ Combustion source was subject to natural catastrophe during 1985-1987. Documentation of natural catastrophe is attached.

STEP 11
Complete and attach one worksheet for each type of fuel used at the combustion source.

Number of completed worksheets attached → 1 worksheets

1/16/07
Date

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Expires 1-31-96

Cogentrix - Portsmouth
Plant Name (from Step 1)

BLR02C
Combustion Source ID# (from Step 2)

Opt-In Permit Application Worksheet

For more information, see instructions and refer to 40 CFR 74.20-74.22

Type of Fuel: Coal Heat Content Units: Btu/lb Control System Efficiency: ϕ %

Fuel Units: Kton SO_2 Emissions Factor: 30,069 lb/kton Fuel Pretreatment Efficiency: ϕ %

	(a)				(b)				(c)				(d)
	1985/1st Operating Year: 1989				1986/2nd Operating Year: 1990				1987/3rd Operating Year: 1991				1985/1st Year
	Quantity	% S	Heat Content	Fuel Consumption	Quantity	% S	Heat Content	Fuel Consumption	Quantity	% S	Heat Content	Fuel Consumption	SO_2 Emissions
Jan				mmBtu				mmBtu				mmBtu	lbs
Feb				mmBtu				mmBtu				mmBtu	lbs
Mar				mmBtu				mmBtu				mmBtu	lbs
Apr				mmBtu				mmBtu				mmBtu	lbs
May				mmBtu				mmBtu				mmBtu	lbs
June				mmBtu				mmBtu				mmBtu	lbs
July				mmBtu				mmBtu				mmBtu	lbs
Aug				mmBtu				mmBtu				mmBtu	lbs
Sep				mmBtu				mmBtu				mmBtu	lbs
Oct				mmBtu				mmBtu				mmBtu	lbs
Nov				mmBtu				mmBtu				mmBtu	lbs
Dec				mmBtu				mmBtu				mmBtu	lbs
ANNUAL	70.973	0.771	12678	1,799,640 mmBtu	71.141	0.713	12688	1,805,291 mmBtu	72.310	0.665	12729	1,849,898 mmBtu	

SEE ATTACHED SHEET

Total these values for each worksheet and transfer each total to Step 12 of the Opt-in Permit Application

1985/1st Operating Year Fuel Consumption	Average Annual Fuel Consumption	1985/1st yr SO_2 Emissions
1,799,640 mmBtu	1,815,276 mmBtu	2,134,087 lbs

EPA Form 7610-26W (4-95)

06/22/05 14:48 FAX 015

CVLC - Portsmouth
Historical Data for Opt-In Baseline
BLR02C

	1989				1990				1991			
	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)	Fuel Burned (x1000 tons)	%S	Heat Content (Btu/lb)	Fuel Consumption (mmBtu)
	6.226	0.786	12678	157,875	6.488	0.669	12722	165,089	6.154	0.688	12623	155,355
	5.796	0.746	12677	146,960	5.695	0.758	12715	144,832	5.841	0.651	12710	148,470
	5.770	0.704	12670	146,203	5.974	0.743	12722	151,994	5.824	0.694	12609	146,870
	5.506	0.691	12702	139,874	5.810	0.763	12786	148,582	5.621	0.653	12718	142,984
	6.322	0.74	12668	160,183	5.944	0.784	12561	149,325	6.160	0.671	12918	159,150
	5.421	0.807	12609	136,715	5.893	0.705	12680	149,455	5.741	0.667	12737	146,246
	5.651	0.71	12620	142,640	5.725	0.732	12567	143,884	6.400	0.654	12765	163,383
	6.141	0.841	12797	157,181	6.138	0.738	12600	154,669	6.753	0.664	12736	172,004
	5.786	0.749	12764	147,705	5.853	0.675	12576	147,223	5.992	0.628	12699	152,176
	6.392	0.877	12600	161,087	6.073	0.658	12765	155,044	6.326	0.664	12769	161,562
	6.070	0.865	12630	153,337	5.474	0.66	12811	140,255	6.354	0.643	12707	161,481
	5.890	0.736	12724	149,880	6.074	0.67	12755	154,939	5.145	0.699	12751	131,216
Annual	**70.973**	**0.771**	**12678**	**1,799,640**	**71.141**	**0.713**	**12688**	**1,805,291**	**72.310**	**0.665**	**12729**	**1,840,898**

1st Operting Year Fuel Consumption	Average Annual Fuel Consumption	1st Operting Year SO2 Emissions
1,799,640	**1,815,276**	**2,134,087**

Cogentrix - Portsmouth
Plant Name (from Step 1)

BLR02C
Combustion Source ID#

STEP 12
For each fuel type used at the combustion source, indicate that a worksheet is attached, enter the total 1985 (or first year) fuel consumption from the bottom row of the worksheet, and enter the average of the total fuel consumption for the three operating years from the bottom row of the worksheet. Enter the SO_2 emissions for the first operating year from each worksheet.

Fuel Type	Total 1985 (or first year) Fuel Consumption	Average Annual Fuel Consumption	SO_2 Emissions for 1985 (or first year)
[X] Bituminous Coal	1,791,259 mmBtu	1,838,856 mmBtu	2,123,984 lbs
[ ] Subbituminous Coal	mmBtu	mmBtu	lbs
[ ] Lignite Coal	mmBtu	mmBtu	lbs
[ ] Distillate Oil	mmBtu	mmBtu	lbs
[ ] Residual Oil	mmBtu	mmBtu	lbs
[ ] Natural Gas	mmBtu	mmBtu	lbs
[ ] Other (describe):	mmBtu	mmBtu	lbs
[ ] Other (describe):	mmBtu	mmBtu	lbs

STEP 13
Enter the total 1985 (or first year) fuel consumption, the total average annual fuel consumption, and the total 1985 (or first year) actual SO_2 emissions for all fuels used.

(a) Total 1985 (or first year) Fuel Consumption	(b) Total Average Annual Fuel Consumption (Baseline)	(c) Total SO_2 Emissions for 1985 (or first year)
1,791,259 mmBtu	1,838,856 mmBtu	2,123,984 lbs

STEP 14
Calculate the actual 1985 (or first year) SO_2 emissions rate.

Total SO_2 Emissions for 1985 (or first year)		Total 1985 (or first year) Fuel Consumption		Actual 1985 (or first year) SO_2 Emissions Rate
2,123,984 lbs	÷	1,791,259 mmBtu	=	1.19 lbs/mmBtu

1/16/07
Date

COGENTRIX- PORTSMOUTH	BLR02C
Plant Name (from Step 1)	Combustion Source ID#

STEP 15
Enter information for the 1985 (or first year) allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	
Annualization Factor	X		0.89	
Annualized Rate	=	1.35	lbs/mmBtu	

STEP 16
Enter the current allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	

STEP 17
Enter the current promulgated SO_2 emissions limit, if different from the current allowable SO_2 emissions rate.

		Limit	Units of Measure	Averaging Period
Regulatory Limit		1.52	lb/MMBTU	NOT SPECIFIED
Conversion Factor	X		1.00	
Converted Rate	=	1.52	lbs/mmBtu	

STEP 18
Identify the regulatory citations for the SO_2 emissions limits in Steps 15-17.

Regulatory Limit	Effective Date	Regulatory Citation and Name of Permitting Authority
1985 (1st yr) Allowable (Step 15)	12/23/1986	REGISTRATION 61049 SECTION 120-05-0403 VaDEQ
Current Allowable (Step 16)	5/31/2001	REG. 61049 9VAC 5-50-280 VaDEQ
Current Promulgated (Step 17)	5/31/2001	REG 61049 9 VAC 5-50-280 VaDEQ

1/16/07
Date

Cogentrix - Portsmouth
Plant Name (from Step 1)

BLR 02C
Combustion Source ID#

STEP 19
Calculate and enter the proposed allowances for the combustion source.

Baseline (Step 13(b))		Lowest of 3 SO_2 Emission Rates			Proposed Allowances
1,815,276 mmBtu	x	1.19 lbs/mmBtu	÷ 2,000	=	1080 allowances

STEP 20
Calculate and enter the proposed allowances for the combustion source, if the current promulgated SO_2 emissions limit differs from the current allowable SO_2 emissions rate.

Baseline (Step 13(b))		Lowest of 4 SO_2 Emission Rates			Proposed Allowances
1,815,276 mmBtu	x	1.19 lbs/mmBtu	÷ 2,000	=	1080 allowances

STEP 21
Read the Opt-in Program requirements and certifications, and sign and date.

Opt-In Program Requirements

Permit Requirements.

(1) The designated representative of each combustion source under 40 CFR part 74 shall:
(i) Submit a complete opt-in permit application (including a compliance plan).
(ii) Submit in a timely manner any supplemental information that the Administrator or the permitting authority determines is necessary to review an opt-in permit application and issue or deny an opt-in permit;
(2) The owners and operators of each combustion source under 40 CFR part 74 shall:
(i) Have an opt-in permit; and
(ii) Operate the opt-in source in compliance with the opt-in permit.

Monitoring Requirements.

(1) The owners and operators and, to the extent applicable, the designated representative of each combustion source and each opt-in source shall comply with the monitoring requirements of 40 CFR parts 74 and 75.
(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the opt-in source with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide under the Acid Rain Program.
(3) The requirements of 40 CFR parts 74 and 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the opt-in source under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements.

(1) The owners and operators of each opt-in source shall:
(i) Hold allowances, as of the allowance transfer deadline, in the opt-in source's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the opt-in source; and
(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
(3) An opt-in source shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements upon the effective date of the opt-in source's opt-in permit.
(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program, including 40 CFR parts 73 and 74.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the opt-in permit application, or the opt-in permit, and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Excess Emissions Requirements.

(1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

1/16/07
Date

Cogentrix - Portsmouth	BLR02C
Plant Name (from Step 1)	Combustion Source ID#

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the opt-in source shall keep on site at the opt-in 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 prior to the end of the 5 years, in writing by the Administrator or permitting authority:

(i) The certificate of representation for the designated representative for the opt-in source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24, provided that the certificate and documents shall be retained on site at the opt-in source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
(ii) All emissions monitoring information, in accordance with 40 CFR part 75;
(iii) Copies of all reports, compliance certifications, and other submissions, and all records made or required under the Acid Rain Program; and
(iv) Copies of all documents used to complete an opt-in permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

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(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program or an opt-in permit, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such affected unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR part 76 (NO_x averaging plans), and except with regard to the requirements applicable to affected units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No provision of the Acid Rain Program, an opt-in permit application, or an opt-in permit shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State implementation Plans;
(2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certifications

I certify that, to the best of my knowledge and belief, the combustion source is not an affected unit under 40 CFR 72.6.

I certify that the data submitted under subpart C of part 74 reflects actual operations of the combustion source and has not been adjusted in any way.

I am authorized to make this submission on behalf of the owners and operators of the combustion source or opt-in sources 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	TRACY L PATTERSON II	
Signature	Tracy L Patterson II	Date 1/16/07

Boiler Operating Hours
Cogentrix Virginia Leasing Corp. - Portsmouth

UNIT 1	Boiler "1A"	"1B"	"1C"	Total Fired
Jul-06	721	716	720	2,158
Aug-06	735	704	738	2,177
Sep-06	567	522	509	1,598
Oct-06	663	654	650	1,966
Nov-06	592	613	597	1,801
Dec-06	704	635	637	1,976
TOTAL	3,982	3,843	3,851	11,677

UNIT 2	Boiler "2A"	"2B"	"2C"	Total Fired
Jul-06	719	723	719	2,160
Aug-06	737	725	724	2,187
Sep-06	646	594	606	1,846
Oct-06	675	652	640	1,966
Nov-06	580	544	575	1,699
Dec-06	713	634	636	1,984
TOTAL	4,069	3,871	3,901	11,841

OCR

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

Cogentrix Virginia Lesocorporation
One Wild Duck Lane
Portsmouth VA 23703
Cogentrix Tel 757-484-3570
Fax 757-484-7338

June 27,.2007

Ms. Jane Workman
Air Permit Manager
Virginia Department of Environmental Quality
Tidewater Regional Office
-'00?
5636 Southem Blvd. '@/V'tu
Virginia Beach, VA 23462 Q04N

Subject: CAIR.Permit.Application-
Facility I.D. No. 51-740-00081, Reg. No. 61049
j Cogentrix Virginia Leasing Corporation, 000

Dear Ms. Workman,

Please fmd enclosed with this letter a completed original CAIR PerTnit Applica tion and Form
7 Geneml Infonnation pages 1-3 for the subject facility.

Please cafl me at (757) 484-3540 if you have any questions or require addition al inforination.

Sincerely,

Gary u s
General Manager

cc:
Mr. Jerome Curtin - USEPA Region III
Lauren Billheimer - Cogentrix Air Quality Manager
Plant Files - EHS PM 2.4.1

CAIR PA-nit Application Page 1

(for sources covered under a CAIR SIP)

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

This submission is: KNew 0 Revised
STEP I Le&s -I
Identify the source Pbtr@;VA'Ou* @1 State
by plant name, Plant Name (f VA ORIS/Facility Code r067

State, ano uKib or
facility code

STEP 2 Unit ID# NOx Annual S02 NOx Ozone Season
Enter the unit ID# for
each CAIR unit and
indicate to which L

CAIR programs each ROIA

unit is subject (by
placing an "X" in the 19 L B
column)
ROIC

0 -2-

C)'Z

VI'

ZI)2 @@'

XI
jUN 2007

REGI -I\fi:U
DEVIMEWATER "JI
cb,

STEP 3 Standard Requirements
Read the standard
requirements and (a) Permit Requirements.
the certification, (1) The CAIR designated representative of each CAIR NOx sou
rce, CAIR S02 source, and CAIR NOx Ozone Season
enter the name of source (as applicable) required to have a title V operating
permit and each CAIR NOx unit, CAIR S02 unit, and CAIR NOx
the CAIR designated Ozone Season unit (as applicable) required to have a tftle
V operating permit at the source shall:

representative,. and (i) Submit to the permifting authority a complete CAIR pe
rmit application under 96.122, 96.222, and 96.322 (as
sign and date applicable) in accordance with the deadlines specified in 96.12
1, 96.221, and 96.321 (as applicable); and
(H) Submit in a timely manner any supplemental information th0t the permifting
authority determines is necessary in order
to review a CAIR perrnit application and issue or deny a CAIR permit.
(2) The owners and operators of each CAIR NOx source, CAIR S02 source, and CAI
R NOx Ozone Season source (as
applicable) required to have a title V operating permit and each CAIR NOx unit
, CAIR S02 unit, and CAIR NOx Ozone
Season unit (as applicable) required to have a tftle V operating permit at the
source shall have a CAIR permit issued by the
permiffing 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 11, 111, and 1111 (as applicable) of 40 CFR
part 96, the owners and operators of a CAIR NOx
sourbe, CAIR S02 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 S02 unit, and CAIR NOx Ozone S
eason unft (as applir-able) that is not
otherwise required to have a title V operating permit are not required to subm
it 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 S02
source, and CAIR NOx Ozone Season source (as applicable) and such CAIR NOx uni
t, CAIR S02 unit, and CAIR NOx Ozone
Season unit (as applicable).

STEP 3, (b) Monitoring, reporting, and recordkeeping re(iuirements.
continued (1) The owners and operators, and the CAIR designated representative, of each CAIR NOx source, CAIR S02 source, and
CAIR NOx Ozone Season source (as applicable) and each CAIR NOx unit, CAIR S02 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 S02 source, and CAIR NOx
Ozone Season source (as applicable) with the CAIR NOx emissions limitation, CAIR S02 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 NOx source and
each CAIR NOx unit at the source shall hold, in the source's compliance account, CAIR NOx allowances available for
compliance deductions for the control period under 96.154(a) in an amount noHess than the tons of total nitrog en oxides
emissions for the control period from all CAIR NOx units at the source, as determined in accordance with subpart HH of 40
CFR part 96.
(2) A CAIR NOx 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 NOx 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 NOx allowance was allocated.
(4) CAIR NOx allowances shall be held in, deducted from, or transferred into or among CAIR NOx Allowance Tracking
System accounts in accordance with subparts FF, GG, and 11 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
Annual Trading Program. No provision of the CAIR NOx 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 NOx allowance does not constitute a property right.
(7) Upon recordation by the Administrator under subpart EE, FF, GG, or 11 of 40 CFR part 96, every allocation, transfer, or
deduction of a CAIR NOx allowance to or from a CAIR NOx source's compliance account is incorporated automatically in any
CAIR permit of the source that includes the CAIR NOx unit.
Sulfur dioxide emission requirements.
(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR S02 source and
each CAIR S02 unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR S02
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 S02 units at the source, as determined in accordance with
subpart HHH of 40 CFR part 96.

(2) A CAIR S02 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, 201 0 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 S02 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 S02 allowance was allocated.
(4) CAIR S02 allowances shall be held in, deducted from, or transferred into or among CAIR S02 Allowance Tracking System accounts in accordance with subparts FFF, GGG, and III of 40 CFR part 96.
(5) A CAIR S02 allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR S02 Trading Program. No provision of the CAIR S02 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 S02 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 S02 allowance to or from a CAIR S02 source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR S02 unit.
Nitrogen oxides ozone season emissions requirements.
(1) As of the affowance transfer deadline for a control period, the owners and operators of each CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NOx 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 NOx Ozone Season units at the source, as determined in accordance with subpart HHHH of 40 CFR part 96.
(2) A CAIR NOx 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 NOx Ozone Season allowance shall not be deducted, for compliance with the7 requirements under paragraph (c)(1) of 96.306, for a control period in a calendar year before the year for which the CAIR NOx Ozone Season allowance was alfocated.
(4) CAIR NOx Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NOx Ozone Season Allowance Tracking System accounts in accordance with subparts FFFF, GGGG, and 1111 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 III 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.

Am@ Adik

CAIR Permit Application
-t Page 3
i(@' twtx&A
Plant Name (from Step 1) 6' q E. WAZO

STEP 3, (d) Excess emissio ns requirements.
continued 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 sourc e shall surrender the CAIR NOx
allowances required for deduction under 96.154(d)(1) and pay any fine, penalt y, 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 shal l constitute a separate violation of this
subpart, the Clean Air Act, and applicable State law.

If a CAIR S02 source emits sulfur dioxide during any control period in excess of the CAIR S02 emissions limitation, then:
(1) The owners and operators of the source and each CAIR S02 unit at the sourc e shall surrender the CAIR S02
allowances required for deduction under 96.254(d)(1) and pay any fine, penalt y, 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 shal l 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 per iod 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) an d pay any fine, penalty, or assessment
or comply with any other remedy imposed, for the same violations, under the Cl ean Air Act or applicable State law; and
(2) Each ton of such excess emissions and each day of such control period shal l 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 CAfR NOx source , CAIR S02 source, and CAIR NOx
Ozone Season source (as applicable) and each CAIR NOx unit, CAIR S02 unit, and CAIR NOx Ozone Season unit (as
applicable) at the source shall keep on site at the source each of the followi ng documents for a period of 5 years from the
date the document is created. This period may be extended for cause, at any t ime 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 NOx unit, CAIR S02 unit, and CAIR NOx Ozone Season unit (as applicable) at
the source and all documents that demonstrate the truth of the statements in t he certificate of representation; provided that
the certificate and documents shall be retained on site at the source beyond s uch 5-year period until such documents are
superseded because of the submission of a new certificate of representation un der 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 NOx Annual Trading Program, CAIR S02 Trading Program, and CAIR NOx 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 NOx Annual Trading Program, CAIR S02 Trading Program, and CAIR NOx Ozone Season Trading Program (as applicable) or to demonstrate compliance with the requirements of the CAIR NOx Annual Trading Program, CAIR S02 Trading Program, and CAIR NOx Ozone Season Trading Program (as applicable).
(2) The CAIR designated representative of a CAIR NOx source, CAIR S02 source, and CAIR NOx Ozone Season source (as applicable) and each CAIR NOx unit, CAIR S02 unit, and CAIR NOx Ozone Season unit (as applicable) at the source shall submit the reports required under the CAIR NOx Annual Trading Program, CAIR S02 Trading Program, and CAIR NOx Ozone Season Trading Program (as applicable) including those under subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96.

Liability.
(1) Each CAIR NOx source, CAIR S02 source, and CAIR NOx Ozone Season source (as applicable) and each NOx unit, CAIR S02 unit, and CAIR NOx Ozone Season unit (as applicable) shall meet the requirements of the CAIR NOx Annual Trading Program, CAIR S02 Trading Program, and CAIR NOx Ozone Season Trading Program (as applicable).
(2) Any provision of the CAIR NOx Annual Trading Program, CAIR S02 Trading Program, and CAIR NOx Ozone Season Trading Program (as applicable) that applies to a CAIR NOx source, CAIR S02 source, and CAIR NOx Ozone Season source (as applicable) or the CAIR designated representative of a CAIR NOx source, CAIR S02 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, GAIR S02 units, and CAIR NOx Ozone Season units (as applicable) at the source.
(3) Any provision of the CAIR NOx Annual Trading Program, CAIR S02 Trading Program, and CAIR NOx Ozone Season Trading Program (as applicable) that applies to a CAIR NOx unit, CAIR S02 unit, and CAIR NOx Ozone Season unit (as applicable) or the CAIR designated representative of a CAIR NOx unit, CAIR S02 unit, and CAIR NOx Ozone Season unit (as applicable) shall also apply to the owners and operators of such unit.

Plant Name (from Step 1) Gq-@OrAkjt@- @SVVI-6 2111,

STEP 3, (g) Effect on Other Authorities.
continued No provision of the CAIR NOx Annual Trading Program, CAIR S02 Tradin g Program, and CAIR NOx Ozone Season Trading
Program (as applicable), a CAIR permit application, a CAIR permit, or an exemp tion under 96.105. 96.205, and 96.305
(as applicable) shall be construed as exempting or excluding the owners and op erators, and the CAIR designated
representative, of a CAIR NOx source, CAIR S02 Source, and CAIR NOx Ozone Seas on source (as applicable) or CAIR NOx
unit, CAI R S02 unit, and CAI R NOx Ozone Season unit (as applicable) from com pliance 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 exa mined, and am familiar with, the statements and
information submitted in this document and all its attachments. Based on my i nquiry of those individuals with primary
responsibility for obtaining the information, I certify that the statements an d information are to the best of my knowledge and
belief true, accurate, and complete. I am aware that there are significant pe nalties for submitting false statements and
information or omitting required statements and information, including the pos sibility of fine or imprisonment.

dlkCl,@t t/Z
Name Z- OLU A. eA)

Signature Date

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality

87
CHECK ALL FORMS THAT APPLY AND LIST ALL ATTACHED DOCUMENTS.

MAP AND LOCALITIES LIST (information), Pages iii-vi - PAST ACTUAL ANNUAL CRITE RIA POLLUTANT EMISSIONS, Page 15

CONFIDENTIAL INFORMATION, Page vii-viii - TOXIC OR HAP EMISSIONS, Page 16

FORMULA-BASED HAZARDOUS AIR POLLUTANT INFORMATION, Page ix - OTHER REGULATED E MISSIONS, Page 17

HAZARDOUS AIR POLLUTANT LIST (information), Pages xi-xii -OPERATING PERIODS. P age 1 8

- REQUEST FOR LOCAL GOVERNMENT CERTIFICATION FORM, Page xiii
LIST ATTACHED DOCUMENTS
- CONTENTS AND DOCUMENT CERTIFICATION, Page 1
MAP of SITE LOCATION
- GENERAL INFORMATION, Page 2
FACILITY SITE PLAN
- GENERAL INFORMATION (continued), Page 3
PROCESS FLOW DIAGRAMISCHEMATIC
- FUEL-BURNING EQUIPMENT, Page 4
MSDS or CPDS SHEETS
- PROCESSING, Page 5
ESTIMATED EMISSIONS CALCULATIONS
- INKS, COATINGS, STAINS, AND ADHESIVES, Page 6
STACK TESTS
- INCINERATORS, Page 7
AIR MODEL DATA
-VOLATILE ORGANIC COMPOUND/PETROLEUM STORAGE TANKS, Page 8

VOLATILE ORGANfC COMPOUNDIPETROLEUM STORAGE TANKS -
CONTINUED, Page 9

- LOADING RACKS AND OIL-WATER SEPARATORS, Page 10

- STACK PARAMETERS AND FUEL DATA, Page I 1

- AIR POLLUTION CONTROL AND MONrFORING EQUIPMENT, PAGE 12

-AIR POLLUTION CONTROUSUPPLEMENTAL INFORMATION, PAGE 13

- 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 underpenalty of law that this documentandaflattachments[as notedabov

e] werepreparedundermy

direction orsupervision in accordance with a system designedto assure thatqual ifiedpersonnelproperlygatherand

evaluate the information submitted. Based on my inquiry of the person orperso ns who manage the system, or those

persons directly responsible for gathering and evaluating the information, the infonnation submitted is, to the best of

my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties forsubmitting

false information, including the possibility of fine and imprisonment for know ing 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 goveming the major NSR program and does not

relieve the source of the ri s o s' I CC) ly with any applicable provision of the major NSR regulations.

SIGNATURE: lim- DATE: 0 2

NAME: as

eK ma vktA er REGISTRATION
TITLE: 02A_

COMPANY: Gag-r-')@ y-A, L" ea'-` NUMBER: (o I 0 4-61
J 5@@

References: Virginia Regulations for the Control and emE llution (Regulations) , 9 VAC 5-20-230B and 9 VAC 5-80-1140E. See reverse of this

form for instructions.

COMMONWEALTH OF VIRGINIA DEPART OF ENVIRONMENTAL QUALITY
AIR PERMIT APPLICATION GENERAL INFSATiON la

PERSON COMPLETING FORM DATE REGISTRATION NUMBER
u.s-s- jW k@

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

STATE OPERATING PERMIT THIS PERMIT IS APPLIED FOR PURSUANT TO PROVISIONS OF TH
E
VIRGINIA ADMINISTRATIVE CODE, 9 VAC 5 Chapter 80, Article 5 (SOP)

=NEW (Greenfield) SOLTRCE THIS PERMIT IS APPLIED FOR PURSUANT TO THE
FOLLOWING PROVISION(S) OF THE VIRGINIA ADMINISTRATIVE CODE:
MODIFTCATION of a SOURCE 9 VAC 5 Chapter 80, Art. 6 (MINOR SOURCES)

9 VAC 5 Chapter 80, A-rt. 8 (PSD MAJOR SOURCES)

RELOCATION of a SOURCE 9 VAC 5 Chapter 80, Art. 9 (NON-ATTAINMENT MAJOR SOURCE
S)

Non-Binding Letter of EXEMPTION

AMEND1,ENT to a Permit dated: Permit type: = SOP (Art. 5) = NSR Art.6)

Amendment Type: THIS AMENDMENT IS REQUESTED PURSUANT TO THE PROVISIONS OF:

Administrative Amendment 9 VAC 5-80-970 (SOP Adm.) 9 VAC 5-80-1270 (NSR Adm.)

Minor Amendment 9 VAC 5-80-980 (SOP Minor) 9 VAC 5-80-1280 (NSR Minor)

Significant Amendment 9 VAC 5-80-990 (SOP Sig.) 9 VAC 5-80-1290 (NSR. Sig.)

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

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:
o,

MAILING ADDRESS: OtA e_ Ukj'AA bo_&_ Por-@<VrbLch\Wi@ 23-763

BER OF EMPLOYEES AT SITE: @ PROPERTYAREAATSITE:
- LH 1 " Cl
MS7- 4W> 4-3 40
TELEPHONE NUMBER:

EXACT SOURCE LOCATION - INCLUDE NAME OF Cl COUNTY) AND FULL STREET ADDRESS OR
DIRECTIONS:
Ov\,e- UJ ct b wdc L_ a,,, -,.-P 'o +& r,.LJ,41\ ktt !:@-, V-,@ej,
PERSON TO CONTACT ON AIR POLLUTION MATTERS - NAME AND TITLE: PH'ON5AUMBER: 7-5
-7 - LFIN - -3-SLto Y-27
17\%xS!@-eLj111-%-te, FAXNUMBER: -757- Lt-94-- 733,9
VZsGe- -- E0 \("" rt, I,- w1le.1-i I E-MAIL ADDRESS:
14 V'4,r-,&4 Ifykt&55j,@J k' i7e-& col-p-Imt Cd V),

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

FOR OFFICIAL USE ONLY

COUNTY CODE: 7 +j) PLANT ID NUMBER: i 60 71 1 LAT/LONG: _3&-5-2t,3j0_7P:_1t_1_
7

COMMONWEALTH OF VIRGINIA SARTMENT OF ENVIRONMENTAL QUAIIY
AIR PERMIT APPLICATION GENERAL INFORMATION (continued)

COMPANY NAME DATE REGISTRATION NUMBER

Leas@ir -76 -67 6 1 C) +9
01

FOR PORTABLE PLANTS:
IS THIS FACILITY DESIGNED TO BE PORTABLE? YES X NO
- IF YES, IS THIS FACILITY ALREADY PERMITTED AS A PORTABLE PLANT? F-I YEs F-I NO PERMIT DATE:

IF NOT PERM117ED, IS THIS AN APPLICATION TO BE PERMITTED AS A PORTABLE PLANT? F__1 YEs F7NO

IF PERMITTED AS A PORTABLE FACILrrY, IS THIS A NOTIFICATION OF RELOCATION? F-I YES F7 NO
- DESCRIBE THE NEW LOCATION OR ADDRESS (INCLUDE A SITE MAP):

- WILL THE PORTABLE FACILITY BE CO-LOCATED WITH ANOTHER SOURCE? F-1 YES E-1 NO REG. NO.:
- WILL THE PORTABLE FACILITY BE MODIFIED OR RECONSTRUCTED AS A RESULT OF tHE RELOCATION? F]YEs F-1 NO

- WILL THERE BE ANY NEW EMISSIONS OTHER THAN THOSE ASSOCIATED WITH THE RELOCATION? F-1 YES F-I NO

- IS THE FACILITY SUITABLE FOR THE AREA TO WHICH IT WILL BE LOCATED? (ATTACH DOCUMENTATION.) EJ YES [::] NO

DESCRIBE THE PRODUCTS MANUFACTURED AND/OR SERVICES PERFORMED AT THIS FACILITY:

co5a*,erJ@'%,V1 f14-Y I burvx't 11 _@o Z ct 4tkeA5 A- rwiuLc e- 5@e@
ptr+'%00 z-C-@k-P_ @o cL A% c- @ro e e
r
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PLEASE LIST ALL THE FACILITIES IN VIRGINIA UNDER COMMON OWNERSHIP OR CONTROL BY THE OWNER OF
THIS FACILITY:

Q_ a4l CIO

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

MILESTONES* STARTING DATE ESTIMATED COMPLETION DATE

New equipment installation
Modification of existing process or equipment
Start-up dates

*For new or modified installations to be constructed in phased schedule, give construction/installation starting and completion
date for each phase.

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United States
EnVironmental. Protection Agency OMB No. 206D-0258

Acid Raii) Progmm
Exoirrs 1-31-96

Opt-in Permit Application
Page 1

-or more intormation, see incuu-iians and reter to. 40 CFR 74.1 6
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STEP I
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STEP 5
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s attacrted.

EPA Form 7610-26 14-9S)

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Opt-In Pormtt Application - Page 2
OUB No. 2060-02511

CoES-ST=?c- PC1VS-Q%ATH
'8 LIZ 1A
Plant Nitme (from Stop 1 1 lUmbustion Sdurce IDAF

STIEP 6 Scrubber oTher contmis Uncon'umited
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STEP 7.
Check the top Two capins of a compiate Monftoring Pion (as raqutred by 40 CFR parts 74 and 75) are anach d.
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or third box and A compie-red Cartifi=e of ReprosenTaiian is atiachecl.
attach the required
inf ormation A completed Certificate ol Fiepresenintion has bean previousiy su bmitted.

STEP a
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compiaonce plan Hoid alinwancas in accordance with 40 CFR 72.91c)(11.
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aoLirce. . Chocii A Thermal Energv Plan is onachad. Thic comburtion source see ks to transfer aflowances
to second box to to one or more replacement uniis for ihe replacement at therr vial energy.
identdy sn adcfitional
method of compliance

STEP 9
Pravicle the required Daye the combustion sourcr- cornmenced operation mmiyyl information an the
MwratkM himry of
the combustion source. Number of hours ihe combustion source operated during t he six morTthg
Indicate that the immediately procediiig this application
required documentation hi-s
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Preceding six months of
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STEP I c Baseline'1955 -19137
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F7 Combustion source was subject to natural catastrophe during 1 985
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STEP 1 1
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EPA Form 7610-26 (4-95)

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Total these values for each workshost and transfer
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fj 771 ;25-1 9'3 Or tS
EPA Form 761 D-ZGW (4-9S) mmsiti mrnl3tu -21 /'2 3, lb.

CVLC - Portsmouth
Historical Data for Opt-In Baseline
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1989 1990 1991
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mption Fuel Burned Heat Content Consumption
Fuel Burned Heat Content Consumption Fuel Bumed Content Consu
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00 tons) %S (Btu/lb) (MmBtu)
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5.314 0.651 12710
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63
5.569 0.691, 12702 141,475 5.643 0.763 12786 144,303 6.235 0.653 12718 158,602

6.007 0.74 12668 152,202 6-342 0.784 12561 159,315 6.241 0.671 12918 161,234
5.4 5 1 0.807 12609 137,472 5.958 0.705 12680 151,103 5.599 0.667 12737 142,63
7
5.990 0.71 12620 1@1,179 6.181 0.732 12567 155,345 .6.519 0.654 12T65 166,430
6.434 0.841 12797 164,663
.6.429 0.738 12600 - 162,011 6.830 0.664 12736 173,965
5.816 0.749 12764 148,471 5.988 0.675 12576 150,610 6.530 0.628 12699 165,840
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95.
5.793 0 865 12630 146,323 5.626 0.66 1281.1 144,149 6.130 0.643 12707 155,788
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STEP 14 7 I -

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S02 emissions rate.

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ate

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Opt-in Pemtit Aopkcabon - Page 4
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STEP I 8 Limit EffamivL Date Fieauimrv Citation and Norne of Permi@rino AuTnor

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EpA Form 761G-26 14-95)

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iplant NMne (from Step 1) Combuslion Source IDS

STEP 19 Lowest of 3 Proposed
Calculate and Baseline (Step 13(b)) SO, Emis sion Rates Allowances

enter the proposed
allowances for the 8-3 8, I@S x 2,000 Ao 17 @y
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combustion source. lbs/ mBlu allowances

STEP 20
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STEP 21 Opt4n Program Rectutromants
Read the Opt4n
Plogtam requirements Permit Requirement

and certifications, (1) The designatect representative of each combusiion sour
ce under 40 CFR part 74 shall:
and sign and date. ie opt-in permit app ication (includin
inform g a ccmplianceTl@nj_
atio r
'I'ii')'Suubbmmiitaincaomijpm'ealy manner any suppi@rrienxal n that the A mini
strator or the permitting
authority determines is necessary to review an opt-in permit application and i
ssue of deny an opt-in
permit;
(2) The oWners and operetors of each combustion source undir 40 CFR part 74 sh
all:
@!) Have an opt-in permit: and
ol Operale the opt-in source in compliance with ihe oprt-in permit.

Mainitoring ROQUifBr'nonts.

11) The owners anci operators and, lo the extent applicable, the designaled re
presentative ot each combustion

sourca and each opt-in source shall comply wlih the monitoring requiremerns of 40 CFR klrts 74 and 75.
(2) The emissions measuremenIS recorded and reponed in accordance with 40 CFA part 75 shall be used to
determine compliance by the opt-in source with ihe Acid Rain emissions limitat ions and emissions reduction
loquirements for sulfur dioxide under the Acid Rain Program.
(3) The requirements of 40 CFR parts 74 and 75 shall not affect the responsibi lity of the owners and up tors
erl'
to monitor amissionc of olher pauutants or other arnissions characteriaiics at tha opt-in source under other
appiicabli requirements of the Act and other provisions of the operating permi t for the source.

Sulfur Dioxide Requirements.

(1) The ownera and operators of each opt-in source shall-
(i) Hold allowanceteas of the allowance transter deadline, in the opt-in sourc e's compliance
d
subaccount(after uctions under 40 CFR 73.34[cl) not less than the toial annual emissions of
suifur dioxide for the previous calendar year from the opt-in source; and
Ili) Comply with Ahe applicable Acid Rain emissions timitations ior sulfur dio xide.
121 Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions li mitatians for sulfur dioxide shall.
constime a separate violation ai the Act.
13) An o
h Pt-in source shall be subiact to the requirements under paragraph (1) at the sulfur dioxide requirements

uon t 0effective date of the opt-in source's opt-in permit.
IX) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in
accordance with the Acid Rain Program, including 40 CFR parts 73 and 74.
(5) An allowance shall not be deducted In order to comply with ihe requirement s under paragraph (1) oi the
sutfur diaxicle faquirements prior to the calendar year tor which ihe aliowanc e was ailocated.
(61 An allowance allocated by the Adminijrtrator under the Acid Rair@ Pro ,;,A , , limited aulhorization to emit
sulfur dioxide in accordance with the Acid Rain Proqrmm. No provision .1r, cid Rain Prllgrom, the opt-in
Trimit mplication, or the opt-in perrnit, and no provision of law shall be con strued to limii the authority of the
n
ted tatesto terminate or limit such authorization.
(7) An allowance allocated by. thi Administrator undar tho Acid Rain Program d oes not constltute a pfope"y
right.

Excess Emissions Requirements.

(1) The designated representative of ari attected unit tha't has excess emissi ons in env catendar Vear shall
submit a proposed ottsei plan, as required under 40 CFR part 77.
(2) The own M and a' 3 O' in ad unit thal has excess emissions in any calendar year shall:

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p d and h Ity required ,and pay upon demand the interest on that penalty, as
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Py w.'h-ut P.".
red b 40 CF P., 77, and
qC..p y w, , ., s of P

I IV h h. m n proved offsat plan, as required by 40 CFR part 77.

EPA Form 71310-26 14-95)

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Opt-in Pemdt AppgcaUan - Page 6

OMS No. 206"258

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Certifications

AW tat, to the bart of my knovyledge and boDef, ihe combustion sciurca is not an affected unit under 40

Icertify ihat the date tiubrmitted under subpart C of part 74 reflects actuel opofailons at the combu3ilon source
end has not been adjusted in any wov.

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U rdtad States
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Exaires 1-31-96
Acid Rain Preamm

Opt-in -Permit Applicat'io'n
Page 1

F* rnare intormation, sas instructions and tefor to 40 CFR 74.16

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STEP 2
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name assig-d by
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STEP 3
Pient Site Address
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location at the source.
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STEP 4
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STEP 5
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the combustion
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A diagram snowing the configuration at the combustan source and tne taciliTy i r. ffnarned.

EPA Forrn 7610-26 44-SSI

Date

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Opt-in Parrkft Applitication - Page 2
OMIR No. 2060-0258

COE le-3 Taa?c - Pot Ts

Plant Narne (from Step 1) Lorribuction Sdur

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STEP 6
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.STEP 7
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F7 Combustion source was subject to natural catastrophe ciuring 1985-1 987.
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EPA Fcwm 7610-26 (4-95)

United States
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Environmental Protection Agency OMS No. 2060-0259
iplant NomeTrom Step 1)
Acicf Rain PFO[lt@M Expirits 1-31-96
o I'd
it Application Worksheet bus-tion Source lDff (from Stop 2)
E PA: Opt-in Perm'

For moie information, see instructions and refer to 40 CFR 74.20-74.22
page or

Type of Fuel: q Heat Content Units: Control System Efficie@cy:

Fuel Units: SO, Emissions Factor: f.,j Fuel Pretreatment Efficiency: %

(a) (b) (C) Id)

1985/lst
1985/lst Operating Year: 1986/2nd Operating Year: =0 1987/3rd Operating Year:
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6MI31H MmRtLi

Total these values for each workshoot and transfer nusj@rubl
A'
Mu'la, n
each total to Step 1 2 of the Opt-in Permit Application C

11 771 ;2-51 1, 9'3 9 o 12 3, E'q
EPA Form 761D-26W 14-95) .. mat. ,mRtu bs

Portsmouth
CVLC
Historical Data for Opt-in Baseline
BLROIB

1989 1990 1991
Fuel Heat Fuel Fuel
Fuel Burned Heat Content Consumption Fuel Burned Content Consumption Fuel Bume
d Heat Content Consumption
1 000 tons) %S (Btu/lb) (mmBtu) (x 1 000 tons) %S (Btu/lb) (mmBtu) (x I 000 t
ons) %S (Btu/lb) (mmBtu)
6.216 0.786 12678 157;604. 6.537 0.669 12722 166,319 6.474 0.688 12623 163,451

4.383 0.746 12677 .111,135 5.606 0.758 12715 142,569 5.314 0.651 12710 135,073

6.343 0.704 12670 160,732 6.052 0.743 12722 153,996 6.367 0.694 12609 160,563
158,602
5.569 0.691,: 12702 141,475 5.643 0.763 12786 144,303 6,235 0.653 ..12718
6.007 0.74 12668 152,202 6.342 0.784 12561 159,315 6.241 0.671 12918 161,234
5.451 0.807 12609 137,472 5.958 0.705 12680 .151,103 5.599 0.667 12737 142,637

5.990 0.71 12620 151,179 6.181 0.732 12567 155 345 6.519 0.654 12765 166,430
.162,011 6.830 0.664
6.434 0.841 12797:@ 164,663 .6.429 0.738 12600 12736 173,965
.5.816 0.749 12764 148,471 5.988 0.675 12576 150,610 6.530 0.628 12699 165,840

6.213 0.877 12600 156,568 6.138 0.658 12765 156,703 6.899 0.664 12769 176,195
5.793 0.865 12630 146,323 5.626 0.66 12811 144,149 6.130 0.643 12707 155,788
0.736 12724 163,436 5.876 0.67 12755 149,888 5.067 0.699 12751 129,219
6.422
Annual 70.637 0.771 12678 1,791,259 72.376 0.713 12688 1,836,312 74.205 0.665
12729 1,888,998

lst Operting Year, Average Annual lst Operting Year
Fuel Consumption Fuel Consumption S02 Emissions
1,791,259 1,838,856 2,123,984

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STEP 12
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the S02 emissions Other (describe):
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ating vow from
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Other (describe):

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STEP 13
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Total 1985 Total Average Annual Total SO Emissions
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onsumption,
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emissions for

all fuels used.

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Total SO, Emissions for Total 1985 (or first year) yaar) SO, Emissions
1985 (or first yeari Fuel Consumption Rate
STEP 14
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SO, emissions rate.

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Opt-in Pormil Applicancm - Page 4
OME No. 2OGD-0258

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am Name (frorn Srep I Comaustior Source ID#

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Opt-in Potrrit Application - Psge 5

OMB No. 2060-0258

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Combuslion Bourts Mli
@Plant'Nobxa (from Step 1)

Lowest of 3 Proposed
.STEP 19 Baseline (Step 13(bll SO, Emission Rates Attowances
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STEP 21 Opt4n Program Requirafnents

Read the Opt4n

Pfogiam tcqulremeflts Permit Requirements.

and certifications, (1) The deslqnsted representative of each cormbustion sour ce under 40 CFR part 74 shalk

.and sign and date. III Submtl a comptele opt-in oermIt application (inriuding a cornphance pion)
fii) Submit in a timely manner any supplemental information that the Admin 1;t rator or ihe permitting

utherity determines is ner-assery to review an api-in permit application and i ssue or deny an opt-in

a
iormit;
(2) The owners and opef stort of each combustion cource under 40 C:FR part 74 ahall:
Have an opt-in perrnit; and
M Opetate the opt-in source in compliance with the opt-in permit.

Monitorinn Requirement

11) The owmem and operators and, to ihe extent applicable, the designineci rel aresentative oi each combustion
source anzi each opi-in ectirciB shall comply wilh the monitoring requirements -of 40 CFR parts 74 and 75,
(2) The emissions measurernanis recorded and reported in accordance with 40 CF R part 75 thatt be used to
determine compliance by lhe opt-in 3ource vvith the Acid Rain emissions limita tions and emissions reduction
req Irements for sulfur dioxide unaar ihe Acid Rain Program.
u
(3) The ftkquirementr. of 40 CFR parts 74 and 75 shall not affect the responsi bility of the owners and operators

to monitor emisaiamr of alher pollutants or Dther ernissionii charact risties at t'no Dpi-in source under olhor
applicable requirements of the Aci and other provisions of the oper:ting permi t for the source.

Sultur Dioxide Fleguirernents.

(1) The owners nd operatorr, of each opt-in source shall-
a
(1) Hold allowances, as of the allowance transtv deadline, in the oPt-in sburc e's compiiance

subaccouni latior deductions under 40 CFR 73.341c)) ncit less than the to-ml a nnual emissions of
sutfur dioxide for the previous calenclar yeer from the opt-in 3ource; and
Ili) Comply with the applicable kcid Rain amissions limitatiorts ior sutfur di oxide.
(21 Each ton of oultur dloxide emirted in excess of the Acid Rain emissions li rnttations for sulfur dioxide shall
constrtLne a separate vicialion oi the Act.
(3) An opt-in source shall be subject ,, the equiremarrts under paragraph II) ot the sulfur dioxide requirementr.
upon tM sHective date of the opt-in nou'..'. opt. " permit.
(4) Allowances shall be hold in, deducted from, or transferred among Allowanco Tracking Systurn accounts in
accordance with the Acid Rain Program. including 40 CFR par-ts 73 and 74.
(51 An allowance small not be deducted In order to comply wfth ihe requirement s under paragraph 11) ol Ihe

sutfur dlaxide requirements prior to the calendar year ttir whlch ihe aliowanc e was allocatet.
(61 An attowance allocated by ihe Administrator under the Acid Rain Progrigm i r. a limhod authorization to emit
sulfur dioxide in accordance -Anth the Acicl Rain Prograrn. No proviiLion ot the Acid Rain PlrogTom, the opt-in
plicadon, or the opt-in th rfty
pefmtt ipermit, and no provision at law shall be conavued to limit the au o of the

Uniiad ?,Plan to terminate of I it such authorization.
17) An aiinwance allocated by the Administrator under the Acid Rain Pragpom do es not constitute a property

dght.

Excess Ernissiams Requirements.

11) The desIgnAted reprosenTative ot an affected uniT that has excess amission s in any calendar year shall
submit a proposed ottact plan, as required undei 40 CFR part 77.
(2) The owners and operators of an affected unit thfft ha5 excess emissions in Bny calendar year shall:
(i) Pay without dernand the penalty ioquirati, and Pmy Upon damand the interes t an that penefty, 03

required by 40 CFFI part 77; and
Iii) Comply with tho terms of an approved offset plan, as reQuired by 40 CFR p art 77.

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Opt-in PorrWt AppOcallon - Pago 6
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Liability.

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Acid Reiri Praumm Exgzims 1-31-96

Opt-In Permit Application

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STEP I
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opwirtor's name.

STEP 2

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STEP 3

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location of the source.

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Plarit Mailing Adciress

STEP 4 Has the camousitan rource previously participated in the Opi-in PrograT
n?

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appropriate box. No

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STEP 6

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EPA Form 7610-26 (4-951
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ant Name ltrom Stop 1) iLambustion 56urce IDAr

STEP S,rubber Other Controls Uncontmileci
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STEP 7
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STEP IB
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eks to transfer aliowances
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SWP 9
Fravide ihe required
Daie the combustion source comriianced operation mm/i

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Data supporting determination of operating hours are atTached.

STEP 10 Basaiine 1985 -19B7
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CombLmijan source began operaiion af-ter 1985.

Combustion source was subject to natural catastrophe during 1986-1 987.
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STE-P I I
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EPA Fcwm 761CI-26 14-95)

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Acid Rain Program Expirea 1-31-96

VOE PA Opt-in Permit Application Worksheet Lcombuvion Source ID# (from Slop 2)

For more information, see instructions and refer to 40 CFR 74.20-74.22
ge of
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Type of Fuel q
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each total to Slep 1 2 of the Opt C.

11 77/ .2 S I 9- 'RS-49 .2, 12 3
mm8tu rnmBtu I lbs
EPA Form 761 D-ZGW (4-951

CVLC - Portsmouth
Historical Data for Opt-in Baseline
BLROIC,

1989 1990 1991
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6.343 0.704 12670 160,732 6.052 0.743 12722 153,996 6.367 0.694 12609 160,563
5.569 0.691 12702 141,475 5.643 0.763 12786 144,303 6.235 0.653 12718 158,602
6.007 0.74 12668 152,202 6.342 0.784. 12561 159,31 6.241 0.671 12918 161,234
5.451 0.807 12609 137,472 5.958 0.705 12680 151,103 5.599 0.667 12737 142,637
5.990 0.71 12620 151,179 6.181 0.732 12567 155,345 6.519 0.654 12765 166,430
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EPA Form 761 D-26 14-95)
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Plard Na a itrorn Step 1) Combustion Source ID#

STEP 19 Lowest of 3 Proposed

Baseline (Step 13(b)) Soz Emission Rates Allovvances
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STEP 20
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emissions limit
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current allowable
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STEP 21 Opt4n Progmm Requirements

Read the Opt-in
Pfogram requirements Parmit Requirernenj .

and certifications, (1) The desiqnsiad representative of each combustion sourc
e under 40 CFR oart 74 shall:
and sign and date. (1) 5ubffth a compleia opt-in permit app ication (including
 a complianceigiaril.
fill Submit in a tim:ly manner any suppiemental information that the A ministr
ator or the permftting
Buthqrity datermin a Is necessary to review an api-in permit application end i
ssue or deny an opt-in
permit;

.(2) The owners and operators of each combustion sourco under 40 CFR part 74 B hall:
Have an ogt-in permit: and
El Operate t a opt-in source in compliance with the opt-in permit.

Monit6finti Reczuiremems.

11) The owners anci operators and, to Ihe extent applicable, the designaied re prazentative ot each combustion
source and. asch opt-in source shall comply wiih the monitoring requirements o f 40 CFR Rarts 74 and 75.
(2) The emi3sions rneasuremems recorded and reported in accordance with 40 CFR part 75 shall be used to
determine compliance by the opt-in source with ihe Acid Rain emissions limitat ions and emissions reduction
uiramentr for sulfur dioxide uncar tha Acid Rain Program.
re
(3? The requirements of 40 CFR parts 74 and 75 shimll not affect the responsib ility of the owners and 0 tars
to monitor emissions of oihor poilutantr or other emissionr characteristics at the op-in source under
applicable requirements of the Act and other provisions of the operaiing permi t for the source.

Sultur Dioxide Requirements.

(1) The ownera and operators of ear-h opt-in source shall:
(i) Hold allowances, as of the allowance tranater deadline, in the opt-In sour ce's compliance
subaccouni (after deductions under 40 CFR 73-34(c)) not iess then the total an nual emissions of
sulfur dioxide for the previous calendar year frc?m ihe opt-in source; and
fill Comply with ihe applicable Acid Rain emissions limitations for aultur dio xide.
(2) Each'ton of sultuf dioxide emitted in excess of the Acid Rain emissions li mitaiians for sulfur dioxide shall
conatituto a separate viclaiion oi the Act.
(31 An rnants under.paragraph (1) of the sulfur dioxide requirementr
lgpt-in source shall be subject to the require
u a
(@)oArkllaweffsctive date of the opt-in source's opt-in permit.
--l-ancea shall be hold in. deducled from, or transferred among Allowanea Trac king Svottim accounts in
re with the Acid Rain Program, including 40 CFR parts 73 and 74.
151 An allowance shall not be deducted In order to CompIV With 'he requirement s under paragraph (1) oi the
sulfur dioxide requirements pnor to the calendar year tor which 'he allowance was allor-ated. - -
(6) An allowance allocated by the Adminiinrator under the Acid Rain Program is I limited authorizaiian to emit
suRur dioxide in accordance vAth the Acid Rain Program. No provision of the A cid Rain Program, the@ opt-in
. olication, or the opt-in permit, and no provision of low shall be construed to limit the liuthanTy of ihe
Tn'itmeldt Males to terminate or limit avch aLnhorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program do es not constitute a property
right.

Excess Emissionr Requirements..

(I 1, The deslgnated ropmsentative ot an affected unit that has excess emissio ns in any caiendar year shall
submit proposed ottsel plan, as required under 40 CFR part 77.
(2) The owners and operatam of an affected unit thal has excess emissions in a ny calendar ysar shall:
(i) Pay without demand the penoliy requirec, and pay upon cemand the interest

on tnat penalty, as
required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as reouired by 40 CFR p
art 77.

FPA Form 7610-26 (4-951
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Date

OMS No. 2OGG-0258

lCombuvdan Source I
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EPA Form 7610-26 (4-951

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Opt In Permit Application

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STEP 2

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Plant Mailing Atioress

STEP 4
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STEP 5

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EPA, Form 7610-26 (4-951

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STEP 6 S.bber Dther Controis
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STEP 7
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STEP 8
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mal energy.
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STEP 9
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information an the rnmivy
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the combuytion skource. Number of hours ihe combustion source operuted during
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STEP I 1
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EPA Form 7610-26 14-96)

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Acid Rain P_ I IN @0;,.,n Step 1)
rogram Expkes 1-31-96

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A&ERk opt-inpermit Application Worksheet lambuslion SciLare ID# (from Stop 21

-74.22
For rnare Information, see instructions and refer to 40 CFR 74.20
Page ni of

Type of Fuel: Heat Content Uhits:
 Control System Efficiency. %

Fuel Units: A -h A SO, Emissions Factor: .30 16A -'j Fuel Pretreatment Effici
ency: %

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EPA Form 7610-26W (4-95)

CVLC - Portsmouth
H' torical Data for Opt-In Baseline
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1989 1990 1991
Fuel Fuel
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Fuel Burned Heat Content Consumption Fuel Burned Content Consumption Fuel Burn
ed Heat Content Consumption
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5.796 0.746 12677 146,960 5.695 0.758 12715 144,832 5.841 0.651 12710 148,470
5.770 0.704 12670 146.203 5.974 0.743 12722 151,994 5.824 0.694 .12609 146,870

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6.322 0.74 12668 160,183 5.944 0.784 12561 149,325 6.160 0.671 12918 159,150
5.421 0.807 .12609 136,715 5.893 0.705 12680 149,455 5.741 0.667 12737 146,246

5.651 0.71 12620 142,640 5.725 0.732 12567 143,884 6.400 0.654 12765 163,383
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5.786 0.749 12764 147,705 .6.853 0.675
6.392 0.877 12600 161,087: 6.073 0.658 12765 155,044 6.326 0.664 12769 161,562

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Annual 70.973 .0.771 12678' 1,799,640 71.141 0.71i 12688 1,805,291 72.310 0.
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lst Operting Year Average Annual lst Operting Year
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opt it Applicei

OMB No. 2060-0258.

iplant N (trom Step 1) Combustion Source ID#

Lowest of 3 Proposed
STEP 19
Calculate and Baseiine JS%ep 13(b)) 502 Emission Rates Allowances

e proposed
enter th /0 9,Y
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STEP 20
Calculate and Lowest of 4 Proposed

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STEP 21 Opt-In Progmm Requirenm"YU
Read the Optein
Permit Fleguirements.
Prograin requirements
and ceiiifications, (1) The dasignated representative of each combustion sourc
e under 40 CPR part 74 shall:
and sign and date. II) Submii a completa opt-in permit apphcation (includlng a
 complianceTLien).
r
0i) Subrnit in a limely manner any isupplamental information that the A minist

rator or the permitting
authority determines is naca"ory lo review an api-in perrnit application and i s3ue or cany an opt-in
permit;
12) The owners and operators of each cofrtbuslion source under 40 CFR part 74 0all,
Have an o in "frni't; and
ii Operala tcapt-in source in compliance with the opt-in pofmit.

Monitarini Requireme

(1) The owners and operators and, to the extent applicable, the designaled rep resentalive of each combustion
sourea and sac opt-in source shall comply with the monitoring requireimerns io t 40 CFR parts 74 and 75.
h
(2) The amissionr. measurements recorded and reported in accordance with 40 CF R part 15 shall be used to
determine comnlionce by the opt-in source with ihe Acid Rain emissions limitat ions and emiasions reduction
nts for sulfur dioxide under the Acid Rain Program.
'equireme
(3) The rsquirementr. of 40 CFR parts 74 and 75 shall not affect the responslb lllly of the owners and operators
to monttor arnisaians of alhoT pouutants or other emWsions charact iLties atth e opt-in source under al .har
applicable reqWrements of the Aci and other provisions.of the oper:lring permi t for the source.

Sultur Ditixide Requirements.

(1) The ownam and operstars of asch opt-in source shall:
(1) Hold allowances, asa the allowance tranater deadline, In ihe opt-in source 's compliance
subaccount (after oaductions under 40 CFR 73-34(cil not ass than the taial ann ual emissions of
sulfur dioxide for the previous calendar Veer from the opt-in source; and
(11) Compiy wlth the applicable Acid Rain emissions tirn"tions for sultur diox ide.
121 Each ton al suilur dioxide emitted in excess of the Acid Rain emissions li rNtaiians for sulfur dioxide shall
conatiTuto a separate vialaiion oi the Act.
(3) An o a sulfur dioxide requirements
I, Pt-in source shall be subject lo ihe requifements; under paragraph 1) of th

u ni aeffective date of the opt-@n sourca's opt-in permit.
(X)"Allowances shall be hold in, deducted from, or tranaleff ed among Al lowan ci Tracking Systern accounts in
11 I Rain Program, includirtg 40 CFR parts 73 and 74.
15) An allowance shalt not be deducted in artier to comply with Ihe requiremen ts under paragraph (1) Di ihe
sulfur dlaxide requirements prior to the calendar year tor which the allowanoo was allor-ated.
161 An allowance allar-ated bv the Adminisiralor under the Acid Rain Prograrn is a limiied awhorization to emit
sulfur dioxide in accordance Mth the Acid Rain Frogram. No provision ol tho A cid Rain Program, the bpi-in
fm .I)pfication, or the opt-in permit, and no provision of law shall be coner ued to limit the authority of ihe
Tnitedt Ttates to terminate or limit such authorization.
(7) An sitawance allocated by the Administrator under ithe Acid Rain Program d oes not constitute a property
right.

Excess Emissions Requirements.

(1) The designated r@prssentative ot an affected Linit thaT has excess emissio ns In any coiandar year shall
submit 11 proposed ottsel plan, as required under 40 CFR part 77.
(2) The owners and operators of an off ected unit thal has excess emissions in any calendar yeaf shall:
Ili Pay without clemand the p:ndelty required, and pay upon demand the interes t on that ponalry, as
required by 40 CFR part 77; n
(ii) Comply with the larms ei an approved offset pian, as recluired by 40 CFR part 77.

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STEP 1 -7
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STEP 3

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Opt-ln Perrrtit Appl'umtion - Page 2
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STEP 6 Scrubber 9
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STEP 9
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STEP I I
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fte wafksheot for
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EPA Form 7610-26 14-951
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United States

Environmental Protection Agency OMB No. 2060-0259 "Dgq "s YK
lplant Name ffrom step 1)
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og 6
VVEPA -In Permit Ap lication Worksheet Fcq@b,,,=e ID# ifrom Slop 21
 Opt p
For more Information, see instructiona and refer to 40 CFR 74.20-74.22
Page F(I of El

eaq t
Type of Fuel: Heat Content Units: Contirol System Efficiency: %

"'A fG'j Fuel Pretreatment Efficiency: %
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EPA Form 7610-26W I 4-95) mmatu mr"Rtu lbs

CVLC - Portsmouth
Historical Data for Opt-In Baseline
BLR02B

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6.322 0.74 12668 160,183 5.944 0.784 12561 149,325 6.160 0.671 12918 159,150
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opt-in Petmilt AppUcation - Page 3
OMB No 2060-0259

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EPA Form 7010-26 (4-951
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iplent N.I. (from Step 1) Combustion Source ID#

STEP 19 Lowest ol 3 Proposed

Calculiite and Baseline (Step 13(b)) SO, Emission Rates Allowances

enter the proposed
allowances for ttte 81/s@ Z 7 x 2_000 /09,0
combustion sou llowence

STEP 20
Calculate and Lowest of 4 ProPQ3cd
enter the proposed Baseline (Step 13(bli SO, Emission Rates Allowances
allowances for the
combustion source, X 2,000
if the cuirent it 07 lbs/mmilt
prornulgated 502
emissions limlt
differs from the
cuffent allowable
SO, emissions rate.

STEP 21 Opt4n Prograin Raquirenunts
Read tho Opt4n
Pfogram requirements Permit Requirements.

and certifications,
11) The desianaied representative of aach combusiian source under 40 CFR part 74 shall'.
and sign and date. bubrnii a complaie opt-in permit app ication lincluding a c arnplianceTia@n).
1i) Submit in a timely,manner any supp pmenial information that the A rninistr ator or ?ha perm)ning
authority determines s necessarV.ito review, an opt-in permit application and issua or deny an opt-in
Permit;
(2) The owners and operators of each combuslion source unider 40 CFR part 74 s hall:
Have an opt-in permit: and
II operais tne opt-in source in compliance with the opt-in permit.

Monitorina Requitements.

(1) The ownefs and operators and, to the went applicable, the designsied repre sentative of each combustion
source and.asch opt-in source shall comply with the monitoring requirements of 40 CFR Rarts 74 and 75.
12) The emissions measuremenis recorded and reported in accordance with 40 CFR

part 75 shail be useci to
determine compliance by ihe opt-in source with ihe Acid Rain emissions limitat iorts and emissions reduction
re irements for sulfur dioxide under the Acid Rairi Program.
(3qu
The requiramentr. of 40 CFR parts 74 and 75 shall nal affect the responsibillt y of the ownerr artd e"'tors
"fh
to monitor emissions of alhor poilutants or other amlssions characteristics at the opt-in source under
applicable requirements of the Aci and other provisions of the operaling permi t for the source.

Sulfur Dioxide Requirements.

(1) The owners and operators of afach Dpt-in source shall:
(i) Hold allowances, as 0 the allowance iranater deadline, in the opt-In saurc e's compiiance
subaccouni tafter deductions under 40 CFR 73-34M) nay less ihon the total annu al Missions of
sutfur dioxide for the previous calendar year from the opt-in source; end
Ili) Comply with 'the applicabte Acid Rain emissions iimitations for sultur di oxide.
(2) Each tcin of sulfur diaxidB emitted in excess of the Acid Rain emissions l imitations for sulfur dioxide shall
conatiiuis a seperato viclaiion oi the Act.
(3) An opt-in source shall be subject lo 'the requirements under paragraph (1) at the sulfur dicixide requirements
u
xnn the effective date of the apit-in source's opt-in permit.
llawancas shall be hold in, deducted from, or transferred among Allowance Trac king System accounts in
accordance wilh the Acid Rain Program, including 40 CFR parts 73 and 74.
(5) An allowance shall not be deducted in order to comply with 'he requirement s under neragraph (1) of ine
sutfur dlaxtde requirements prior to the calonaar year for which the aliowance was allor-aied.
(6) An allowance allocated by the Adminisirstor under the Acid Rairt Program i s a limiied authorization to emit
sulfur dioxide in-accordance with the Acid Rain Progrom. No provision ai the Acid Rain Program, the opt-in
t Ipplication, air the opt-in permit, and no provision of low shall be constru ed to limit the authoriTy of the
Mrftm.'d btates -to iorminate or limit such authorization.
(7) An aficw&nCQ 2110cated by the Adrninistrator under the Acid Rain Program d oes not constitute a property
right.

Excess Emisslons Requirements.

(1) The designated representative ot an affected unit That has excess emission s in any caiendar year shall
submit 11 proposed offsel plan, as required under 40 CFR part 77.
(2) The owners and operators oi an affected unit tnat h85 eXCeSS emissions in any calendar year shall:
(II Pay without ciemand the penalty required, and pay upon cemand the interesl on that penalty, M3
required by 40 CFR part 77; and
(ii) Comply with the ierms of an approved offset plan, as ricuired by 40 CFFI part 77.

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Opt-In P6rmlt Appuestlen - Pegg 6

OMS No. 201311-0258

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Liability.

11) Arvy pologli who knovlngly violate% any requlrefnem or orohibition of the Aold Rain Program or an opt-In
rnIT. Inc u ing any ioqlu roment for hei;ayment or any panalry owed to iha Un tied States, ishiiii be sublccl
1.01ATC11'camern purnuent to sectlon II 31 of the Aci
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3) Nimlit ration 8)1011 oxmiie any violaltlan of ihm Yequiroment3 of ihe Acid Rain Prograrn thai occurs prior
I at @ a revtoton la et effect.
F's facts sourca and ea c affected unit shall meet the requlraments of the AcJ d Rain Program.
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@ey provision of the Add Pain Program thal applies lo on affected source (incl udingrolpro%islon appl
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progrgm ist

Cwdficadons

Pat, to the best of my knowledge and belief, ihe combUation source Is not an a
ffected unit undar 40
CrFIlRilli.

I cartlfy that the data sub fttad under subpart C of part 74 reflocis actual o
perations of the combuBtion source
and han not been sidjuBted"In any way.

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EPA Fatm 7610-26 (4-95)

5 _9 7G
Countv iLatitude
Plant Maiiing Adaress

STEP 4 Has the combusiion source oreviDusly particiDaieti in ihe Opi-in Proure rn?
Check the
appropfinte box. No

It Yes, amer irte ettective date of the most redent opt-in permh -

STEP 5 Genervitacilaynacerlp1lon
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EPA Form 7610-26 14-951

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@Plant Name (from Stop I iLemouEmn S6urce IDO

OTher Cantrolr Uncontrolled
STEP 6 scrubber
Indicate whe-ther
(specify):
tivi combLmtion source
;'u-it. L7@- 7- T. -L@ A@
has S02 comfols. L-

STEP 7
Check the top Two copies of a compiate Monitoring Plari (as required by 40 CFR parts.74 and 7 5) are anached.
bax and the second
.or tNrd box and cor"pietto Ccrtificate of Repredemaiion is attacked.
attach the inequired
iniormation. A compiaied Cenificate of Fiepreseniniian hat been previousiy sub mitted.

STEP a
Specify the
compliance plan Hold allowances in accordance with 40 CFR 72.916V 1 1.
for the combusrtion
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the second bax to to one or more repiacament uniis toi the reMacement of therm al enefgy.
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STEP 9
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infafmation an the
operating history of
.the combustiori source. NLimaer of hours Ina combusiian source operated durin g the six morTihs
lnckcaft thV the immedimiy preceding this application
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required documentation
is attached.
Start End lDate of koDlimticnl
Preceding six months of
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Data supporting dalarmination of operafing hours are a neci.
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SMP 10 F@ Baseline 1985 -1915-7

Identify the time
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Atterna-tive Baseiine, beginnino with
bnmlim daim is -19 R9.
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Combustion source began operenion atter 1985.

Combustion source was cubject tD natural catasrrmphe during 19135-1 987.
Documentation ci natural catastrophe is irnachad.

STEP 1 1
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ona workshoet faf
each type of
luel used at
the combustion
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EPA Fmm 76io-2s (4-951

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United States

Eryvironmental Protection Agency OMB No. 2060-0258
iPlant Name ffrom Step 1) cr
Acid noin Program Explrea 1-31 -96

E M iCombuslion SotzFca ID# (from Stop 21
-in Permit Application Worksheet
Opt

For more Information, see instructions and refef to 40 CFR 74.20-74.22
PageM fM

Type of Fuel: Heat Content Units: Control System Efficiency: %

Fuel Units: SO, Emissions Factor: Fuel Pretreatment Efficiency: %

(a) lb) (C) (d)

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-in Permit Application
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EPA Form 7610-26W (4-95)

CVLC.- Portsmouth
Historical Data for Opt-in Baseline
BLR02C

1989 1990 1991
Fuel
Heat Fuel Fuel
Fuef Bumed Heat Content Consumption Fuel Burned Content Consumption Fuel Burne
d Heat Content Consumption
(x 1 000 tons) %S (Btu/lb) (mmBtu) (x 1 000 tons) %S (Btu/lb) (mmBtui (xlOOOt
ons) %S (Btu/lb) (mmBtu)
6.226 0.786 12678 157,875 6.488 0.669 12722 165,089 6.154 0.688 12623 155,355
5.796 0.746 12677 146,960 5.695 0.758 12715 144,832 5.841 0.651 -12710 148,470

5.770 0.704 12670 146,203. 5.974 0.743 12722. 151,994 5.824 0.694. . 12609 146
,870
5.506 0.691 12702 139,874 5.810 0.763 12786 148,582 5.621 0.653 12718 142,984
6.322 0.74 12668 160,183 5.944 0.784 12561 149,325 6.160 0.671 12918 159,150
5.421 0.807 12609 136,715 5.893 0.705 12680 149,455 5.741 0.667 12737 146,246
5.651 0.71 12620.. 142,640 5.725 0.732 12567 143,884 6.400 0.654 12765 163,383

6.141 0.841 12797 157,181 6.138 0.738 12600 154,669 6.753 0.664 12736. 172,004

5.786 0.749 12764 147,705 5.853 0.675 12576 147,223 5.992 0.628 12699 152,176
6.392 0.877 12600 161,087 6.073 0.658 12765 155,044. 6.326 0.664 12769 161,562

161,481
6.070 0.865 12630 153,337 5.474 0.66 12811 140,255 6.354 0.643 .12707
5.890 0.736 12724 149,880 6.074 0.67 12755 154,939 5.145 0.699 12751 131,216
Annual. 70.973 0.771 12678 1,799,640. 71.141 0.713 12688 1,805,291 72.310 0.6
65 12729 1,840,898

lst Operting Year Average Annual 1 St Operting Year
Fuel ConsOmption Fuel Consumption S02 Emissions
1,799,640 1,815,276 2,134,087

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WU

-it Page 3
opt-In Pefn
OMB No. 2060-0258

@Piant Name (frorn SteP 1) FC,.bustion Sour

S01 Emissions for 1955
Total 1485 (or firsi year) Average Annual Fu
el
FuelType. Fuel Consurnption Consumption (or tirst year)

Bituminous Coal 7qli 2.6, rnmetul MmBtul ibs
STEP 12
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type used atthe Subbiturninous Coal mrnBtu mmetul lbs
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the total I 986 (or
first year) fuel
consumption from Distiliate Oll MmBtu mmaiul lbs,
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consumption foir
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years from the Natwal Gas
MmBtu mm8tu lb
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lor the first oper-
ating yew firom
mrnstu
h workshoet. mm8tu lbs
eac

F Other (describe):

mrnBtul MmBtu lbs

STEP 13 la) (b) (c)
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gumption, the
total average /I 7it Z.'5-@ 11 93 Er, .2. 12 _3
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11 fuels used.

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Total SO, Emissions for Total 1 985 (or first Vear) year) SO, Emissions
1985 (or first yearl Fuel Consumption Rata
STEP 14
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S02 emissions rat..

EPA Forfn 7610-26 (4-95)

Date

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allowable SO,
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-in Per Page 5
Opt mit Application
OMB No. 2060-0258

Piant NaA (from Stop 1) CF-mbustion Source

STEP 1 9 Lovvest of 3 Proposed
Calculate and Baselirie (Step 131b)) 50, Emission Rates Allovyances

entef the proposiid
allowances for the 76 x I 2,006 /0910
combustion source. T/S@ Z rnBJ lb /m Btu

STEP 20
Calculate and
Lovwest of 4 Proposed
enter the pfoposed Baseline (Step 13(b)) S03 Emission Rates Allowances
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Combustion source,
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i Blul
promulgated SO,
emissions limit
differs from the
current allowable
SO, emissions rate,

STEP 21 Opt4n Program Requirements
Read the Opt-in Permit Requirernents.
Program requirements
and certifications, (1) The deslqnatigd rep.resentative ot each combustion sou
rce under 40 CFR part 74 khall:
and sign and date. (1) Submit a complete opt-in perrnit application lincluding
a compliance I n).
00 Submit in a timelylmnanner anv supplemental information that the ATmiainist
rator or the permitting
authority daterminas s eceSgery to review an opt-in permit application and iss
ue or deny an opt-in
permit;
(2) The ownerr. and operotors of each combuslion source under 40 CFR part 74 s
hall:
HEive an ogt-in permit; and
u Oosrate t a opt-in source in compliance vvith theopt-in permit.

Manitorina Requirementr.

(1) The owners and operators and, to the extent applicable, the designaled rep
resentative ot each combustion
source and each opt-in source shall comply with the monitoring requiremenis of
40 CFR arts 74 and 75.

(2) The emissions measuremenis recorded and reported in accordance vvith 40 CF R part @5 shall be used to
determine compliance by the opt-in source with ihe Acid Rain emissions limitat ions and emissions reduction
a for sulfur dioxide uncier the Acid Rain Prograrn.
requirement
3) The faquirements of 40 CFR parts 74 and 75 shall nol affect the responslb[l ity of the owners and tors
e"'
-tefisiies at the opt-in source under Ofh
tO MOMitOT emissions of olher pollutants or other emissions chataL er
applicable requirements of the Aci and other provisions of the opeTaiing permi t for the source.

Sulfur Dioxide Reciuirements.

(1) The owners and operators of each opt-in source shall-
Ul Hold allowances as of the allowance iransfer deadline, in the opt-I n sourc e's compliance
subaccouni (attar @aductions under 40 CFR 73.34(c)) not less than the total an nual emissions of
sultur dioxide for the previous calendar year from the opt-in source; and
(li) Comply with the applicabLe Acid Rain emissions limitations for sultur dio xide.
121 Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions li enitalions for sulfur dioxide shall
constiiuto a separate viotelion of the Act.
(3) An opt-in source shall be subiart la the requirements under paragraph (1) of the sulfur dioxide requirements

U n the effective date of the opt-in source's opt-in parmit..
(T)"'Allowances shall be hoicl in, deducled from, or transferred among Allowan ce Tracking Systurn accounts in
accordance wiih the Acid Rain Program, including 40 CFR parts 73 and 74.
(5) An allowance shelf rLot be deduclad in order to comply with th requirement s under paragraph (1) ol the
sulfur dioxide requirements prior to the calendar year for which th: allowance was allocated.
(6) An allowance allocated by the Adminisirator undey the Acid Rain Program is a limited authorization io emit
sutfur dioxide in accordance with the Acid Roin Program. No provision. ai the Acid Rain Program, the opt-in
ft W)plication, or the opt-in permit, and no provision at law shall be conavue d to limit the authority of the
Tnimmid tales to terminate or limit such authorization.
(7) An allowance allocated by the Administrator undar the Acid Rain Program do es not Constitute a property
riqht.

Excess Emissions Requirements.

(1) The designated riprosentative ot an affected unit that has excess emission s in any calendar year shall
riubmit a proposed off sel plan, as required under 40 CFR part 77.
(2) The wners and operstom of an affected unit that has excess emissions in an y calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest an that penalty, 03
required by 40 CFR part 77; 2nd
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR p ar-t 77.

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OMS No. 2060

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iplant trams (from S113P 1) Source [Di'

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Boiler Operating Hours

Cogentrix Virginia Leasing Corp. - Portsmouth

UNIT 1 Boiler Total UNIT 2 Boiler Total.

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"1A" "lB",. Fired "2A" "2B" "20 Fired

Jul-06 719 723
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704 2,177 -06 737
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594
Sep-06 567 522 509 1,598 Sep-06 646 606 1,846

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Nov-06 592 6b 597 1,801 Nov-06 580 544 575 1,699

Dec-06 704' 635 637 1,976
Dec-06 713 634 636 1,984

3,871 3,901
TOTAL 3,982 3,843 3,851] 11,677 4,069 11,8411

Cogentrix

Portsmouth Genco, LLC
One Wild Duck Lane
Portsmouth VA 23703
757-484-3540 Office
757-484-7338 Fax

October 17, 2011

RECEIVED – DEQ
OCT 18 2011
Tidewater Regional Office

Mr. Troy Breathwaite
Air Permit Manager
Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Blvd.
Virginia Beach, Virginia 23462

RE: Portsmouth Genco, LLC – ORIS Code 10071
Acid Rain Permit Renewal Application

Dear Mr. Breathwaite:

Please find enclosed two (2) copies of the Acid Rain Permit Application form for Portsmouth Genco, LLC. The purpose of this form is to renew the facility's Acid Rain Permit. This form was inadvertently excluded from the Title V permit renewal application submitted to the Virginia Department of Environmental Quality (VDEQ) in August 2011.

Thank you for your review of this submittal. If you have any questions, please feel free to contact Randy Musselwhite of Portsmouth Genco at (757) 484-3540 or Nicole Saniti of Trinity Consultants at (704) 553-7747.

Sincerely,

Gary Hughes

Gary Hughes
General Manager
Portsmouth Genco, LLC

Enclosures

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: • new • revised • X for Acid Rain permit renewal

RECEIVED – D.
OCT 18 2011
Tidewater Regional Office

STEP 1

Identify the facility name, State, and plant (ORIS) code.

Facility (Source) Name Portsmouth Genco, LLC	State Virginia	Plant Code 10071

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
BLR01A	Yes
BLR01B	Yes
BLR01C	Yes
BLR02A	Yes
BLR02B	Yes
BLR02C	Yes
	Yes
	Yes
	Yes
	Yes
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	Yes

Facility (Source) Name (from STEP 1) Portsmouth Genco, LLC

STEP 3

Read the standard requirements.

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:

(i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

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

(2) The owners and operators of each affected source and each affected unit at the source shall:

(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and

(ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:

(i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and

(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:

(i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or

(ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

Facility (Source) Name (from STEP 1) Portsmouth Genco, LLC

Sulfur Dioxide Requirements, Cont'd.

STEP 3, Cont'd.

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit 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 prior to the end of 5 years, in writing by the Administrator or permitting authority:
(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; 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 changing the designated representative;

Facility (Source) Name (from STEP 1) Portsmouth Genco, LLC

Recordkeeping and Reporting Requirements, Cont'd.

STEP 3, Cont'd.

(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 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 Acid Rain Program; and,
(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:
(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating

Facility (Source) Name (from STEP 1) Portsmouth Genco, LLC

Effect on Other Authorities, Cont'd.

STEP 3, Cont'd.

to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a source can hold; *provided,* that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification

STEP 4
Read the certification statement, sign, and date.

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected 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 Gary Hughes	
Signature Gary Hughes	Date 10/17/18

Portsmouth Genco, LLC

Ceds #18 1/3/12 (F) "TITLE IV - RENEWAL" (ACID RAIN) #61049 #740-00081 SIC=4911 NAICS=221112 PORTS=BARRY

One Wild Duck Lane
Portsmouth, VA 23703
757-484-3540
Fax 757-484-7338

December 20, 2011

Mr. Troy Breathwaite
Air Permit Manager
Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Blvd.
Virginia Beach, Virginia 23462

RECEIVED – DEQ
DEC 27 2011
Tidewater Regional Office

RE: Portsmouth Genco LLC – Title V Permit No. TRO-61049
Acid Rain Permit Renewal Application

Dear Mr. Breathwaite:

Portsmouth Genco LLC (formerly Cogentrix Virginia Leasing Corporation) owns and operates a cogeneration plant in Portsmouth, Virginia. The facility combusts fuel in stoker-fired boilers to produce steam and electricity for sale. The plant's Standard Industrial Classification (SIC) code is 4911 – Electric Services, and the plant's North American Industry Classification System (NAICS) code is 221112 – Fossil Fuel Electric Power Generation. Portsmouth is currently operating in accordance with Title V Permit TRO 61049, issued by the Virginia Department of Environmental Quality on April 1, 2008, which includes Acid Rain Program requirements for Opt-in sources. Portsmouth Genco LLC is submitting this Acid Rain Permit renewal application in accordance with 40 CFR 74.19 and Title V Permit Condition No. VII(C)(1)(a).

Per Title V Permit Condition No. VII(C)(1)(a), Portsmouth Genco LLC is required to submit a complete permit application containing all of the information required under 40 CFR 74.19 at least 6 months but no earlier than 18 months prior to the expiration date of the existing Phase II Acid Rain permit. The Phase II Acid Rain permit became effective April 1, 2008 and expires April 1, 2013. Therefore, the renewal application is due no later than October 1, 2012 and no earlier than October 1, 2011. Portsmouth Genco LLC is submitting this renewal application within the appropriate timeframe.

The information required under 40 CFR 74.19 is provided as follows:

40 CFR 74.16(a)(1) – Identification of the combustion source, including company name, plant name, plant site address, mailing address, description of the combustion source, and information and diagrams on the combustion source's configuration.

The company name and plant name is Portsmouth Genco, LLC. The plant site address and mailing address is 1 Wild Duck Lane, Portsmouth, Virginia, 23703. The combustion sources are six (6) coal-fired stoker boilers each rated at approximately 200 MMBtu/hr used to produce steam. The steam is used to drive a turbine-generator to provide electricity that is sold to a power provider. Three of the boilers (1A, 1B, and 1C) exhaust to Stack 001, and the remaining boilers (2A, 2B, and 2C) exhaust to Stack 002. A process flow diagram providing the combustion source and control equipment configuration is provided as Attachment 2.

40 CFR 74.16(a)(2) – Identification of the designated representative, including name, address, telephone number, and facsimile number.

The designated representative is Mr. Gary Hughes, located at 1 Wild Duck Lane, Portsmouth, Virginia, 23703. His phone number is (757) 484-3540 x30, and his fax number is (757) 484-7338.

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DEC 27 2011
Tidewater Regional Office

40 CFR 74.16(a)(10) – If the combustion source seeks to qualify for a transfer of allowances from the replacement of thermal energy, a thermal energy plan as provided in 74.47 for combustion sources.

The source does not seek to qualify for a transfer of allowances for the replacement of thermal energy. Therefore, no thermal energy plan is required.

40 CFR 74.16(a)(11) – A statement whether the combustion source was previously an affected unit under this part.

The boilers at Portsmouth Genco, LLC were affected sources under Part 74 as of April 1, 2008.

40 CFR 74.16(a)(12) – A statement that the combustion source is not an affected unit under 72.6 of this chapter and does not have an exemption under 72.7, 72.8, or 72.14 of this chapter.

There are six (6) 200 MMBtu/hr coal-fired stoker boilers located at the Portsmouth facility. Three (3) boilers equally supply steam to one of two 55 MW turbine-generators. The generator capacity per boiler is 18.3 MW. Therefore, the boilers are not affected units under 72.6 per 72.6(b)(2). The units do not qualify for exemption under 72.7 or 72.8. The exemption under 72.14 is no longer listed in the Code of Federal Regulations.

40 CFR 74.16(a)(13) – A complete compliance plan for SO_2 under 72.40 of this chapter.

The facility's SO_2 compliance plan is to hold allowances in accordance with 40 CFR 72.9(c)(1).

40 CFR 74.19(b)(2)(ii) – An updated monitoring plan, if applicable under 75.53(b) of this chapter.

An updated monitoring plan is required under 75.53(b) if a replacement, modification or change is made to the monitoring equipment (CEMS). The Portsmouth facility replaced a probe box and umbilical in 2009 on the Unit 1 stack. Additionally, the facility increased the boiler's maximum heat input within the plan to 290 MMBtu/hr to eliminate an ECMPS Electronic Data Reporting error message which occurs when heat input for the unit (which includes three boilers) exceeds the maximum heat input value. Due to the probe replacement and the data handling system change, updated monitoring plans for both Unit 1 and Unit 2 stacks are included in Attachment 3.

Portsmouth is submitting this application for renewal of the facility's Title V permit prior to the renewal application due date of October 1, 2012. Enclosed are two copies of the Title V renewal application.

* * * * * * * *

If you have any questions regarding the information included in this Acid Rain Opt-in Permit Renewal Application, please call Randy Musselwhite of Portsmouth Genco at (757) 484-3540 or Nicole Saniti of Trinity Consultants at (704) 553-7747.

Sincerely,
PORTSMOUTH GENCO, LLC

Gary Hughes
General Manager

Attachments

cc: Director, Air Protection Division, US EPA Region III
Randy Musselwhite, Portsmouth Genco, LLC
Cheryl Sawyer, Cogentrix Energy
Nicole Saniti, Trinity Consultants

ATTACHMENT 1 – ACID RAIN PERMIT APPLICATION FORM

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: • new • revised • X for Acid Rain permit renewal

RECEIVED – DEQ
DEC 27 2011
Tidewater Regional Office

STEP 1

Identify the facility name, State, and plant (ORIS) code.

Facility (Source) Name Portsmouth Genco, LLC	State Virginia	Plant Code 10071

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
BLR01A	Yes
BLR01B	Yes
BLR01C	Yes
BLR02A	Yes
BLR02B	Yes
BLR02C	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

Facility (Source) Name (from STEP 1) Portsmouth Genco, LLC

STEP 3

Read the standard requirements.

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:

(i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

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

(2) The owners and operators of each affected source and each affected unit at the source shall:

(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and

(ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:

(i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and

(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:

(i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or

(ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

Facility (Source) Name (from STEP 1) Portsmouth Genco, LLC

Sulfur Dioxide Requirements, Cont'd.

STEP 3, Cont'd.

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit 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 prior to the end of 5 years, in writing by the Administrator or permitting authority:
(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; 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 changing the designated representative;

Facility (Source) Name (from STEP 1) Portsmouth Genco, LLC

Recordkeeping and Reporting Requirements, Cont'd.

STEP 3, Cont'd.

(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 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 Acid Rain Program; and,
(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:
(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating

Facility (Source) Name (from STEP 1) Portsmouth Genco, LLC

Effect on Other Authorities, Cont'd.

STEP 3, Cont'd.

to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a source can hold; *provided,* that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

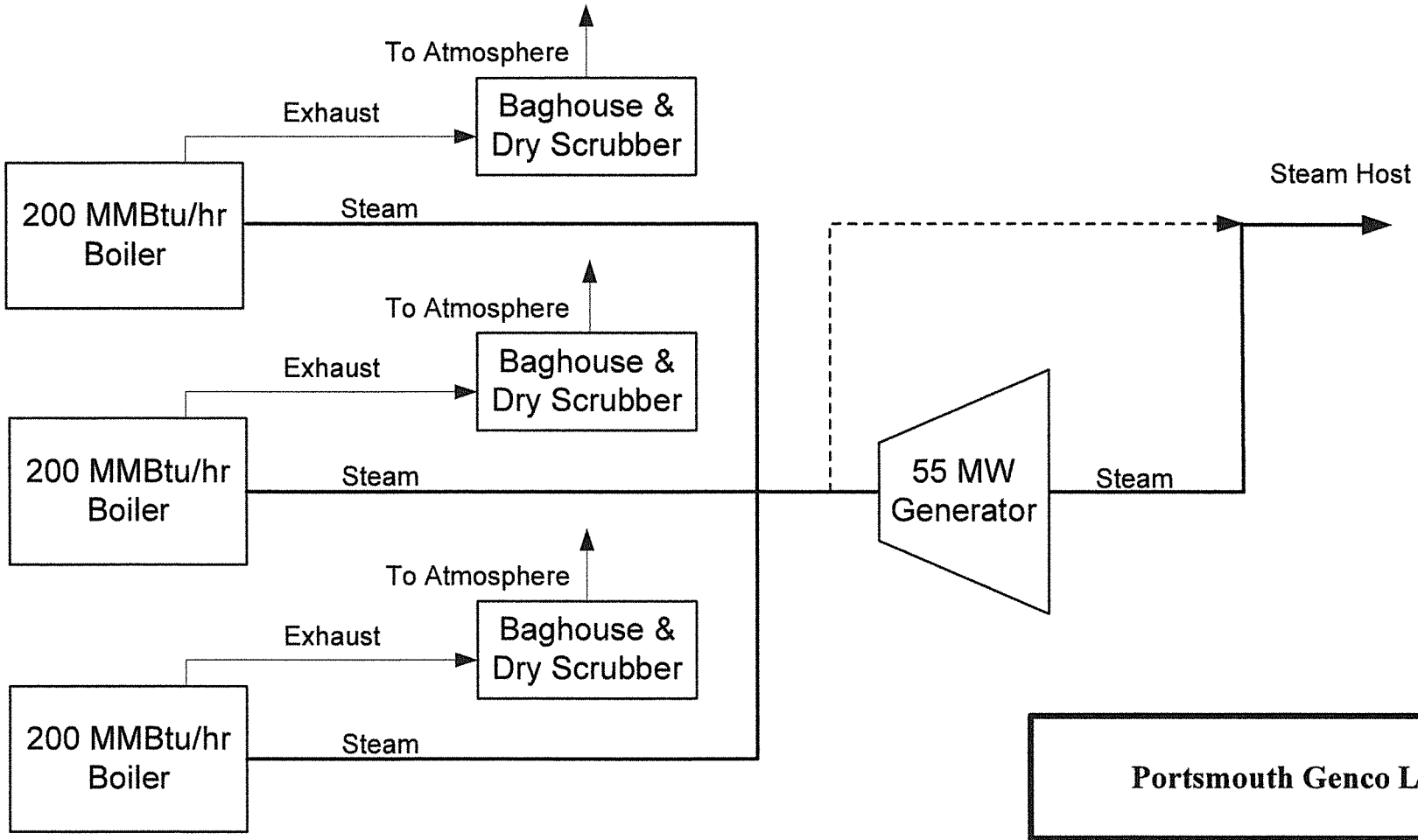
Certification

STEP 4
Read the certification statement, sign, and date.

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected 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 Gary Hughes	
Signature Gary Hughes	Date 12/22/11

ATTACHMENT 2 – PROCESS FLOW DIAGRAM



Portsmouth Genco LLC

Boiler Setup

Trinity Consultants

ATTACHMENT 3 – UPDATED MONITORING PLAN

ECMPS Client Tool

Version 1.0 2011 Q3

Monitoring Plan Printout Report

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Facility Name: Cogentrix-Portsmouth

Facility Details

Facility ID (ORISPL):	10071
Monitoring Plan Location IDs:	CS001, BLR01A, BLR01B, BLR01C
State:	VA
County:	Portsmouth (City)
Latitude:	36.8703
Longitude:	-76.3519

Reporting Frequency

Monitoring Plan Location IDs	Reporting Frequency	Begin Quarter	End Quarter
CS001, BLR01A, BLR01B, BLR01C	OS - Ozone Season	2003 QTR 2	2007 QTR 4
	Q - Quarterly	2008 QTR 1	

Stacks and Pipes

Stack/Pipe Identifier	Activation Date	Retirement Date	Bypass Stack	Unit to Stack/Pipe Relationship		
				Associated Units	Begin Date	End Date
CS001	05/01/2003			BLR01A	05/01/2003	
				BLR01B	05/01/2003	
				BLR01C	05/01/2003	

Monitoring Location Attributes

Unit/Stack/Pipe Identifier	Duct Indicator	Ground Elevation	Stack Height	Cross Area Exit	Cross Area Flow	Material Code	Shape Code	Begin Date	End Date
BLR01A		9	198	59				05/01/2003	
BLR01B		9	198	59				05/01/2003	
BLR01C		9	198	59				05/01/2003	
CS001		9	198	59	79	OTHER	ROUND	05/01/2003	

Facility Name: Cogentrix-Portsmouth

Facility ID (ORISPL): 10071

Unit Operation Information

Unit Identifier	Commence Commercial Operation Date	Commence Operation Date	Boiler/Turbine Type			Max Heat Input		
			Code	Begin Date	End Date	Value (mmBtu)	Begin Date	End Date
BLR01A	06/01/1988	06/01/1988	S	06/01/1988		200.0	01/07/2003	03/31/2011
	06/01/1988	06/01/1988	S	06/01/1988		290.0	04/01/2011	
BLR01B	06/01/1988	06/01/1988	S	06/01/1988		200.0	01/07/2003	03/31/2011
	06/01/1988	06/01/1988	S	06/01/1988		290.0	04/01/2011	
BLR01C	06/01/1988	06/01/1988	S	06/01/1988		200.0	01/07/2003	03/31/2011
	06/01/1988	06/01/1988	S	06/01/1988		290.0	04/01/2011	

Unit Type Codes: S - Stoker

Facility Name: **Cogentrix-Portsmouth**

Facility ID (ORISPL): **10071**

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Unit Program Information

Unit Identifier	Program Code	Unit Class	Unit Monitor Certification Begin Date	Unit Monitor Certification Deadline
BLR01A	ARP	P2	01/01/2008	04/01/2008
	CAIRNOX	A	01/01/2008	01/01/2008
	CAIROS	A	05/01/2008	05/01/2008
	CAIRSO2	A	01/01/2009	01/01/2009
	NBP	A	05/01/2003	05/01/2003
	TRNOX	A	01/01/2012	01/01/2012
	TRNOXOS	A	05/01/2012	05/01/2012
	TRSO2G1	A	01/01/2012	01/01/2012
BLR01B	ARP	P2	01/01/2008	04/01/2008
	CAIRNOX	A	01/01/2008	01/01/2008
	CAIROS	A	05/01/2008	05/01/2008
	CAIRSO2	A	01/01/2009	01/01/2009
	NBP	A	05/01/2003	05/01/2003
	TRNOX	A	01/01/2012	01/01/2012
	TRNOXOS	A	05/01/2012	05/01/2012
	TRSO2G1	A	01/01/2012	01/01/2012
BLR01C	ARP	P2	01/01/2008	04/01/2008
	CAIRNOX	A	01/01/2008	01/01/2008
	CAIROS	A	05/01/2008	05/01/2008
	CAIRSO2	A	01/01/2009	01/01/2009
	NBP	A	05/01/2003	05/01/2003
	TRNOX	A	01/01/2012	01/01/2012
	TRNOXOS	A	05/01/2012	05/01/2012
	TRSO2G1	A	01/01/2012	01/01/2012

Facility Name: **Cogentrix-Portsmouth**

Facility ID (ORISPL): 10071

Monitoring Plan Printout Report

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Unit Fuel

Unit Identifier	Fuel Type	Fuel Indicator	Demonstration Method for GCV	Demonstration Method for Daily Sulfur	Ozone Season Indicator	Begin Date	End Date
BLR01A	C	P				06/01/1988	
BLR01B	C	P				06/01/1988	
BLR01C	C	P				06/01/1988	

Fuel Type Codes: C - Coal

Fuel Indicator Codes: P - Primary

Unit Controls

Unit Identifier	Parameter	Control Equipment	Original Ind	Seasonal Ind	Installation Date	Optimization Date	Retirement Date
BLR01A	PART	B			06/01/1988		
	SO2	DL			04/03/2008		
	NOX	OFA			04/01/2003		
BLR01B	PART	B			06/01/1988		
	SO2	DL			04/03/2008		
	NOX	OFA			04/01/2003		
BLR01C	PART	B			06/01/1988		
	SO2	DL			04/03/2008		
	NOX	OFA			04/01/2003		

Control Equipment Descriptions:

OFA - Overfire Air

DL - Dry Lime FGD

B - Baghouse

Facility Name: **Cogentrix-Portsmouth**

Facility ID (ORISPL): **10071**

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Monitoring Method

Unit/Stack/Pipe Identifier	Parameter	Methodology	Substitute Data Approach	Bypass Approach Code	Begin Date/Hour	End Date/Hour
CS001	CO2	CEM	SPTS		04/01/2008 00	
	HI	CEM	SPTS		05/01/2003 00	
	NOX	CEM	SPTS		05/01/2003 00	
	NOXR	CEM	SPTS		04/01/2008 00	
	OP	COM			04/01/2008 00	
	SO2	CEM	SPTS		04/01/2008 00	
BLR01A	HI	CALC			05/01/2003 00	
BLR01B	HI	CALC			05/01/2003 00	
BLR01C	HI	CALC			05/01/2003 00	

Parameter Codes:
SO2 - SO2 Hourly Mass Rate (lb/hr)
OP - Opacity
NOXR - NOx Emission Rate (lb/mmBtu)
NOX - NOx Hourly Mass Rate (lb/hr)
HI - Heat Input Rate (mmBtu/hr)
CO2 - CO2 Hourly Mass Rate (ton/hr)

Methodology Codes:
COM - Continuous Opacity or Particulate Matter Monitor
CEM - Continuous Emission Monitor
CALC - Apportioned or Summed Value

Substitute Data Codes:
SPTS - Standard Part 75 for Missing Data

Monitoring System / Analytical Components

Unit/Stack /Pipe Identifier	System					Component								
	ID	Type	Des	Begin Date/Hour	End Date/Hour	ID	Type	SAM	BAS	Manufacturer	Model or Version	Serial Number	Begin Date/Hour	End Date/Hour
CS001	C10	CO2	P	04/01/2003 00		120	CO2	DOU	W	THERMO ENVIRONMENTAL	41CHL	41CHL-70936-367	04/01/2003 00	
						140	PLC			MODICON	QUANTUM	TSX2511	04/01/2003 00	
						150	DAHS			VIM TECHNOLOGY	CEMLINK 5	2511	04/01/2003 00	
						180	PRB	DIL		THERMO ENVIRONMENTAL	PRO901	PM-PRO901-U1	04/01/2003 00	03/13/2009 23
						185	PRB	DIL		THERMO ENVIRONMENTAL		20231	03/13/2009 23	

Facility Name: **Cogentrix-Portsmouth**

Facility ID (ORISPL): 10071

Monitoring Plan Printout Report

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Unit/Stack /Pipe Identifier	System					Component								
	ID	Type	Des	Begin Date/Hour	End Date/Hour	ID	Type	SAM	BAS	Manufacturer	Model or Version	Serial Number	Begin Date/Hour	End Date/Hour
CS001	F10	FLOW	P	04/01/2003 00		130	FLOW	U	W	THERMO ENVIRONMENTAL	220	22072052370	04/01/2003 00	02/21/2007 16
						135	FLOW	DP	W	EMRC	DP60/75	0965	02/21/2007 17	
						140	PLC			MODICON	QUANTUM	TSX2511	04/01/2003 00	
						150	DAHS			VIM TECHNOLOGY	CEMLINK 5	2511	04/01/2003 00	
	M10	NOXC	P	04/01/2003 00		110	NOX	DOU	W	THERMO ENVIRONMENTAL	42C	42C-70410-365	04/01/2003 00	
						140	PLC			MODICON	QUANTUM	TSX2511	04/01/2003 00	
						150	DAHS			VIM TECHNOLOGY	CEMLINK 5	2511	04/01/2003 00	
						180	PRB	DIL		THERMO ENVIRONMENTAL	PRO901	PM-PRO901-U1	04/01/2003 00	03/13/2009 23
						185	PRB	DIL		THERMO ENVIRONMENTAL		20231	03/13/2009 23	
	O10	OP	P	12/01/2007 00		140	PLC			MODICON	QUANTUM	TSX2511	12/01/2007 00	
						150	DAHS			VIM TECHNOLOGY	CEMLINK 5	2511	12/01/2007 00	
						170	OP	ISC		THERMO ENVIRONMENTAL	440	440-71617-B-9/369	12/01/2007 00	
	R10	NOX	P	12/01/2007 00		110	NOX	DOU	W	THERMO ENVIRONMENTAL	42C	42C-70410-365	12/01/2007 00	
						120	CO2	DOU	W	THERMO ENVIRONMENTAL	41CHL	41CHL-70936-367	12/01/2007 00	
						140	PLC			MODICON	QUANTUM	TSX2511	12/01/2007 00	
						150	DAHS			VIM TECHNOLOGY	CEMLINK 5	2511	12/01/2007 00	
						180	PRB	DIL		THERMO ENVIRONMENTAL	PRO901	PM-PRO901-U1	12/01/2007 00	03/13/2009 23
						185	PRB	DIL		THERMO ENVIRONMENTAL		20231	03/13/2009 23	
	S10	SO2	P	12/01/2007 00		150	DAHS			VIM TECHNOLOGY	CEMLINK 5	2511	12/01/2007 00	
						160	SO2	DOU	W	THERMO ENVIRONMENTAL	43I	635419739	12/01/2007 00	
						180	PRB	DIL		THERMO ENVIRONMENTAL	PRO901	PM-PRO901-U1	12/01/2007 00	03/13/2009 23
						185	PRB	DIL		THERMO ENVIRONMENTAL		20231	03/13/2009 23	

Facility Name: Cogentrix-Portsmouth

Facility ID (ORISPL): 10071

System Types Descriptions:
CO2 - CO2 Concentration
FLOW - Stack Flow
NOXC - NOx Concentration
OP - Opacity
NOX - NOx Emission Rate
SO2 - SO2 Concentration

System Designations Descriptions:
P - Primary

Sample Acquisition Method (SAM):
U - Ultrasonic
ISC - Cross Stack In Situ
DP - Differential Pressure
DOU - Dilution Out-of-Stack
DIL - Dilution

Component Types Descriptions:
CO2 - CO2 Concentration
PLC - Programmable Logic Controller
DAHS - Data Acquisition and Handling System
PRB - Probe
FLOW - Stack Flow Analyzer
NOX - NOx Concentration
OP - Opacity Monitor
SO2 - SO2 Concentration

Analyzer Range Data

Unit/Stack/Pipe Identifier	Component Type	Component ID	Range Code	Dual Range Indicator	Begin Date/Hour	End Date/Hour
CS001	CO2	120	High Range		04/01/2003 00	
	NOX	110	High Range		04/01/2003 00	
	SO2	160	Auto Ranging	Y	02/20/2008 00	
	SO2	160	High Range		12/01/2007 00	02/19/2008 23

Component Types Descriptions:
CO2 - CO2 Concentration
NOX - NOx Concentration
SO2 - SO2 Concentration

Emissions Formulas

Unit/Stack/Pipe Identifier	Parameter	Formula ID	Formula Code	Formula	Begin Date/Hour	End Date/Hour
BLR01A	HI	HI1	F-21B	HI_1=(F#(HIN)*T_CS1/T_1)*SF_1*T_1/(SF_1*T_1+SF_2*T_2+SF_3*T_3)	05/01/2003 00	
BLR01B	HI	HI2	F-21B	HI_2=(F#(HIN)*T_CS1/T_2)*SF_2*T_2/(SF_1*T_1+SF_2*T_2+SF_3*T_3)	05/01/2003 00	
BLR01C	HI	HI3	F-21B	HI_3=(F#(HIN)*T_CS1/T_3)*SF_3*T_3/(SF_1*T_1+SF_2*T_2+SF_3*T_3)	05/01/2003 00	
CS001	CO2	CO2	F-11	M_CO2=S#(C10-120)*S#(F10-135)	12/01/2007 00	
	HI	HIN	F-15	HI=S#(F10-135)*(1/1800)*S#(C10-120)/100	04/01/2003 00	
	NOX	NOM	F-26A	M_NOX=S#(M10-110)*1.194*10**-7*S#(F10-135)*T_CS1	04/01/2003 00	
	NOXR	NOX	F-6	R_NOX=1.194*10**-7*S#(R10-110)*1800*100/#(R10-120)	12/01/2007 00	
	SO2	SO2	F-1	M_SO2=S#(S10-160)*1.660*10**-7*S#(F10-135)*T_CS1	12/01/2007 00	

Parameter Codes Descriptions:
HI - Heat Input Rate (mmBtu/hr)
CO2 - CO2 Hourly Mass Rate (ton/hr)
NOX - NOx Hourly Mass Rate (lb/hr)
NOXR - NOx Emission Rate (lb/mmBtu)
SO2 - SO2 Hourly Mass Rate (lb/hr)

Formula Codes Descriptions:
F-6 - NOXR/SO2R (from NOX or SO2 wet, CO2 wet, Fc)
F-26A - NOX (hourly from wet NOXC, flow)
F-21B - HI (apportioned from HI for common stack/pipe by steam load)
F-15 - HI (from wet CO2, flow, Fc)
F-11 - CO2 (from CO2 wet, flow)
F-1 - SO2 (from SO2 wet, flow)

Span Values

Unit/Stack /Pipe Identifier	Comp Type	Scale	Method	MPC/ MPF	MEC	Span Value	Full-Scale Range	Units of Measure	Scale Transition Point	Def. High Range Value	Flow Full Range (SCFH)	Flow Span Value (SCFH)	Begin Date/Hour	End Date/Hour
CS001	CO2	H	TB	14.0		20.000	20.000	PCT					04/01/2003 00	03/31/2008 23
	CO2	H	HD	14.5		20.000	20.000	PCT					04/01/2008 00	12/31/2008 23
	CO2	H	HD	15.5		20.000	20.000	PCT					01/01/2009 00	
	FLOW		TR	17064000		6000.000	6000.000	AFPM			17064000	17064000	04/01/2003 00	04/30/2003 23
	FLOW		TR	13773000		3600.000	6000.000	AFPM			25505000	17216000	05/01/2003 00	02/21/2007 18
	FLOW		TR	14052000		1.000	1.000	INH2O			17565000	17565000	02/21/2007 19	
	NOX	H	HD	350.0		500.000	1000.000	PPM					04/01/2003 00	03/15/2005 23
	NOX	H	HD	265.0		400.000	500.000	PPM					03/16/2005 00	
	SO2	H	F	710.0		900.000	900.000	PPM	190.0				12/01/2007 00	08/25/2008 10
	SO2	H	F	960.0	192.0	1000.000	1000.000	PPM	225.0				08/25/2008 11	09/30/2008 23
	SO2	H	F	970.0	194.0	1000.000	1000.000	PPM	225.0				10/01/2008 00	
	SO2	L	F		71.0	90.000	200.000	PPM	190.0				02/20/2008 00	08/25/2008 10
	SO2	L	F		192.0	250.000	250.000	PPM	225.0				08/25/2008 11	09/30/2008 23
	SO2	L	F		194.0	250.000	250.000	PPM	225.0				10/01/2008 00	

Component Types Descriptions:
CO2 - CO2 Concentration
FLOW - Stack Flow Analyzer
NOX - NOx Concentration
SO2 - SO2 Concentration

Span Method Codes Descriptions:
TR - Test Results
TB - Table Defaults from Part 75
HD - Historical Data
F - Formula

Units of Measure Descriptions:
PPM - Parts per Million
PCT - Percentage
INH2O - Inches of Water
AFPM - Actual Feet of Stack Flow / Minute

Facility Name: **Cogentrix-Portsmouth**

Facility ID (ORISPL): **10071**

Monitoring Plan Printout Report

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Unit/Stack/Pipe Load or Operating Level Information

Unit/Stack/Pipe Identifier	Maximum Hourly Load	Units of Measure	Upper Bound of Range of Operation	Lower Bound of Range of Operation	Designated Normal Op. Level	Second Most Frequently Used Op. Level	Second Normal Indicator	Load Analysis Date	Begin Date/Hour	End Date/Hour
BLR01A	180	KLBHR					No		04/01/2003 00	03/31/2008 23
	190	KLBHR					No		04/01/2008 00	
BLR01B	180	KLBHR					No		04/01/2003 00	03/31/2008 23
	190	KLBHR					No		04/01/2008 00	
BLR01C	180	KLBHR					No		04/01/2003 00	03/31/2008 23
	190	KLBHR					No		04/01/2008 00	
CS001	540	KLBHR	540	135	High	Low	No	05/01/2003	05/01/2003 00	02/29/2004 23
	540	KLBHR	540	135	High	Low	Yes	03/01/2004	03/01/2004 00	03/14/2005 23
	540	KLBHR	540	135	High	Mid	Yes	03/15/2005	03/15/2005 00	02/14/2006 23
	540	KLBHR	540	50	High	Mid	Yes	02/15/2006	02/15/2006 00	11/30/2007 23
	540	KLBHR	540	50	High	Low	Yes	12/01/2007	12/01/2007 00	03/31/2008 23
	570	KLBHR	570	150	High	Mid	Yes	04/01/2008	04/01/2008 00	03/31/2010 23
	570	KLBHR	570	150	Mid	High	Yes	04/01/2010	04/01/2010 00	03/31/2011 23
	570	KLBHR	570	150	High	Mid	Yes	04/01/2011	04/01/2011 00	

Units of Measure Descriptions: KLBHR - 1000 Pounds Steam Load / Hour

Facility Name: Cogentrix-Portsmouth

Facility ID (ORISPL): 10071

Monitoring Defaults

Unit/Stack/Pipe Identifier	Parameter	Value	Units of Measure	Purpose Code	Fuel Type	Operating Condition	Source of Value	Begin Date/Hour	End Date/Hour
CS001	CO2N	5.0000	PCT	DC	NFS	A	DEF	05/01/2003 00	
	NORX	1.0540	LBMMBTU	MD	NFS	A	DATA	04/01/2003 00	03/15/2005 23
	NORX	0.6330	LBMMBTU	MD	NFS	A	DATA	03/16/2005 00	03/31/2008 23
	NORX	0.7120	LBMMBTU	MD	NFS	A	DATA	04/01/2008 00	

Parameter Codes Descriptions: NORX - Maximum NOx Emission Rate (lb/mmBtu)
CO2N - CO2 Minimum Concentration (pct)

Units of Measure Descriptions: PCT - Percentage
LBMMBTU - Pounds / mmBtu

Purpose Codes Descriptions: MD - Missing Data (or Unmonitored Bypass Stack or Emergency Fuel) Default
DC - Diluent Cap

Fuel Type Codes Descriptions: NFS - Non-Fuel Specific

Operating Conditions Descriptions: A - Any Hour

Source Codes Descriptions: DEF - Default Value from Part 75
DATA - Historical or Other Relevant Data

ECMPS Client Tool

Version 1.0 2011 Q3

Monitoring Plan Printout Report

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Facility Name: Cogentrix-Portsmouth

Facility Details

Facility ID (ORISPL):	10071
Monitoring Plan Location IDs:	CS002, BLR02A, BLR02B, BLR02C
State:	VA
County:	Portsmouth (City)
Latitude:	36.8703
Longitude:	-76.3519

Reporting Frequency

Monitoring Plan Location IDs	Reporting Frequency	Begin Quarter	End Quarter
CS002, BLR02A, BLR02B, BLR02C	OS - Ozone Season	2003 QTR 2	2007 QTR 4
	Q - Quarterly	2008 QTR 1	

Stacks and Pipes

Stack/Pipe Identifier	Activation Date	Retirement Date	Bypass Stack	Unit to Stack/Pipe Relationship		
				Associated Units	Begin Date	End Date
CS002	05/01/2003			BLR02A	05/01/2003	
				BLR02B	05/01/2003	
				BLR02C	05/01/2003	

Monitoring Location Attributes

Unit/Stack/Pipe Identifier	Duct Indicator	Ground Elevation	Stack Height	Cross Area Exit	Cross Area Flow	Material Code	Shape Code	Begin Date	End Date
BLR02A		9	198	59				05/01/2003	
BLR02B		9	198	59				05/01/2003	
BLR02C		9	198	59				05/01/2003	
CS002		9	198	59	79	OTHER	ROUND	05/01/2003	

Facility Name: Cogentrix-Portsmouth

Facility ID (ORISPL): 10071

Unit Operation Information

Unit Identifier	Commence Commercial Operation Date	Commence Operation Date	Boiler/Turbine Type			Max Heat Input		
			Code	Begin Date	End Date	Value (mmBtu)	Begin Date	End Date
BLR02A	06/01/1988	06/01/1988	S	06/01/1988		200.0	01/07/2003	03/31/2011
	06/01/1988	06/01/1988	S	06/01/1988		290.0	04/01/2011	
BLR02B	06/01/1988	06/01/1988	S	06/01/1988		200.0	01/07/2003	03/31/2011
	06/01/1988	06/01/1988	S	06/01/1988		290.0	04/01/2011	
BLR02C	06/01/1988	06/01/1988	S	06/01/1988		200.0	01/07/2003	03/31/2011
	06/01/1988	06/01/1988	S	06/01/1988		290.0	04/01/2011	

Unit Type Codes: S - Stoker

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Unit Program Information

Unit Identifier	Program Code	Unit Class	Unit Monitor Certification Begin Date	Unit Monitor Certification Deadline
BLR02A	ARP	P2	01/01/2008	04/01/2008
	CAIRNOX	A	01/01/2008	01/01/2008
	CAIROS	A	05/01/2008	05/01/2008
	CAIRSO2	A	01/01/2009	01/01/2009
	NBP	A	05/01/2003	05/01/2003
	TRNOX	A	01/01/2012	01/01/2012
	TRNOXOS	A	05/01/2012	05/01/2012
	TRSO2G1	A	01/01/2012	01/01/2012
BLR02B	ARP	P2	01/01/2008	04/01/2008
	CAIRNOX	A	01/01/2008	01/01/2008
	CAIROS	A	05/01/2008	05/01/2008
	CAIRSO2	A	01/01/2009	01/01/2009
	NBP	A	05/01/2003	05/01/2003
	TRNOX	A	01/01/2012	01/01/2012
	TRNOXOS	A	05/01/2012	05/01/2012
	TRSO2G1	A	01/01/2012	01/01/2012
BLR02C	ARP	P2	01/01/2008	04/01/2008
	CAIRNOX	A	01/01/2008	01/01/2008
	CAIROS	A	05/01/2008	05/01/2008
	CAIRSO2	A	01/01/2009	01/01/2009
	NBP	A	05/01/2003	05/01/2003
	TRNOX	A	01/01/2012	01/01/2012
	TRNOXOS	A	05/01/2012	05/01/2012
	TRSO2G1	A	01/01/2012	01/01/2012

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Unit Fuel

Unit Identifier	Fuel Type	Fuel Indicator	Demonstration Method for GCV	Demonstration Method for Daily Sulfur	Ozone Season Indicator	Begin Date	End Date
BLR02A	C	P				06/01/1988	
BLR02B	C	P				06/01/1988	
BLR02C	C	P				06/01/1988	

Fuel Type Codes: C - Coal

Fuel Indicator Codes: P - Primary

Unit Controls

Unit Identifier	Parameter	Control Equipment	Original Ind	Seasonal Ind	Installation Date	Optimization Date	Retirement Date
BLR02A	PART	B			06/01/1988		
	SO2	DL			10/10/2007		
	NOX	OFA			04/01/2003		
BLR02B	PART	B			06/01/1988		
	SO2	DL			10/10/2007		
	NOX	OFA			04/01/2003		
BLR02C	PART	B			06/01/2003		
	SO2	DL			10/10/2007		
	NOX	OFA			04/01/2003		

Control Equipment Descriptions:
OFA - Overfire Air
DL - Dry Lime FGD
B - Baghouse

Monitoring Method

Unit/Stack/Pipe Identifier	Parameter	Methodology	Substitute Data Approach	Bypass Approach Code	Begin Date/Hour	End Date/Hour
CS002	CO2	CEM	SPTS		04/01/2008 00	
	HI	CEM	SPTS		05/01/2003 00	
	NOX	CEM	SPTS		05/01/2003 00	
	NOXR	CEM	SPTS		04/01/2008 00	
	OP	COM			04/01/2008 00	
	SO2	CEM	SPTS		04/01/2008 00	
BLR02A	HI	CALC			05/01/2003 00	
BLR02B	HI	CALC			05/01/2003 00	
BLR02C	HI	CALC			05/01/2003 00	

Parameter Codes:
SO2 - SO2 Hourly Mass Rate (lb/hr)
OP - Opacity
NOXR - NOx Emission Rate (lb/mmBtu)
NOX - NOx Hourly Mass Rate (lb/hr)
HI - Heat Input Rate (mmBtu/hr)
CO2 - CO2 Hourly Mass Rate (ton/hr)

Methodology Codes:
COM - Continuous Opacity or Particulate Matter Monitor
CEM - Continuous Emission Monitor
CALC - Apportioned or Summed Value

Substitute Data Codes:
SPTS - Standard Part 75 for Missing Data

Monitoring System / Analytical Components

Unit/Stack /Pipe Identifier	System					Component								
	ID	Type	Des	Begin Date/Hour	End Date/Hour	ID	Type	SAM	BAS	Manufacturer	Model or Version	Serial Number	Begin Date/Hour	End Date/Hour
CS002	C20	CO2	P	04/01/2003 00		220	CO2	DOU	W	THERMO ENVIRONMENTAL	41CHL	41CHL-71389-368	04/01/2003 00	
						240	PLC			MODICON	QUANTUM	TSX2511	04/01/2003 00	
						250	DAHS			VIM TECHNOLOGY	CEMLINK 5	2511	04/01/2003 00	
						280	PRB	DIL		THERMO ENVIRONMENTAL	PRO901	PM-PRO901-U2	04/01/2003 00	
	F20	FLOW	P	04/01/2003 00		230	FLOW	U	W	THERMO ENVIRONMENTAL	22072053270	220	04/01/2003 00	02/21/2007 17

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Unit/Stack /Pipe Identifier	System					Component								
	ID	Type	Des	Begin Date/Hour	End Date/Hour	ID	Type	SAM	BAS	Manufacturer	Model or Version	Serial Number	Begin Date/Hour	End Date/Hour
CS002	F20	FLOW	P	04/01/2003 00		235	FLOW	DP	W	EMRC	DP60/75	0966	02/21/2007 18	
						240	PLC			MODICON	QUANTUM	TSX2511	04/01/2003 00	
						250	DAHS			VIM TECHNOLOGY	CEMLINK 5	2511	04/01/2003 00	
	M20	NOXC	P	04/01/2003 00		210	NOX	DOU	W	THERMO ENVIRONMENTAL	42C	42C-70652-366	04/01/2003 00	
						240	PLC			MODICON	QUANTUM	TSX2511	04/01/2003 00	
						250	DAHS			VIM TECHNOLOGY	CEMLINK 5	2511	04/01/2003 00	
						280	PRB	DIL		THERMO ENVIRONMENTAL	PRO901	PM-PRO901-U2	04/01/2003 00	
	O20	OP	P	12/01/2007 00		240	PLC			MODICON	QUANTUM	TSX2511	12/01/2007 00	
						250	DAHS			VIM TECHNOLOGY	CEMLINK 5	2511	12/01/2007 00	
						270	OP	ISC		THERMO ENVIRONMENTAL	440	440-71618-B-9/369	12/01/2007 00	
	R20	NOX	P	12/01/2007 00		210	NOX	DOU	W	THERMO ENVIRONMENTAL	42C	42C-70652-366	12/01/2007 00	
						220	CO2	DOU	W	THERMO ENVIRONMENTAL	41CHL	41CHL-71389-368	12/01/2007 00	
						240	PLC			MODICON	QUANTUM	TSX2511	12/01/2007 00	
						250	DAHS			VIM TECHNOLOGY	CEMLINK 5	2511	12/01/2007 00	
						280	PRB	DIL		THERMO ENVIRONMENTAL	PRO901	PM-PRO901-U2	12/01/2007 00	
	S20	SO2	P	12/01/2007 00		240	PLC			MODICON	QUANTUM	TSX2511	12/01/2007 00	
						250	DAHS			VIM TECHNOLOGY	CEMLINK 5	2511	12/01/2007 00	
						260	SO2	DOU	W	THERMO ENVIRONMENTAL	43I	635419741	12/01/2007 00	
						280	PRB	DIL		THERMO ENVIRONMENTAL	PRO901	PM-PRO901-U2	12/01/2007 00	

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System Types Descriptions:
CO2 - CO2 Concentration
FLOW - Stack Flow
NOXC - NOx Concentration
OP - Opacity
NOX - NOx Emission Rate
SO2 - SO2 Concentration

System Designations Descriptions:
P - Primary

Sample Acquisition Method (SAM):
U - Ultrasonic
ISC - Cross Stack In Situ
DP - Differential Pressure
DOU - Dilution Out-of-Stack
DIL - Dilution

Component Types Descriptions:
CO2 - CO2 Concentration
PLC - Programmable Logic Controller
DAHS - Data Acquisition and Handling System
PRB - Probe
FLOW - Stack Flow Analyzer
NOX - NOx Concentration
OP - Opacity Monitor
SO2 - SO2 Concentration

Analyzer Range Data

Unit/Stack/Pipe Identifier	Component Type	Component ID	Range Code	Dual Range Indicator	Begin Date/Hour	End Date/Hour
CS002	CO2	220	High Range		04/01/2003 00	
	NOX	210	High Range		04/01/2003 00	
	SO2	260	Auto Ranging	Y	12/01/2007 00	

Component Types Descriptions:
CO2 - CO2 Concentration
NOX - NOx Concentration
SO2 - SO2 Concentration

Emissions Formulas

Unit/Stack/Pipe Identifier	Parameter	Formula ID	Formula Code	Formula	Begin Date/Hour	End Date/Hour
BLR02A	HI	HI1	F-21B	HI_1=(F#(HIN)*T_CS2/T_1)*SF_1*T_1/(SF_1*T_1+SF_2*T_2+SF_3*T_3)	05/01/2003 00	
BLR02B	HI	HI2	F-21B	HI_2=(F#(HIN)*T_CS2/T_2)*SF_2*T_2/(SF_1*T_1+SF_2*T_2+SF_3*T_3)	05/01/2003 00	
BLR02C	HI	HI3	F-21B	HI_3=(F#(HIN)*T_CS2/T_3)*SF_3*T_3/(SF_1*T_1+SF_2*T_2+SF_3*T_3)	05/01/2003 00	
CS002	CO2	CO2	F-11	M_CO2=S#(C20-220)*S#(F20-235)	12/01/2007 00	
	HI	HIN	F-15	HI=S#(F20-235)*(1/1800)*S#(C20-220)/100	04/01/2003 00	
	NOX	NOM	F-26A	M_NOX=S#(M20-210)*1.194*10**-7*S#(F20-235)*T_CS2	04/01/2003 00	
	NOXR	NOX	F-6	R_NOX=1.194*10**-7*S#(R20-210)*1800*100/#(R20-220)	12/01/2007 00	
	SO2	SO2	F-1	M_SO2=S#(S20-260)*1.660*10**-7*S#*(F20-235)*T_CS2	12/01/2007 00	

Parameter Codes Descriptions:
HI - Heat Input Rate (mmBtu/hr)
CO2 - CO2 Hourly Mass Rate (ton/hr)
NOX - NOx Hourly Mass Rate (lb/hr)
NOXR - NOx Emission Rate (lb/mmBtu)
SO2 - SO2 Hourly Mass Rate (lb/hr)

Formula Codes Descriptions:
F-6 - NOXR/SO2R (from NOX or SO2 wet, CO2 wet, Fc)
F-26A - NOX (hourly from wet NOXC, flow)
F-21B - HI (apportioned from HI for common stack/pipe by steam load)
F-15 - HI (from wet CO2, flow, Fc)
F-11 - CO2 (from CO2 wet, flow)
F-1 - SO2 (from SO2 wet, flow)

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Span Values

Unit/Stack /Pipe Identifier	Comp Type	Scale	Method	MPC/ MPF	MEC	Span Value	Full-Scale Range	Units of Measure	Scale Transition Point	Def. High Range Value	Flow Full Range (SCFH)	Flow Span Value (SCFH)	Begin Date/Hour	End Date/Hour
CS002	CO2	H	TB	14.0		20.000	20.000	PCT					04/01/2003 00	03/31/2008 23
	CO2	H	HD	14.5		20.000	20.000	PCT					04/01/2008 00	12/31/2008 23
	CO2	H	HD	15.5		20.000	20.000	PCT					01/01/2009 00	
	FLOW		TR	17064000		6000.000	6000.000	AFPM			17064000	17064000	04/01/2003 00	04/30/2003 23
	FLOW		TR	13773000		3600.000	6000.000	AFPM			25505000	17216000	05/01/2003 00	02/21/2007 17
	FLOW		TR	14052000		1.000	1.000	INH2O			17565000	17565000	02/21/2007 18	
	NOX	H	HD	350.0		500.000	1000.000	PPM					04/01/2003 00	03/15/2005 23
	NOX	H	HD	265.0		400.000	500.000	PPM					03/16/2005 00	
	SO2	H	F	710.0	71.0	900.000	900.000	PPM	190.0				12/01/2007 00	08/25/2008 10
	SO2	H	F	960.0	192.0	1000.000	1000.000	PPM	225.0				08/25/2008 11	09/30/2008 23
	SO2	H	F	970.0	194.0	1000.000	1000.000	PPM	225.0				10/01/2008 00	
	SO2	L	F		71.0	90.000	200.000	PPM	190.0				12/01/2007 00	08/25/2008 10
	SO2	L	F		192.0	250.000	250.000	PPM	225.0				08/25/2008 11	09/30/2008 23
	SO2	L	F		194.0	250.000	250.000	PPM	225.0				10/01/2008 00	

Component Types Descriptions:
CO2 - CO2 Concentration
FLOW - Stack Flow Analyzer
NOX - NOx Concentration
SO2 - SO2 Concentration

Span Method Codes Descriptions:
TR - Test Results
TB - Table Defaults from Part 75
HD - Historical Data
F - Formula

Units of Measure Descriptions:
PPM - Parts per Million
PCT - Percentage
INH2O - Inches of Water
AFPM - Actual Feet of Stack Flow / Minute

Unit/Stack/Pipe Load or Operating Level Information

Unit/Stack/Pipe Identifier	Maximum Hourly Load	Units of Measure	Upper Bound of Range of Operation	Lower Bound of Range of Operation	Designated Normal Op. Level	Second Most Frequently Used Op. Level	Second Normal Indicator	Load Analysis Date	Begin Date/Hour	End Date/Hour
BLR02A	180	KLBHR					No		04/01/2003 00	03/31/2008 23
	190	KLBHR					No		04/01/2008 00	
BLR02B	180	KLBHR					No		04/01/2003 00	03/31/2008 23
	190	KLBHR					No		04/01/2008 00	
BLR02C	180	KLBHR					No		04/01/2003 00	03/31/2008 23
	190	KLBHR					No		04/01/2008 00	
CS002	540	KLBHR	540	135	High	Low	No	05/01/2003	05/01/2003 00	02/29/2004 23
	540	KLBHR	540	135	High	Low	Yes	03/01/2004	03/01/2004 00	03/14/2005 23
	540	KLBHR	540	135	High	Mid	Yes	03/15/2005	03/15/2005 00	02/14/2006 23
	540	KLBHR	540	50	High	Mid	Yes	02/15/2006	02/15/2006 00	11/30/2007 23
	540	KLBHR	540	50	High	Low	Yes	12/01/2007	12/01/2007 00	03/31/2008 23
	570	KLBHR	570	150	High	Mid	Yes	04/01/2008	04/01/2008 00	03/31/2010 23
	570	KLBHR	570	150	High	Low	Yes	04/01/2010	04/01/2010 00	03/31/2011 23
	570	KLBHR	570	150	High	Mid	Yes	04/01/2011	04/01/2011 00	

Units of Measure Descriptions: KLBHR - 1000 Pounds Steam Load / Hour

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Monitoring Defaults

Unit/Stack/Pipe Identifier	Parameter	Value	Units of Measure	Purpose Code	Fuel Type	Operating Condition	Source of Value	Begin Date/Hour	End Date/Hour
CS002	CO2N	5.0000	PCT	DC	NFS	A	DEF	05/01/2003 00	
	NORX	1.0540	LBMMBTU	MD	NFS	A	DATA	04/01/2003 00	03/15/2005 23
	NORX	0.6330	LBMMBTU	MD	NFS	A	DATA	03/16/2005 00	03/31/2008 23
	NORX	0.7120	LBMMBTU	MD	NFS	A	DATA	04/01/2008 00	

Parameter Codes Descriptions: NORX - Maximum NOx Emission Rate (lb/mmBtu)
CO2N - CO2 Minimum Concentration (pct)

Units of Measure Descriptions: PCT - Percentage
LBMMBTU - Pounds / mmBtu

Purpose Codes Descriptions: MD - Missing Data (or Unmonitored Bypass Stack or Emergency Fuel) Default
DC - Diluent Cap

Fuel Type Codes Descriptions: NFS - Non-Fuel Specific

Operating Conditions Descriptions: A - Any Hour

Source Codes Descriptions: DEF - Default Value from Part 75
DATA - Historical or Other Relevant Data