SPECTRUM ENERGY GEORGIA LLC
ADEL, GEORGIA OPERATIONS

# GREENFIELD WOOD PELLET MILL CONSTRUCTION (SIP) PERMIT APPLICATION

801 COOK STREET
ADEL, GEORGIA 31620
COOK COUNTY

OCTOBER 2021

#### **TABLE OF CONTENTS**

1.0	INTR	RODUCTION AND PURPOSE	1
2.0	PRO	CESS DESCRIPTION	1
3.0	EMIS	SSION CALCULATIONS	2
4.0	EMIS	SSION LIMITS	3
	4.1	NSPS	3
		4.1.1 40 CFR 60, Subpart A	
		4.1.2 40 CFR 60, Subpart Dc	3
	4.2	NESHAP	3
		4.2.1 40 CFR 63, Subpart A	
		4.2.2 40 CFR 63, Subpart JJJJJJ	4
	4.3	GRAQC 391-3-102(2)	4
		4.3.1 GRAQC 391-3-102(2)(b)	
		4.3.2 GRAQC 391-3-102(2)(d)	4
		4.3.3 GRAQC 391-3-102(2)(e)	
		4.3.4 GRAQC 391-3-102(2)(g)	5
		4.3.5 GRAQC 391-3-102(2)(n)	5
5.0	PERI	MITTING REQUIREMENTS	5

#### **APPENDICES**

APPENDIX A	SITE LOCATION MAP
APPENDIX B	FACILITY DIAGRAMS
APPENDIX C	PROCESS FLOW DIAGRAMS
APPENDIX D	EMISSION ESTIMATES
APPENDIX E	REGULATORY REVIEW
APPENDIX F	FORMS

#### 1.0 Introduction and Purpose

Spectrum Energy Georgia LLC proposes to construct and operate a greenfield wood pellet manufacturing facility located at 801 Cook Street, Adel, Georgia 31620 (Cook County). A site location map is provided in Appendix A. Appendix B provides a plot plan and a tentative site layout. The applicant herein seeks agency authorization to construct and operate the site in accordance with Georgia Rules for Air Quality Control (GRAQC) 391391-3-1-.03(1) and (2). The application narrative that follows is presented in the following format:

- Introduction and Purpose (Section 1);
- Process Description (Section 2);
- Emission Calculations (Section 3);
- Emission Limits (Section 4); and
- Permitting Requirements (Section 5)

The requisite air toxics dispersion modeling assessment has been submitted under separate cover. The following appendices are offered in support of the forgoing narrative elements:

Appendix A Site Location Map
 Appendix B Facility Diagrams
 Appendix C Process Flow Diagrams
 Appendix D Emission Calculations
 Appendix E Regulatory Review

Appendix F Forms

#### 2.0 PROCESS DESCRIPTION

Process flow diagrams are provided in Appendix C. Plant operations will comprise the following eight (8) general process areas and will be constructed in two (2) phases:

- P1 Fiber Handling/Storage
- P2 Drying
- P3 Dry Wood Silos
- P4 Hammermills
- P5 Pellet Mills/Coolers
- P6 Pellet Handling/Storage
- P7 Boiler Operations
- P8 Miscellaneous Dust Collection

- Phase 1 will utilize four (4) dryers and associated wood-fired burners, two (2) dry wood silos, two (2) hammermills, sixteen (16) pellet mills, and two (2) pellet coolers to produce 600,000 short tons of finished pellets per year. Burner/dryer emissions will be controlled with wet electrostatic precipitators (WESP) followed by a biofilter. All dry wood silo, hammermill, pellet mill, and pellet cooler emissions will be controlled by fabric filters followed by the biofilter.
- Phase 2 will utilize two (2) dryers and associated wood-fired burners, two (2) dry wood silos, six (6) hammermills, thirty-two (32) pellet mills, and four (4) pellet coolers to produce 1,320,000 short tons of finished pellets per year. Burner/dryer emissions will be controlled with wet electrostatic precipitators (WESP) followed by a regenerative thermal oxidizer (RTO). All dry wood silo, hammermill, pellet mill, and pellet cooler emissions will be controlled by a fabric filters followed by the biofilter. The Phase 1 burners and dryers will be retired at the commencement of the Phase 2 operations.
- The proposed biofilter will be equipped with a continuous emission monitor (CEM)
  for volatile organic compounds (VOC). Both phases will be supported by various
  raw material handling and storage operations, finished pellet handling and
  storage operations, a natural gas-fired boiler, and miscellaneous dust control
  equipment.

#### 3.0 EMISSION CALCULATIONS

Emission calculations are provided in Appendix D. Air emissions include oxides of nitrogen (NOX), carbon monoxide (CO), sulfur dioxide (SO2), particulate matter less than 10 microns in aerodynamic diameter (PM10), particulate matter less than 2.5 microns in aerodynamic diameter (PM2.5), VOC, and hazardous air pollutants (HAP). For the sake of brevity and clarity all particulate matter is assumed to be PM10 and PM2.5. The site-wide potential to emit is based on the unrestricted, maximum potential throughput of all operations under its respective physical and operational design at 8,760 hours of operation. Standard Georgia EPD emission factors have been utilized, supplemented as needed with additional stack test results. Based on these calculations, the proposed operations will be a "minor" source with respect to the New Source Review (NSR) program, a "major" source with respect to the Title V operating permit program, and "area" source with respect to the National Emission Standards for Hazardous air Pollutants (NESHAP) program.

#### 4.0 EMISSION LIMITS

The proposed operations will be potentially subject to the emission limits under one or more of the following regulatory frameworks:

- New Source Performance Standards (NSPS) program codified at 40 CFR Part 60;
- The NESHAP program found at 40 CFR Parts 61 and 63; and
- GRAQC 391-3-1-.02(2) Emission Limitations and Standards.

#### 4.1 **NSPS**

All Part 60 NSPS promulgated have been adopted by reference in GRAQC 391-3-1-.02(8) New Source Performance Standards. A review of the more salient NSPS is provided immediately below. A review of all potentially applicable NSPS is provided in Appendix E.

#### 4.1.1 40 CFR 60, Subpart A

All operations subject to a category specific NSPS are also subject to the general provisions contained in 40 CFR Part 60, Subpart A [40 CFR 60.1]. The Subpart A general provisions include definitions [40 CFR 60.2], administrative items [40 CFR 60.3 and 60.4], applicability assistance [40 CFR 60.5 and 60.6], notification and recordkeeping provisions [40 CFR 60.7], testing requirements [40 CFR 60.8], monitoring requirements [40 CFR 60.13], control device and work practice requirements [40 CFR 60.18], and general reporting provisions [40 CFR 60.19].

#### 4.1.2 40 CFR 60, Subpart Dc

40 CFR Part 60, Subpart Dc Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units potentially applies is each steam generating unit for which construction, modification, or reconstruction commences after June 9, 1989 and that has a maximum design heat input capacity between ten (10) and one hundred (100) million British thermal units per hour (MMBtu/hr). This regulation will apply to the proposed natural gas-fired boiler only.

#### 4.2 NESHAP

All Part 61 and Part 63 NESHAP promulgated have been adopted by reference in GRAQC 391-3-1-.02(9) Emission Standards for Hazardous Air Pollutants. A review of

the more salient NESHAP is provided immediately below. A review of all potentially applicable NESHAP is provided in Appendix E.

#### 4.2.1 40 CFR 63, Subpart A

All operations subject to a category specific NESHAP are also subject to the general provisions contained in 40 CFR Part 63, Subpart A [40 CFR 63.1]. The NESHAP Subpart A general provisions include definitions [40 CFR 63.2], preconstruction review requirements [40 CFR 63.5], testing provisions [40 CFR 63.7], monitoring requirements [40 CFR 63.8], notification requirements [40 CFR 63.9], recordkeeping and reporting provisions [40 CFR 63.10], and control device and work practice requirements [40 CFR 63.11].

#### 4.2.2 40 CFR 63, Subpart JJJJJJ

40 CFR Part 63 <u>Subpart JJJJJJ National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources potentially applies to any industrial, commercial, or institutional boiler at area sources of HAP. However, per 40 CFR 63.11195(3), all natural gas-fired boilers at areas source of HAP are wholly exempt. Accordingly, Subpart JJJJJJ will not apply.</u>

#### 4.3 GRAQC 391-3-1-.02(2)

In addition to the NSPS and NESHAP noted above, the proposed operations may also be subject to various emission limits noted in GRAQC 391-3-1-.02(2) Emission Limitations and Standards. A review of the more salient GRAQC is provided immediately below. A review of all potentially applicable GRAQC is provided in Appendix E.

#### 4.3.1 GRAQC 391-3-1-.02(2)(b)

GRAQC 391-3-1-.02(2)(b) governs visible emissions and provides no person shall cause, let, suffer, permit, or allow emissions from any source the opacity of which is equal to or greater than forty (40) percent.

#### 4.3.2 GRAQC 391-3-1-.02(2)(d)

GRAQC 391-3-1-.02(2)(b) limits PM emissions from fuel-burning equipment to not more than:

$$P = 0.7 * (10 / R)^{0.202}$$

where P equals the allowable emission rate (lb/MMBtu) and R equals the heat input rate (MMBtu/hr). In addition, GRAQC 391-3-1-.02(2)(b) limits exhaust gas opacities to 20% except for one six-minute period of 27%.

#### 4.3.3 GRAQC 391-3-1-.02(2)(e)

GRAQC 391-3-1-.02(2)(d) governs particulate emissions from manufacturing operations and restricts particulate emissions to not more than the emission rate noted by the following:

For process rates < 30 tons per hour:  $E = 4.1P^{0.67}$ For process rates > 30 tons per hour:  $E = 55P^{0.11} - 40$ 

where E equals the allowable emission rate (lb/hr) and P equals the process rate (ton/hr).

#### 4.3.4 GRAQC 391-3-1-.02(2)(g)

GRAQC 391-3-1-.02(2)(g) governs SO2 emissions from fuel combustion operations and provides that applicable sources below 100 MMBtu/hr heat input shall not burn fuel containing more than 2.5 percent sulfur measured by weight.

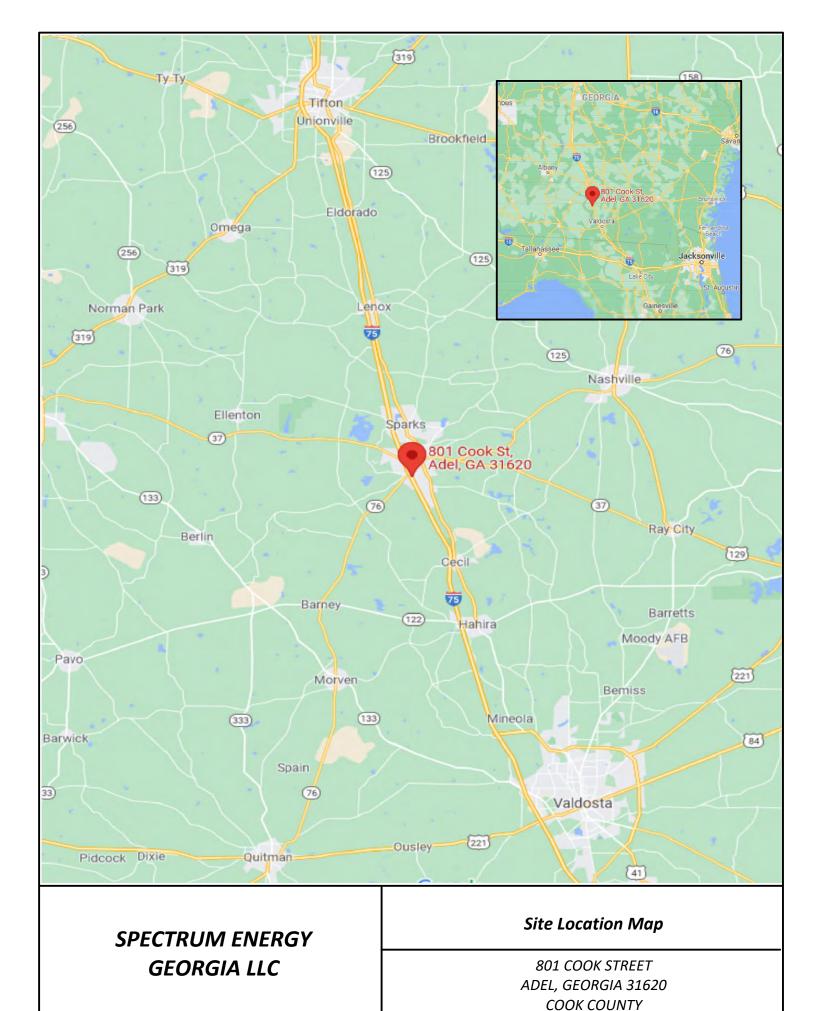
#### 4.3.5 GRAQC 391-3-1-.02(2)(n)

GRAQC 391-3-1-.02(2)(n) governs fugitive dust and requires all persons responsible for any operation, process, handling, transportation or storage facility which may result in fugitive dust to take all reasonable precautions to prevent such dust from becoming airborne. GRAQC 391-3-1-.02(2)(n)(2) also limits the percent opacity from any fugitive dust source to less than 20 percent.

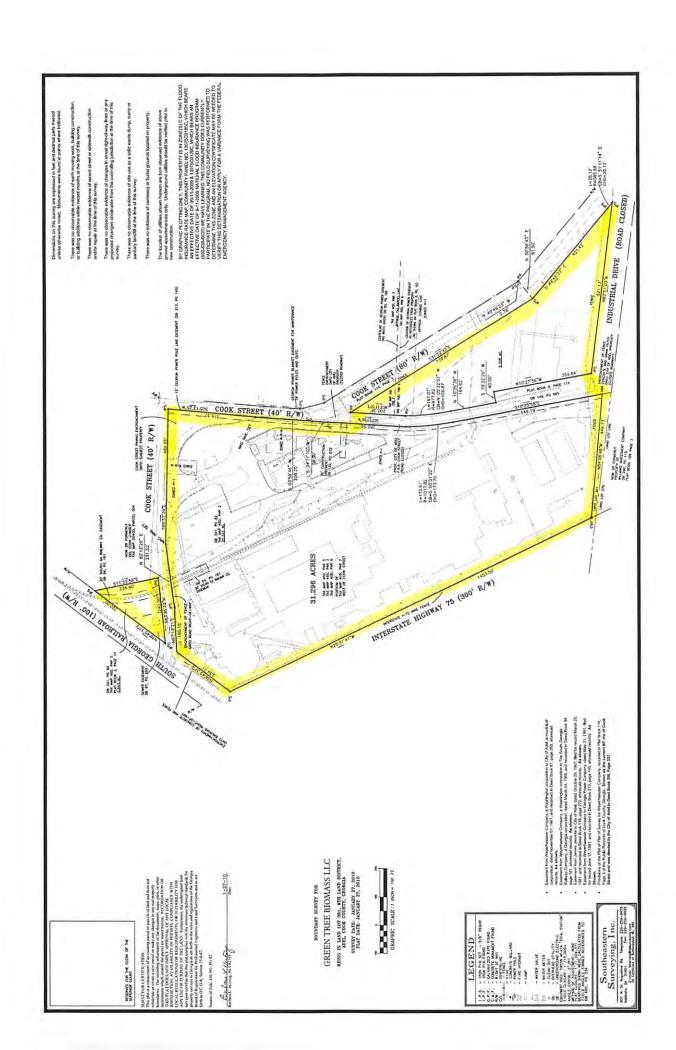
#### **5.0** Permitting Requirements

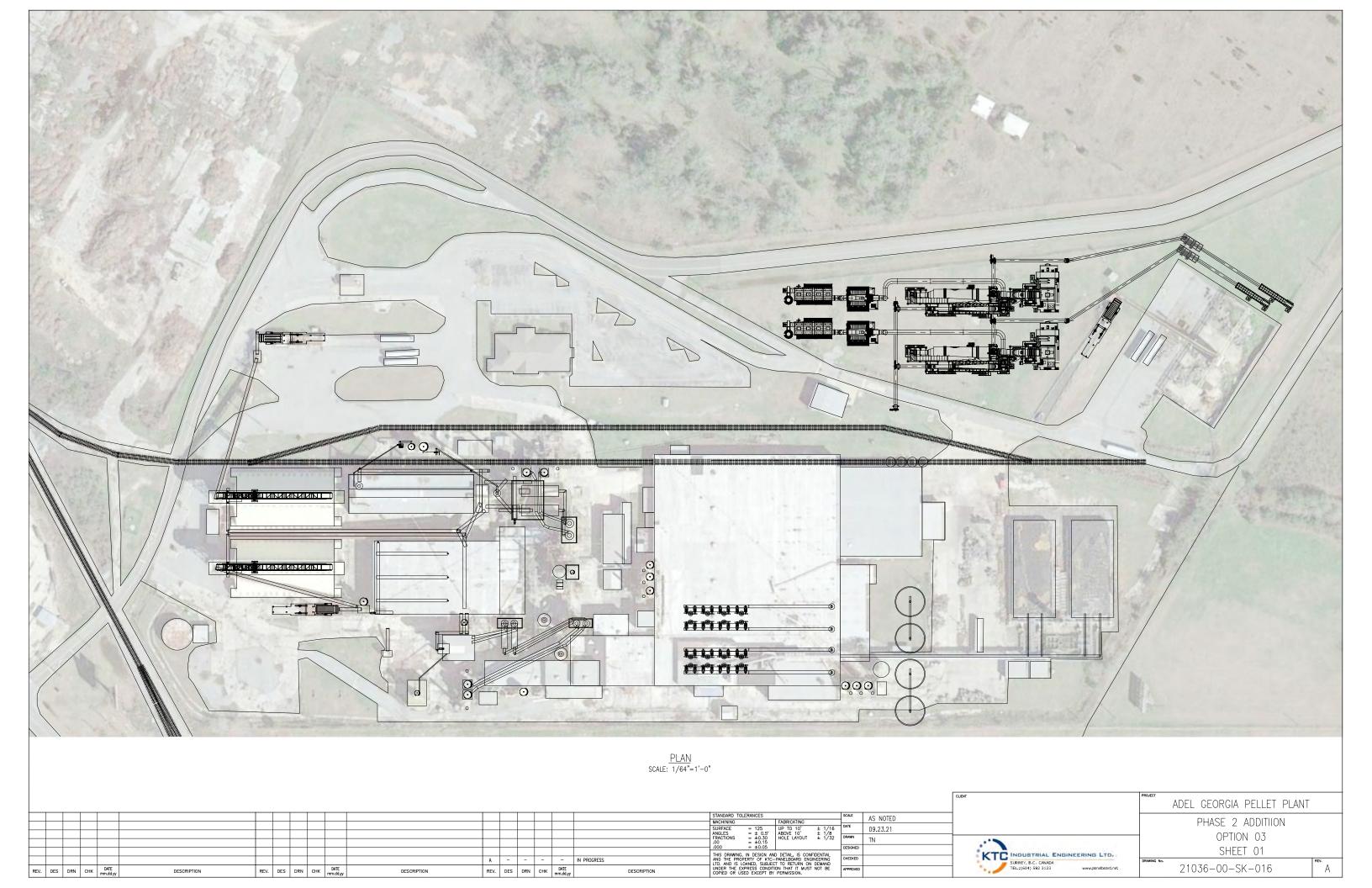
The proposed operations will be located in Cook County, an area currently classified as "attainment" or "unclassifiable" for all criteria pollutants. The proposed operations will be a "minor" source with respect to the NSR program, a "major" source with respect to the Title V operating permit program, and "area" source with respect to the NESHAP programs. The applicant herein seeks agency authorization to construct and operate the site in accordance with GRAQC 391391-3-1-.03(1) and (2). Completed (SIP) construction permit forms are provided in Appendix F. For the sake of clarity the applicant requests that two (2) separate construction permits be issued, one for each phase. A Title V operating permit application will be due no later than one (1) year after startup.

APPENDIX A
SITE LOCATION MAP



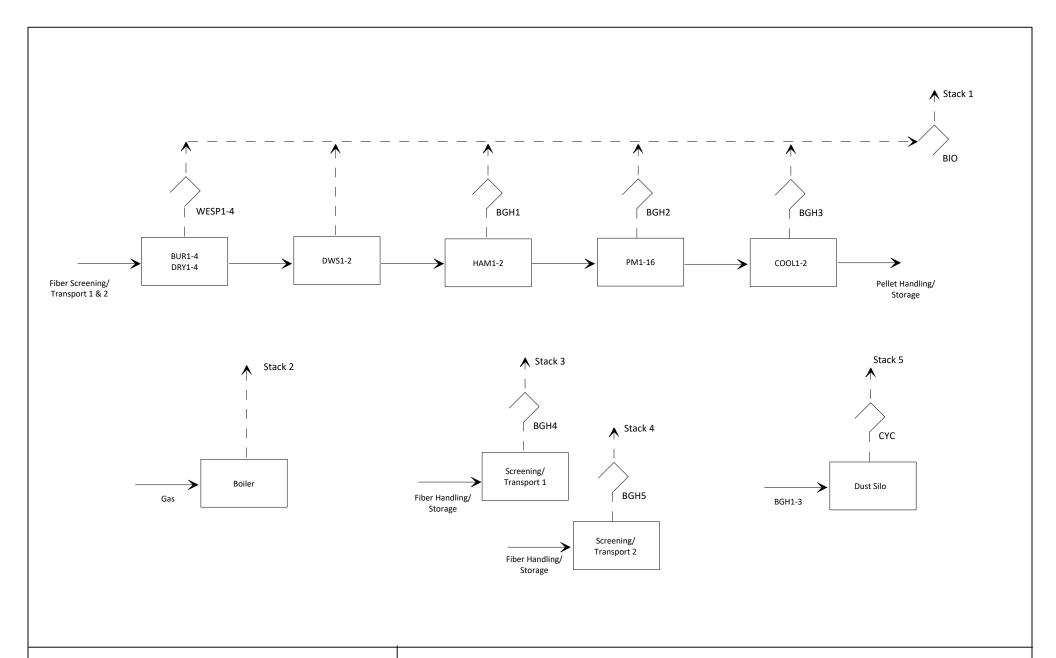
APPENDIX B
FACILITY DIAGRAMS





APPENDIX C
PROCESS FLOW DIAGRAMS

### PHASE 1

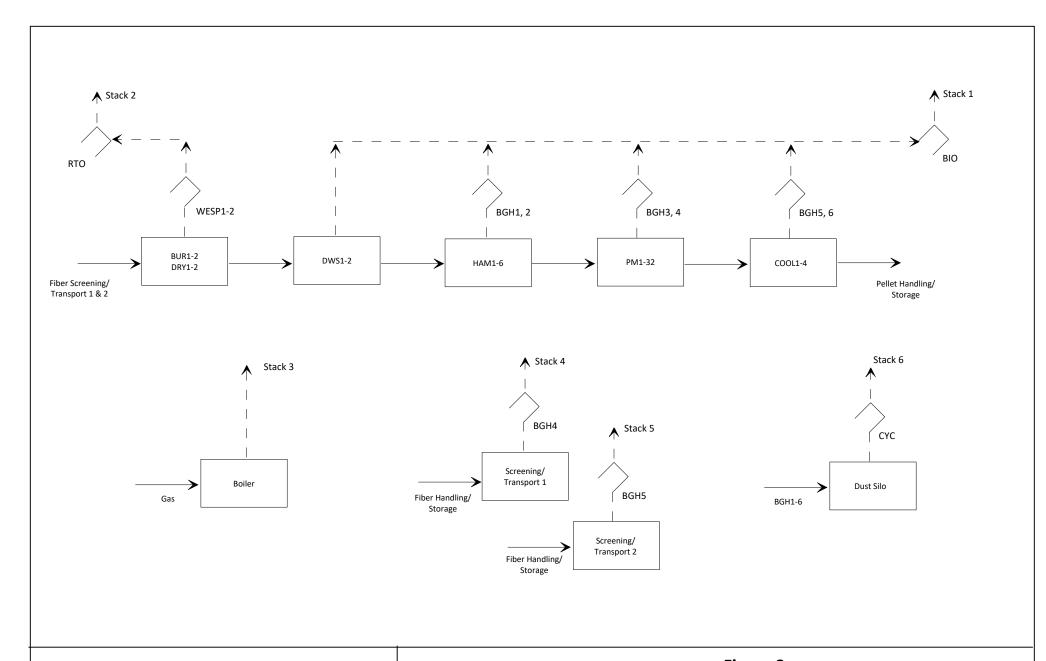


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# Figure 2 Process Flow Diagram - PHASE 1

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### PHASE 2



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## Figure 2 Process Flow Diagram - PHASE 2

801 COOK STREET ADEL, GEORGIA 31620 COOK COUNTY APPENDIX D
EMISSIONS ESTIMATES

### PHASE 1

#### Spectrum Energy Georgia LLC Appendix D - Calculations v5.xlsx Phase 1 Calculations

Table 1. Fiber Handling and Storage

	PM	VOC/HAP							Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Design Basis	Pollutant	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
				DUMP1-2	-1,200,000 ST		0.012			lb/ST		7.20	[1]
				SHRED	1,200,000 31	-PM10/2.5	0.012			ובקטו		7.20	[2]
P1			FUG	ROADS	250 VMT	-PIVI10/2.3	5			Ib/VMT		0.63	[3]
				PILES	2.5 acres		4.39			lb/acre-day		2.01	[4]
				FILLS	2.5 ucres	VOC (as C3)	4.40			ib/ucre-uuy		2.01	[4]

- [1] https://www.epa.gov/sites/default/files/2016-09/documents/spmpteef\_memo.pdf. Assumes all PM10 equals PM2.5.
- [2] Assumed to be equal to CHIP emission factor.
  [3] https://www3.epa.gov/ttnchie1/ap42/ch13/final/c13s0201.pdf
  [4] NCASI Technical Bulletin 700.

Table 2. Drvina

	PM	VOC/HAP							Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Design Basis	Pollutant	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
						NOX	0.194					127	
						СО	0.194			lb/MMBtu		127	[1]
						502	0.025					16.4	
						PM10/2.5	160,000 cfm		0.0085	gr/cf	11.7	51.1	[2]
						VOC (as C3)	6		0.5			144	
				BUR1-4		ACET	0.11		8.80E-03			2.64	
P2.1	WESP1-4	BIO	S1	DRY1-4	600,000 ODT	НСНО	0.14		1.12E-02			3.36	[3]
				DK11-4		МЕОН	0.11	-92%	8.80E-03			2.64	
						O_HAP	0.19	3270	1.52E-02	_lb/ODT		4.56	
						ACRO	6.41E-03		5.13E-04			0.15	
						PHEN	8.47E-03		6.78E-04			0.20	[4]
						PROP	2.06E-03		1.65E-04			0.05	[+]
						HCI	0.012	70%	3.73E-03			1.12	

- [1] Vendor estimate for NOX and CO. AP-42, Table 1.6-2 for SO2. Emissions based on 150 MMBtu/hr maximum overall BUR1-4 heat input rate.

- [2] Estimated grain loading. Includes filterable and condensable.
  [3] Georgia EPD recommended VOC and HAP emission factors.
  [4] Jasper Pellets DHEC test report summary dated August 10, 2021.

Table 3. Dry Wood Silos

	PM	VOC/HAP							Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Design Basis	Pollutant	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
						PM10/2.5	45,000 cfm		0.0085	gr/cf	3.28	14.4	[2]
						VOC (as C3)	0.315		0.025			7.56	
						ACET	5.90E-04		4.72E-05			0.01	[2]
P3.1	BGH1	BIO	<i>S</i> 1	DWS1-2	600,000 ST	НСНО	8.85E-05		7.08E-06			0.00	[2]
F3.1	BGIII	ыо	31	DVV31-2	000,000 31	MEOH	2.65E-03	92%	2.12E-04	Ib/ST		0.06	
						ACRO	2.65E-03		2.12E-04			0.06	
						PHEN	2.65E-03		2.12E-04			0.06	[3]
						PROP	2.65E-03		2.12E-04			0.06	

- [1] Estimated grain loading. Includes filterable and condensable.
  [2] HWP dry chip silo testing 7/20/2021: VOC = 10.68 lb/hr at 33.9 ton/hr = 0.315 lb/ton; ACET = 0.02 lb/hr at 33.9 ton/hr = 5.90E-4 lb/ton HCHO = 0.003 lb/hr at 33.9 ton/hr = 8.85E-5 lb/ton; MeOH = 0.09 lb/hr at 33.9 ton/hr = 2.65E-3 lb/ton
- [3] Assumed equal to MeOH factor.

Table 1 Hammermills

	PM	VOC/HAP							Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Design Basis	Pollutant	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
						PM10/2.5	20,000 cfm		0.0085	gr/cf	1.46	6.38	[2]
						VOC (as C3)	2.5		0.20			60.0	
						ACET	0.004		3.20E-04			0.10	[2]
P4.1	BGH1	BIO	<i>S</i> 1	HAM1-2	600.000 ST	НСНО	0.008		6.40E-04			0.19	[2]
P4.1	ВИПІ	ыо	31	HAIVI1-2	000,000 31	MEOH	0.004	92%	3.20E-04	Ib/ST		0.10	
						ACRO	1.80E-03		1.44E-04			0.04	
						PHEN	3.30E-03		2.64E-04	Ī		0.08	[3]
						PROP	3.60E-04		2.88E-05	Ī		0.01	

- [1] Estimated grain loading. Includes filterable and condensable.
- [2] Georgia EPD recommended VOC and HAP emission factors. [3] Jasper Pellets DHEC test report summary dated August 10, 2021.

#### Spectrum Energy Georgia LLC Appendix D - Calculations v5.xlsx Phase 1 Calculations

Table 5. Pellet Mills/Coolers

	PM	VOC/HAP							Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Design Basis	Pollutant	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
						PM10/2.5	120,000 cfm		0.0085	gr/cf	8.74	38.3	[2]
						VOC (as C3)	0.5		0.04			12.0	
						ACET	0.001		8.00E-05			0.02	[2]
P5.1	BGH2-3	BIO	S1	PM1-16	600.000 ST	НСНО	0.002		1.60E-04			0.05	[2]
F J.1	BG112-3	ыо	31	COOL1-2	000,000 31	МЕОН	0.001	92%	8.00E-05	lb/ST		0.02	
						ACRO	7.77E-03		6.22E-04			0.19	
						PHEN	2.97E-03		2.38E-04			0.07	[3]
						PROP	6.20E-04		4.96E-05			0.01	

- [1] Estimated grain loading. Includes filterable and condensable.
- [2] Georgia EPD recommended VOC and HAP emission factors.[3] Jasper Pellets DHEC test report summary dated August 10, 2021.

Table 6. Pellet Handlina/Storage

Tuble 6. I	renet mununni	y/storuge											
	PM	VOC/HAP							Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Design Basis	Pollutant	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
						PM10/2.5	5,000 cfm		0.0085	gr/cf	0.36	1.60	[1]
						VOC (as C3)	0.003					0.87	
P6.1				SILO1-8	600,000 ST	ACET	4.85E-05			Ib/ST		0.01	[2]
						НСНО	4.85E-05			10/31		0.01	-[2]
						МЕОН	2.43E-04					0.07	

- [1] Estimated grain loading. Includes filterable and condensable.
  [2] ACP finished pellet silo testing 1/21/2021: VOC = 0.120 lb/hr at 41.2 ton/hr = 0.003 lb/ton; ACET = 0.002 lb/hr at 41.2 ton/hr = 4.85E-5 lb/ton HCHO = 0.002 lb/hr at 41.2 ton/hr = 4.85E-5 lb/ton; MeOH = 0.010 lb/hr at 41.2 ton/hr = 2.43E-4 lb/ton

Table 7. NG Boiler

	PM	VOC/HAP							Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Design Basis	Pollutant	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
						NOX	0.1					11.0	
						со	0.084					9.20	
P7			S2	BLR	25 MMBtu/hr	SO2	0.0006			lb/MMBtu		0.07	[1]
						PM10/2.5	0.0076				0.19	0.83	
						VOC (as C3)	0.0055					0.60	

[1] AP-42, Tables 1.6-1 and 1.6-2 for all pollutants.

Table 8. Miscellaneous Dust Collection

Tuble 6. I	viiscemuneous i	Dust Conecu	UII								
	PM	VOC/HAP					Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
	BGH4		<i>S3</i>	Sizing/Screening/Transport 1	40,000 cfm				2.91	12.8	
P8	BGH5		<i>S4</i>	Sizing/Screening/Transport 2	40,000 cfm		0.0085	gr/cf	2.91	12.8	[1]
	CYC		<i>S5</i>	Fuel Dust Cyclone	15,000 cfm				1.09	4.79	

[1] Estimated grain loading. Includes filterable and condensable.

Table 9. Emission Totals

Tubic 5. Li	mssion rotuis			
Pollutant	Туре	Value	Limit	Units
NOX	Point	138	250	
CO	Point	137	250	
SO2	Point	16.5	250	
PM10/2.5	FUG	17.0		
PM10/2.5	Point	143	250	
VOC	FUG	2.01		
VOC	Point/C3	225		
VOC	Point/WPP1	234	250	
T_HAP	Point	16.0	25	tpy
ACET	Point	2.79	10	
НСНО	Point	3.62	10	
МЕОН	Point	2.90	10	
O_HAP	Point	4.56		
ACRO	Point	0.45	10	
PHEN	Point	0.42	10	
PROP	Point	0.14	10	
HCI	Point	1.12	10	

### PHASE 2

#### Spectrum Energy Georgia LLC Appendix D - Calculations v5.xlsx Phase 2 Calculations

Table 1. Fiber Handling and Storage

	PM	VOC/HAP							Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Design Basis	Pollutant	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
				LOG								15.8	
				DBRK1-2								15.8	[1]
				CHIP1-2	2,640,000 ST		0.012			Ib/ST		15.8	_[1]
P1			N/A	DUMP1-3		PM10/2.5		_				15.8	
<i>F</i> 1			N/A	SHRED1-3								15.8	[2]
				ROAD	500 VMT		5			Ib/VMT		1.25	[3]
				PILE	5 acres		4.39			lb/acre-day		4.02	[4]
				FILL	Jucies	VOC (as C3)	4.40			ib/ucie-uuy		4.02	[4]

- [1] https://www.epa.gov/sites/default/files/2016-09/documents/spmpteef\_memo.pdf. Assumes all PM10 equals PM2.5.
- [2] Conservatively assumed to be equal to CHIP emission factor.
  [3] https://www3.epa.gov/ttnchie1/ap42/ch13/final/c13s0201.pdf
- [4] NCASI Technical Bulletin 700.

Table 2. Drvina

	PM	VOC/HAP							Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Design Basis	Pollutant	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
						NOX	0.194					238	
						СО	0.194			lb/MMBtu		238	[1]
						SO2	0.025					30.7	_
						PM10/2.5	340,000 cfm		0.0085	gr/cf	24.8	108	[2]
						VOC (as C3)	6		0.1			79.2	
				BUR1-2		ACET	0.11		2.20E-03			1.45	
P2.2	WESP1-2	RTO	S1	DRY1-2	1,320,000 ODT	НСНО	0.14		2.80E-03			1.85	[3]
				DK11-2		МЕОН	0.11	-98%	2.20E-03			1.45	
						O_HAP	0.19	3070	3.80E-03	_lb/ODT		2.51	
						ACRO	6.41E-03		1.28E-04			0.08	
						PHEN	8.47E-03		1.69E-04			0.11	[4]
						PROP	2.06E-03		4.12E-05			0.03	[+]
						HCI	0.012	70%	3.73E-03			2.46	

- [1] Vendor estimate for NOX and CO. AP-42, Table 1.6-2 for SO2. Emissions based on 280 MMBtu/hr maximum overall BUR1-2/RTO heat input.
- [2] Estimated grain loading. Includes filterable and condensable PM.
   [3] Georgia EPD recommended VOC and HAP emission factors.
   [4] Jasper Pellets DHEC test report summary dated August 10, 2021.

Table 2 Dry Wood Sile

Table 3. D	ry Wood Silos												
	PM	VOC/HAP							Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Design Basis	Pollutant	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
						PM10/2.5	30,000 cfm		0.0085	gr/cf	2.19	9.57	[1]
						VOC (as C3)	0.315		0.022			14.6	
						ACET	5.90E-04		4.13E-05			0.03	[2]
P3	BGH1-2	BIO	52	DWS1-2	1,320,000 ST	НСНО	8.85E-05		6.19E-06			0.00	[2]
FS	BGIII-2	ыо	32	DVV31-2	1,320,000 31	MEOH	2.65E-03	93%	1.86E-04	lb/ST		0.12	
						ACRO	2.65E-03		1.86E-04			0.12	
						PHEN	2.65E-03		1.86E-04			0.12	[3]
						PROP	2.65E-03		1.86E-04			0.12	

- [1] Estimated grain loading. Includes filterable and condensable PM.
  [2] HWP dry chip silo testing 7/20/2021: VOC = 10.68 lb/hr at 33.9 ton/hr = 0.315 lb/ton; ACET = 0.02 lb/hr at 33.9 ton/hr = 5.90E-4 lb/ton HCHO = 0.003 lb/hr at 33.9 ton/hr = 8.85E-5 lb/ton; MeOH = 0.09 lb/hr at 33.9 ton/hr = 2.65E-3 lb/ton
- [3] Assumed equal to MeOH factor.

Table 1 Hammermills

	PM	VOC/HAP							Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Design Basis	Pollutant	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
						PM10/2.5	60,000 cfm		0.0085	gr/cf	4.37	19.1	[1]
						VOC (as C3)	2.5		0.175			116	
						ACET	0.004		2.80E-04			0.18	[2]
P4.2	BGH1-2	BIO	52	HAM1-6	1,320,000 ST	НСНО	0.008		5.60E-04			0.37	[2]
F4.2	BGIII-2	ыо	32	TIAIVI1-0	1,320,000 31	MEOH	0.004	93%	2.80E-04	lb/ST		0.18	
						ACRO	1.80E-03		1.26E-04			0.08	
						PHEN	3.30E-03		2.31E-04			0.15	[3]
						PROP	3.60E-04		2.52E-05			0.02	

- [1] Estimated grain loading. Includes filterable and condensable PM.
- [2] Georgia EPD recommended VOC and HAP emission factors. [3] Jasper Pellets DHEC test report summary dated August 10, 2021.

#### Spectrum Energy Georgia LLC Appendix D - Calculations v5.xlsx Phase 2 Calculations

#### Table 5. Pellet Mills + Coolers

	PM	VOC/HAP							Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Design Basis	Pollutant	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
						PM10/2.5	240,000 cfm		0.0085	gr/cf	17.5	76.6	[1]
						VOC (as C3)	0.5		0.035			23.1	
						ACET	0.001		7.00E-05			0.05	[2]
P5.2	BGH3-6	BIO	52	PM1-32	1,320,000 ST	НСНО	0.002		1.40E-04			0.09	[2]
FJ.2	BG113-0	ыо	32	COOL1-4	1,320,000 31	МЕОН	0.001	93%	7.00E-05	lb/ST		0.05	
						ACRO	7.77E-03		5.44E-04			0.36	
						PHEN	2.97E-03		2.08E-04			0.14	[3]
						PROP	6.20E-04		4.34E-05			0.03	

- [1] Estimated grain loading. Includes filterable and condensable PM.
- [2] Georgia EPD recommended VOC and HAP emission factors.
   [3] Jasper Pellets DHEC test report summary dated August 10, 2021.

Table 6. Pellet Handlina/Storage

Tuble 6. I	renet mananni	y/storuye											
	PM	VOC/HAP							Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Design Basis	Pollutant	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
						PM10/2.5	10,000 cfm		0.0085	gr/cf	0.73	3.19	[1]
						VOC (as C3)	0.003					1.92	
P6.2				SILO1-16	1,320,000 ST	ACET	4.85E-05			Ib/ST		0.03	[2]
						НСНО	4.85E-05			10/31		0.03	-[2]
						MEOH	2.43E-04					0.16	

- [1] Estimated grain loading. Includes filterable and condensable PM.
- [2] ACP finished pellet silo testing 1/21/2021: VOC = 0.120 b/hr at 41.2 ton/hr = 0.003 lb/ton; ACET = 0.002 lb/hr at 41.2 ton/hr = 4.85E-5 lb/ton HCHO = 0.002 lb/hr at 41.2 ton/hr = 4.85E-5 lb/ton; MeOH = 0.010 lb/hr at 41.2 ton/hr = 2.43E-4 lb/ton

Table 7. NG Boiler

	PM	VOC/HAP							Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Design Basis	Pollutant	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
						NOX	0.1					11.0	
						со	0.084					9.20	
P7			S3	BLR	25 MMBtu/hr	SO2	0.0006			lb/MMBtu		0.07	[1]
						PM10/2.5	0.0076				0.19	0.83	
						VOC (as C3)	0.0055					0.60	

[1] AP-42, Tables 1.6-1 and 1.6-2 for all pollutants.

Table 8. Miscellaneous Dust Collection

Tuble 6. I	miscemuneous L	oust conecti	UII								
	PM	VOC/HAP					Control		Emissions	Emissions	
Process	Control	Control	Stack	Source	Factor	Control	Factor	Units	(lb/hr)	(tpy)	Notes
	BGH7		<i>S</i> 4	Shredding/Screening/Transport 1	40,000 cfm				2.91	12.8	
P8	BGH8		<i>S5</i>	Shredding/Screening/Transport 2	40,000 cfm		0.0085	gr/cf	2.91	12.8	[1]
	CYC		<i>S6</i>	Fuel Dust Cyclone	15,000 cfm				1.09	4.79	

[1] Estimated grain loading. Includes filterable and condensable.

#### Table 7. Emission Totals

Tuble 7. Lillission Totals										
Pollutant	Туре	Value	Limit	Units						
NOX	Point	249	250							
CO	Point	247	250							
SO2	Point	30.7	250							
PM10/2.5	FUG	84.5								
PM10/2.5	Point	248	250							
VOC	FUG	4.02								
VOC	Point/C3	235								
VOC	Point/WPP1	241	250							
T_HAP	Point	12.4	25	tpy						
ACET	Point	1.74	10							
НСНО	Point	2.35	10							
МЕОН	Point	1.97	10							
O_HAP	Point	2.51								
ACRO	Point	0.65	10							
PHEN	Point	0.52	10							
PROP	Point	0.20	10							
HCI	Point	2.46	10							

APPENDIX E
REGULATORY REVIEW

Table E1 - 40 CFR Part 60 New Source Performance Standards (NSPS)

Subpart	Description	Applicability
Subpart A	General Provisions	Applicable
Subpart B	Adoption and Submittal of State Plans for Designated Facilities	Not applicable
Subpart C1	Emission Guidelines and Compliance Times	Not applicable
Subpart Ca	Reserved	N/A
Subpart Cb	Emission Guidelines and Compliance Times for Municipal Waste Combustors That Are Constructed on or Before December 19, 1995	Not applicable
Subpart Cc	Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills	Not applicable
Subpart Cd	Emission Guidelines and Compliance Times for Sulfuric Acid Production Units	Not applicable
Subpart Ce	Emission Guidelines and Compliance Times for Hospital/Medical/Infectious Waste Incinerators	Not applicable
Subpart D	Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction Commenced After August 17, 1971	Not applicable
Subpart Da	Standards of Performance for Electric Utility Steam Generating Units for Which Construction Commenced After September 18, 1978	Not applicable
Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	Not applicable
Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	Applicable
Subpart E	Standards of Performance for Incinerators	Not applicable
Subpart Ea	Standards of Performance for Municipal Waste Combustors for Which Construction Commenced After December 20, 1989	Not applicable
Subpart Eb	Standards of Performance for Municipal Waste Combustors for Which Construction Commenced After September 20, 1994	Not applicable
Subpart Ec	Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for Which Construction Commenced After June 20, 1996	Not applicable
Subpart F	Standards of Performance for Portland Cement Plants	Not applicable
Subpart G	Standards of Performance for Nitric Acid Plants	Not applicable
Subpart H	Standards of Performance for Sulfuric Acid Plants	Not applicable
Subpart I	Standards of Performance for Hot Mix Asphalt Facilities	Not applicable
Subpart J	Standards of Performance for Petroleum Refineries	Not applicable
Subpart Ja	Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007	Not applicable
Subpart K	Standards of Performance for Storage Vessels ( ) for Which Construction ( ) Commenced After June 11, 1973, and Prior to May 19, 1978	Not applicable
Subpart Ka	Standards of Performance for Storage Vessels ( ) for Which Construction ( ) Commenced After May 18, 1978, and Prior to July 23, 1984	Not applicable
Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels ( ) for Which Construction ( ) Commenced after July 23, 1984	Not applicable
Subpart L	Standards of Performance for Secondary Lead Smelters	Not applicable
Subpart M	Standards of Performance for Secondary Brass and Bronze Production Plants	Not applicable
Subpart N	Standards of Performance for Primary Emissions from Basic Oxygen Process Furnaces for Which Construction Commenced After June 11, 1973	Not applicable
Subpart Na	Standards of Performance for Basic Oxygen Steelmaking Facilities for Which Construction Commenced After January 20, 1983	Not applicable
Subpart O	Standards of Performance for Sewage Treatment Plants	Not applicable
Subpart P	Standards of Performance for Primary Copper Smelters	Not applicable
Subpart Q	Standards of Performance for Primary Zinc Smelters	Not applicable
Subpart R	Standards of Performance for Primary Lead Smelters	Not applicable
Subpart S	Standards of Performance for Primary Aluminum Reduction Plants	Not applicable
Subpart T	Standards of Performance for the Phosphate Fertilizer Industry: Wet-Process Phosphoric Acid Plants	Not applicable
Subpart U	Standards of Performance for the Phosphate Fertilizer Industry: Superphosphoric Acid Plants	Not applicable
Subpart V	Standards of Performance for the Phosphate Fertilizer Industry: Diammonium Phosphate Plants	Not applicable
Subpart W	Standards of Performance for the Phosphate Fertilizer Industry: Triple Superphosphate Plants	Not applicable
Subpart X	Standards of Performance for the Phosphate Fertilizer Industry: Granular Triple Superphosphate Storage Facilities	Not applicable
Subpart Y	Standards of Performance for Coal Preparation Plants	Not applicable
Subpart Z	Standards of Performance for Ferroalloy Production Facilities	Not applicable
Subpart AA	Standards of Performance for Steel Plants: Electric Arc Furnaces Constructed After October 21, 1974, and On or Before August 17, 1983	Not applicable
Subpart AA	Standards of Performance for Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After August 7, 1983	Not applicable
Subpart BB	Standards of Performance for Kraft Pulp Mills	Not applicable
Subpart CC	Standards of Performance for Glass Manufacturing Plants	Not applicable
Subpart DD	Standards of Performance for Grain Elevators	Not applicable
Subpart EE	Standards of Performance for Surface Coating of Metal Furniture	Not applicable
Subpart FF	Reserved	N/A
Subpart GG	Standards of Performance for Stationary Gas Turbines	Not applicable
Subpart HH	Standards of Performance for Lime Manufacturing Plants	Not applicable
Subpart KK	Standards of Performance for Lead-Acid Battery Manufacturing Plants	Not applicable
Subpart LL	Standards of Performance for Metallic Mineral Processing plants	Not applicable
Subpart MM	Standards of Performance for Automobile and Light Duty Truck Surface Coating Operations	Not applicable
Subpart NN	Standards of Performance for Phosphate Rock Plants	Not applicable
Subpart PP	Standards of Performance for Ammonium Sulfate Manufacture	Not applicable
Subpart QQ	Standards of Performance for the Graphic Arts Industry: Publication Rotogravure Printing	Not applicable
Subpart RR	Standards of Performance for Pressure Sensitive Tape and Label Surface Coating Operations	Not applicable
Subpart SS	Standards of Performance for Industrial Surface Coating: Large Appliances	Not applicable
Subpart TT	Standards of Performance for Metal Coil Surface Coating	Not applicable
Subpart UU	Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture	Not applicable
Subpart VV	Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry	Not applicable
Subpart VV	Standards of Performance for Equipment Leaks of VOC in the SOCMI for Which Construction ( ) Commenced After November 7, 2006	Not applicable
Subpart WW	Standards of Performance for the Beverage Can Surface Coating Industry	Not applicable
Subpart XX	Standards of Performance for Bulk Gasoline Terminals	Not applicable
Subpart AAA	Standards of Performance for New Residential Wood Heaters	Not applicable
Subpart BBB	Standards of Performance for the Rubber Tire Manufacturing Industry	Not applicable

Table E1 - 40 CFR Part 60 New Source Performance Standards (NSPS), cont.

Subpart	Description	Applicability
Subpart CCC	Reserved	N/A
Subpart DDD	Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry	Not applicable
Subpart EEE	Reserved	N/A
Subpart FFF	Standards of Performance for Flexible Vinyl and Urethane Coating and Printing	Not applicable
Subpart GGG	Standards of Performance for Equipment Leaks in Petroleum Refineries	Not applicable
Subpart GGG	Standards of Performance for Equipment Leaks in Petroleum Refineries for which Construction ( ) Commenced After November 7, 2006	Not applicable
Subpart HHH	Standards of Performance for Synthetic Fiber Production Facilities	Not applicable
Subpart III	Standards of Performance for Volatile Organic Compound (VOC) Emissions From the SOCMI Air Oxidation Unit Processes	Not applicable
Subpart JJJ	Standards of Performance for Petroleum Dry Cleaners	Not applicable
Subpart KKK	Standards of Performance for Equipment Leaks of VOC From Onshore Natural Gas Processing Plants	Not applicable
Subpart LLL	Standards of Performance for Onshore Natural Gas Processing: SO2 Emissions	Not applicable
Subpart MMM	Reserved	N/A
Subpart NNN	Standards of Performance for Volatile Organic Compound (VOC) Emissions From SOCMI Distillation Operations	Not applicable
Subpart 000	Standards of Performance for Nonmetallic Mineral Processing Plants	N/A
Subpart PPP	Standard of Performance for Wool Fiberglass Insulation Manufacturing Plants	Not applicable
Subpart QQQ	Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems	N/A
Subpart RRR	Standards of Performance for Volatile Organic Compound Emissions From SOCMI Reactor Processes	Not applicable
Subpart SSS	Standards of Performance for Magnetic Tape Coating Facilities	Not applicable
Subpart TTT	Standards of Performance for Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines	Not applicable
Subpart UUU	Standards of Performance for Calciners and Dryers in Mineral Industries	Not applicable
Subpart VVV	Standards of Performance for Polymeric Coating of Supporting Substrates Facilities	Not applicable
Subpart WWW	Standards of Performance for Municipal Solid Waste Landfills	Not applicable
Subpart AAAA	Standards of Performance for Small Municipal Waste Combustion Units for Which Commenced After August 30, 1999	Not applicable
Subpart BBBB	Emission Guidelines and Compliance Times for Small Municipal Waste Combustion Units Constructed On or Before August 30, 1999	Not applicable
Subpart CCCC	Standards of Performance for CISWI Units Which Construction Commenced After November 30, 1999	Not applicable
Subpart DDDD	Emission Guidelines and Compliance Times for CISWI Units that Commenced Construction On or Before November 30, 1999	Not applicable
Subpart EEEE	Standards of Performance for Other Solid Waste Incineration Units for Which Construction is Commenced After December 9, 2004	Not applicable
Subpart FFFF	Emission Guidelines for Other Solid Waste Incineration Units that Commenced Construction On or Before December 9, 2004	Not applicable
Reserved	Reserved	N/A
Subpart HHHH	Emission Guidelines and Compliance Times for Coal-Fired Electric Steam Generating Units	Not applicable
Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	Not applicable
Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	Not applicable
Subpart KKKK	Standards of Performance for Stationary Combustion Turbines	Not applicable
Subpart LLLL	Standards of Performance for New Sewage Sludge Incineration Units	Not applicable
Subpart MMMM	Emission Guidelines and Compliance Times for Existing Sewage Sludge Incineration Units	Not applicable
Subpart 0000	Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution	Not applicable
Subpart PPPP	Reserved	N/A
Subpart QQQQ	Standards of Performance for New Residential Hydronic Heaters and Forced-Air Furnaces	Not applicable
Subpart UUUU	Standards of Performance for New Residential Hydronic Heaters and Forced-Air Furnaces	Not applicable
Subpart TTTT	Carbon Pollution Emission Guidelines for Existing Stationary Sources: Electric Utility Generating Units	Not applicable

Table E2 - 40 CFR Part 61 National Emissions Standards for Hazardous Air Pollutants (NESHAP)

Subpart	Description	Applicability
Subpart A	General Provisions	See below
Subpart B	National Emission Standards for Radon Emissions from Underground Uranium Mines	Not applicable
Subpart C	National Emission Standards for Beryllium	Not applicable
Subpart D	National Emission Standard for Beryllium Rocket Motor Firing	Not applicable
Subpart E	National Emission Standards for Mercury	Not applicable
Subpart F	National Emission Standards for Vinyl Chloride	Not applicable
Subpart G	Reserved	N/A
Subpart H	National Emission Standards for Emissions of Radionuclides Other Than Radon from Department of Energy Facilities	Not applicable
Subpart I	National Emission Standards for Radionuclide Emissions from Federal Other Than Nuclear Regulatory Commission Licensees	Not applicable
Subpart J	National Emission Standards for Equipment Leaks (Fugitive Emission Sources) of Benzene	Not applicable
Subpart K	National Emission Standards for Radionuclide Emissions From Elemental Phosphorus Plants	Not applicable
Subpart L	National Emission Standards for Benzene Emissions from Coke By-Product Recovery Plants	Not applicable
Subpart M	National Emission Standards for Asbestos	Not applicable
Subpart N	National Emission Standard for Inorganic Arsenic Emissions from Glass Manufacturing Plants	Not applicable
Subpart O	National Emission Standard for Inorganic Arsenic Emissions from Primary Copper Smelters	Not applicable
Subpart P	National Emission Standard for Inorganic Arsenic Emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities	Not applicable
Subpart Q	National Emission Standard for Radon Emissions from Department of Energy Facilities	Not applicable
Subpart R	National Emission Standard for Radon Emissions from Phosphogypsum Stacks	Not applicable
Subpart S	Reserved	N/A
Subpart T	National Emission Standards for Radon Emissions from the Disposal of Uranium Mill Tailings	Not applicable
Subpart U	Reserved	N/A
Subpart V	National Emission Standards for Equipment Leaks (Fugitive Emission Sources)	Not applicable
Subpart W	National Emission Standards for Radon Emissions from Operating Mill Tailings	Not applicable
Subpart X	Reserved	N/A
Subpart Y	National Emission Standards for Benzene Emissions from Benzene Storage Vessels	Not applicable
Subparts Z	Reserved	N/A
Subparts AA	Reserved	N/A
Subpart BB	National Emission Standard for Benzene Emissions from Benzene Transfer Operations	Not applicable
Subparts CC	Reserved	N/A
Subparts DD	Reserved	N/A
Subparts EE	Reserved	N/A
Subpart FF	National Emission Standard for Benzene Waste Operations	Not applicable

Table E3 - 40 CFR Part 63 Maximum Achievable Control Technology (MACT) Standards

Subpart	Description	Applicability
Subpart A	General Provisions	Not applicable
Subpart B	Requirements for Control Technology Determinations for Major Sources in Accordance With Clean Air Act Sections, Sections 112(g) and 112(j)	Not applicable
Subpart C	List of Hazardous Air Pollutants, Petition Process, Lesser Quantity Designations, Source Category List	Not applicable
Subpart D	Regulations Governing Compliance Extensions for Early Reductions of Hazardous Air Pollutants	Not applicable
Subpart E	Approval of State Programs and Delegation of Federal Authorities	Not applicable
Subpart F	National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry	Not applicable
Subpart G	National Emission Standards for Organic Hazardous Air Pollutants From SOCMI Process Vents, Storage Vessels, and Wastewater	Not applicable
Subpart H	National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks	Not applicable
Subpart I	National Emission Standards for Organic Hazardous Air Pollutants for Processes Subject to the Negotiated Regulation for Equipment Leaks	Not applicable
Subpart J	National Emission Standards for Hazardous Air Pollutants for PVC and Copolymers Production	Not applicable
Subpart K	Reserved	N/A
Subpart L	National Emission Standards for Coke Oven Batteries	N/A
Subpart M	National Perchloroethylene Air Emission Standards for Dry Cleaning Facilities	Not applicable
Subpart N	National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks	Not applicable
Subpart O	Ethylene Oxide Emissions Standards for Sterilization Facilities	Not applicable
Subpart P	Reserved	N/A
Subpart Q	National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers	Not applicable
Subpart R	National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)	Not applicable
Subpart S	National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry	Not applicable
Subpart T	National Emission Standards for Halogenated Solvent Cleaning	Not applicable
Subpart U	National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins	Not applicable
Subpart V	Reserved	N/A
Subpart W	National Emission Standards for Hazardous Air Pollutants for Epoxy Resins Production and Non-Nylon Polyamides Production	Not applicable
Subpart X	National Emission Standards for Hazardous Air Pollutants from Secondary Lead Smelting	Not applicable
Subpart Y	National Emission Standards for Marine Vessel Loading Operations	Not applicable
Subpart Z	Reserved	N/A
Subpart AA	National Emission Standards for Hazardous Air Pollutants From Phosphoric Acid Manufacturing Plants	Not applicable
Subpart BB	National Emission Standards for Hazardous Air Pollutants From Phosphate Fertilizers Production Plants	Not applicable
Subpart CC	National Emission Standards for Hazardous Air Pollutants From Petroleum Refineries	Not applicable
Subpart DD	National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations	Not applicable
Subpart EE	National Emission Standards for Magnetic Tape Manufacturing Operations	Not applicable
Subpart FF	Reserved	N/A
Subpart GG	National Emission Standards for Aerospace Manufacturing and Rework Facilities	Not applicable
Subpart HH	National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities (Area Source Applicability)	Not applicable
Subpart II	National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)	Not applicable
Subpart JJ	National Emission Standards for Wood Furniture Manufacturing Operations	Not applicable
Subpart KK	National Emission Standard for the Printing and Publishing Industry	Not applicable
Subpart LL	National Emission Standard for Hazardous Air Pollutants for Primary Aluminum Reduction Plants	Not applicable
Subpart MM	National Emission Standard for Hazardous Air Pollutants for Chemical Recovery Boilers at Kraft, Soda, Sulfite, and Semichemical Pulp Mills	Not applicable
Subpart OO	National Emission Standards for Tanks - Level 1	Not applicable
Subpart PP	National Emission Standards for Containers	Not applicable
Subpart QQ	National Emission Standards for Surface Impoundments	Not applicable
Subpart RR	National Emission Standards for Individual Drain Systems	Not applicable
Subpart SS	National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process	Not applicable
Subpart TT	National Emission Standards for Equipment Leaks - Control Level 1	Not applicable
Subpart UU	National Emission Standards for Equipment Leaks - Control Level 2 Standards	Not applicable
Subpart VV	National Emission Standards for Oil-Water Separators and Organic-Water Separators	Not applicable
Subpart WW	National Emission Standards for Storage Vessels (Tanks) - Control Level 2	Not applicable
Subpart XX	National Emission Standards For Ethylene Manufacturing Process Units: Heat Exchange Systems and Waste Operations	Not applicable
Subpart YY	National Emission Standards for Hazardous Air Pollutants for Source Categories: Generic Maximum Achievable Control Technology Standards	Not applicable
Subpart ZZ	Reserved	N/A
Subpart AAA	Reserved	N/A
Subpart BBB	Reserved	N/A
Subpart CCC	National Emission Standards for Hazardous Air Pollutants for Steel PicklingHCl Process Facilities and Hydrochloric Acid Regeneration Plants	Not applicable
Subpart DDD	National Emission Standards for Hazardous Air Pollutants for Mineral Wool Production	Not applicable
Subpart EEE	National Emission Standard for Hazardous Air Pollutants from Hazardous Waste Combustors	Not applicable
Subpart FFF	Reserved	N/A
Subpart GGG	National Emission Standards Pharmaceuticals Production	Not applicable
Subpart HHH	National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities	Not applicable
Subpart III	National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production	Not applicable
Subpart JJJ	National Emission Standard for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins	Not applicable
Subpart KKK	Reserved	N/A
Subpart LLL	National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry	Not applicable
Subpart MMM	National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production	Not applicable
Subpart NNN	National Emission Standards for Hazardous Air Pollutants for Wool Fiberglass Manufacturing	Not applicable
		. Tot applicable

Table E3 - 40 CFR Part 63 Maximum Achievable Control Technology (MACT) Standards, cont.

Subgert ROS  Notional Emission Standards for Instanctions American	Subpart	Description	Applicability
Subport PIMP Notional Emission Standards for Incorprotes Air Pollutants for Secondary Auminium Production Med applicable Subport VIV Notional Emission Standards for Incorprotes Air Pollutants for Perceivene Refinences CLO, CRI, and SHU. Med applicable Subport VIV Notional Emission Standards for Incorprotes Air Pollutants for Perceivene Refinences CLO, CRI, and SHU. Med applicable Subport VIV Notional Emission Standards for Incorprotes Air Pollutants for Perceivene Refinences CLO, CRI, and SHU. Med applicable Subport VIV Notional Emission Standard for Incorprotes Air Pollutants for Perceivene Refinences CLO, CRI, and SHU. Notional Emission Standard for Incorprotes Air Pollutants for Perceivene Refinences CLO, CRI, and SHU. Notional Emission Standard for Incorprotes Air Pollutants Auminipation Standard CLO Subport PIMP Notional Emission Standard for Incorprotes Air Pollutants Auminipation Standard CLO Subport PIMP Notional Emission Standard for Incorprotes Air Pollutants Auminipation Standard CLO Subport PIMP Notional Emission Standard for Incorprotes Air Pollutants Auminipation Standard Companies Wood Products Subport PIMP Notional Emission Standard for Incorprotes Air Pollutants Auminipation Standard Companies Wood Products Subport PIMP Notional Emission Standard for Incorprotes Air Pollutants Auminipation Air Pollutants Auminipation Standard Companies Wood Products Subport RIMP Notional Emission Standard for Incorprotes Air Pollutants Auminipation Air Pollutants Air	Subpart PPP	National Emission Standards for Hazardous Air Pollutants Emissions for Polyether Polyols Production	Not applicable
Subport VIV.  Su	Subpart QQQ	National Emission Standards for Hazardous Air Pollutants for Primary Copper Smelting	Not applicable
Subport TVD  Michael Fundament Standament TVD  Michael Fundament TVD  Michael Fundam	Subpart RRR		* *
Subpart TVD  Motionel Emission Students for Instructions and Pollutions Ex-Pollutions (Procure Aprellations Special Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions Ex-Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions Ex-Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions Ex-Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions Ex-Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions Ex-Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Pollutions (Procure Agriculture)  Motionel Emission Students for Instructions and Products (Procure Agriculture)  Motionel Emission Students for Instructions and Products (Procure Agriculture)  Motionel Emission Students for Instructions and Products (Procure Agriculture)  Motionel Emission Students for Instructi			* *
Subpart VIVI National Emission Standards for Netanadous Air Pollutions for Petroleman Refineries: CCLL, CRLL, and SRLL Subpart VIVI National Emission Standards for Netanadous Air Pollutions for Petroleman Refineries: CCLL, CRLL, and SRLL Subpart VIVI National Emission Standards for Netanadous Air Pollutions for Petroleman Refineries (CCLL) CRLL, and SRLL Subpart VIVI National Emission Standards for Netanadous Air Pollutions for Petroleman Refineries (CCLL) CRLL and SRLL National Emission Standards for Netanadous Air Pollutions for Petroleman Refineries (CCLL) CRLL and SRLL National Emission Standards for Netanadous Air Pollutions for Petroleman Refineries (CCLL) CRLL and SRLL National CRLL National Emission Standards for Netanadous Air Pollutions		National Emission Standards for Hazardous Air Pollutants for Primary Lead Smelting	
Subport VWV  Subport VWX  Subport VXX  Subpo	•		* *
Subport WWW Nearwords (Control Emission Standards for Hazardous Air Pollutants for Ferronlings Production: Ferromangenese and Silicomangenese (Not applicable Subport AAA)  Notional Emission Standards for Hazardous Air Pollutants for Ferronlings Production: Ferromangenese and Silicomangenese (Not applicable Subport AAA)  Notional Emission Standard for Hazardous Air Pollutants: Manufacturing of Notificiation (Notes)  Notional Emission Standard for Hazardous Air Pollutants: Support (Annual Pollutants)  Notional Emission Standard for Hazardous Air Pollutants: Pollutants: Pollutants (Notes)  Notional Emission Standard for Hazardous Air Pollutants: Pollutants (Notes)  Notional Emission Standard for Hazardous Air Pollutants: Support (Annual Pollutants)  Notional Emission Standard for Hazardous Air Pollutants: Support (Annual Pollutants)  Notional Emission Standard for Hazardous Air Pollutants: National Emission Standard for Hazardous Air Pollutants: Support Contain of Air Notional Emission Standard for Hazardous Air Pollutants: Support Contain of Air Notional Emission Standard for Hazardous Air Pollutants: Support Contain of Air Notional Emission Standard for Hazardous Air Pollutants: Support Contain of Air Notional Emission Standard for Hazardous Air Pollutants: Support Contain of Air Notional Emission Standard for Hazardous Air Pollutants: Support Contain of Air Notional Emission Standard for Hazardous Air Pollutants: Support Contain of Air Notional Emission Standard for Hazardous Air Pollutants: Support Contain of Air Notional Emission Standard for Hazardous Air Pollutants: Support Contain of Air Air Notional Emission Standard for Hazardous Air Pollutants: Support Contain of Air			
Subpart XXX  National Finishino Standards for Hearnalous Air Pollutants for Ferroralines Production: Ferrorannagenese and Silicomangenese Subpart CCCC  National Emission Standard for Hearnalous Air Pollutants: Manufacturing of National Presidents Subpart CCCC  National Emission Standard for Hearnalous Air Pollutants: Manufacturing of National Presidents Subpart CCCC  National Emission Standard for Hearnalous Air Pollutants: Produced and Composite Wood Products Subpart CCCC  National Emission Standard for Hearnalous Air Pollutants: Subread and Composite Wood Products Subpart CCCC  National Emission Standard for Hearnalous Air Pollutants: Subread Extractions for Progretate CUI Production  Not applicable Subpart Air Market Manufacturing Not applicable Subpart Market National Emission Standard for Hearnalous Air Pollutants: Subread Extractions for Progretate CUI Production  Not applicable Subpart Market National Emission Standard for Hearnalous Air Pollutants: Subread Extractions for Progretate CUI Production  Not applicable Subpart Mill National Emission Standard for Hearnalous Air Pollutants: Subread Coating of Automobiles and Light Duity Tracks  Not applicable Subpart Mill National Emission Standard for Hearnalous Air Pollutants: Subread Coating of Automobiles and Light Duity Tracks  Not applicable Subpart National Emission Standard for Hearnalous Air Pollutants: Subread Coating of Automobiles and Light Duity Tracks  Not applicable Subpart National Emission Standard for Hearnalous Air Pollutants: Subread Coating of Miscell Coating Subpart National Emission Standard for Hearnalous Air Pollutants: Subread Coating of Miscell Coating Subpart National Emission Standard for Hearnalous Air Pollutants: Sudare Coating of Miscell Coating Subpart National Emission Standard for Hearnalous Air Pollutants: Sudare Coating of Miscell Coating Subpart National Emission Standard for Hearnalous Air Pollutants: Sudare Coating of Miscell Coating Subpart National Emission Standard for Hearnalous Air Pollutants: Sudare Coating of Misce		· · · · · · · · · · · · · · · · · · ·	
Subport AAA  **National Emission Standard for Hearndrous Air Pollutants: Monicipal Solid Waste Landfills  **Subport DDD0***  **National Emission Standard for Hearndrous Air Pollutants: Phywood and Compasite Wood Products  **Subport DDD0**  **National Emission Standard for Hearndrous Air Pollutants: Phywood and Compasite Wood Products  **Subport RESE**  **National Emission Standard for Hearndrous Air Pollutants: Physical Indianal Standard For Hearndrous Air Pollutants: Subport RESE**  **Subport RESE**  **National Emission Standard for Hearndrous Air Pollutants: Subport RESE**  **National Emission Standard for Hearndrous Air Pollutants: Subport RESE**  **National Emission Standard for Hearndrous Air Pollutants: Subport Research Manufacturing  **National Emission Standard for Hearndrous Air Pollutants: Subport Research Res			
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Subpart HIHH National Emission Standard for Nazardous Air Pollutants for Wet-Formed Fiberipass Mal Production Subpart JUJ National Emission Standard for Nazardous Air Pollutants Suprae Cacting of Matemabilies and Light-Duty Trucks National Emission Standard for Nazardous Air Pollutants: Suprae Cacting of Matemabilies and Light-Duty Trucks National Emission Standard for Nazardous Air Pollutants: Surface Cacting of Matemabilies and Light-Duty Trucks National Emission Standard for Nazardous Air Pollutants Surface Cacting of Miscellaneous Metal Parts and Products National Emission Standard for Nazardous Air Pollutants Surface Cacting of Miscellaneous Metal Parts and Products National Emission Standard for Nazardous Air Pollutants Surface Cacting of University Surface Cacting of University National Emission Standard for Nazardous Air Pollutants Surface Cacting of Miscellaneous Metal Parts and Products National Emission Standard for Nazardous Air Pollutants Surface Cacting of Most Building Products National Emission Standard for Nazardous Air Pollutants Surface Cacting of Metal Furniture National Emission Standard for Nazardous Air Pollutants Surface Cacting of Metal Furniture National Emission Standard for Nazardous Air Pollutants Surface Cacting of Metal Furniture National Emission Standard for Nazardous Air Pollutants Surface Cacting of Metal Furniture National Emission Standard for Nazardous Air Pollutants Surface Cacting of Metal Furniture National Emission Standard for Nazardous Air Pollutants Surface Cacting of Metal Furniture National Emission Standard for Nazardous Air Pollutants for Leather Firishing Operations National Emission Standard for Nazardous Air Pollutants for Leather Firishing Operations National Emission Standard for Nazardous Air Pollutants for Leather Firishing Operations National Emission Standard for Nazardous Air Pollutants for Leather Firishing Operations National Emission Standard for Nazardous Air Pollutants for Leather Firishing Operations National Emission Standard for Nazardous Air Po			* *
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Subport OOOD National Emission Standard for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles National Emission Standard for Hazardous Air Pollutants: Surface Coating of Plastic Parts and Products National Emission Standard for Hazardous Air Pollutants: Surface Coating of Most Building Products National Emission Standard for Hazardous Air Pollutants: Surface Coating of Most Building Products National Emission Standard for Hazardous Air Pollutants: Surface Coating of Most Distillary National Emission Standard for Hazardous Air Pollutants: Surface Coating of Metal Cail National Emission Standard for Hazardous Air Pollutants: Surface Coating of Metal Cail National Emission Standard for Hazardous Air Pollutants for Leather Finishing Operations National Emission Standard for Hazardous Air Pollutants for Leather Finishing Operations National Emission Standard for Hazardous Air Pollutants for Leather Finishing Operations National Emission Standard for Hazardous Air Pollutants for Leather Finishing Operations National Emission Standard for Hazardous Air Pollutants for Boat Manufacturing National Emission Standard for Hazardous Air Pollutants: Rubber Tire Manufacturing National Emission Standard for Hazardous Air Pollutants: Rubber Tire Manufacturing National Emission Standard for Hazardous Air Pollutants for Stationary NCC Mustonal Emission Standard for Hazardous Air Pollutants for Stationary NCC Mustonal Emission Standard for Hazardous Air Pollutants for Stationary NCC Mustonal Emission Standard for Hazardous Air Pollutants for Stationary NCC Mustonal Emission Standard for Hazardous Air Pollutants for Immunication Air Pollutants for Mustonal Emission Standard for Hazardous Air Pollutants for Immunication Air Pollutants for Mustonal Emission Standard for Hazardous Air Pollutants for Immunication			* *
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Subpart JJJJJNational Emission Standard for Hazardous Air Pollutants for Brick and Structural Clay Products ManufacturingNot applicableSubpart KKKKKNational Emission Standard for Hazardous Air Pollutants for Clay Ceramics ManufacturingNot applicableSubpart LLLLLNational Emission Standard for Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing ManufacturingNot applicableSubpart MMMMNational Emission Standard for Hazardous Air Pollutants: Flexible Polyurethane Foam Fabrication OperationsNot applicableSubpart NNNNNNational Emission Standard for Hazardous Air Pollutants: Hydrochloric Acid ProductionNot applicableSubparts OOOOOReservedN/ASubpart QQQQNational Emission Standard for Hazardous Air Pollutants for Engine Test Cells/StandsNot applicableSubpart RRRRRNational Emission Standard for Hazardous Air Pollutants for Friction Materials Manufacturing FacilitiesNot applicableSubpart SSSSSNational Emission Standard for Hazardous Air Pollutants: Taconite Iron Ore ProcessingNot applicableSubpart TTTTTNational Emission Standard for Hazardous Air Pollutants for Primary Magnesium RefiningNot applicableSubpart VVVVVReservedN/ASubpart WWWWNational Emission Standard for Hospital Ethylenne Oxide SterilizersNot applicable	Subpart HHHHH	National Emission Standard for Hazardous Air Pollutants: Miscellaneous Coating Manufacturing	Not applicable
Subpart KKKKK National Emission Standard for Hazardous Air Pollutants for Clay Ceramics Manufacturing Not applicable National Emission Standard for Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing Manufacturing Not applicable Subpart MMMM National Emission Standard for Hazardous Air Pollutants: Flexible Polyurethane Foam Fabrication Operations Not applicable Subpart NNNNN National Emission Standard for Hazardous Air Pollutants: Hydrochloric Acid Production Not applicable Subpart PPPPP National Emission Standard for Hazardous Air Pollutants for Engine Test Cells/Stands Not applicable Subpart QQQQ National Emission Standard for Hazardous Air Pollutants for Friction Materials Manufacturing Facilities Not applicable National Emission Standard for Hazardous Air Pollutants: Taconite Iron Ore Processing Not applicable National Emission Standard for Hazardous Air Pollutants for Refractory Products Manufacturing Not applicable Not applicable National Emission Standard for Hazardous Air Pollutants for Primary Magnesium Refining Not applicable Not ap	Subpart IIIII	National Emission Standard for Hazardous Air Pollutants: Mercury Emissions From Mercury Cell Chlor-Alkali Plants	Not applicable
Subpart LLLLL National Emission Standard for Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing Manufacturing Not applicable	Subpart JJJJJ	National Emission Standard for Hazardous Air Pollutants for Brick and Structural Clay Products Manufacturing	Not applicable
Subpart MMMMM National Emission Standard for Hazardous Air Pollutants: Flexible Polyurethane Foam Fabrication Operations  Not applicable Subpart NNNNN National Emission Standard for Hazardous Air Pollutants: Hydrochloric Acid Production Not applicable Subpart PPPPP National Emission Standard for Hazardous Air Pollutants for Engine Test Cells/Stands Not applicable	Subpart KKKKK	National Emission Standard for Hazardous Air Pollutants for Clay Ceramics Manufacturing	Not applicable
Subpart NNNNN National Emission Standard for Hazardous Air Pollutants: Hydrochloric Acid Production Not applicable Subpart OOOOO Reserved National Emission Standard for Hazardous Air Pollutants for Engine Test Cells/Stands Not applicable Subpart QQQQ National Emission Standard for Hazardous Air Pollutants for Friction Materials Manufacturing Facilities Not applicable Subpart RRRR National Emission Standard for Hazardous Air Pollutants: Taconite Iron Ore Processing Not applicable Subpart TTTTT National Emission Standard for Hazardous Air Pollutants for Refractory Products Manufacturing Not applicable Subpart UUUUU Reserved NAC Subpart VVVVV Reserved NAC Subpart WWWWW National Emission Standard for Hospital Ethylenne Oxide Sterilizers Not applicable	Subpart LLLLL	National Emission Standard for Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing Manufacturing	Not applicable
Subpart PPPPP Subpart QQQQQ National Emission Standard for Hazardous Air Pollutants for Engine Test Cells/Stands Not applicable	Subpart MMMMN	National Emission Standard for Hazardous Air Pollutants: Flexible Polyurethane Foam Fabrication Operations	Not applicable
Subpart PPPPP National Emission Standard for Hazardous Air Pollutants for Engine Test Cells/Stands Not applicable Subpart QQQQQ National Emission Standard for Hazardous Air Pollutants for Friction Materials Manufacturing Facilities Not applicable Subpart RRRRR National Emission Standard for Hazardous Air Pollutants: Taconite Iron Ore Processing Not applicable Subpart TTTTT National Emission Standard for Hazardous Air Pollutants for Refractory Products Manufacturing Not applicable Subpart UUUUU Reserved Subpart VVVVV Reserved Subpart WWWWW National Emission Standard for Hospital Ethylenne Oxide Sterilizers Not applicable	Subpart NNNNN	National Emission Standard for Hazardous Air Pollutants: Hydrochloric Acid Production	Not applicable
Subpart QQQQ National Emission Standard for Hazardous Air Pollutants for Friction Materials Manufacturing Facilities  Not applicable	Subparts 00000	Reserved	N/A
Subpart RRRRRNational Emission Standard for Hazardous Air Pollutants: Taconite Iron Ore ProcessingNot applicableSubpart SSSSSNational Emission Standard for Hazardous Air Pollutants for Refractory Products ManufacturingNot applicableSubpart TTTTTNational Emission Standard for Hazardous Air Pollutants for Primary Magnesium RefiningNot applicableSubpart UUUUUReservedN/ASubpart VVVVVReservedN/ASubpart WWWWWNational Emission Standard for Hospital Ethylenne Oxide SterilizersNot applicable	Subpart PPPPP	National Emission Standard for Hazardous Air Pollutants for Engine Test Cells/Stands	Not applicable
Subpart SSSSSNational Emission Standard for Hazardous Air Pollutants for Refractory Products ManufacturingNot applicableSubpart TTTTTNational Emission Standard for Hazardous Air Pollutants for Primary Magnesium RefiningNot applicableSubpart UUUUUReservedN/ASubpart VVVVVReservedN/ASubpart WWWWWNational Emission Standard for Hospital Ethylenne Oxide SterilizersNot applicable	Subpart QQQQQ	National Emission Standard for Hazardous Air Pollutants for Friction Materials Manufacturing Facilities	Not applicable
Subpart TTTTTNational Emission Standard for Hazardous Air Pollutants for Primary Magnesium RefiningNot applicableSubpart UUUUUReservedN/ASubpart WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	Subpart RRRRR	National Emission Standard for Hazardous Air Pollutants: Taconite Iron Ore Processing	Not applicable
Subpart TTTTTNational Emission Standard for Hazardous Air Pollutants for Primary Magnesium RefiningNot applicableSubpart UUUUUReservedN/ASubpart WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	Subpart SSSSS	National Emission Standard for Hazardous Air Pollutants for Refractory Products Manufacturing	
Subpart UUUUU Reserved  Subpart VVVVV Reserved  N/A  N/A  Subpart WWWWW National Emission Standard for Hospital Ethylenne Oxide Sterilizers  Not applicable	Subpart TTTTT		
Subpart VVVVV Reserved  N/A  Subpart WWWWW National Emission Standard for Hospital Ethylenne Oxide Sterilizers  Not applicable	Subpart UUUUU	Reserved	
Subpart WWWW National Emission Standard for Hospital Ethylenne Oxide Sterilizers  Not applicable	Subpart VVVVV		
	•		
Supports AAAAA Reserved	Subparts XXXXX	Reserved	N/A

Table E4 - 40 CFR Part 63 Generally Achievable Control Technology (GACT) Standards

Subpart	Description	Applicability
Subpart A	General Provisions	Not applicable
Subpart ZZZZ	National Emission Standard for Hazardous Air Pollutants for Stationary RICE (Area Source Provisions)	Not applicable
Subpart YYYYY	National Emission Standard for Hazardous Air Pollutants for Area/Sources: Electric Arc Furnace Steelmaking Facilities	Not applicable
Subpart ZZZZZ	National Emission Standard for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources	Not applicable
Subparts AAAAAA	Reserved	N/A
Subpart BBBBBB	National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals	Not applicable
Subpart CCCCCC	National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities	Not applicable
Subpart DDDDDD	National Emission Standards for Hazardous Air Pollutants for Polyvinyl Chloride and Copolymers Production Area Sources	Not applicable
Subpart EEEEEE	National Emission Standards for Hazardous Air Pollutants for Primary Copper Smelting Area Sources	Not applicable
Subpart FFFFF	National Emission Standards for Hazardous Air Pollutants for Secondary Copper Smelting Area Sources	Not applicable
Subpart GGGGGG	National Emission Standards for Hazardous Air Pollutants for Primary Nonferrous Metals Area Sources (Zinc, Cadmium, and Beryllium)	Not applicable
Subpart HHHHHH	National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations	Not applicable
Subparts IIIII	Reserved	N/A
Subparts JJJJJJ	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources	Applicable
Subparts KKKKKK	Reserved	N/A
Subpart LLLLL	National Emission Standards for Hazardous Air Pollutants for Acrylic and Modacrylic Fibers Production Area Sources	Not applicable
Subpart MMMMMM	National Emission Standards for Hazardous Air Pollutants for Carbon Black Production Area Sources	Not applicable
Subpart NNNNNN	National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources: Chromium Compounds	Not applicable
Subpart 000000	National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production and Fabrication Area Sources	Not applicable
Subpart PPPPPP	National Emission Standards for Hazardous Air Pollutants for Lead Acid Battery Manufacturing Area Sources	Not applicable
Subpart QQQQQQ	National Emission Standards for Hazardous Air Pollutants for Wood Preserving Area Sources	Not applicable
Subpart RRRRRR	National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing Area Sources	Not applicable
Subpart SSSSSS	National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources	Not applicable
Subpart TTTTT	National Emission Standards for Hazardous Air Pollutants for Secondary Nonferrous Metals Processing Area Sources	Not applicable
Subparts UUUUUU	Reserved	N/A
Subpart VVVVVV	National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources	Not applicable
Subpart WWWWWW	National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations	Not applicable
Subpart XXXXXX	National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Sources	Not applicable
Subpart YYYYYY	National Emission Standards for Hazardous Air Pollutants for Area Sources: Ferroalloys Production Facilities	Not applicable
Subpart ZZZZZZ	National Emission Standards for Hazardous Air Pollutants Area Source Standards for Aluminum, Copper and Other Foundries	Not applicable
Subpart AAAAAAA	National Emission Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing	Not applicable
Subpart BBBBBBB	National Emission Standards for Hazardous Air Pollutants for Area Sources: Chemical Preparations Industry	Not applicable
Subpart CCCCCCC	National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing	Not applicable
Subpart DDDDDDD	National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Prepared Feeds Manufacturing	Not applicable
Subpart EEEEEEE	National Emission Standards for Hazardous Air Pollutants: Gold Mine Ore Processing and Production Area Source Category	Not applicable
Subpart HHHHHHH	National Emission Standards for Hazardous Air Pollutant Emissions for Polyvinyl Chloride and Copolymers Production	Not applicable

Tabel E5 - GRAQC 391-3-1-.02(2) Emission Limitations and Standards.

Tabel E5 - GRAQC 391-3-102(2) Emission Limitations and Standards.		
Standard/Section	Applicability	
(b) Visible Emissions.	Applicable	
(c) Incinerators.	Not applicable	
(d) Fuel Burning Equipment.	Applicability	
(e) Particulate Emission from Manufacturing Processes.	Applicable	
(f) Normal Superphosphate Manufacturing Facilities.	Not applicable	
(g) Sulfur Dioxide.	Applicability	
(h) Portland Cement Plants.	Not applicable	
(i) Nitric Acid Plants.	Not applicable	
(j) Sulfuric Acid Plants.	Not applicable	
(k) Particulate Emission from Asphaltic Concrete Hot Mix Plants.	Not applicable	
(I) [reserved]	Not applicable	
(m) Repealed.	Not applicable	
(n) Fugitive Dust.	Applicable	
(a) [reserved]	Not applicable	
(p) Particulate Emissions from Kaolin and Fuller's Earth Processes.	Not applicable	
(q) Particulate Emissions from Cotton Gins.	Not applicable	
(r) Particulate Emissions from Granular and Mixed Fertilizer Manufacturing Units.	Not applicable	
(s) Nitrogen Oxides. (Repealed)  (t) VOC Emissions from Automobile and Light Duty Truck Manufacturing	Not applicable	
(t) VOC Emissions from Automobile and Light-Duty Truck Manufacturing.  (u) VOC Emissions from Can Coating.	Not applicable Not applicable	
(v) VOC Emissions from Coil Coating.  (v) VOC Emissions from Coil Coating.	Not applicable  Not applicable	
(w) VOC Emissions from Paper Coating.	Not applicable	
(w) VOC Emissions from Paper Coating.  (x) VOC Emissions from Fabric and Vinyl Coating.	Not applicable  Not applicable	
(y) VOC Emissions from Metal Furniture Coating.	Not applicable	
(z) VOC Emissions from Large Appliance Surface Coating.	Not applicable	
(aa) VOC Emissions from Wire Coating.	Not applicable	
(bb) Petroleum Liquid Storage.	Not applicable	
(cc) Bulk Gasoline Terminals.	Not applicable	
(dd) Cutback Asphalt.	Not applicable	
(ee) Petroleum Refinery.	Not applicable	
(ff) Solvent Metal Cleaning.	Not applicable	
(gg) Kraft Pulp Mills.	Not applicable	
(hh) Petroleum Refinery Equipment Leaks.	Not applicable	
(ii) VOC Emissions from Surface Coating of Miscellaneous Metal Parts and Products.	Not applicable	
(jj) VOC Emissions from Surface Coating of Flat Wood Paneling.	Not applicable	
(kk) VOC Emissions from Synthesized Pharmaceutical Manufacturing.	Not applicable	
(II) VOC Emissions from the Manufacture of Pneumatic Rubber Tires.	Not applicable	
(mm) VOC Emissions from Graphic Arts Systems.	Not applicable	
(nn) VOC Emissions from External Floating Roof Tanks.	Not applicable	
(oo) Fiberglass Insulation Manufacturing Plants.	Not applicable	
(pp) Bulk Gasoline Plants.	Not applicable	
(qq) VOC Emissions from Large Petroleum Dry Cleaners.	Not applicable	
(rr) Gasoline Dispensing Facility - Stage I.	Not applicable	
(ss) Gasoline Transport Vehicles and Vapor Collection Systems.	Not applicable	
(tt) VOC Emissions from Major Sources.	Not applicable	
(uu) Visibility Protection.	Not applicable	
(vv) Volatile Organic Liquid Handling and Storage.	Not applicable	
(ww) Reserved.	Not applicable	
(xx) Reserved.	Not applicable	
(yy) Emissions of Nitrogen Oxides from Major Sources.	Not applicable	
(zz) Gasoline Dispensing FacilitiesStage II.	Not applicable	
(aaa) [reserved]	Not applicable	
(bbb) [reserved]	Not applicable	
(ccc) VOC Emissions from Bulk Mixing Tanks.	Not applicable	
(ddd) VOC Emissions from Offset Lithography and Letterpress.	Not applicable	
(eee) VOC Emissions from Expanded Polystyrene Products Manufacturing.	Not applicable	
(fff) Particulate Matter Emissions from Yarn Spinning Operations.	Not applicable	
(ggg) Existing Municipal Solid Waste Landfills.	Not applicable	
(hhh) Wood Furniture Finishing and Cleaning Operations.	Not applicable	
(iii) Hospital/Medical/Infectious Waste Incinerators Constructed on or Before June 20, 1996.	Not applicable	
(jjj) NOX Emissions from Electric Utility Steam Generating Units.	Not applicable	
(kkk) VOC Emissions from Aerospace Manufacturing and Rework Facilities.	Not applicable	
(III) NOX Emissions From Fuel-Burning Equipment.  (mmm) NOX Emissions from Stationary Gas Turbines and Stationary Engines	Not applicable Not applicable	
(nnn) NOX Emissions from Large Stationary Gas Turbines.	Not applicable  Not applicable	
(ooo) Reserved.	Not applicable	
reserveu.	, vot applicable	

Tabel E5 - GRAQC 391-3-1-.02(2) Emission Limitations and Standards, cont.

Standard/Section		
(ppp) CISW Incineration Units Constructed On or Before June 4, 2010.		
(qqq) VOC Emissions from Extruded Polystyrene Products Utilizing a Blowing Agent.	Not applicable	
(rrr) NOx Emissions from Small Fuel-Burning Equipment.	Not applicable	
(sss) Multipollutant Control for Electric Utility Steam Generating Units.	Not applicable	
(ttt) [reserved]	Not applicable	
(uuu) SO2 Emissions from Electric Utility Steam Generating Units.	Not applicable	
(vvv) VOC Emissions from Surface Coating of Miscellaneous Plastic Parts and Products.	Not applicable	
(www) Sewage Sludge Incineration Units Constructed On or Before October 14, 2010.	Not applicable	
(xxx) Reserved.	Not applicable	
(yyy) VOC Emissions from the Use of Miscellaneous Industrial Adhesives.	Not applicable	
(zzz) VOC Emissions from the Fiberglass Boat Manufacturing.	Not applicable	
(aaaa) Industrial Cleaning Solvents.	Not applicable	

APPENDIX F
FORMS

State of Georgia
Department of Natural Resources
Environmental Protection Division
Air Protection Branch



Stationary Source Permitting Program 4244 International Parkway, Suite 120 Atlanta, Georgia 30354 404/363-7000

Zip: 31620

Fax: 404/363-7100

#### SIP AIR PERMIT APPLICATION **EPD Use Only** Date Received: Application No. FORM 1.00: GENERAL INFORMATION 1. Facility Information Facility Name: SPECTRUM ENERGY GEORGIA LLC AIRS No. (if known): TO BE ISSUED Facility Location: 801 COOK STREET Street: ADEL City: Zip: 31620 COOK Georgia County: No: Is this facility a "small business" as defined in the instructions? Yes: 2. Facility Coordinates Latitude: Longitude: -83.431858 WEST *31.123395* NORTH *3445805.53* NORTH **UTM Coordinates:** 268100.77 EAST ZONE *17* Facility Owner Name of Owner: SPECTRUM ENERGY GEORGIA LLC Street: 801 COOK STREET Owner Address City: State: GA 4. Permitting Contact and Mailing Address Name: MICHAEL AINSWORTH PRINCIPAL, SPECTRUM ENERGY GEORGIA LLC Title: Telephone No.: EMAIL ONLY Ext. Fax No.: *EMAIL ONLY* Email Address: spectrumenergy.ga@gmail.com Other: Mailing Address: Same as: Facility Location: Owner Address: **Street Address:** If Other: State: Zip: 5. Responsible Official MICHAEL AINSWORTH Title: PRINCIPAL, SPECTRUM ENERGY GEORGIA LLC Name:

THIS APPLICATION IS SUBMITTED IN ACCORDANCE WITH THE PROVISIONS OF THE GEORGIA RULES FOR AIR QUALITY CONTROL AND, TO THE BEST OF MY KNOWLEDGE, IS COMPLETE AND CORRECT.

Signature:	Date:

State:

Address of Official

Street:

City:

801 COOK STREET

ADEL

6.	Reason for	Application: (Check all that apply)			
	New Fa	acility (to be constructed)  Revision of Data Submitted in an Earlier Application			
	Existing	g Facility (initial or modification application)  Application No.:			
	Permit	to Construct Date of Original			
	Permit	to Operate Submittal:			
	Permit	to Modify Existing Equipment: Affected Permit No.:			
_	D itti 1	The second state of the se			
7.	_	Exemption Activities (for permitted facilities only):			
		Have any exempt modifications based on emission level per Georgia Rule 391-3-103(6)(i)(3) been performed at the facility that have not been previously incorporated in a permit?			
	⊠ No	Yes, please fill out the SIP Exemption Attachment			
8.	Has assistar	nce been provided to you for any part of this application?			
	☐ No	Yes, SBAP Yes, a consultant has been employed or will be employed.			
	If yes, pleas	e provide the following information:			
	Name of Co	nsulting Company:			
	Name of Co	ntact: TODD CLOUD			
	Telephone	No.: <u>EMAIL ONLY</u> Fax No.: <u>EMAIL ONLY</u>			
	Email Addre	ess: spectrumenergy.ga@gmail.com			
	Mailing Add	dress: Street: 801 COOK STREET			
		City: ADEL State: GA Zip: 31620			
9.	Submitted A	Application Forms			
	Forms	Form			
	YES	2.00 Emission Unit List			
	YES	2.01 Boilers and Fuel Burning Equipment			
	NO	2.02 Storage Tank Physical Data			
	NO	2.03 Printing Operations			
	NO	2.04 Surface Coating Operations			
	NO	2.05 Waste Incinerators (solid/liquid waste destruction)			
	YES	2.06 Manufacturing and Operational Data			
	YES	3.00 Air Pollution Control Devices (APCD)			
	NO	3.01 Scrubbers			
	YES	3.02 Baghouses & Other Collectors			
	YES	3.03 Electrostatic Precipitators			
	YES	4.00 Emissions Data			
	YES YES	5.00 Monitoring Information			
	YES	6.00 Fugitive Emission Sources			
	11.5	7.00 Air Modeling Information			
10.	Constructio	n or Modification Date			
	Estimated S	tart Date: ASAP			
11.	If confident	al information is being submitted in this application, were the guidelines followed in the "Procedures for			
- <b>-</b> ·		that Submitted Information be treated as Confidential"?			
	☐ No	Yes Not Applicable			

# 12. New Facility Emissions Summary – PHASE 1

Criteria Dell'uterat	New Fa	acility
Criteria Pollutant	Potential (tpy)	Actual (tpy)
Nitrogen oxides (NOX)	138	
Carbon monoxide (CO)	137	
Sulfur dioxide (SO₂)	16.5	
PM <10 microns (PM10)	143	
PM <2.5 microns (PM2.5)	143	
Volatile Organic Compounds (VOC)	234	
Greenhouse Gases (GHG) (in CO2e)		
Total Hazardous Air Pollutants (HAP)	16.0	
Individual HAP		
ACETALDEHYDE	2.79	
FORMALDEHYDE	3.62	
METHANOL	2.90	
OHAP	4.56	
ACROLEIN	0.45	
PHENOL	0.42	
PROPIONALDEHYDE	0.14	

# 12. New Facility Emissions Summary – PHASE 2

Criteria Ballutant	New F	acility
Criteria Pollutant	Potential (tpy)	Actual (tpy)
Nitrogen oxides (NOX)	249	
Carbon monoxide (CO)	247	
Sulfur dioxide (SO <sub>2</sub> )	30.7	
PM <10 microns (PM10)	248	
PM <2.5 microns (PM2.5)	248	
Volatile Organic Compounds (VOC)	241	
Greenhouse Gases (GHG) (in CO2e)		
Total Hazardous Air Pollutants (HAP)	12.4	
Individual HAP		
ACETALDEHYDE	1.74	
FORMALDEHYDE	2.35	
METHANOL	1.97	
ОНАР	2.51	
ACROLEIN	0.65	
PHENOL	0.52	
PROPIONALDEHYDE	0.20	

Not applicable		
14. 4-Digit Facility Ide	entification Code:	
SIC Code: 2	499 SIC Description	: WOOD PRODUCTS, NOT ELSEWHERE CLASSIFIED
NAICS Code: 3.	21999 NAICS Description	: ALL OTHER MISCELLANEOUS WOOD PRODUCT MANUFACTURING
sheets to give an		ration for which a permit is being requested. If necessary, attach additional yout drawings, as necessary, to describe each process. References should be
SEE APPLICATIOI	N NARRATIVE AND ATTACHMENTS	
16. Additional inform	nation provided in attachments as	listed below:
Appendix A -	SITE LOCATION MAP	
Appendix B -	FACILITY DIAGRAMS	
Appendix C -	PROCESS FLOW DIAGRAMS	
Appendix D -	EMISSION ESTIMATES	
Appendix E -	REGULATORY REVIEW	
Appendix F -	FORMS	
	n or date of previous submittal:	
18. Other Environme	ental Permitting Needs:	
		environmental permits/approvals (other than air) such as Hazardous Waste val, water discharge, SWPPP, mining, landfill, etc.?
Yes, please li	ist below:	
NPDES General F	Permit No. GAR050000	
Stormwater Disc	harges Associated with Industrial A	Activity (2017 IGP) [March 2017]
19. List requested pe	ermit limits including synthetic min	or (SM) limits.
NOX	249 t <sub>j</sub>	ру
со	249 tp	ру
PM10/PM2.5	249 tp	py
VOC	249 էր	
Individual HAP	9.9 tp	
Aggregate HAP	24.9 t <sub>l</sub>	py

13. Existing Facility Emissions Summary

20. Effective March 1, 2019, permit application fees will be assessed. The fee amount varies based on type of permit application. Application acknowledgement emails will be sent to the current registered fee contact in the GECO system. If fee contacts have changed, please list that below:

Fee Contact name: MICHAEL AINSOWRTH

Fee Contact title: PRINCIPAL, SPECTRUM ENERGY GEORGIA LLC

Fee Contact email address: spectrumenergy.ga@gmail.com

Fee Contact phone number: **EMAIL ONLY** 

Fee invoices will be created through the GECO system shortly after the application is received. It is the applicant's responsibility to access the facility GECO account, generate the fee invoice, and submit payment within 10 days after notification.

# PHASE 1

Facility Name: SPECTRUM ENERGY GEORGIA LLC Date of Application: October 2021

#### FORM 2.00 - EMISSION UNIT LIST-PHASE 1

Emission Unit ID	Name	Manufacturer and Model Number	Description
DUMP1	Truck dump 1		Truck dump
DUMP2	Truck dump 2		Truck dump
SHRED	Shredder		Shredder
ROAD	Plant road traffic		Plant road traffic
PILE	Storage piles		Storage piles
BUR1	Dryer 1 burner		Dryer burner
BUR2	Dryer 2 burner		Dryer burner
BUR3	Dryer 3 burner		Dryer burner
BUR4	Dryer 4 burner		Dryer burner
DRY1	Dryer 1	TBD	Dryer
DRY2	Dryer 2		Dryer
DRY3	Dryer 3		Dryer
DRY4	Dryer 4		Dryer
DWS1	Dry wood silo 1		Dried wood silo
DWS2	Dry wood silo 2		Dried wood silo
DHM1	Dry hammermill 1		Dry hammermill
DHM2	Dry hammermill 2		Dry hammermill
PM1	Pellet Mill 1		Pellet Mill
PM2	Pellet Mill 2		Pellet Mill

Emission Unit ID	Name	Manufacturer and Model Number	Description
РМ3	Pellet Mill 3		Pellet Mill
PM4	Pellet Mill 4		Pellet Mill
PM5	Pellet Mill 5		Pellet Mill
PM6	Pellet Mill 6		Pellet Mill
PM7	Pellet Mill 7		Pellet Mill
PM8	Pellet Mill 8		Pellet Mill
PM9	Pellet Mill 9		Pellet Mill
PM10	Pellet Mill 10		Pellet Mill
PM11	Pellet Mill 11		Pellet Mill
PM12	Pellet Mill 12	TBD	Pellet Mill
PM13	Pellet Mill 13		Pellet Mill
PM14	Pellet Mill 14		Pellet Mill
PM15	Pellet Mill 15		Pellet Mill
PM16	Pellet Mill 16		Pellet Mill
COOL1	Pellet Cooler 1		Pellet Cooler
COOL2	Pellet Cooler 2		Pellet Cooler
SILO1	Finished Pellet Silo 1		Finished Pellet Silo
SILO2	Finished Pellet Silo 2		Finished Pellet Silo
SILO3	Finished Pellet Silo 3		Finished Pellet Silo

Facility Name: SPECTRUM ENERGY GEORGIA LLC Date of Application: October 2021

Emission Unit ID	Name	Manufacturer and Model Number	Description
SILO4	Finished Pellet Silo 4		Finished Pellet Silo
SILO5	Finished Pellet Silo 5		Finished Pellet Silo
SILO6	Finished Pellet Silo 6		Finished Pellet Silo
SILO7	Finished Pellet Silo 7		Finished Pellet Silo
SILO8	Finished Pellet Silo 8	TBD	Finished Pellet Silo
BLR	Boiler		Boiler
SST1	Sizing/Screening/Transport 1		Sizing/Screening/Transport
SST2	Sizing/Screening/Transport 2		Sizing/Screening/Transport

## Date of Application:

## FORM 2.01 - FUEL COMBUSTION - PHASE 1

Emission Type of	Type of Burner	Type of Draft	Design Capacity of Unit	Percent Excess	Dates		Date & Description of Last Modification	
	туре ој витнет		(MMBtu/hr)	Air	Construction	Installation	Date & Description of Last Modification	
BUR1	Wood	Induced -	30	3%	N/A	ASAP		
BUR2	Wood		30					
BUR3	Wood		45				N/A	
BUR4	Wood		45	1				
BLR	Gas	Forced	25		2022		None	

#### FUEL DATA - PHASE 1

Emission Unit ID	Fuel Type	Potential Annual Consumption			Hourly Consumption		Heat Content		Percent Sulfur		Percent Ash		
		Total Quantity		Percent Use by Season		May	Aug	Min.	4	Max.	Δυσ	Мах.	Aug
		Amount	Units	May 1 - Sept 30	Oct 1 - Apr 30	Max.	Avg.	IVIIII.	Avg.	iviux.	Avg.	iviux.	Avg.
BUR1		146 000 tone nov year											
BUR2	Wood					16.8 tons per hour 4,		4,500 Btu/lb green		Negligible Negligible			
BUR3	Wood	140,000 1011	146,000 tons per year   42	42 58	Negligible							Negligible	
BUR4													
BLR	Gas	219 MMscf/	/yr			25 Mscf/h	ır	1,000 Btu	/scf				

## FUEL SUPPLIER - PHASE 1

Fuel Tune	Name of Complian	upplier Phone Number –	Supplier Location				
Fuel Type	Name of Supplier		Address	City	State	Zip	
Wood	Various						
Gas	Local utility						

Facility Nam	e: S	PECTRUM EN	IERGY GEORGIA LLC	Date of Application: October 2021							
	FORM 2.06 – MANUFACTURING AND OPERATIONAL DATA – <b>PHASE 1</b>										
Normal Operating Schedule: 24 hours/day 7 days/week 52 weeks/yr  Additional Data Attached? No \( \subseteq \text{ Yes, please include the attachment in list on Form 1.00, Item 16.} \)  Seasonal/Peak Operating Periods: Not applicable											
	PRODUCTION INPUT FACTORS										
Emission Unit ID	Emission Unit Name	Const. Date	Input Raw Material(s)	Annual Inpu	Hourly Design	Process Inp	ut Rate Max				
DUMP1-2 SHRED PILE DRY1-4 DWS1-2 HAM1-2 PM1-16 COOL1-2 SILO1-8	DUMP1-2 SHRED PILES DRY1-4 DWS1-2 HAM1-2 PM1-16 COOL1-2 SILO1-8	ASAP	Chips, shavings, sander dust, sawdust	1,200,000 to							
			PRODUCTS OF MANUFACTURIN	G							
Emission		-f Dua duat	Production Schedule		Hourly Prod	uction Rate					

Hr/yr

Design

80

Normal

Maximum

Units

tph

Tons/yr

600,000

Unit ID

Plant

Description of Product

Wood pellets

Facility Name: SPECTRUM ENERGY GEORGIA LLC Date of Application: October 2021
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## Form 3.00 – AIR POLLUTION CONTROL DEVICES - PART A: GENERAL EQUIPMENT INFORMATION – PHASE 1

APCD	Emission Unit ID	ADCD Tuno	Type Date Make & Model Unit Modified from Mfg Installed Number Specifications?		Gas Ten	Inlet Gas Flow Rate		
Unit ID	Emission Unit ID	APCD Type			Specifications?	Inlet	Outlet	(acfm)
WESP1-4	BUR1-4, DRY1-4	WESP						
BGH1	DWS1-2, HAM1-2	Baghouse	ACAD	AP TBD	TBD			
BGH2	PM1-8, COOL1	Baghouse						
BGH3	PM9-16, COOL2	Baghouse				TRD		
BGH4	Screening/Transport 1	Baghouse	ASAP			TBD		
BGH5	Screening/Transport 2	Baghouse						
CYC	Fuel Dust	Cyclone						
BIO	VARIOUS	Biofilter						

## Form 3.00 – AIR POLLUTION CONTROL DEVICES – PART B: EMISSION INFORMATION – PHASE 1

APCD	Pollutants	Percent Effici		Inlet Stre	eam To APCD	Exit Stream From APCD		Pressure Drop Across	
Unit ID	Controlled	Design	Actual	lb/hr	Method of Determination	lb/hr	Method of Determination	Unit (Inches of water)	
WESP1-4									
BGH1									
BGH2		99%+		See emission calculations		See emission calculations		TBD	
BGH3	PM10/PM2.5								
BGH4									
BGH5									
СҮС									
BIO	VOC, HAP	93%							

Facility Name:	SPECTRUM ENERGY GEORGIA LLC	Date of Application:	October 2021

## FORM 3.02 - BAGHOUSES & OTHER FILTER COLLECTORS - PHASE 1

APCD ID	Filter Surface Area (ft²)	No. of Bags	Inlet Gas Dew Point Temp. (°F)	Inlet Gas Temp. (℉)	Bag or Filter Material	Pressure Drop (inches of water)	Cleaning Method	Gas Cooling Method	Leak Detection System Type
BGH1									
BGH2									
BGH3	TBD								
BGH4									
BGH5									

## FORM 3.03 -ELECTROSTATIC PRECIPITATORS - PHASE 1

APCD ID Type of ESP	Field No.	Voltage	(Volts)	Curren	t (Amps)	Total Power (kW)	Water Flow Rate	Inlet Gas Velocity	Spark Rate sparks/min	
		Primary	Secondary	Primary	Secondary					
WESP1										
WESP2	14/04	TOD								
WESP3	wet	Wet TBD								
WESP4										

#### FORM 4.00 – EMISSION INFORMATION – PHASE 1

Emission	Air Pollution	Stack				Emission Rates	S	
Unit ID	Control Device ID	ID	Pollutant Emitted	Hourly Actual Emissions (lb/hr)	Hourly Potential Emissions (lb/hr)	Actual Annual Emission (tpy)	Potential Annual Emission (tpy)	Method of Determination
			NOX				127	Vendor
			СО				127	Vendor
			SO2				16.4	AP-42
WESP BUR1-4, DRY1-4 + BIO			PM10/2.5		11.7		51.1	Grain loading
			VOC (as C3)				144	EPD factors
			ACET				2.64	
		S1	НСНО				3.36	
	BIO		МеОН				2.64	
			O_HAP				4.56	
			ACRO				0.15	- DHEC factors
			PHEN				0.20	
			PROP				0.05	Driec juctors
			HCI			\	1.12	
			PM10/2.5		3.28		14.4	Grain loading
			VOC (as C3)				7.56	
	0014		ACET			\	0.01	HWP factors
DWS1-2	BGH1	S1	НСНО				0.00	
D VV 31-2	+ BIO	31	МеОН	\			0.06	
			ACRO	]		\	0.06	Estimated
			PHEN			1	0.06	Estimatea
			PROP	\		\	0.06	1

## FORM 4.00 – EMISSION INFORMATION, CONT. – PHASE 1

Emission	Air Pollution	Stack				Emission Rates	5	
Unit ID Control Devic	Control Device ID	ID	Pollutant Emitted	Hourly Actual Emissions (lb/hr)	Hourly Potential Emissions (lb/hr)	Actual Annual Emission (tpy)	Potential Annual Emission (tpy)	Method of Determination
			PM10/2.5		1.46		6.38	Grain loading
			VOC (as C3)	]\			60.0	- EPD factors
BGH1 + BIO	BCUA	<i>S1</i>	ACET				0.10	
			НСНО				0.19	
			МеОН				0.10	
			ACRO				0.04	DHEC factors
			PHEN				0.08	
			PROP	_			0.01	
	0.002.2		PM10/2.5	\	8.74		38.3	Grain loading
			VOC (as C3)				12.0	EPD factors
			ACET	_		\	0.02	
PM1-16	BGH2-3 +	S1	НСНО				0.05	
COOL1-2	BIO	31	МеОН	\		\	0.02	
			ACRO	\		\	0.19	
			PHEN	\			0.07	DHEC factors
			PROP	\		\	0.01	
			PM10/2.5	_	0.36	\	1.60	Grain loading
			VOC (as C3)	]		]	0.87	
SILO1-8	N/A	N/A	ACET	_		<u> </u>	0.01	ACP factors
			НСНО	_			0.01	ACF JULIOIS
			МеОН			\	0.07	

-acility name: SPECTRUM ENERGY GEORGIA LLC	Facility Name:	SPECTRUM ENERGY GEORGIA LLC	
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Date of Application:

October 2021

# FORM 4.00 – EMISSION INFORMATION, CONT. – **PHASE 1**

Emission	Air Pollution	Stack				Emission Rates	5	
Unit ID Control	Control Device ID	ID	Pollutant Emitted	Hourly Actual Emissions (lb/hr)	Hourly Potential Emissions (lb/hr)	Actual Annual Emission (tpy)	Potential Annual Emission (tpy)	Method of Determination
			NOX				11.0	
	N/A		СО				9.20	AP-42
BLR		S2	SO2				0.07	
			PM10/2.5		0.19		0.83	
			VOC (as C3)				0.60	
	BGH4	<i>S3</i>			2.91		12.8	
MISC	BGH5	<i>S4</i>	PM10/2.5		2.91		12.8	Grain loading
	CYC	<i>S5</i>			1.09		4.79	

Facility Name: SPECTRUM ENERGY GEORGIA LLC	Date of Application: October 2021	
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## FORM 5.00 MONITORING INFORMATION - PHASE 1

Emission		Monitored Para	meter	
Unit ID/ APCD ID	Emission Unit/ APCD Name	Parameter	Units	Monitoring Frequency
WESP1	WESP1	Power	kW	Continuous
WESP2	WESP2	Power	kW	Continuous
WESP3	WESP3	Power	kW	Continuous
WESP4	WESP4	Power	kW	Continuous
BGH1	BGH1	Pressure drop	In WC	Daily
BGH2	BGH2	Pressure drop	In WC	Daily
BGH3	BGH3	Pressure drop	In WC	Daily
BGH4	BGH4	Pressure drop	In WC	Daily
BGH5	BGH5	Pressure drop	In WC	Daily
CYC	CYC	Pressure drop	In WC	Daily
BIO	BIO	VOC	ррт	Continuous

Comments:		

Eaci	litv,	Name:	
rucii	ILV	munne.	

# Date of Application:

October 2021

## FORM 6.00 – FUGITIVE EMISSION SOURCES – **PHASE 1**

Fugitive	Description of Source	Emission Reduction Precautions	Fugitive Em	nissions
Source ID	Description of Source	Emission Reduction Freductions	Amount (tpy)	Pollutant
DUMP	DUMP	Dust control plan	7.20	PM10/2.5
SHRED	SHRED	Dust control plan	7.20	PM10/2.5
ROAD	ROADS	Dust control plan	0.63	PM10/2.5
PILE	PILE	Dust control plan	2.01	PM10/2.5
PILE	PILE	None	2.01	voc

# PHASE 2

Facility Name: SPECTRUM ENERGY GEORGIA LLC Date of Application: October 2021

Emission Unit ID	Name	Manufacturer and Model Number	Description
LOG	Log handling and storage		Log handling and storage
DBRK1	Debarker 1		Debarking
DBRK2	Debarker 2		Debarking
CHIP1	Chipper 1		Chipper
CHIP2	Chipper 2		Chipper
DUMP1	Truck dump 1		Truck dump
DUMP2	Truck dump 2		Truck dump
DUMP3	Truck dump 3		Truck dump
SHRED1	Shredder 1		Shredder
SHRED2	Shredder 2	TBD	Shredder
SHRED3	Shredder 3		Shredder
ROAD	Plant traffic		Plant traffic
PILE	Storage piles		Storage piles
BUR5	Dryer 1 burner		Dryer burner
BUR6	Dryer 2 burner		Dryer burner
DRY5	Dryer 1		Dryer
DRY6	Dryer 2		Dryer
DWS1	Dry wood silo 1		Dried wood silo
DWS2	Dry wood silo 2		Dried wood silo

Emission Unit ID	Name	Manufacturer and Model Number	Description
DHM1	Dry hammermill 1		Dry hammermill
DHM2	Dry hammermill 2		Dry hammermill
DHM3	Dry hammermill 3		Dry hammermill
DHM4	Dry hammermill 4		Dry hammermill
DHM5	Dry hammermill 5		Dry hammermill
DHM6	Dry hammermill 6		Dry hammermill
PM1	Pellet Mill 1		Pellet Mill
PM2	Pellet Mill 2		Pellet Mill
РМ3	Pellet Mill 3		Pellet Mill
PM4	Pellet Mill 4	TBD	Pellet Mill
PM5	Pellet Mill 5		Pellet Mill
РМ6	Pellet Mill 6		Pellet Mill
PM7	Pellet Mill 7		Pellet Mill
PM8	Pellet Mill 8		Pellet Mill
РМ9	Pellet Mill 9		Pellet Mill
PM10	Pellet Mill 10		Pellet Mill
PM11	Pellet Mill 11		Pellet Mill
PM12	Pellet Mill 12		Pellet Mill
PM13	Pellet Mill 13		Pellet Mill

Emission Unit ID	Name	Manufacturer and Model Number	Description
PM14	Pellet Mill 14		Pellet Mill
PM15	Pellet Mill 15		Pellet Mill
PM16	Pellet Mill 16		Pellet Mill
PM17	Pellet Mill 17		Pellet Mill
PM18	Pellet Mill 18		Pellet Mill
PM19	Pellet Mill 19		Pellet Mill
PM20	Pellet Mill 20		Pellet Mill
PM21	Pellet Mill 21		Pellet Mill
PM22	Pellet Mill 22		Pellet Mill
PM23	Pellet Mill 23	TBD	Pellet Mill
PM24	Pellet Mill 24		Pellet Mill
PM25	Pellet Mill 25		Pellet Mill
PM26	Pellet Mill 26		Pellet Mill
PM27	Pellet Mill 27		Pellet Mill
PM28	Pellet Mill 28		Pellet Mill
PM29	Pellet Mill 29		Pellet Mill
PM30	Pellet Mill 30		Pellet Mill
PM31	Pellet Mill 31		Pellet Mill
PM32	Pellet Mill 32		Pellet Mill

Emission Unit ID	Name	Manufacturer and Model Number	Description
COOL1	Pellet Cooler 1		Pellet Cooler
COOL2	Pellet Cooler 2		Pellet Cooler
COOL3	Pellet Cooler 3		Pellet Cooler
COOL4	Pellet Cooler 4		Pellet Cooler
SILO1	Finished Pellet Silo 1		Finished Pellet Silo
SILO2	Finished Pellet Silo 2		Finished Pellet Silo
SILO3	Finished Pellet Silo 3		Finished Pellet Silo
SILO4	Finished Pellet Silo 4		Finished Pellet Silo
SILO5	Finished Pellet Silo 5		Finished Pellet Silo
SILO6	Finished Pellet Silo 6	TBD	Finished Pellet Silo
SILO7	Finished Pellet Silo 7		Finished Pellet Silo
SILO8	Finished Pellet Silo 8		Finished Pellet Silo
SILO9	Finished Pellet Silo 9		Finished Pellet Silo
SILO10	Finished Pellet Silo 10		Finished Pellet Silo
SILO11	Finished Pellet Silo 11		Finished Pellet Silo
SILO12	Finished Pellet Silo 12		Finished Pellet Silo
SILO13	Finished Pellet Silo 13		Finished Pellet Silo
SILO14	Finished Pellet Silo 14		Finished Pellet Silo
SILO15	Finished Pellet Silo 15		Finished Pellet Silo

Facility Name: SPECTRUM ENERGY GEORGIA LLC Date of Application: October 2021

Emission Unit ID	Name	Manufacturer and Model Number	Description
SILO16	Finished Pellet Silo 16		Finished Pellet Silo
BLR	Boiler	TOD	Boiler
SST1	Sizing/Screening/Transport 1	TBD	Sizing/Screening/Transport
SST2	Sizing/Screening/Transport 2		Sizing/Screening/Transport

## Date of Application:

## FORM 2.01 – FUEL COMBUSTION – PHASE 2

Emission Type of Burner	Type of Draft	Design Capacity of Unit	Percent Excess	Dates		Date & Description of Last Modification		
Unit ID	туре ој вигнег	туре ој Бгајс	(MMBtu/hr)	Air	Construction	n Installation	Dute & Description of East Modification	
BUR1	Wood	Induced	140		A1/A		N/A	
BUR2	Wood	Induced	140	3%	N/A	ASAP		
BLR	Gas	Forced	25		2022		None	

#### FUEL DATA – PHASE 2

Emission	Fred Ton a	Potential Annual Consumption		Hourly Co	nsumption	Heat Content		Percent Sulfur		Percent Ash				
Unit ID	Unit ID Fuel Type		antity	Percent Use by Season		Max.	Aug	Min.	Δυσ	Max.	Δυσ	Μαν	Aug	
	Amount	Units	May 1 - Sept 30	Oct 1 - Apr 30	iviux. Avg.	Avg.	Avg. IVIIII.	Avg.	iviux.	Avg.	Мах.	Avg.		
BUR1	Man d	272 000 to n					21 4 tons nor hour		4,500 Btu/lb green					
BUR2	Wood	272,000 tons per year		42 58		31.4 tons per hour		4,500 Blu/10 green		Negligible		Negligible		
BLR	Gas	219 MMscf/	'yr				25 Mscf/hr		1,000 Btu/scf		]			

#### FUEL SUPPLIER - PHASE 2

Fuel Tune	Name of Cumiliar	Dhana Number	Supplier Location				
Fuel Type	Name of Supplier	Phone Number –	Address	City	State	Zip	
Wood	Various						
Gas	Local utility				•		

		FORM 2.	06 – MANUFACTUR	ING AND OPERATIO	NAL DA	TA – <b>PHASE</b> .	2		
•	erating Schedule: Data Attached?		<b>-</b> ' '	7 include the attachm	ent in li	days/w st on Form 1			veeks/yr
Seasonal/Pe	eak Operating Pe	riods: No	ot applicable						
			PRODUC	TION INPUT FACTOR	S				
							I I a combo	D	t Darka
Emission Unit ID	Emission Unit Name	Const. Date		Material(s)	Anı	nual Input	Design	Process Inp Normal	Max
LOG	LOG								
DBRK1-2	DBRK1-2	-							
CHIP1-2	CHIP1-2								
DUMP1-3	DUMP1-3	-							
SHRED1-3	SHRED1-3								
PILE	PILE	1	Logs, chips, shavir	ngs, sander dust,					
DRY1-2	DRY1-2	ASAP	• • •	,	2,64	0,000 tons	320 tph		
DWS1-2	DWS1-2								
HAM1-6	HAM1-6	-							
PM1-32	PM1-32								
COOL1-4	COOL1-4								
SILO1-16	SILO1-16	-							
			PRODUCTS	S OF MANUFACTURI	NG				
Emission			Produ	ction Schedule			Hourly Prod	uction Rate	
Unit ID	Description	of Product	Tons/yr	Hr/yr		Design	Normal	Maximu	
Plant	Wood pellets	5	1,320,000			160			tph
-	•		•						l

Date of Application:

October 2021

SPECTRUM ENERGY GEORGIA LLC

Facility Name:

acility Name:	SPECTRUM ENERGY GEORGIA LLC	Date of Application:	October 2021
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## Form 3.00 – AIR POLLUTION CONTROL DEVICES - PART A: GENERAL EQUIPMENT INFORMATION – PHASE 2

APCD	Emission Unit ID	ADCD Tuno	Date	Make & Model	Unit Modified from Mfg	Gas Tei	пр. °F	Inlet Gas Flow Rate	
Unit ID	Emission Unit ID	APCD Type	Installed	Number	Number Specifications?		Outlet	(acfm)	
WESP1-2	BUR1-2, DRY1-2	WESP					•		
BGH1	DWS1, HAM1	Baghouse			TBD				
BGH2	DWS2, HAM2	Baghouse							
BGH3	PM1-8, COOL1	Baghouse							
BGH4	PM9-16, COOL2	Baghouse							
BGH5	PM17-24, COOL3	Baghouse	ASAP	TBD		TBD			
BGH6	PM25-32, COOL4	Baghouse	ASAP	טפו					
BGH7	Screening/Transport 1	Baghouse							
BGH8	Screening/Transport 2	Baghouse							
CYC	Fuel Dust	Cyclone	1						
BIO	VARIOUS	Biofilter							
RTO	BUR5-6, DRY5-6	RTO	1						

#### Form 3.00 – AIR POLLUTION CONTROL DEVICES – PART B: EMISSION INFORMATION – PHASE 2

APCD Unit ID	Pollutants		Percent Control Efficiency		Inlet Stream To APCD		eam From APCD	Pressure Drop Across Unit
	Controlled	Design	Actual	lb/hr	Method of Determination	lb/hr	Method of Determination	(Inches of water)
WESP1-2								
BGH1								
BGH2			99%+		See emission calculations			TBD
BGH3								
BGH4	DA410/DA42 F	00%						
BGH5	PM10/PM2.5	99%+					alculations	
BGH6							aiculations	
BGH7								
BGH8			93% 98%					
CYC								
BIO	VOC HAD	93%						
RTO	VOC, HAP	98%						

Facility Name:	SPECTRUM ENERGY GEORGIA LLC	Date of Application:	October 2021

## FORM 3.02 – BAGHOUSES & OTHER FILTER COLLECTORS – PHASE 2

APCD ID	Filter Surface Area (ft²)	No. of Bags	Inlet Gas Dew Point Temp. ( 乎)	Inlet Gas Temp. (°F)	Bag or Filter Material	Pressure Drop (inches of water)	Cleaning Method	Gas Cooling Method	Leak Detection System Type
BGH1									
BGH2									
BGH3									
BGH4	TBD								
BGH5	עפו								
BGH6									
BGH7									
BGH8									

#### FORM 3.03 -ELECTROSTATIC PRECIPITATORS - PHASE 2

APCD ID	Type of ESP	Field No.	Voltage (Volts)		Current (Amps)		Total Power (kW)	Water Flow Rate	Inlet Gas Velocity	Spark Rate sparks/min
			Primary	Secondary	Primary	Secondary				
WESP1	M/ot	TBD								
WESP2	- Wet	עסו								

#### FORM 4.00 – EMISSION INFORMATION – PHASE 2

Emission	Air Pollution	Stack		Emission Rates					
Unit ID	Control Device ID	ID	Pollutant Emitted	Hourly Actual Emissions (lb/hr)	Hourly Potential Emissions (lb/hr)	Actual Annual Emission (tpy)	Potential Annual Emission (tpy)	Method of Determination	
			NOX	$\setminus$		$\setminus$	238	Vendor	
			СО				238	Vendor	
			SO2				30.7	AP-42	
			PM10/2.5		11.7		108	Grain loading	
		<i>S</i> 1	VOC (as C3)				79.2	EPD factors  DHEC factors	
BUR1-2	WESP1-2 + RTO		ACET	] \			1.45		
DRY1-2			НСНО				1.85		
5,1112			МеОН			\	1.45		
			O_HAP	\			2.51		
			ACRO			\	0.08		
			PHEN			\	0.11		
			PROP				0.03		
			HCl	_		\	2.46		
			PM10/2.5	_	2.19		9.57	Grain loading	
			VOC (as C3)	\		\	14.6		
	BGH1-2		ACET	\		\	0.03	HWP factors	
DWS1-2	BGH1-2 +	S2	НСНО	_		\	0.00		
DW31-2	BIO	32	МеОН	]			0.12		
			ACRO	]		\	0.12	Estimated	
			PHEN	_			0.12	Limilatea	
			PROP				0.12		

## FORM 4.00 – EMISSION INFORMATION, CONT. – PHASE 2

Emission	Air Pollution	Stack				Emission Rates	5	
Unit ID	Control Device ID	ID	Pollutant Emitted	Hourly Actual Emissions (lb/hr)	Hourly Potential Emissions (lb/hr)	Actual Annual Emission (tpy)	Potential Annual Emission (tpy)	Method of Determination
			PM10/2.5		4.37		19.1	Grain loading
			VOC (as C3)				116	
	BCU4 2		ACET				0.18	EPD factors
HAM1-6	BGH1-2 +	S2	НСНО				0.37	EPD JUCTOIS
TIANTE O	BIO	32	МеОН	] \			0.18	
			ACRO				0.08	DHEC factors
			PHEN				0.15	
-			PROP	\			0.02	
		S2	PM10/2.5		17.5		76.6	Grain loading
			VOC (as C3)			\	23.1	
	BGH3-6		ACET			\	0.05 0.09	- EPD factors
PM1-32	# #		НСНО	\		\		
COOL1-4	BIO	32	МеОН				0.05	
			ACRO	\		\	0.36	
			PHEN	\		\	0.14	DHEC factors
-			PROP	\		\	0.03	
			PM10/2.5		0.73	<u> </u>	3.19	Grain loading
			VOC (as C3)	\		\	1.92	
SILO1-16	N/A	N/A	ACET			_	0.03	ACP factors
			НСНО	]		]	0.03	, rich juctors
			МеОН	\		\	0.16	

Facility Name:	SPECTRUM ENERGY GEORGIA LLC
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Date of Application:

October 2021

## FORM 4.00 – EMISSION INFORMATION, CONT. – **PHASE 2**

Emission	Air Pollution	Stack		Emission Rates					
Unit ID	Control Device ID	ID	Pollutant Emitted	Hourly Actual Emissions (lb/hr)	Hourly Potential Emissions (lb/hr)	Actual Annual Emission (tpy)	Potential Annual Emission (tpy)	Method of Determination	
			NOX				11.0		
	N/A	<i>S3</i>	СО				9.20		
BLR			SO2				0.07	AP-42	
			PM10/2.5		0.19		0.83		
			VOC (as C3)				0.60		
MISC	BGH7	<i>S4</i>			2.91		12.8		
	BGH8	<i>S5</i>	PM10/2.5		2.91		12.8	Grain loading	
	CYC	<i>S6</i>			1.09		4.79	1	

Facility Name:	SPECTRUM ENERGY GEORGIA LLC	Date of Application:	October 2021	
acinty ivailie.	SI ECTIONI ENERGY GEORGIN EEC	Date of Application.	OCTOBET ZOZI	

## FORM 5.00 MONITORING INFORMATION - PHASE 2

Emission		Monitored Par	rameter	
Unit ID/ APCD ID	Emission Unit/ APCD Name	Parameter	Units	Monitoring Frequency
WESP1	WESP1	Power	kW	Continuous
WESP2	WESP2	Power	kW	Continuous
BGH1	BGH1	Pressure drop	In WC	Daily
BGH2	BGH2	Pressure drop	In WC	Daily
BGH3	BGH3	Pressure drop	In WC	Daily
BGH4	BGH4	Pressure drop	In WC	Daily
BGH5	BGH5	Pressure drop	In WC	Daily
BGH6	BGH6	Pressure drop	In WC	Daily
BGH7	BGH7	Pressure drop	In WC	Daily
BGH8	BGH8	Pressure drop	In WC	Daily
CYC	CYC	Pressure drop	In WC	Daily
BIO	BIO	voc	ppm	Continuous
RTO	RTO	Temperature	F	Continuous

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## FORM 6.00 – FUGITIVE EMISSION SOURCES – PHASE 2

Fugitive	Description of Source	Emission Reduction Precautions	Fugitive Emissions		
Source ID	Description of Source	Emission reduction Precuations	Amount (tpy)	Pollutant	
LOG	LOG	Dust control plan	15.8	PM10/2.5	
DBRK	DBRK	Dust control plan	15.8	PM10/2.5	
СНІР	CHIP	Dust control plan	15.8	PM10/2.5	
DUMP	DUMP	Dust control plan	15.8	PM10/2.5	
SHRED	SHRED	Dust control plan	15.8	PM10/2.5	
ROAD	ROAD	Dust control plan	1.25	PM10/2.5	
PILE	PILE	Dust control plan	4.02	PM10/2.5	
PILE	PILE	None	4.02	voc	