



SIP AIR PERMIT APPLICATION

EPD Use Only

Date Received: _____

Application No. _____

FORM 1.00: GENERAL INFORMATION

1. Facility Information

Facility Name: Yellow Pine Energy Company, LLC

AIRS No. (if known): 04-13- -

Facility Location: Street: GA Highway 39

City: Fort Gaines Georgia Zip: 39851 County: Clay

2. Facility Coordinates

Latitude: 31° 31' 12" NORTH Longitude: 85° 02' 22" WEST

UTM Coordinates: 686151 EAST 3488908 NORTH ZONE 16 R

3. Facility Owner

Name of Owner: Yellow Pine Energy Company, LLC

Owner Address Street: c/o Summit Energy Partners, LLC, 99 Summit Avenue, Suite 2C

City: Summit State: NJ Zip: 07901

4. Permitting Contact and Mailing Address

Contact Person: Mark S. Sajer Title: Managing Director

Telephone No.: 908.918.9151 Ext. _____ Fax No.: 908.918.9153

Email Address: mark.sajer@sep-llc.com

Mailing Address: Same as: Facility Location: ☐ Owner Address: ☐ Other: ☐

If Other: Street Address: _____

City: _____ State: _____ Zip: _____

5. Authorized Official

Name: Mark S. Sajer Title: Managing Director

Address of Official Street: c/o Summit Energy Partners, LLC, 99 Summit Avenue, Suite 2C

City: Summit State: NJ Zip: 07901

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: _____

9/27/07

6. Reason for Application: (Check all that apply)

- ☒ New Facility (to be constructed) ☐ Revision of Data Submitted in an Earlier Application
☐ Existing Facility (initial or modification application) Application No.: _____
☒ Permit to Construct Date of Original Submittal: _____
☒ Permit to Operate
☐ Change of Location
☐ Permit to Modify Existing Equipment: Affected Permit No.: _____

7. Permitting Exemption Activities (for permitted facilities only):

Have any exempt modifications based on emission level per Georgia Rule 391-3-1-.03(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 (See Instructions for the attachment download)

8. Has assistance 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, please provide the following information:

Name of Consulting Company: CH2M HILL

Name of Contact: George Howroyd, Ph.D., P.E.

Telephone No.: 678.530.4170

Fax No.: 678.579.8004

Email Address: george.howroyd@CH2M.com

Mailing Address: Street: 1000 Abernathy Rd, Suite 1600

City: Atlanta

State: GA

Zip: 30328

Describe the Consultant's Involvement:

Responsible for the preparation of the permit application and has been delegated to provide support on behalf of Yellow Pine, LLC. in the event that EPD has questions regarding any aspect of the application.

9. Submitted Application Forms: Select only the necessary forms for the facility application that will be submitted.

No. of Forms	Form
X	2.00 Emission Unit List
X	2.01 Boilers and Fuel Burning Equipment
X	2.02 Storage Tank Physical Data
	2.03 Printing Operations
	2.04 Surface Coating Operations
	2.05 Waste Incinerators (solid/liquid waste destruction)
	2.06 Manufacturing and Operational Data
X	3.00 Air Pollution Control Devices (APCD)
X	3.01 Scrubbers
X	3.02 Baghouses & Other Filter Collectors
	3.03 Electrostatic Precipitators
X	4.00 Emissions Data
X	5.00 Monitoring Information
X	6.00 Fugitive Emission Sources
X	7.00 Air Modeling Information

10. Construction or Modification Date

Estimated Start Date: April 30, 2008

11. If confidential information is being submitted in this application, were the guidelines followed in the "Procedures for Requesting that Submitted Information be treated as Confidential"?

☐ No ☒ Yes

12. New Facility Emissions Summary

Criteria Pollutant	New Facility	
	Potential (tpy)	Actual (tpy)
Carbon monoxide (CO)	2,009	
Nitrogen oxides (NOx)	670	
Particulate Matter (PM)	--	
PM <10 microns (PM10)	222	
PM <2.5 microns (PM2.5)	--	
Sulfur dioxide (SO ₂)	670	
Volatile Organic Compounds (VOC)	134	
Total Hazardous Air Pollutants (HAPs)	231 (Based on biomass firing in FB Boiler)	
Individual HAPs Listed Below:		
See Appendix E of Report		

13. Existing Facility Emissions Summary

Criteria Pollutant	Current Facility		After Modification	
	Potential (tpy)	Actual (tpy)	Potential (tpy)	Actual (tpy)
Carbon monoxide (CO)				
Nitrogen oxides (NOx)				
Particulate Matter (PM)				
PM <10 microns (PM10)				
PM <2.5 microns (PM2.5)				
Sulfur dioxide (SO ₂)				
Volatile Organic Compounds (VOC)				
Total Hazardous Air Pollutants (HAPs)				
Individual HAPs Listed Below:				

14. 4-Digit Facility Identification Code:

SIC Code: 4911 SIC Description: Electric Power Generation, Transmission or Distribution
NAICS Code: 22111 NAICS Description: Electric Power Generation

15. Description of general production process and operation for which a permit is being requested. If necessary, attach additional sheets to give an adequate description. Include layout drawings, as necessary, to describe each process. References should be made to source codes used in the application.

See Attachments.

16. Additional information provided in attachments as listed below:

Attachment A - PSD Report
Attachment B - _____
Attachment C - _____
Attachment D - _____
Attachment E - _____
Attachment F - _____

17. Additional Information: Unless previously submitted, include the following two items:

- ☒ Plot plan/map of facility location or date of previous submittal: Figures 2-1 and 2-2
☒ Flow Diagram or date of previous submittal: Figures 2-3 and 2-4

Facility Name: Yellow Pine Energy Company, LLC Date of Application:

FORM 2.00 – EMISSION UNIT LIST

Emission Unit ID	Name	Manufacturer and Model Number	Description
FB	FB Boiler	TBD	1,529 MMBtu/hr Biomass Fired Boiler
AB	Auxiliary Boiler	TBD	25 MMBtu/hr Auxiliary No. 2 Fuel Oil Fired Boiler
EG	Emergency Generator	TBD	Diesel Back-up Emergency Generator
FW	Fire Water Pump	TBD	Diesel Fire Water Pump
FP1	Fuel Process Bldg #1	TBD	Fuel Process Building #1
FP2	Fuel Process Bldg #2	TBD	Fuel Process Building #2
SLO	Fuel Storage Silo	TBD	Fuel Storage Silo
DT1	No. 2 Fuel Oil Storage Tank	TBD	100,000 gallon No. 2 Fuel Oil Storage Tank
DT2	Diesel Storage Tank	TBD	5,000 gallon Diesel Storage Tank
AT	Ammonia Storage Tank	TBD	Ammonia Storage Tank
DT3	Diesel Storage Tank	TBD	500 gallon Diesel Storage Tank
DT4	Diesel Storage Tank	TBD	250 gallon Diesel Storage Tank
GT1	Gasoline Storage Tank	TBD	250 gallon Diesel Storage Tank
FAS	Fly Ash Silo	TBD	Fly Ash Silo

Date of Application:

FORM 2.01 – BOILERS AND FUEL BURNING EQUIPMENT

[illegible]

¹ This column does not have to be completed for natural gas only fired equipment.

Date of Application:

FUEL DATA

Emission Unit ID	Fuel Type	Potential Annual Consumption				Hourly Consumption		Heat Content		Percent Sulfur		Percent Ash in Solid Fuel	
		Total Quantity		Percent Use by Season		Max.	Avg. (lb/hr)	Min.	Avg. (Btu/lb)	Max.	Avg.	Max.	Avg.
		Amount	Units	Ozone Season May 1 - Sept 30	Non-ozone Season Oct 1 - Apr 30								
FB	Biomass	1,539,550	tpy	42%	58%		351,494		4,350		0.02%		1.31%
FB	Coal	95,700	tpy	42%	58%		21,849		10,500		5.0%		13.9%
FB	Pet Coke	71,260	tpy	42%	58%		16,269		14,100		6.5%		0.35%
FB	TDF	64,810	tpy	42%	58%		14,797		15,500		1.23%		4.78%
AB	No. 2 Fuel Oil	44,700	gal/yr	42%	58%		179 (gal/hr)		139,600 (Btu/gal)		0.05%		N
EG	No. 2 Fuel Oil	TBD							139,600 (Btu/gal)		0.05%		N
FW	Diesel	TBD							137,000 (Btu/gal)		0.05%		N
			TBD =	To be determined									
			N =	Negligible									

Fuel Supplier Information

Fuel Type	Name of Supplier	Phone Number	Supplier Location		
			Address	City	State Zip
Biomass	To be determined				
Coal	To be determined				
Pet Coke	To be determined				
TDF	To be determined				
No. 2 Fuel Oil	To be determined				
Diesel	To be determined				

Yellow Pine Energy Company, LLC

Date of Application:

Form 3.00 – AIR POLLUTION CONTROL DEVICES - PART A: GENERAL EQUIPMENT INFORMATION

[illegible]

Yellow Pine Energy Company, LLC

Date of Application:

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

[illegible]

Date of Application:

FORM 3.01 – SCRUBBERS[illegible]

Date of Application:

FORM 3.02 – BAGHOUSES & OTHER FILTER COLLECTORS[illegible]

Attach a physical description, dimensions and drawings for each baghouse and any additional information available such as particle size, maintenance schedules, monitoring procedures and breakdown/by-pass procedures. Explain how collected material is disposed of or utilized. Include the attachment in the list on Form 1.00 *General Information*, Item 16

Facility Name: Yellow Pine Energy Company, LLC

Date of Application:

FORM 4.00 – EMISSION INFORMATION

Emission Unit ID	Air Pollution Control Device ID	Stack ID	Pollutant Emitted	Emission Rates				Method of Determination
				Hourly Actual Emissions (lb/hr)	Hourly Potential Emissions (lb/hr)	Actual Annual Emission (tpy)	Potential Annual Emission (tpy)	
FB	SNCR, DS, BH1	FBS	CO		459		2,010	Engineering Calculation
			NOx		153		670	Engineering Calc.
			SO2		291		670	Material Balance
			VOC		30.6		134	Engineering Calc.
			PM-10		50.5		221	Material Balance
			HAPs (sum based on biomass firing)		52.7		231	Engineering Calc.
AB	SNCR, DS, BH1	ABS	CO		0.90		0.11	AP-42
			NOx		3.58		0.45	AP-42
			SO2		1.27		0.16	AP-42
			VOC		0.061		0.01	AP-42
			PM-10		0.43		0.05	AP-42
			HAPs		1E-3		1.25E-4	AP-42
EG	--	EGS	CO		TBD			
			NOx		TBD			
			SO2		TBD			
			VOC		TBD			
			PM-10		TBD			
			HAPs		TBD			
FW	--	FWS	CO		TBD			
			NOx		TBD			

Facility Name: Yellow Pine Energy Company, LLC Date of Application: _____

FORM 5.00 MONITORING INFORMATION

Emission Unit ID/ APCD ID	Emission Unit/APCD Name	Monitored Parameter		Monitoring Frequency
		Parameter	Units	
SNCR	Selective Non-Catalytic Reduction			TBD
DS	Dry Scrubber			TBD
BH1	Baghouse 1			TBD
BH2	Baghouse 2			TBD
BH3	Baghouse 3			TBD
BH4	Baghouse 4			TBD
BH5	Baghouse 5			TBD
	TBD = To be determined			

Comments:

FORM 6.00 – FUGITIVE EMISSION SOURCES

Fugitive Emission Source ID	Description of Source	Emission Reduction Precautions	Pot. Fugitive Emissions	
			Amount (tpy)	Pollutant
BCU1	Barge/Clamshell Unloading	Water Sprays	8.49E-03	PM
T1	Conveyor Transfer Tower #1	Enclosures	5.07E-02	PM
			2.32E-02	PM-10
T2	Conveyor Transfer Tower #2	Enclosures	6.75E-02	PM
			3.09E-02	PM-10
T3	Conveyor Transfer Tower #3	Enclosures	8.17E-05	PM
SPL1	Storage Pile Load-in (Limestone/Sand)	Telescopic chutes & water sprays	2.04E-05	PM
ASP2	Active Storage Pile #2 (Limestone/Sand)	Wind screens & water sprays	1.37E-01	PM
ASP3	Active Storage Pile #3 (Biomass)	Wind screens & water sprays	4.22E-03	PM
			1.93E-03	PM-10
T5	Conveyor Transfer Tower #5	Enclosures	8.17E-05	PM
T6	Conveyor Transfer Tower #6	Enclosures	5.06E-02	PM
			2.32E-02	PM-10
RSP	Reserve Storage Pile	Wind screens & water sprays	6.33E-03	PM
			2.90E-03	PM-10
T7	Conveyor Transfer Tower #7	Enclosures	5.06E-02	PM
			2.32E-02	PM-10
ASP4	Active Storage Pile #4 (Biomass)	Water sprays	6.33E-03	PM
			2.90E-03	PM-10
T8	Conveyor Transfer Tower #8	Enclosures	5.06E-02	PM
			2.32E-02	PM-10
PR1	Paved Road 1	Water / chemical sprays, speed limits	2.12E-02	PM
			1.32E-02	PM-10
PR2	Paved Road 2	Water / chemical sprays, speed limits	6.55E-02	PM
			4.04E-02	PM-10

CT	Cooling Tower Emissions	Drift Eliminators	1.48E-01	PM
TL	Fly Ash Truck Loading	Enclosures	1.92E-6	PM

Facility Name: Yellow Pine Energy Company, LLC Date of Application:

FORM 7.00 – AIR MODELING INFORMATION: Stack Data

Stack ID	Emission Unit ID(s)	Stack Information			Dimensions of largest Structure Near Stack		Exit Gas Conditions at Maximum Emission Rate			
		Height Above Grade (ft)	Inside Diameter (ft)	Exhaust Direction	Height (ft)	Longest Side (ft)	Velocity (ft/sec)	Temperature (°F)	Average	Maximum
FBS	BFB	210	10	Towards the sky			118.8	286	559,830	
ABS	AB	100	2	Towards the sky			39.2	330	7389	
EGS	EB			Towards the sky						
FWS	FB			Towards the sky						
FP1S	FP1	24	0.70	Towards the sky			28.7	70	663	
FP2S	FP2	24	0.70	Towards the sky			28.7	70	663	
SLOS	SLO	186	0.70	Towards the sky			28.7	70	663	

NOTE: If emissions are not vented through a stack, describe point of discharge below and, if necessary, include an attachment. List the attachment in Form 1.00 *General Information*, Item 16.

Date of Application: _____

[illegible]