

Title V Application

Current Status: Complete Submittal

App ID: 40172

Date Submitted: 06/01/2015

Today is Jun 01, 2015

A. GENERAL INFORMATION

Construction or Modification Date	05/28/2015
Project Description	<p>The permit application is being submitted to update the previous permit application and Permit No. 2421-275-0022-V-06-0 with the following information:</p> <ol style="list-style-type: none">1. The batch dry kilns (DK01, DK02, DK03) should not have a federally enforceable limit, as they were previously permitted at 36.5 MMBF/yr of production for each kiln, which was below PSD thresholds, and2. To permit the continuous dry kiln (DK04) with a federally enforceable drying limit of 80 MMBF/yr via the one-time doubling of production rule. <p>Cyclone 7 (CY07) is included in the application and emission calculations, as it was added as an off-permit change. It is used as a fueling cyclone to provide fuel to the sloped grate burner (SG01) for the continuous dry kiln (DK04). The cyclone should be considered an insignificant source as it is similar to the existing Cyclone 6 (CY06), which is an insignificant source.</p>

A.1. APPLICATION INFORMATION

Application Processing	Expedited
Application Reason	Modification
Application Type	Significant Modification without construction
A Summary of all the Modifications being made	An update to the previous application and permit is being requested to permit the 3 batch dry kilns at 36.5 MMBF/yr per kiln and to permit the continuous dry kiln with a production limit of 80 MMBF/yr via the one time doubling rule. A new cyclone that was installed as an off-permit modification is also included in the application.
A Summary of Name or Ownership Change	
Application Submitted for	
Describe facility at a Part 70 site covered by the application	
List out other facilities included in a Part 70 site	

A.2. FACILITY INFORMATION

Facility	BEADLES & BALFOUR
Original ID	27500022
Mailing Address 1	P.O. Box 1337
Mailing Address 2	N/A
County	Thomas
City	Thomasville
State	GA
Zip	31792
Latitude	30.83426
Longitude	-83.996905
Does your facility have less than 100 employees?	No
SIC Code	2421 (Sawmills and planing mills, general)
NAICS Code	321999 (All Other Miscellaneous Wood Product Manufacturing)

Facility Description

The facility processes logs into rough cut lumber, which is then dried to the optimal moisture content in one of the facility's lumber dry kilns. Dried lumber is then planed and sold to customers.

FacSignifProcess

ProcessName:	Sawmill
Description:	The sawmill (SM01) receives debarked logs from the debarker (DB01) and cuts the green logs to varying dimensions. Sawdust from these operations is sent to fuel silo 2 SL02 by CY04. Silo 1 (SL01) is filled mechanically from trucks from Loading Bin 3 (LB03). SL01 and SL02 provide sawdust to fuel the Fluidized Bed Combustor (FB01). Wood scrap generated in SM01 is sent to the chippers (CH02, CH03, and CH04). Wood chips are loaded into Loading Bin 2 (LB02) then placed in railcars or trucks to be sold to customers.

ProcessName:	Drying Kilns
Description:	The direct-fired drying kilns DK01, DK02, and DK03 and continuous drying kiln DK04 dry the rough-cut green lumber, reducing the moisture content from 50 - 60% to less than 20% by weight. DK01 and DK02 are heated by the Fluidized Bed Combustor (FB01). DK03 is heated by the Suspension Burner (SB01). DK04 is heated by the Sloped Grate Burner (SG01). FB01 and SG01 burn green sawdust that originates in the sawmill during sawing operations. SB01 burns dry wood shavings generated in planer mill 1 (PM01).

ProcessName:	Planer Mills
Description:	Planer Mills PM01 and PM02 process dry rough cut lumber to produce untreated planed lumber. The wood shavings generated in PM01 are sent to Baghouse 2 (BH02) and then either shredded at hammermill HM01 and used as fuel for SB01 or diverted to truck bins for sale off site. The wood shavings generated in PM02 are sent to cyclone CY03. From CY03, shavings are sent either to baghouse BH01, to loading bin LB01 to be sold, or to HM01 to be used as fuel for SB01. Wood Scrap generated in both planer mills is chipped at chipper CH01 and shredded at HM01 and used as fuel for SB01.

ProcessName:	Overall Facility
Description:	Beadles & Balfour, LLC in Thomasville, GA is a standard lumber mill producing non-dried wood products and kiln-dried dimensioned lumber for construction purposes. The construction lumber making process starts with tree-length barked logs which are processed into lumber by debarking, sawing, kiln drying, and planing. The lumber is bundled for shipment. The other products are produced by omitting some of the latter steps.

FacCAPEmissions

PollutantID:	CO
PTE:	177.0
AllowableLimitRequested:	No
AllowableLimit:	
PastMax:	102.4
DateStart:	12/18/2014
DateEnd:	05/28/2015
FutureMax:	169.8

PollutantID:	NOX
PTE:	106.5

AllowableLimitRequested:	No
AllowableLimit:	
PastMax:	38.51
DateStart:	12/18/2014
DateEnd:	05/28/2015
FutureMax:	102.1
PollutantID:	PM
PTE:	145.9
AllowableLimitRequested:	No
AllowableLimit:	
PastMax:	43.32
DateStart:	12/18/2014
DateEnd:	05/28/2015
FutureMax:	84.46
PollutantID:	PM25-PRI
PTE:	8.463
AllowableLimitRequested:	No
AllowableLimit:	
PastMax:	4.293
DateStart:	12/18/2014
DateEnd:	05/28/2015
FutureMax:	8.114
PollutantID:	SO2
PTE:	9.417
AllowableLimitRequested:	No
AllowableLimit:	
PastMax:	4.315
DateStart:	12/18/2014
DateEnd:	05/28/2015
FutureMax:	9.030
PollutantID:	VOC
PTE:	379
AllowableLimitRequested:	Yes
AllowableLimit:	320
PastMax:	145
DateStart:	12/18/2014
DateEnd:	05/28/2015
FutureMax:	320
PollutantID:	TOTAL-HAP
PTE:	24.07
AllowableLimitRequested:	No
AllowableLimit:	
PastMax:	9.570
DateStart:	12/18/2014

DateEnd:	05/28/2015
FutureMax:	20.32

PollutantID:	PM-PRI
PTE:	144.6
AllowableLimitRequested:	No
AllowableLimit:	
PastMax:	42.64
DateStart:	12/18/2014
DateEnd:	05/28/2015
FutureMax:	83.23

FacCAPOther

PollutantID:	
PTE:	
AllowableLimitRequested:	
AllowableLimit:	
PastMax:	
DateStart:	
DateEnd:	
FutureMax:	

A.2.3 Facility Wide HAP Emissions

Total Facility Wide HAP PTE(tpy)	24.07
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A.3. Title VI Level

Does our facility have any air conditioners or refrigeration equipment that uses CFC's, HFC's or other stratospheric ozone-depleting substances listed in 40 CFR Part 82, Subpart A, Appendices A and B?	true
Does any air conditioner or any piece of refrigeration equipment contain a refrigerant charge of greater than 50 lbs?	false
Do your facility personnel maintain, services, repair, or dispose of any motor vehicle air conditioners (MVAC's) or appliances?	false
Title VI Comment	

FacVOCEmissions

CasNumber:	
VOCName:	
PTE:	

FacHAPemissions

* [Group 1]	
PollutantName:	Formaldehyde
PollutantID:	335
PollutantCd:	50000
SubDescription:	Formaldehyde
SubstanceChemName:	HAP

CasNumber:
PTE: 4.643
AllowableLimitRequested: No
AllowableLimit:

* [Group 2]

PollutantName: Methanol
PollutantID: 429
PollutantCd: 67561
SubDescription: Methanol
SubstanceChemName: HAP
CasNumber:
PTE: 15.25
AllowableLimitRequested: No
AllowableLimit:

* [Group 3]

PollutantName: Acetaldehyde
PollutantID: 472
PollutantCd: 75070
SubDescription: Acetaldehyde
SubstanceChemName: HAP
CasNumber:
PTE: 4.169
AllowableLimitRequested: No
AllowableLimit:

FacilityRule

* [Group 1]

RuleID: 6
RefType: SIP
RefCode: .02(2)(b)
Description: Visible Emissions

* [Group 2]

RuleID: 12
RefType: SIP
RefCode: .02(2)(d)
Description: Fuel-burning Equipment

* [Group 3]

RuleID: 15
RefType: SIP
RefCode: .02(2)(e)
Description: Particulate Emission from Manufacturing Processes

* [Group 4]

RuleID: 20
RefType: SIP
RefCode: .02(2)(g)

Description:

Sulfur Dioxide

* [Group 5]

RuleID:

40

RefType:

SIP

RefCode:

.02(2)(n)

Description:

Fugitive Dust