

Thomas & Betts

260 Dennis St.
Athens, TN 37303
(423) 745-6588
www.tnb.com

July 29, 2013

Mr. Barry R. Stephens, P. E.
Tennessee Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243

Re: Thomas & Betts Corporation
Athens, TN
Emission Source No. 54-0047
Designation of "Insignificant Activity"

RECEIVED

TN, DIV. OF
AIR POLLUTION CONTROL
2013 AUG - 6 PM 2: 29

Dear Mr. Stephens:

In accordance with Tennessee Air Pollution Control Rule 1200-3-9-.04(4)(a), Thomas and Betts would like to request that their Procedyne Model 2430 Fluidized Bed Die Cleaning Furnace be designated as an "Insignificant Activity" or "Insignificant Emissions Source."

Enclosed for your review and consideration is a Construction Permit Application which includes Emission Calculations based on emissions data guaranteed from the Manufacturer. The following table summarizes the results from the Emission Calculations:

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AIR CONTAMINANT	MAXIMUM POTENTIAL EMISSIONS (lbs/yr)
Particulates (PM10)	936.6
VOC	1839.6
CO	5694

As can be seen in the table above, this emission source does not have the potential to emit 5 tons per year of any air contaminant or regulated air pollutant that is not a hazardous air pollutant, or a 1,000 pounds per year of each hazardous air pollutant.

Your help in designating this source as an "Insignificant Emission Source" is greatly appreciated. If you should have any questions, please contact Mr. John Coulter of Coulter Engineering Services at (423) 344-6507 or myself at (423) 745-6588 (ext 309).

Very respectfully,


Joe McCall

Enclosures (3)

cc: Mr. Don Davis
Chattanooga Field Office
540 McCallie Avenue
Suite 550- State Office Building
Chattanooga, TN 37402



NOT TO BE USED FOR TITLE V APPLICATIONS

PERMIT APPLICATION

APC 20

PLEASE TYPE OR PRINT AND SUBMIT IN DUPLICATE FOR EACH EMISSION SOURCE. ATTACH APPROPRIATE SOURCE DESCRIPTION FORMS.

1. ORGANIZATION'S LEGAL NAME Thomas & Betts Corporation			/// FOR	APC COMPANY--POINT NO. <i>54-0047-12</i>
2. MAILING ADDRESS (ST/RD/P.O. BOX) 260 Dennis Street			/// APC	APC LOG/PERMIT NO. <i>967592</i>
CITY Athens	STATE TN	ZIP CODE 37303	PHONE WITH AREA CODE 423-745-6588	
3. PRINCIPAL TECHNICAL CONTACT Joe McCall			PHONE WITH AREA CODE 423-745-6588 (ext 309)	
4. SITE ADDRESS (ST/RD/HWY) 260 Dennis Street			COUNTY NAME McMinn	
CITY OR DISTANCE TO NEAREST TOWN Athens		ZIP CODE 37303	PHONE WITH AREA CODE 423-745-6588	
5. EMISSION SOURCE NO. (NUMBER WHICH UNIQUELY IDENTIFIES THIS SOURCE) <i>54-0047</i>		PERMIT RENEWAL YES () NO (X)		
6. BRIEF DESCRIPTION OF EMISSION SOURCE Fluidized Bed Die Cleaning Furnace				

7. TYPE OF PERMIT REQUESTED

CONSTRUCTION (X)	STARTING DATE August 2013	COMPLETION DATE August 2013	LAST PERMIT NUMBER	EMISSION SOURCE REFERENCE NUMBER 54-0047
OPERATING ()	DATE CONSTRUCTION STARTED	DATE COMPLETED	LAST PERMIT NUMBER	EMISSION SOURCE REFERENCE NUMBER
LOCATION TRANSFER ()	TRANSFER DATE		LAST PERMIT NUMBER	EMISSION SOURCE REFERENCE NUMBER

ADDRESS OF LAST LOCATION

8. DESCRIBE CHANGES THAT HAVE BEEN MADE TO THIS EQUIPMENT OR OPERATION SINCE THE LAST CONSTRUCTION OR OPERATING PERMIT APPLICATION.

The purpose of this Construction Permit Application is to request that this emission source be designated as an "Insignificant Activity" or "Insignificant Emission Unit" in accordance with 1200-3-9-.04(5)(a)(4).

9. SIGNATURE (APPLICATION MUST BE SIGNED BEFORE IT WILL BE PROCESSED) <i>Joe McCall</i>		DATE <i>7/29/2013</i>
10. SIGNER'S NAME (TYPE OR PRINT) Joe McCall	TITLE Quality Manager	PHONE WITH AREA CODE 423-745-6588 (ext 309)



NOT TO BE USED FOR TITLE V APPLICATIONS

EMISSION POINT DESCRIPTION

APC 22

PLEASE TYPE OR PRINT AND SUBMIT IN DUPLICATE FOR EACH STACK OR EMISSION POINT.
ATTACH TO THE PERMIT APPLICATION.

1. ORGANIZATION NAME Thomas & Betts Corporation					/// FOR	APC COMPANY POINT NO.	
2. EMISSION SOURCE NO. (FROM APPLICATION) 54-0047			FLOW DIAGRAM POINT NUMBER		/// APC	APC SEQUENCE NO.	
3. LOCATION: →	LATITUDE N 35° 26' 29"	LONGITUDE W 084° 37' 42"	UTM VERTICAL		UTM HORIZONTAL		
4. BRIEF EMISSION POINT DESCRIPTION (ATTACH A SKETCH IF APPROPRIATE): Fluidized Bed Die Cleaning Furnace					DISTANCE TO NEAREST PROPERTY LINE (FT) 200'		
COMPLETE LINES 5 AND 6 IF DIFFERENT FROM THAT ON THE PROCESS OR FUEL BURNING SOURCE DESCRIPTION (APC 21)							
5. NORMAL OPERATION: →	HOURS/DAY 24	DAYS/WEEK 7	WEEK/YEAR 52		DAYS/YEAR 365		
6. PERCENT ANNUAL THROUGHPUT: →	DEC.-FEB. 25	MARCH-MAY 25	JUNE-AUG. 25		SEPT.-NOV. 25		
7. STACK OR EMISSION POINT DATA: →	HEIGHT ABOVE GRADE (FT) 26'	DIAMETER (FT) 0.5'	TEMPERATURE (°F) 200°	% OF TIME OVER 125°F	DIRECTION OF EXIT (UP, DOWN OR HORIZONTAL)		
DATA AT EXIT CONDITIONS: →	FLOW (ACTUAL FT ³ /MIN) 3746 cfm	VELOCITY (FT/SEC) 318.0	MOISTURE (GRAINS/FT ³)		MOISTURE (PERCENT)		
DATA AT STANDARD CONDITIONS: →	FLOW (DRY STD. FT ³ /MIN) 3000 cfm	VELOCITY (FT/SEC) 254.6	MOISTURE (GRAINS/FT ³)		MOISTURE (PERCENT)		
8. AIR CONTAMINANTS	ACTUAL EMISSIONS				EMISSIONS* EST.	CONTROL DEVICES*	CONTROL EFFICIENCY%
	EMISSIONS (LBS/HR) AVERAGE MAXIMUM		CONCENTRATION	AVG. EMISSIONS (TONS/YR)			
PARTICULATES	0.11	0.11	** 0.00429	0.48	006	000	0%
SULFUR DIOXIDE			***				
CARBON MONOXIDE	0.65	0.65	PPM	2.85	006	000	0%
ORGANIC COMPOUNDS	0.21	0.21	PPM	0.92	006	000	0%
NITROGEN OXIDES			PPM				
FLUORIDES							
OTHER(SPECIFY)							
OTHER(SPECIFY)							


(OVER)

9. CHECK TYPES OF MONITORING AND RECORDING INSTRUMENTS THAT ARE ATTACHED:

OPACITY MONITOR (), SO2 MONITOR (), NOX MONITOR (), OTHER (SPECIFY IN COMMENTS) ()

10. COMMENTS

Emission estimates calculations based on emissions data from the Manufacturer Specifications

11. SIGNATURE**DATE**

7/29/2013

* REFER TO THE BACK OF THE PERMIT APPLICATION FORM FOR ESTIMATION METHOD AND CONTROL DEVICE CODES.

** EXIT GAS PARTICULATE CONCENTRATION UNITS: PROCESS — GRAINS/DRY STANDARD FT3 (70°F); WOOD FIRED BOILERS — GRAINS/DRY STANDARD FT3 (70°F); ALL OTHER BOILERS — LBS/MILLION BTU HEAT INPUT.

*** EXIT GAS SULFUR DIOXIDE CONCENTRATIONS UNITS: PROCESS — PPM BY VOLUME, DRY BASES; BOILERS — LBS/MILLION BTU HEAT INPUT.

THOMAS & BETTS

260 Dennis Street
Athens, TN 37303

Emissions Source No. 54-0047

Emissions Calculations

1. Process Description:

- a. Procedyne Model 2430 Fluidized Bed Die Cleaning Furnace
- b. Powered with 20 kW heating with maximum operating temperature of 1000°F
- c. Fumes are to be vented to the outside of the building
 - Vent Fan Air Flow = 3,000 (cfm)
 - Vent Diameter = 6"
 - Vent Height (from ground) = 26'

2. Emissions Estimate

- a. Maximum Potential Emissions (PM₁₀)

$$\text{PM}_{10} = 0.11 \text{ (lbs/hr)} \times 8,760 \text{ (hrs/yr)} / 2000 \text{ (lbs/Ton)} = 0.48 \text{ (TPY)}$$

$$\text{VOC} = 0.21 \text{ (lbs/hr)} \times 8,760 \text{ (hrs/yr)} / 2000 \text{ (lbs/Ton)} = 0.92 \text{ (TPY)}$$

ESTIMATED EMISSIONS

AVERAGE EMISSIONS OVER A 180 MINUTE TOTAL CYCLE¹

	scfm	lb/hr
Air (O2 + N2)	2,995	13,750
CO2	4.55	32
CO	0.15	0.65
Halogens	none	none
VOC	0.04	0.21
Total	3,000	13,783
Particulates		0.11
NOx	(2 ppmv)	
EXHAUST	(200°F)	

1. Based on cleaning metal parts with 20 oz. of polymer per load. The polymer does not contain halogens.
2. The system includes a PCF2430 Cleaning Furnace and an AB-25-1 Afterburner.

Thomas & Betts Corporation
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Athens, Tennessee 37303

Thomas&Betts

CERTIFIED MAIL™



7012 0470 0000 1421 6779

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