STATEMENT OF BASIS

For the issuance of Air Permit # 0698-AR-20 AFIN: 50-00006

1. PERMITTING AUTHORITY:

Arkansas Department of Environmental Quality 5301 Northshore Drive North Little Rock, Arkansas 72118-5317

2. APPLICANT:

Firestone Building Products Company, LLC 1406 Highway 371 North Prescott, Arkansas 71857

3. PERMIT WRITER:

Joseph Hurt

4. NAICS DESCRIPTION AND CODE:

NAICS Description:Rubber Product Manufacturing for Mechanical UseNAICS Code:326291

5. SUBMITTALS:

Date of Application	Type of Application	Short Description of Any Changes
	(New, Renewal, Modification,	That Would Be Considered New or
	Deminimis/Minor Mod, or	Modified Emissions
	Administrative Amendment)	
3/30/2015	Administrative Amendment	

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6. **REVIEWER'S NOTES**:

Firestone Building Products Company owns and operates a rubber roofing manufacturing facility located in Prescott, Arkansas. With this permitting action Firestone Building Products requested to correct a typographical error in the annual emissions for Methylene Chloride at SN-317. The permitted emission increases include 0.03 tpy of Methylene Chloride.

7. COMPLIANCE STATUS:

The following summarizes the current compliance of the facility including active/pending enforcement actions and recent compliance activities and issues.

The last inspection on May 2, 2013 indicated that the facility was complying with all conditions of the permit. The facility under estimated the VOC emissions from the devulcanization process, and should have been permitted as a source rather than an insignificant activity. This issue was referred to Enforcement with a previous permitting action.

8. PSD APPLICABILITY:

a) Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, etc.)? N

Ν

- b) Is the facility categorized as a major source for PSD?
- Single pollutant ≥ 100 tpy and on the list of 28 or single pollutant ≥ 250 tpy and not on list

If yes, explain why this permit modification is not PSD.

9. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
SN-503 & SN-504	There are no specific emission limits or pollutants identified, but the rules generally regulate HAPs	40 CFR Part 63, Subpart ZZZZ
SN-505 & SN-506	There are no specific emission limits or pollutants identified, but the rules generally regulate Criteria pollutants	40 CFR Part 60, Subpart IIII

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10. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

11. AMBIENT AIR EVALUATIONS:

- a) Reserved.
- b) Non-Criteria Pollutants:

The non-criteria pollutants listed below were evaluated. Based on Department procedures for review of non-criteria pollutants, emissions of all other non-criteria pollutants are below thresholds of concern.

1st Tier Screening (PAER)

Estimated hourly emissions from the following sources were compared to the Presumptively Acceptable Emission Rate (PAER) for each compound. The Department has deemed the PAER to be the product, in lb/hr, of 0.11 and the Threshold Limit Value (mg/m³), as listed by the American Conference of Governmental Industrial Hygienists (ACGIH).

Pollutant	TLV (mg/m ³)	$\begin{array}{l} \text{PAER (lb/hr)} = \\ 0.11 \times \text{TLV} \end{array}$	Proposed lb/hr	Pass?
Allyl Chloride	3.12	0.344	0.08	Yes
Hexane	176	19.3	2.31	Yes
Methanol	262	28.8	0.36	Yes
Methylene Chloride	173	19.1	1.13	Yes
Toluene	75.3	8.28	2.30	Yes
Beryllium	0.00005	5.50E-06	2.00E-06	Yes
Chromium	0.01	1.10E-03	4.00E-04	Yes

12. CALCULATIONS:

SN	Emission Factor Source	Emission Factor	Control Equipment	Control Equipment Efficiency	Comments
All PM Sources	Testing		None		PM/PM ₁₀ emissions from all particulate sources are based on testing data from the facility submitted on March 2, 1995 or based on process
03, 13, 14, 103, 104, 114, 202, 206, 207, 312, 313, 323A, 323B, 330	Source Specific Emission Factors	Varies			knowledge. VOC and HAP emission factors are based on stack testing conducted in October 2011.
08A – 08G	Source Specific Emission Factors	lb/hr: 0.2 VOC 0.01 Toluene 0.01 Allyl Chloride 0.01 Methylene Chloride			VOC and HAP emission factors are based on stack testing conducted in October 2011.
16A & 16B	AP-42: 1.4	lb/MMSCF: 7.6 PM/PM ₁₀ 0.6 SO ₂ 5.5 VOC 84 CO 100 NO _x			
315	Mass Balance	lb/gal 2.1 VOC No HAPs			Stack testing for primers in excess of 2.1 lb VOC/gal
316	Mass Balance	lb/gal 1.87 VOC 1.87 Toluene			Automated and Manual rolling operations
317, 318	Source Specific Emission Factors	Varies			VOC and HAP emission factors are based on stack testing conducted for SN- 203 in October 2011.

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SN	Emission Factor Source	Emission Factor	Control Equipment	Control Equipment Efficiency	Comments
500, 501	Mass Balance		None		Mass Balance
					assuming 100% of
					VOC in raw materials
					is emitted to
					atmosphere
502	Source	0.58 lb			
	Specific	PM/PM_{10}			
	Emission	Per mandrel			
	Factor	cleaned			
503 - 506	AP-42,	lb/hp-hr:			Emergency diesel fire
	Table 3.3-1	2.2E-03 PM			pump, emergency
		2.05E-03 SO ₂			generator, and two
		2.47E-03 VOC			(2) diesel operated air
		6.68E-03 CO			compressors
		0.031 NO _x			
700	Source	lb/lb rubber:			A single test was
	Specific	0.13 PM			conducted on
	Emission	0.0015 VOC			September 26, 2013.
	Factors				Maximum throughput
					is 3,000 pounds of
					EPDM per hour and
					15,600,000 pounds
					per year

13. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
16A & 16B	PM ₁₀ NO _x CO	5 or 201A 7E 10	Within 180 days of issuance of Permit 0689-AR-13, and annually thereafter. After 2 successful tests, the permittee may test once every 5 years.	Verify emissions
16A or 16B	Hexane	18	Within 180 days of issuance of Permit 0689-AR-13.	Verify Hexane emissions
315	VOC	25A & 204	Within 180 days of a new primer, or after an increase in VOC content of an existing primer.	Verify VOC emissions
03	VOC	25A	Once every 5 years.	To verify

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SN	Pollutants	Test Method	Test Interval	Justification
	HAPs	SW-846 Method 0031 (modified), and/or EPA TO-15 (modified)	The last testing was conducted in October 2011.	site specific values.
08A - 08G	VOC HAPs	25A EPA TO-15	Once every 5 years. The last testing was conducted in October 2011.	
700	VOC	25A	No later than September 2014, and once every 60 months thereafter. The last test was conducted on September 26, 2013.	

14. MONITORING OR CEMS:

The permittee must monitor the following parameters with CEMS or other monitoring equipment (temperature, pressure differential, etc.)

SN	Parameter or Pollutant to be Monitored	Method (CEM, Pressure Gauge, etc.)	Frequency	Report (Y/N)
		N/A		

15. RECORDKEEPING REQUIREMENTS:

The following are items (such as throughput, fuel usage, VOC content, etc.) that must be tracked and recorded.

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
500	Cold Cleaning Solvent Usage	11.0 gal/month 130 gal/year	Monthly	No
500	Cold Cleaning Solvent VOC Content	8.9 lb/gal	Monthly	No
501	Inks and Cleaners Usage	370 gal/year	Monthly	No
501	Inks and Cleaners VOC Content	7.0 lb/gal	Monthly	No

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
	Seam Tape Primer Machine Primer Formulation Limits	2.1 lb/gal (VOC content) or not to exceed 6.3 lb/hr No HAPs	Monthly	No
315	Primer Usage	26,280 gal per 12-month period	Monthly	No
	MSDS	Kept on site and updated annually	Continuously	No
	VOC emissions	27.6 tpy	Monthly	No
03, 103	Total Rubber Production Limit	613 MM pounds per consecutive 12-month period	Monthly	No
203	Rubber Production	70 MM lb/year	Monthly	No
16A & 16B	Boiler fuel	Natural gas only	Continuously	No
	Carbon Black usage		Monthly	No
	Pigment usage		Monthly	No
	Clay usage	As specified in the confidential application dated December 2, 2011	Monthly	No
Plantwide	EPDM usage		Monthly	No
	Pigment Oil usage		Monthly	No
	Mineral Oil usage		Monthly	No
	MSDS	Kept on site and updated annually	Continuously	No
316	Primer Pre-Tape Formulation Limit	1.87 lb/gal VOC 1.87 lb/gal Toluene	Monthly	No
510	Primer Pre-Tape usage	4,630 gallons per consecutive 12-month	Monthly	No
317 & 318	White tape compound	17,520,000 pounds per consecutive 12-month period	Monthly	No
503 & 504	Hours of operation (each)	100 hours per consecutive 12-month period	Monthly	No
505	Hours of operation	300 hours per calendar year	Monthly	No
506	Hours of operation	300 hours per calendar year	Monthly	No

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SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
505 & 506	Hours of operation	Anything in excess of 100 hours per calendar year must demonstrate that the engine still qualifies as an emergency engine as outlined in §60.4211(f)	Monthly	No
700	EPDM processed	15,600,000 pounds per consecutive 12-month period	Monthly	No

16. OPACITY:

SN	Opacity	Justification for limit	Compliance Mechanism
13, 206, 207, 323A, 323B, 700	20 %	Department Guidance	Observation
01A, 01B, 02A, 02B, 03, 07, 15, 16A, 16B, 17A, 17B, 18A, 18B, 101A, 101B, 102 - 104, 107, 116, 118, 120, 201, 202, 205, 301A, 302 - 308, 309A, 309B, 310 - 312, 317, 318, 502	5 %	Department Guidance	Observation
503 - 506	20 %	Department Guidance	Annual VE & Daily VE when either source is in operation for more than 24 hours

17. DELETED CONDITIONS:

Former SC	Justification for removal				
	N/A				
10 CDOI	ID A INCICNIEICANT ACTIVITIES.				

18. GROUP A INSIGNIFICANT ACTIVITIES:

Source Name	Group A		Emissions (tpy)					
	Category	PM/PM ₁₀	SO_2	VOC	СО	NO _x	HAPs	
							Single	Total
Seam Tape Testing Lab	5			0.19			0.095	0.19
Vent								- · ·

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	Group A Category	Emissions (tpy)						
Source Name		PM/PM ₁₀	SO_2	VOC	CO	NO _x	HAPs	
							Single	Total
Laboratory Oven Vent	5	0.0005		0.14			0.07	0.07
Curing Cooling Tower	13	0.71						
Chiller Cooling Tower	13	0.75						
Process Cooling Tower	13	0.44						
Cooling Tower for Mixtruder	13	0.44						
Day Tanks for SN-317	13			1.09E-4			1.09E-4	1.09E-4
Comerio Line Shredder	13	0.1		0.1			0.06	0.11
Slab Dip/Soap Tanks	13	1.05						

19. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

List all active permits voided/superseded/subsumed by the issuance of this permit.

Per	mit #
0698-	AR-19

APPENDIX A – EMISSION CHANGES AND FEE CALCULATION

Fee Calculation for Minor Source

Facility Name: Firestone Building Products Company, LLC Permit Number: 0698-AR-20 AFIN: 50-00006

			Old Permit	New Permit
\$/ton factor	23.89	Permit Predominant Air Contaminant	72.2	72.2
Minimum Fee \$	400	Net Predominant Air Contaminant Increase	0	
Minimum Initial Fee \$	500			
		Permit Fee \$	400	

Check if Administrative Amendment

Pollutant (tpy)	Old Permit	New Permit	Change
PM	52	52	0
PM_{10}	52	52	0
SO ₂	0.8	0.8	0
VOC	72.2	72.2	0
СО	56	56	0
NO _X	69.2	69.2	0
Allyl Chloride	0.03	0.03	0
Hexane	9.62	9.62	0
Methanol	1.33	1.33	0
Methylene Chloride	4.41	4.44	0.03
Toluene	4.95	4.95	0
Beryllium	0.02	0.02	0
Chromium	0.02	0.02	0

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