STATEMENT OF BASIS

For the issuance of Draft Air Permit # 0957-AOP-R9 AFIN: 46-00005

1. PERMITTING AUTHORITY:

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

2. APPLICANT:

The Cooper Tire Company 3500 East Washington Road Texarkana, Arkansas 71854

3. PERMIT WRITER:

Charles Hurt, P.E.

4. PROCESS DESCRIPTION AND NAICS CODE:

NAICS Description: Rubber Product Manufacturing for Mechanical Use

NAICS Code: 326291

5. SUBMITTALS:

9/28/2010

6. REVIEWER'S NOTES:

The Cooper Tire Company (AFIN: 46-00005) operates a tire manufacturing facility located at 3500 East Washington Road, Texarkana, AR 71854. Cooper submitted a Title V renewal application with no modifications requested and a minor modification application to allow the use of a repair paint with a higher VOC content. PM/PM₁₀ limits decreased by 0.3 tpy and individual HAP limits were revised due to differences in rounding methods between permit revisions. The maximum increase in potential VOC emissions due to the change in coatings was 0.13 tpy. Cooper did not request to increase the plantwide VOC limit of 249.0 tpy.

7. COMPLIANCE STATUS:

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

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The facility was last inspected on January 19, 2010 and determined to be operating in accordance with Permit No. 957-AOP-R8.

8. PSD APPLICABILITY:

- a. Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, etc.)?
- b. Is the facility categorized as a major source for PSD? N

 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)		
GR-03 & GR-04	All Listed	NSPS Subpart BBB		
SN-89	Opacity and SO ₂	NSPS Subpart Dc		

10. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

11. MODELING:

Criteria Pollutants

Examination of the source type, location, plot plan, land use, emission parameters, and other available information indicate that modeling is not warranted at this time for carbon monoxide.

Pollutant	Emission Rate (lb/hr)	NAAQS Standard (μg/m³)	Averaging Time	Highest Concentration (µg/m³)	% of NAAQS
PM_{10}	20.9	150	24-Hour	129.74*	86.5
		80	Annual	10.75	13.5
SO_2	63.3	1300	3-Hour	191.7	14.8
		365	24-Hour	71.98	19.8
NO_x	31.5	100	Annual	6.58	6.58
Pb	0.00835	0.15	Rolling 3-month Period over 3 years (not to be exceeded in any 3 month period)	0.07752**	51.7

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Includes 2008 Shreveport, LA background concentration.

** Model on a 24-hour basis

Non-Criteria Pollutants:

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	PAER (lb/hr) = 0.11 × TLV	Proposed	Pass?
1 1 2 2 T-4	$\frac{(\text{mg/m}^3)}{6.07}$	**************************************	lb/hr	D A G
1,1,2,2-Tetrachloroethane	6.87	0.76	0.02	PASS
1,1-Dichloroethene	19.8	2.18	0.04	PASS
1,2-Dibromo-3-Chloropropane	9.66	1.06	0.03	PASS
1,3-Butadiene	4.42	0.49	0.05	PASS
2,2,4-Trimethyl pentane	1401.5	154.2	0.16	PASS
Acetophenone	49.1	5.41	0.27	PASS
Acrylonitrile	4.34	0.48	0.01	PASS
Aniline	7.54	0.83	0.72	PASS
Benzene	1.60	0.18	0.12	PASS
Benzyl Chloride	5.18	0.57	0.01	PASS
Bis(2-Ethylhexyl)phthalate	5.00	0.55	0.19	PASS
Carbonyl Sulfide	245.7	27.0	0.21	PASS
Ethyl Acrylate	20.5	2.25	0.01	PASS
Ethyl Benzene	434.2	47.8	1.37	PASS
Glycol Ethers	100.0	11.0	0.68	PASS
Hexane	176.2	19.4	1.09	PASS
Methanol	262.1	28.8	0.01	PASS
Methyl Isobutyl Ketone	81.9	9.01	4.05	PASS
Methylene Chloride	173.7	19.1	1.49	PASS
Phenol	19.2	2.12	0.11	PASS
Selenium	0.200	0.02	0.01	PASS
Styrene	85.2	9.37	0.76	PASS
Tetrachloroethene	169.5	18.6	0.42	PASS
Toluene	75.4	8.29	2.46	PASS
Xylene	434.2	47.8	0.25	PASS
Acrolein	0.229	0.03	0.06	Model
Arsenic	0.010	0.0011	0.01	Model
Beryllium	0.00005	5.50E-06	5.13E-04	Model
Cadmium	0.002	2.20E-04	0.04	Model
Carbon Disulfide	3.11	0.34	1.96	Model

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Pollutant	TLV (mg/m ³)	PAER (lb/hr) = 0.11 × TLV	Proposed lb/hr	Pass?
Formaldehyde	0.368	0.04	0.07	Model
Hexachlorobutadiene	0.021	0.0023	0.03	Model
Lead	0.050	0.0055	8.35E-03	Model
Mercury	0.010	0.0011	0.01	Model

^{2&}lt;sup>nd</sup> Tier Screening (PAIL)

AERMOD air dispersion modeling was performed on the estimated hourly emissions from the following sources, in order to predict ambient concentrations beyond the property boundary. The Presumptively Acceptable Impact Level (PAIL) for each compound has been deemed by the Department to be one one-hundredth of the Threshold Limit Value as listed by the ACGIH.

Pollutant	PAIL $(\mu g/m^3) = 1/100$ of Threshold Limit Value	Modeled Concentration (μg/m³)	Pass?
Acrolein	2.29	0.52	PASS
Arsenic	0.10	0.01	PASS
Beryllium	5.00E-04	4.60E-04	PASS
Cadmium	0.02	2.65E-03	PASS
Carbon Disulfide	31.14	13.98	PASS
Formaldehyde	3.68	0.08	PASS
Hexachlorobutadiene	0.21	0.1996	PASS
Lead	0.50	0.08	PASS
Mercury	0.10	0.01	PASS

Other Modeling:

Odor:

Examination of the source type, location, plot plan, land use, emission parameters, and other available information indicate that modeling is not warranted at this time for hydrogen sulfide.

12. CALCULATIONS:

SN	Emission Factor Source	Emission Factor and units	Control Equipment Type	Control Equipment Efficiency	Comments
GR-01	RMA	4.00E-04 lb PM/lb rubber 3.86E-05 lb VOC/lb rubber	Baghouse	95%	RMA is the Rubber Manufacturers Association.
GR-02	RMA	4.00E-04 lb PM /lb rubber	Baghouse	95%	
GR-02	RMA	4.00E-04 lb PM /lb rubber	Wet Scrubber	95%	

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	Emission		Control	Control	
SN	Factor	Emission Factor and	Equipment	Equipment	Comments
511	Source	units	Туре	Efficiency	Comments
	· · · · · · · · · · · · · · · · · · ·	PM: 8% solids	Type	Efficiency	
GR-03	MSDS NSPS	10% overspray VOC: 7.5 gr/tread	None	None	
GR-04	Stack Test	PM: 0.0015 lb/tire VOC: 2 gr/tire	None	None	
GR-05	RMA	PM: 0.05 lb/tire VOC: 1.59E-2 lb/lb rubber	Baghouse	95.8%	
GR-06	RMA	PM: 0.10 lb/tire VOC: 1.59E-2 lb/lb rubber	Baghouse	99.2%	
GR-08	MSDS	VOC: 6.52 lb/gal ink 9.11 lb/gal thinner	None	None	
SN-07	AP-42 11.24-2	PM: 0.12 lb/ton	Baghouse	95%	
SN-53	AP-42	Standard Natural Gas Standard Fuel Oil	None	None	
SN-55	AP-42	Standard Natural Gas Standard Fuel Oil	None	None	
SN-67	MSDS	VOC: 6.26 lb/gal (solvent) 6.28 lb/gal (cement)	None	None	
SN-68 SN-106	MSDS	VOC: 6.26 lb/gal (solvent) 0.055 lb/gal (paint)	None	None	
SN-89	AP-42 & Testing	Standard Natural Gas Standard Fuel Oil 99.7 MMBTU/hr 8760 hrs/yr (NG) 6304 hrs/yr (FO) 95.4 MCF/hr (NG) Nat. Gas Factors 10 lb PM/MMCF 1.2 lb SO ₂ /MMCF 10 lb VOC/MMCF 84 lb CO/MMCF 73.2 lb NO _x /MMCF Fuel Oil Factors: 6 lb PM/kgal 142(.03) lb SO ₂ /kgal 0.75 lb VOC/kgal 25 lb CO/kgal 22.4 lb NO _x /kgal	None	None	
SN-108	RMA	30 ton/hr throughput 70% of rubber, milled 50% cmpd #6a mixed 1.1E-4 lbcmpd#2/lbrubber 0.00371 lbcmpd#6a/lbrubber	None	None	
SN-109	RMA	VOC: 4.2E-5 lb/lb rubber	None	None	
SN-110	RMA	30 ton/hr thurput 40% of rubber, calendered 5.59E-5 lbcmpd#2/lbrubber	None	None	
SN-111	RMA	VOC: 3.37E-4 lb/lb rubber	None	None	
SN-121	MSDS	Various	None	None	

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13. TESTING REQUIREMENTS:

This permit does not require stack testing.

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)
GR-02	Pressure Drop	Pressure Gauge and Sensors	continuously	N

15. RECORDKEEPING REQUIREMENTS:

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

Source	Recorded Item	Limit (as established in permit)	Frequency	Report (Y/N)
GR-01, SN-109, SN-111	Final Rubber Processed (Mixed & Imported)	220,000 tons/yr	monthly	Y
GR-03, GR-04, GR-05, GR-06	Treads/Tires Processed	17,000,000 treads/yr	monthly	Y
GR-03	VOC Emissions per Tread	7.5 grams/tread/month	Monthly	Y
GK-03	VOC Content	Listed in Table	Annually	N
	VOC Emissions of Inside Paint	1.0 grams/tread/month	Monthly	Y
GR-04	VOC Emissions of Outside Paint	1.0 grams/tread/month	Monthly	Y
	Ink Throughput	800 gallons/yr	Monthly	Y
GR-08	Solvent Throughput	100 gallons/yr	Monthly	Y
	Ink/Thinner VOC Content	Listed in Table	Annually	N
SN-53	Fuel Oil Throughput	1,388,475 gallons/yr	Monthly, as used	Y
	Sulfur Content	0.3 Weight %	As needed	N
SN-55	Fuel Oil Throughput	2,766,950 gallons/yr	Monthly, as used	Y
	Sulfur Content	0.3 Weight %	As needed	N
SN-59	Carbon Black	80,000 Tons	Monthly	Y
SN-67	Cement	650 Gallons	Monthly	Y
	Solvent	2,000 Gallons	Monthly	Y

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Source	Recorded Item	Limit (as established in permit)	Frequency	Report (Y/N)
	Solvent & Cement VOC Content	Listed in Table	Monthly	N
SN-68,	Solvent	650 Gallons	Monthly	Y
SN-106	Solvent & Paint VOC Content	Listed in Table	Annually	N
SN-89	Fuel Oil Throughput	1,695,103 gallons/yr	Monthly, as used	Y
	Sulfur Content	0.3 Weight %	As Needed	N
SN-121	All HAP containing material usage	1.17 tpy Glycol ethers 0.06 tpy Toluene 0.09 tpy Xylene	Monthly	Y
Plant	All VOC containing material usage	249 tpy VOC	Monthly	Y
	MSDS (VOC & HAP Contents)		As needed	N

16. OPACITY:

SN	Opacity %	Justification (NSPS limit, Dept. Guidance, etc)	Compliance Mechanism
GR-01 through GR-06	20	Dept Guidance	EPA Method 9
GR-02 (SN-61 only)	5	Dept Guidance – Wet Scrubber Control	CPMS
07	20	Dept Guidance	EPA Method 9
53	5	Dept Guidance-NG	EPA Method 9 Burn only Nat. Gas
53	20	Dept Guidance Fuel Oil	E[Regulation No. 19 §19.705, A.C.A. §8-4- 203 as referenced by §8-4-304 and §8-4-311, and CFR Part 52, Subpart E]PA Method 9
55	5	Dept Guidance –NG	EPA Method 9 Burn only Nat. Gas
55	20	Dept Guidance Fuel Oil	EPA Method 9
89	5	Dept Guidance - NG	EPA Method 9
89	20	NSPS Dc – Fuel Oil	Continuous - CEMS

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17. DELETED CONDITIONS:

No condition was deleted due to this permit renewal.

18. GROUP A INSIGNIFICANT ACTIVITIES

	Group A		Emissio	ns (tpy)	
Source Name	Category	VOC	PM ₁₀	HAPs	
		100	1 14110	Single	Total
Two (2) 6,000 gallon Naphthenic Petroleum Oil Storage Tanks #1 and #4	0.074				
1,000 gallon No. 2 Fuel Oil Day Tank	A-3	<0.01			
10,000 gallon Naphthalic Petroleum Oil Storage Tank #6	A-3	0.069			
Three (3) 10,000 gallon Aromatic Petroleum Hydrocarbon Storage Tanks #8, #9, and #10	A-3	<0.01			
10,000 gallon Naphthenic Process Oil Blend Tank #29	A-3	<0.01			
Dust Ring Lube Oil Tank #12	A-3	0.02			
Grou	p A-3 Total	0.173			
Quality Control and Materials testing Lab	A-5	0.02			<0.01
Group	A-15 Total	0.02			<0.01
White Side Wall Protective Painters	A-9	0.25	0.27		0.061
Mold and Bladder Lube Application	A-9	<0.01			<0.01
Group A-19 Total		0.26	0.27		<0.01
Two (2) 30,000 gallon Fuel Oil Storage Tanks A-13		<0	0.01		
Group	A-13 Total	<0	0.01		

19. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

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

Permit #	
0957-AOP-R8	

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20. CONCURRENCE BY:

The following supervisor concurs with the permitting decision.

Phillip Murphy, P.E.

Engineering Supervisor, Air Division



Fee Calculation for Major Source

Revised 03-01-10

Facility Name: Cooper Tire ⁹ ermit Number: 957-AOP-R9

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\$/ton factor	22.07	Annual Chargeable Emissions (tpy)	539.86415
Permit Type	Minor Mod	Permit Fee \$	500
Minor Modification Fee \$	500		
Minimum Modification Fee \$	1000		
Renewal with Minor Modification \$	500		
Check if Facility Holds an Active Minor Source or Minor	years.		
Source General Permit	į		
If Hold Active Permit, Amt of Last Annual Air Permit Invoice \$	0		
Total Permit Fee Chargeable Emissions (tpy)	0.34415		
Initial Title V Permit Fee Chargeable Emissions (tpy)			

HAPs not included in VOC or PM:

Chlorine, Hydrazine, HCl, HF, Methyl Chloroform, Methylene Chloride, Phosphine, Tetrachloroethylene, Titanium Tetrachloride

Air Contaminants:

All air contaminants are chargeable unless they are included in other totals (e.g., H2SO4 in condensible PM, H2S in TRS, etc.)

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
РМ	V	49.7	49.4	-0.3	-0.3	49.4
PM_{10}	Г	49.7	49.4	-0.3		
SO_2	Ϝ	125.5	125.5	0	0	125.5
voc	V	249	249	0	0	249
со	r	84.6	84.6	0		
NO _X	V	108.2	108.2	0	0	108.2
Lead Compounds	Г	0.01729	0.044629	0.027339		
1,1,2,2-Tetrachloroethane	P	0.05	0.05	0		
1,1-Dichloroethene	1	0.13	0.28	0.15		
1,2-Dibromo-3-Chloropropane	T	0.1	0.1	0		
1,3-Butadiene	Γ	0.18	0.22255	0.04255		
1,4-Dibromobenzene	ľ	0	0.00032	0.00032		
Acetophenone	Г	0.89	1.008918	0.118918		
Acrolein	Г	0.17	0.18688	0.01688		
Aniline	James .	2.3	2.8383	0.5383		
Arsenic Compounds	Г	0.01	0.00174	-0.00826		.
Benzene	Г	0.26	0.26606	0.00606		
Beryllium Compounds	Г	0.001	0.00124	0.00024		
bis(2-Ethylhexyl)phthalate	r	0.59	0.58293	-0.00707	1	

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
Cadmium Compounds	Г	0.04	0.003042	-0.036958		
Carbon Disulfide	Γ	7.37	7.27202	-0.09798		
Carbonyl Sulfide	Γ	0.82	0.79	-0.03		
Ethyl Acrylate	Γ	0.03	0.03	0		
Ethylbenzene	Г	5.77	4.92019	-0.84981	,	
Formaldehyde	Γ	0.14	0.14	0		
Glycol Ethers	Г	2.27	2.27	0		
Hexachlorobutadiene	Γ	0.1	0.1	0		
Hexane	Г	4.19	4.33	0.14		
Hydroquinone	Г	0	0.22329	0.22329		
Isooctane	厂	0.47	0.61	0.14		
Mercury Compounds	Γ	0.01	0.00136	-0.00864		
Methanol		0.01	0.01	0		
Methylene Chloride	▽	5.48	6.03415	0.55415	0.55415	6.03415
MIBK (4-Methyl-2-Pentanone)	Γ	16.57	16.33	-0.24		
Phenol	Г	0.28	0.30726	0.02726		
Selenium Compounds	r	0.01	0.00617	-0.00383		
Styrene		2.68	2.6516	-0.0284		
Tetrachloroethene	□	1.64	1.73	0.09	0.09	1.73
Toluene	г	9.01	9.55	0.54		
Xylene	Γ	12.28	14.87032	2.59032		