

**Iowa Department of Natural Resources
Title V Operating Permit**

Name of Permitted Facility: Titan Tire Corporation

**Facility Location: 2345 East Market Street
Des Moines, Iowa 50317**

Air Quality Operating Permit Number: 02-TV-013R3

Expiration Date: April 19, 2027

Permit Renewal Application Deadline: October 19, 2026

EIQ Number: 92-6802

Facility File Number: 77-01-003

Responsible Official

Name: Mr. Justin Huitt

Title: Operations Manager

**Mailing Address: 2345 East Market Street
Des Moines, Iowa 50317**

Phone #: (515) 265-9281

Permit Contact Person for the Facility

Name: Mr. Brian A. Mills

Title: Environmental Manager

**Mailing Address: 2345 East Market Street
Des Moines, Iowa 50317**

Phone #: (515) 265-9363

This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources



Marnie Stein, Supervisor of Air Operating Permits Section

April 20, 2022

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- **40 CFR Part 60: Subpart BBB: Standards of Performance for the Rubber Tire Manufacturing Industry**
- **40 CFR 60: Subpart JJJJ-Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**
- **40 CFR Part 63: Subpart XXXX: National Emission Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing; Final Rule & Technical Correction**
- **40 CFR 63, Subpart ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**
- **40 CFR Part 63, Subpart DDDDD: National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters**

Abbreviations

acfm.....	actual cubic feet per minute
AERMOD.....	AMS/EPA Regulatory Model
AQD.....	Polk County Public Works- Air Quality Division
CAS.....	Chemical Abstract Service Registry
CE.....	Control Equipment
CEM.....	Continuous Emission Monitor
CFR.....	Code of Federal Regulation
DNR.....	Iowa Department of Natural Resources
°F.....	degrees Fahrenheit
EIQ.....	Emissions Inventory Questionnaire
EP.....	Emission Point
EU.....	Emission Unit
gr./dscf.....	grains per dry standard cubic foot
IAC.....	Iowa Administrative Code
MACT.....	Maximum Achievable Control Technology
µg/m ³	Micrograms per Cubic Meter
MM BTU/ Hr.....	Million British Thermal Units per Hour
MSDS.....	Material Safety Data Sheet(s)
MVAC.....	Motor Vehicle Air Conditioner
NAICS.....	North American Industry Classification System
NESHAP.....	National Emission Standards for Hazardous Air Pollutants
NSPS.....	New Source Performance Standard
ppmv.....	parts per million by volume
psia.....	pounds per square inch absolute
lb./hr.....	pounds per hour
lb./MMBtu.....	pounds per Million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
sdcfm.....	standard dry cubic feet per minute
SIC.....	Standard Industrial Classification
TPY.....	Tons Per Year
USEPA.....	United States Environmental Protection Agency
VCU.....	Vapor Combustion Unit

Pollutants

PM.....	Particulate Matter
PM ₁₀	Particulate Matter ten microns or less in diameter
PM _{2.5}	Particulate Matter 2.5 microns or less in diameter
SO ₂	Sulfur dioxide
NO _x	Nitrogen Oxides
VOC(s).....	Volatile Organic Compound(s)
CO.....	Carbon Monoxide
HAP(s).....	Hazardous Air Pollutant(s)

I. Facility Description and Equipment List

Facility Name: **Titan Tire Corporation**

Permit Number: 02-TV-013R3

Facility Description: Tire and Inner Tubes Manufacturing, SIC 3011

Tire Manufacturing (except Retreading), NAICS 326211

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
1	122	Carbon Black Loading	0578 Modified
	122A	Chemical Loading	
	122B	Automatic Weighing Chemicals	
	122C	Charging Chute	
	122D	Carbon Black Transfer	
	122E	Rubber Mixing	
	123	Pelletizing	
	123A	Pelletizing	
	123B	Pelletizing	
	124	Pellet Dip/ Coating	
2	002	#27 Banbury Rotary Drum Coolers	Grandfathered
	125A	Pellet Dip Mixing (Rubber PM ₁₀)	
3	121	#27 Banbury: Hand weighing Chemicals	Grandfathered
5	111	#4 Banbury Mixer	3502
6	127	#6 Banbury	3503
7	114	Hand weighing Chemicals	0619
	116	Rubber Mixing (Chemical Load)	
	116	Rubber Mixing	
	116A	Automatic Weighing Chemicals	
	116B	Charging Chute	
	116C	Rubber Milling (No Chemical)	
	116R	Rubber Milling, 84" Mill	
	117	Rubber Shaping Mill: 36" Mill	
	119	Slab Dip Spraying	
	119A	Slab Dip Application	
127D	Rubber Milling, 36" Mill		
9	12	60 kW Kohler Model 60RZ282 Natural Gas Emergency Generator	2156
10	EG1	Kohler Model 180REZXB Emergency Generator, with Catalytic Converter	3593
13	317	Ferrel Tandem Calender	2312
17	405	Bead Dipping Tank	Grandfathered

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
17A	406	Bead Dip Drying Station	Grandfathered
24	567	Bias Tire Curing Presses (21) (#544-549, 551-565)	Grandfathered
	607	Curing Press, Bag-O-Matic 75" (1), Bldg. 8 (#566)	0818A
	608	Curing Press, McNeil Akron 100" (1), Bldg. 8	0736 Modified
	608A	Radial Tractor Tire Curing Presses (6) (#538- 543)	Grandfathered
25	603	Curing Presses, McNeil /NRM, Bldg. 2, (3) 55" Dual (#667- 672), (4) 60" Dual (#649- 656)	603
	603A	Curing Presses, (2) 63.5" McNeil Dual Cavity, Bldg. 2 (#659- 662)	603A
	604	Curing Press, NRM 62" Dual, Bldg. 2, (#665- 666)	604
	604A	Curing Press, NRM 62" Dual, Bldg. 2, (#657- 658)	604A
26	606	Tire Curing Presses, (8) McNeil Dual (# 615- 630), (27) McNeil Single (#502- 528)	1342
	606S	Tire Curing Press, McNeil (1- 55") Dual Cavity, (#613- 614)	
	606A	Tire Curing Presses (5), McNeil, (#529- 532, 535)	
	606B	Tire Curing Presses (2), McNeil Single, (#536- 537)	
27	Multiple	Tire Curing Presses (See Emission Point Specific Conditions for detailed list of equipment)	0855 Modified #29
28	711	Tractor Tire Buffing and Repair Booth, Bldg. 12	0911 Modified
29	712	Passenger Tire Buffing and Repair Station, Bldg. 22	2260
34C	554	Tractor Tire Repair Booth, Bldg. 18	1032 Modified #3
35	913, 913A-D	Tire Mold Repair Welding Stations	Grandfathered
36	826	Tire Mold Cleaning Station	0919
38	820	Boiler #1, 18.39 MM BTU/ Hr.	Grandfathered
	821	Boiler #2, 18.39 MM BTU/ Hr.	Grandfathered
39	822	Boiler #3, 43.88 MM BTU/ Hr.	Grandfathered
40	823	Boiler #4, 31.34 MM BTU/ Hr.	Grandfathered
41	007	Slab Dip Mixer 1	Grandfathered
	007	Slab Dip Mixer 2	Grandfathered
45	221	#8 Rubber Extruder	Grandfathered
47	001	Carbon Black Unloading Station	Grandfathered
50	825	Rubber Hot Rooms (5), each with 150,000 BTU Natural Gas Furnaces (5)	0916
52	307-313	Adamson Z Calendar: Breakdown, Holding & Feed Mills & 4 Roll Z Calendar	Grandfathered
	401	Royle 2 Bead Former #1	3500 Modified
	408	NRM 3-1/2 Vanguard Bead Former #3	3500 Modified
	500	NRM Model 89 Tire Assembly Machine	2081 Modified #6
	501	Cooper Tire Model 80 Tire Assembly Machine	
	502	Cooper Tire Conversion Tire Assembly Machine	
	503	Han Kook 3255 Tire Assembly Machine	
	504	NRM 80S Tire Assembly Machine	
505	NRM 80S Tire Assembly Machine		

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
52 (continued)	506	NRM 80S Tire Assembly Machine	2081 Modified #6
	507	NRM 80S Tire Assembly Machine	
	508	NRM 80S Tire Assembly Machine	
	509	NRM 80S Tire Assembly Machine	
	510	NRM 80S Tire Assembly Machine	
	511	NRM 610 Tire Assembly Machine	
	512	NRM 89 Tire Assembly Machine	
	513	NRM 89 Tire Assembly Machine	
	514	NRM 89 Tire Assembly Machine	
	515	NRM 88 Tire Assembly Machine	
	516	NRM 88 Tire Assembly Machine	
	517	NRM 88 Tire Assembly Machine	
	518	NRM 88 Tire Assembly Machine	
	519	Cooper Tire Conversion Tire Assembly Machine	
	520	RRR Tire Assembly Machine	
	524	NRM C1519 Tire Assembly Machine	
	525	NRM C1519 Tire Assembly Machine	
	526	NRM 80W Tire Assembly Machine	
	527	NRM 80W Tire Assembly Machine	
	550	NRM 61 Tire Assembly Machine	
	564	NRM 95 Tire Assembly Machine	
	568	NRM 610 Tire Assembly Machine	
	569	NRM 610 Tire Assembly Machine	
	570	NRM 95 Tire Assembly Machine	
	574	NRM 95 Tire Assembly Machine	
	575	NRM 95 Tire Assembly Machine	
	576	NRM 95 Tire Assembly Machine	
	577	NRM 95 Tire Assembly Machine	
	578	Han Kook 3255 Tire Assembly Machine	
	582	ASM Model 114 Tire Assembly Machine	
	594	ASM Model 114 Tire Assembly Machine	
	728	NRM 401 Tire Assembly Machine	
729	NRM 401 Tire Assembly Machine		
587	Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#927/928)		
589	Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#929/930)		
595	Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#935/936)		
599	Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#939/940)		
600	Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth		
54	534	Tire Assembly Machine, NRM Model 61 (#406)	Grandfathered
	535	Tire Assembly Machine, NRM Model 61 (#401)	
	536	Tire Assembly Machine, NRM Model 61 (#402)	

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
54 (continued)	538	Tire Assembly Machine, NRM Model 61 (#403)	Grandfathered
	540	Tire Assembly Machine, NRM Model 61 (#404)	
	541	Tire Assembly Machine, NRM Model 61 (#415)	
	545	Tire Assembly Machine, NRM Model 61 (#409)	
	546	Tire Assembly Machine, NRM Model 61 (#411)	
	547	Tire Assembly Machine, NRM Model 61 (#414)	
	548	Tire Assembly Machine, NRM Model 61 (#408)	
	549	Tire Assembly Machine, NRM Model 61 (#412)	
	565	Tire Assembly Machine, NRM Model 61 (#405)	
	566A	Tire Assembly Machine, NRM Model 61 (#416)	
	573	Tire Assembly Machine, NRM Model 61C (#413)	
	537	Tire Assembly Machine, Akron Standard Model 336 (#420)	1417
	542	Tire Assembly System with Extruder (1), Stripwinders (2), and Spraybooth (1)	2131
	543	Tire Assembly System with Extruder (1), Stripwinders (2), and Spraybooth (1)	2131
	552	Tire Assembly System with Extruder (1), Stripwinders (2), and Spraybooth (1)	2131
	553	Tire Assembly Machine, NMR Model RRR	3691
566	Tire Assembly Machine, NRM Model 610 (#418)	1414	
55	126	Rubber Pellet Storage	Grandfathered
56	402	Bead Former #5	1403 Modified
	403	Bead Former #6	
	404	Solvent Wash of Bead Filler	
58	316	(3) Wasik Associates, Inc. 400 kV, 100 mA Electron Beam Scanners	2064
62	908	15,000 Gallon Fixed Roof Dustene Storage Tank	1420
63	907	15,000 Gallon Fixed Roof Hardite Storage Tank	1422
64	528	Tire Assembly Machine	2015 Modified #9
	529	Tire Assembly Machine	
	530	Tire Assembly Machine	
	531	Tire Assembly Machine	
	532	Tire Assembly Machine	
	533	Tire Assembly Machine	

Emission Point Number	Emission Unit Number	Emission Unit Description	Polk County Construction Permit Number
64 (continued)	560	Tire Assembly System with: 1-Extruder 2-Stripwinders 1-Spray Booth	2015 Modified #9
	571	Tire Assembly Machine	
	597	Tire Assembly System with: 1-Extruder 2-Stripwinders 1-Spray Booth	
	713	Tire Assembly Machine	
	714	Tire Assembly Machine	
	715	Tire Assembly Machine	
	717	Tire Assembly Machine	
	718	Tire Assembly Machine	
	719	Tire Assembly Machine	
	720	Tire Assembly Machine	
	721	Tire Assembly Machine	
	722	Tire Assembly Machine	
	723	Tire Assembly Machine	
	724	Tire Assembly Machine	
	725	Tire Assembly Machine	
	726	Tire Assembly Machine	
727	Tire Assembly Machine		
2801	Tire Assembly Machine		
65	2601	Tire Wheel Assembly line 1	3689
	2602	Tire Wheel Assembly line 2	
	2603	Tire Wheel Assembly line 3	
	2604	Tire Wheel Assembly line 4	
	2605	Tire Wheel Assembly line 5	
	2606	Tire Wheel Assembly line 6	
	2607	Tire Wheel Assembly line 7	
	2608	Tire Wheel Assembly line 8	
	2609	Non-Conforming Area	
401A	401A	Bead Dip Reservoir #1	3488 Modified
	408A	Bead Dip Reservoir #3	
402A	402A	Bead Dip Reservoir #5	3487
	403A	Bead Dip Reservoir #6	

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
222	Zinc Stearate Applicator (dry powder additive)
314	Marking Applicator Z Calendar
315	Marking Applicator Z Calendar
801	Mill Room Safety Kleen Station: 30 gallon capacity
803	Tire Room Safety Kleen Station: 30 gallon capacity
901	Tomene Storage Tank: 12,000 gallon capacity
902	Tomene Storage Tank: 12,000 gallon capacity
903	Tomene Storage Tank: 12,000 gallon capacity
905	#6 Fuel Oil Storage Tanks (2): 87,000 gallon capacity (each)
906	Tomene Storage Tank: 20,000 gallon capacity

II. Plant-Wide Conditions

Facility Name: Titan Tire Corporation
Permit Number: 02-TV-013R3

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

Permit Duration

The term of this permit is: Five (5) years
Commencing on: **April 20, 2022**
Ending on: **April 19, 2027**

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

Plant-Wide Limits:

I) Plant wide limit of 150,000,000 pounds of master rubber processed in the facility per twelve (12) month rolling period. Twelve month rolling records of rubber processed in the facility shall be maintained on site for five (5) years and be made available to the representatives of Polk County AQD upon request.

Authority for Requirement: Polk County Construction Permit 0578 MODIFIED, 1342, 0855 Modified #29, 0911 Modified, 1032 Modified #3, 1403 Modified, 1414, 1417, 2047 Modified, 2081 Modified #6, 2131, 2260, 2312, 3500 Modified, and 2015 Modified #9

II) Plant wide limit of the following amount and maximum percent constituents of materials processed in the facility per twelve (12) month rolling period. Twelve month rolling records of the material processed in the facility shall be maintained on site for five (5) years and be made available to the representatives of Polk County AQD upon request.

- Tire Wash Solvent: (100% VOC, 0% HAP): 813,527 lbs./ 12- month period

Authority for Requirement: Polk County Construction Permit 1342, 0911 Modified, 1032 Modified #3, 1403 Modified, 1414, 1417, 2047 Modified, 2081 Modified #6, 2260, 2312, 3500 Modified, and 2015 Modified #9

III) The facility shall not use more than 30,000 gallons of Bead Dip Cement in any 12-month period, rolled monthly.

Authority for Requirement: Polk County Construction Permit 3488 Modified, 3487

IV) The facility is subject to the Rubber Tire Manufacturing NESHAP, 40 CFR §63.5980 through 6015, Subpart XXXX, promulgated July 9, 2002. Titan Tire has chosen emission limit Option 1- HAP constituent option to comply with Subpart XXXX. *See Appendix A for the web link to NESHAP XXXX.*

Authority for Requirement: 40 CFR 63 Subpart XXXX
567 IAC 23.1(4)"cx"
Polk County Board of Health Rules and Regulations: Chapter V,
Article VIII, Section 5-20 (xxxx)

IV) The following units are subject to the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

- Boilers 1 and 2: (EU 820, 821 / EP 38)
- Boiler 3: (EU 822 / EP 39)
- Boiler 4: (EU 823 / EP 40)

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

Emission Limits:

Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:

Opacity (visible emissions): <20% opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9

Sulfur Dioxide (SO₂): 500 parts per million by volume

Authority for Requirement: 567 IAC 23.3(3)"e"
Polk County Board of Health Rules and Regulations: Chapter V,
Article IX, Section 5-27

Particulate Matter: If the Polk County Health Officer determines that a process complying with the emission rates specified in Table 1 of Section 5-15 of Polk County Board of Health Rules and Regulations Chapter V is causing or will cause air pollution, the Polk County Health Officer will notify the source of such determination. Upon notification, the source shall not emit particulates in amounts greater than 0.10 grain per standard cubic foot of exhaust gas.

Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Particulate Matter:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed on or after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).

Authority for Requirement: 567 IAC 23.3(2)"a"

Combustion for indirect heating: Inside any metropolitan statistical area, the maximum allowable emission from each stack, irrespective of stack height, shall be 0.6 pounds of particulates per million Btu input.

Authority for Requirement: 567 IAC 23.3(2)"b"(2)

Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-15(b)

Fugitive Dust: It shall be unlawful for any person handling, loading, unloading, reloading, storing, transferring, transporting, placing, depositing, throwing, discarding, or scattering any ashes, fly ash, cinders, slag or dust collected from any combination process, any dust, dirt, chaff, wastepaper, trash, rubbish, waste or refuse matter of any kind, or any other substance or material whatever, which is likely to be scattered by the wind, or is susceptible to being wind-borne, to do so without taking reasonable precautions or measures to prevent particulate matter from becoming airborne so as to minimize atmospheric pollution.

Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V,
Article IX, Section 5-24

Fugitive Dust: Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be handled, transported or stored or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not be limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizer or limestone.
4. Covering, at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.
6. Reducing the speed of vehicles traveling over on-property surfaces as necessary to minimize the generation of airborne dusts.

Authority for Requirement: 567 IAC 23.3(2)"c"

III. Emission Point-Specific Conditions

Facility Name: Titan Tire Corporation

Permit Number: **02-TV-013R3**

Emission Point ID Number: 1

Associated Equipment

Associated Emission Unit ID Numbers: 122, 122A, 122B, 122C, 122D, 122E, 123, 123A, 123B, and 124

Emissions Control Equipment ID Number: CE-01

Emissions Control Equipment Description: Airtrol 435 AW12 Pulse-Air Baghouse

(#27D Banbury Mixer):				
EU	EU Description	Raw Material	Rated Capacity	Control ID
122	Carbon Black Loading	Carbon Black	6,688.5 lbs./ hr.	CE-01
122A	Chemical Loading	Chemicals	2,943.3 lbs./ hr.	CE-01
122B	Automatic Weighing Chemicals	Chemicals	1,471.7 lbs./ hr.	CE-01
122C	Charging Chute	Chemicals, Carbon Black	2,943.3 lbs./ hr.	CE-01
122D	Carbon Black Transfer	Carbon Black	6,637.2 lbs./ hr.	CE-01
122E	Rubber Mixing	Raw Rubber	17,123.3 lbs./ hr.	CE-01
123	Pelletizing	Rubber- VOCs	17,123.3 lbs./ hr.	CE-01
123A	Pelletizing	Rubber- Carbon Black	6,688.5 lbs./ hr.	CE-01
123B	Pelletizing	Rubber- Chemicals	2,943.3 lbs./ hr.	CE-01
124	Pellet Dip/ Coating	Pellets/ Pellet Dip	33.40 lbs./ hr.	CE-01

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: No Visible Emissions

Authority for Requirement: Polk County Construction Permit 0578 MODIFIED

Pollutant: PM

Emission Limit: 0.10 gr/scf

Authority for Requirement: 567 IAC 23.3(2)"a"

Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)

Pollutant: PM₁₀

Emission Limits: 3.29 lbs/hr., 14.4 TPY, and 0.0214 grains/ scf.

Authority for Requirement: Polk County Construction Permit 0578 MODIFIED

Pollutant: VOC

Emission Limits: 7.90 lbs/hr. and 34.6 TPY

Authority for Requirement: Polk County Construction Permit 0578 MODIFIED

Pollutant: HAPs (Combined) (Subset of VOCs)

Emission Limits: 2.70 lbs/hr. and 11.8 TPY

Authority for Requirement: Polk County Construction Permit 0578 MODIFIED

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: Plant wide limit of 150,000,000 pounds of master rubber processed in the facility per twelve (12) month rolling period. Twelve month rolling records of rubber processed in the facility shall be maintained on site for five (5) years and be made available to the representatives of Polk County AQD upon request.

Control equipment parameters: The Airtrol 435 AW12 Pulse-Air Baghouse on #27D Banbury Mixer shall be thoroughly inspected and maintained semi-annually, at a minimum. Records showing the date, time, inspector's name, and any action(s) taken will be recorded in a log book, be maintained on site for five (5) years, and be made available to the representatives of Polk County AQD upon request.

Work practice standards: Routine Periodic Inspection.

Authority for Requirement: Polk County Construction Permit 0578 MODIFIED

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant - PM₁₀

Stack Test to be Completed by – *No later than six (6) months from the first day operations of when #27D Banbury (EU 122, 122A, 122B, 122C, 122D, 122E, 123, 123A, 123B, and 124 / CE-01 / EP 01) resumes.*

Test Method - 40 CFR Part 51, Appendix M, Method 202 in conjunction with a Method 201 A test.

Authority for Requirement: 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Note: #27D Banbury (EU 122, 122A, 122B, 122C, 122D, 122E, 123, 123A, 123B, and 124 / CE-01 / EP 01) was indefinitely idle as of the time of issuance of 02-TV-013R3. The following CAM Plan is required to be implemented and complied with immediately upon resumption/ start-up of #27D Banbury operations.

Compliance Assurance Monitoring Plan:
#27D Banbury Mixer Baghouse

I. Background

A. Emissions Unit

Description: #27D Banbury Mixer
Facility: Titan Tire Corporation, Des Moines, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation: 567 IAC 23.3(2)"a"
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Pollutant: Particulate Matter
Emission Limit: 0.10 gr/scf

Regulation: Polk County Construction Permit 0578 MODIFIED
Pollutant: PM₁₀
Emission Limits: 3.29 lbs/hr., 14.4 TPY, and 0.0214 grains/ scf.

Monitoring Requirements: Visible emissions, periodic monitoring

C. Control Technology

Airtrol 435 AW12 Pulse-Air Baghouse

II. Monitoring Approach

A. Indicator

Visible emissions will be used as an indicator.

B. Measurement Approach

EP 1 shall be visually checked for observable emissions once every day by a designated observer. The observation shall be taken while #27D Banbury Mixer is operating. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. If an opacity is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet/ log book. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request. Baghouse corrective actions and maintenance activities shall also be noted in the log book.

C. Indicator Range

The indicator level is no visible emissions.

D. Performance Criteria

Data Representativeness: Measurements are being made at the emission point.

QA/QC Practices and Criteria: The observer will use EPA Reference Method 22-like procedures when checking for visible emissions.

Monitoring Frequency and Data Collection Procedure: A visible emission observation will be performed daily.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 2

Associated Equipment

Associated Emission Unit ID Numbers: 002 and 125A

Emissions Control Equipment ID Number: CE-02

Emissions Control Equipment Description: Airtrol 360AW-10 Baghouse

(Pellet Dip Mixing & Cooling):				
EU	EU Description	Raw Material	Rated Capacity	Control ID
002	#27 Banbury Rotary Drum Coolers	Pellet Dip	108.5 lbs./ hr.	CE-02
125A	Pellet Dip Mixing (Rubber PM ₁₀)	Pellet Dip	108.4 lbs./ hr.	CE-02

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20% opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9

Pollutant: PM

Emission Limits: 0.825 lbs/hr., 3.61 TPY, and 0.10 grains/ dscf.

Authority for Requirement: Polk County Construction Permit 0547
567 IAC 23.3(2)"a"

Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

EP 2 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the #27 Banbury Rotary Drum Coolers, (EU 002), and Pellet Dip Mixing, (EU 125A), are operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity ≥20% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: 567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source’s compliance with the applicable requirements.

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility’s implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 3

Emission Unit vented through this Emission Point: 121
Emission Unit Description: #27 Banbury: Hand weighing Chemicals
Raw Material/Fuel: Chemicals
Rated Capacity: 1,471.70 lbs./ hr.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20% opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9

Pollutant: PM

Emission Limit: 0.10 gr./scf

Authority for Requirement: 567 IAC 23.3(2)"a"
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

EP 3 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the #27 Banbury: Hand weighing Chemicals, (EU 121), is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity $\geq 20\%$ is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: 567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 5

Associated Equipment

Emissions Control Equipment ID Number: CE-05

Emissions Control Equipment Description: Mikro Pulsaire Model 238 STRH-12-20 Baghouse

Emission Unit vented through this Emission Point: 111

Emission Unit Description: #4 Banbury Mixer

Raw Material/Fuel: Mixed Rubber

Rated Capacity: 20,000 lbs./ hour

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20% opacity

Authority for Requirement: Polk County Construction Permit 3502

Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9

Pollutant: PM_{2.5}

Emission Limits: 0.30 lbs/hr. and 1.13 TPY

Authority for Requirement: Polk County Construction Permit 3502

Pollutant: PM₁₀

Emission Limits: 0.30 lbs/hr. and 1.13 TPY

Authority for Requirement: Polk County Construction Permit 3502

Pollutant: PM

Emission Limits: 0.30 lbs/hr., 1.13 TPY, and 0.10 grains/ dscf.

Authority for Requirement: Polk County Construction Permit 3502

567 IAC 23.3(2)"a"

Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Pollutant: VOC

Emission Limits: 0.78 lbs/hr. and 2.91 TPY

Authority for Requirement: Polk County Construction Permit 3502

Pollutant: HAPs (Combined)

Emission Limits: 0.51 lbs/hr. and 1.91 TPY

Authority for Requirement: Polk County Construction Permit 3502

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Requirements:

- The facility shall comply with all applicable requirement of 40 CFR 63 Subpart XXXX-*National Emissions Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing*
- Per §63.5982 (b)(4): there are no emission limitations or other requirements for the rubber processing affected source.
- Per §63.5983 (d): you must meet the notification requirements in §63.6009 according to the schedule in §63.6009.

NOTE: The absence of the inclusion of any NESHAP requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NESHAP conditions.

Process throughput:

- The facility shall not process more than 150,000,000 pounds of master rubber per 12-month period, rolled monthly. Records of master rubber processed shall be recorded and totaled monthly.

Reporting & Record keeping:

- Twelve-month rolling records of rubber processed shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
- The owner or operator shall not exceed the plant wide limits of the following materials and maximum percent constituents processed in the facility per twelve month rolling period, rolled monthly. Twelve-month rolling records shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
 - a) Tire Wash Solvent: (100% VOC, 0% HAP): 813,527 lbs per 12-month period, rolled monthly.

Authority for Requirement: Polk County Construction Permit 3502

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (from the ground): 48 feet
- Stack Opening, (diameter): 24 inches
- Exhaust Flow Rate: 8,300 scfm
- Exhaust Temperature: 110 °F
- Discharge Style: Vertical, unobstructed
- Authority for Requirement: Polk County Construction Permit Number 3502

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

EP 5 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the #4 Banbury Mixer, (EU 111), is operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity ≥20% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: 567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 6

Associated Equipment

Emissions Control Equipment ID Number: CE-06

Emissions Control Equipment Description: Airtrol Model 221 AW12 Baghouse

Emission Unit vented through this Emission Point: 127

Emission Unit Description: #6 Banbury Mixer

Raw Material/Fuel: Mixed Rubber

Rated Capacity: 18,000 lbs./ hour

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20%

Authority for Requirement: Polk County Construction Permit 3503

Pollutants: PM_{2.5}

Emission Limits: 5.31 lbs/hr. and 23.26 TPY

Authority for Requirement: Polk County Construction Permit 3503

Pollutants: PM₁₀

Emission Limits: 5.31 lbs/hr. and 23.26 TPY

Authority for Requirement: Polk County Construction Permit 3503

Pollutant: PM

Emission Limits: 5.31 lbs/hr., 23.26 TPY, and 0.10 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Polk County Construction Permit 3503

Pollutant: VOC

Emission Limits: 0.70 lbs/hr. and 2.91 TPY

Authority for Requirement: Polk County Construction Permit 3503

Pollutant: HAPs (Combined)

Emission Limits: 0.46 lbs/hr. and 1.91 TPY

Authority for Requirement: Polk County Construction Permit 3503

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Requirements:

- The facility shall comply with all applicable requirement of 40 CFR 63 Subpart XXXX-*National Emissions Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing*
- Per §63.5982 (b)(4): there are no emission limitations or other requirements for the rubber processing affected source.
- Per §63.5983 (d): you must meet the notification requirements in §63.6009 according to the schedule in §63.6009.

NOTE: The absence of the inclusion of any NESHAP requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NESHAP conditions.

Process throughput:

- The facility shall not process more than 150,000,000 pounds of master rubber per 12-month period, rolled monthly. Records of master rubber processed shall be recorded and totaled monthly.

Reporting & Record keeping:

- Twelve-month rolling records of rubber processed shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
- The owner or operator shall not exceed the plant wide limits of the following materials and maximum percent constituents processed in the facility per twelve month rolling period, rolled monthly. Twelve-month rolling records shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
 - a) Tire Wash Solvent: (100% VOC, 0% HAP): 813,527 lbs per 12-month period, rolled monthly.

Authority for Requirement: Polk County Construction Permit 3503

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 34 feet

Stack Opening: 21 x 24 inches

Exhaust Flow Rate: 6,200 scfm

Exhaust Temperature: 110 °F

Discharge Style: Horizontal

Authority for Requirement: Polk County Construction Permit Number 3503

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant - PM₁₀

Stack Test to be Completed by – April 19, 2024

Test Method - 40 CFR Part 51, Appendix M, Method 202 in conjunction with a Method 201 A test.

Authority for Requirement: 567 IAC 22.108(3)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Compliance Assurance Monitoring Plan:

#6 Banbury Mixer Baghouse

I. Background

A. Emissions Unit

Description: #6 Banbury Mixer

Emission Units included: (EP 6 / CE-06 / EU 127)

Facility: Titan Tire Corporation, Des Moines, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation: 567 IAC 23.3(2)"a"

Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Pollutant: Particulate Matter

Emission Limit: 0.10 gr/dscf

Regulation: Polk County Construction Permit 3503

Pollutants: PM, PM₁₀, and PM_{2.5}

Emission Limits: 5.31 lbs/hr. and 23.26 TPY

Monitoring Requirements: Visible emissions, periodic monitoring

C. Control Technology

Particulate Control: Airtrol Model 221 AW12 Baghouse (CE-06)

II. Monitoring Approach

A. Indicator

Visible emissions will be used as an indicator.

B. Measurement Approach

EP 6 shall be visually checked for observable emissions once every day in which the unit is operated, by a designated observer. The observation shall be taken while the #6 Banbury Mixer, (EU 127), is operating at or near full capacity. The observation shall be noted in a log book,

which shall state the date, time, observer's signature, and whether any emissions were observed. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity $\geq 20\%$ is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

The following parameters will be monitored daily (every 24 hours) on days of operation:

1. Differential pressure drop of the baghouse (magnehelic gauge reading)
2. Visible emissions from the scavenger system ductwork and solids handling equipment on roof
3. Visible emissions from the baghouse exhaust (EP 6)

The following parameters will be monitored weekly:

1. The baghouse, associated components, and ductwork inspected for leaking dust, holes, corrosion, and audible air leaks.

C. Performance Criteria (PC) and Corrective Action (CA)

1. Differential Pressure

(PC) Differential pressure drop over the baghouse should not exceed 9 inches water at the gauge reading.

(CA) Troubleshooting contingency measure will be implemented and corrective action will be taken within 72 hours of discovery.

2. Scavenger System

(PC) There should be no visible emissions from the scavenger system ductwork and solids handling equipment on roof.

(CA) Corrective action and clean up will be taken within 8 hours of discovery.

3. Exhaust

(PC) There should be no visible emissions from the baghouse exhaust.

(CA) Troubleshooting contingency measure will be implemented and corrective action will be taken within 8 hours of discovery.

4. Entire System

(PC) The baghouse, associated components, and ductwork should not have holes or corrosion; nor should it leak dust or have audible air leaks.

(CA) Corrective action will be taken within 7 days of discovery.

D. Record Keeping

The following records will be maintained on site for a minimum of five (5) years and will be available to representatives of Polk County AQD upon request to demonstrate on-going compliance:

The daily inspections log will track the

1. Differential pressure gauge readings
2. Lack of visible emissions from the exhaust
3. Lack of visible leaks from the scavenger system and solids handling equipment on the roof.
4. Any corrective actions taken.
5. Date and time of inspection.
6. Inspector's signature.

The weekly inspection log will track the inspection of the baghouse, associated components, and ductwork for lack of leaks, holes, corrosion, and audible air leaks.

E. Indicator Range

The indicator level is no visible emissions.

F. Performance Criteria

Data Representativeness: Measurements are being made at the emission point.

QA/QC Practices and Criteria: The observer will use EPA Reference Method 22-like procedures when checking for visible emissions.

Monitoring Frequency and Data Collection Procedure: A visible emission observation will be performed daily.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 7**Associated Equipment**

Associated Emission Unit ID Numbers: 114, 116, 116A, 116B, 116C, 116R, 117, 119, 119A,
and 127D

Emissions Control Equipment ID Number: CE-07

Emissions Control Equipment Description: Built Engineering Baghouse,
Model GA14(540AM25)

#5 Banbury Mixer:				
EU	EU Description	Raw Material	Rated Capacity	Control ID
114	Hand weighing Chemicals	Chemicals (PM ₁₀)	210.6 lbs./ hr.	CE-07
116	Rubber Mixing (Chemical Load)	Chemicals, Carbon Black	1,063.5 lbs./ hr.	CE-07
116	Rubber Mixing	Master Rubber (VOC)	17,123.3 lbs./ hr.	CE-07
116A	Automatic Weighing Chemicals	Chemicals (PM ₁₀)	852.6 lbs./ hr.	CE-07
116B	Charging Chute	Chemicals, Carbon Black	1,063.5 lbs./ hr.	CE-07
116C	Rubber Milling (No Chemical)	Final Rubber (PM ₁₀)	1,063.5 lbs./ hr.	CE-07
116R	Rubber Milling, 84" Mill	Final Rubber (VOC)	17,123.3 lbs./ hr.	CE-07
117	Rubber Shaping Mill: 36" Mill	Final Rubber (VOC)	17,123.3 lbs./ hr.	CE-07
119	Slab Dip Spraying	Slab Dip (VOC)	51.0 lbs./ hr.	CE-07
119A	Slab Dip Application	Slab Dip (VOC)	8.46 lbs./ hr.	CE-07
127D	Rubber Milling, 36" Mill	Final Rubber (VOC)	8,512.5 lbs./ hr.	CE-07

Applicable Requirements**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20% opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9

Pollutant: PM

Emission Limits: 10.285 lbs/hr. and 0.10 gr./ scf

Authority for Requirement: Polk County Construction Permit 0619
567 IAC 23.3(2)"a"

Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

- Pollutant - PM
- Stack Test to be Completed by- April 19, 2024
- Test Method – 40 CFR Part 60 App. A, Method 5 and
40 CFR Part 51 App. M, Method 202
- Authority for Requirement – 567 IAC 22.108(3)

The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Compliance Assurance Monitoring Plan:

#5 Banbury Mixer Baghouse

I. Background

A. Emissions Unit

Description: #5 Banbury Mixer
 Emission Units included: (EP 7 / CE-07 / EUs 114, 116, 116A, 116B, 116C, 116R, 117, 119, 119A, and 127D)
 Facility: Titan Tire Corporation, Des Moines, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation: 567 IAC 23.3(2)"a"
 Polk County Board of Health Rules and Regulations Chapter V,
 Article VI, Section 5-14(b)
 Polk County Construction Permit 0619

Pollutant: PM
 Emission Limits: 10.285 lbs/hr., and 0.10 grains/ scf.

Monitoring Requirements: Visible emissions, periodic monitoring

C. Control Technology

Built Engineering Baghouse, Model GA14(540AM25) (CE-7)

II. Monitoring Approach

A. Indicator

Visible emissions will be used as an indicator.

B. Measurement Approach

EP 7 shall be visually checked for observable emissions once every day by a designated observer. The observation shall be taken while #5 Banbury Mixer is operating. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity $\geq 20\%$ is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request. Baghouse corrective actions and maintenance activities shall also be noted in the log book.

The following parameters will be monitored daily (every 24 hours) on days of operation:

1. Differential pressure drop of the baghouse (magnehelic gauge reading)
2. Visible emissions from the scavenger system ductwork and solids handling equipment on roof
3. Visible emissions from the baghouse exhaust (EP 7)

The following parameters will be monitored weekly:

1. The baghouse, associated components, and ductwork inspected for leaking dust, holes, corrosion, and audible air leaks.

C. Performance Criteria (PC) and Corrective Action (CA)

1. Differential Pressure

(PC) Differential pressure drop over the baghouse should not exceed 9 inches water at the gauge reading.

(CA) Troubleshooting contingency measure will be implemented and corrective action will be taken within 72 hours of discovery.

2. Scavenger System

(PC) There should be no visible emissions from the scavenger system ductwork and solids handling equipment on roof.

(CA) Corrective action and clean up will be taken within 8 hours of discovery.

3. Exhaust

(PC) There should be no visible emissions from the baghouse exhaust.

(CA) Troubleshooting contingency measure will be implemented and corrective action will be taken within 8 hours of discovery.

4. Entire System

(PC) The baghouse, associated components, and ductwork should not have holes or corrosion; nor should it leak dust or have audible air leaks.

(CA) Corrective action will be taken within 7 days of discovery.

D. Record Keeping

The following records will be maintained on site for a minimum of five (5) years and will be available to representatives of Polk County AQD upon request to demonstrate on-going compliance:

The daily inspections log will track the

1. Differential pressure gauge readings
2. Lack of visible emissions from the exhaust
3. Lack of visible leaks from the scavenger system and solids handling equipment on the roof.
4. Any corrective actions taken.
5. Date and time of inspection.
6. Inspector's signature.

The weekly inspection log will track the inspection of the baghouse, associated components, and ductwork for lack of leaks, holes, corrosion, and audible air leaks.

E. Indicator Range

The indicator level is no visible emissions.

F. Performance Criteria

Data Representativeness: Measurements are being made at the emission point.

QA/QC Practices and Criteria: The observer will use EPA Reference Method 22-like procedures when checking for visible emissions.

Monitoring Frequency and Data Collection Procedure: A visible emission observation will be performed daily.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 9

Emission Unit vented through this Emission Point: 12
Emission Unit Description: 60 kW Kohler Model 60RZ282 Natural Gas Emergency Generator
Raw Material/Fuel: Natural Gas
Rated Capacity: 960 ft³/hr.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20%

Authority for Requirement: Polk County Construction Permit Number 2156
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-9

Pollutant: PM₁₀

Emission Limits: 0.02 lbs/hr, 0.08 TPY

Authority for Requirement: Polk County Construction Permit Number 2156

Pollutant: PM

Emission Limits: 0.02 lbs/hr, 0.08 TPY

Authority for Requirement: Polk County Construction Permit Number 2156

Pollutant: SO₂

Emission Limits: 0.5 lbs./ MMBtu

Authority for Requirement: Polk County Construction Permit Number 2156

Pollutant: NO_x

Emission Limits: 2.73 lbs/hr, 11.94 TPY

Authority for Requirement: Polk County Construction Permit Number 2156

Pollutant: VOC

Emission Limits: 0.11 lbs/hr, 0.49 TPY

Authority for Requirement: Polk County Construction Permit Number 2156

Pollutant: CO

Emission Limits: 0.38 lbs/hr, 1.68 TPY

Authority for Requirement: Polk County Construction Permit Number 2156

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP:

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(ii) this spark ignition emergency engine, located at a major source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of subpart ZZZZ that are applicable by October 19, 2013.

Operation and Maintenance Requirements 40 CFR 63.6602, 63.6625, 63.6640 and Tables 2c and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(j) for the oil analysis option to extend time frame of requirements.)
2. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

1. Any operation other than emergency operation, maintenance and testing, emergency demand response and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
2. There is no time limit on the use of emergency stationary RICE in emergency situations.
3. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
4. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing and emergency demand response. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Recordkeeping Requirements 40 CFR 63.6655

1. Keep records of the maintenance conducted on the stationary RICE.
2. Keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. See 40 CFR 63.6655(f) for additional information.

Notification and Reporting Requirements 40 CFR 63.6645, 63.6650 and Table 2c to Subpart ZZZZ

1. An initial notification is not required per 40 CFR 63.6645(a)(5).
2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2c. (See Footnote 1 of Table 2c for more information.)

Authority for Requirement: 40 CFR 63 Subpart ZZZZ

567 IAC 23.1(4)"cz"

Polk County Board of Health Rules and Regulations: Chapter V,
Article VIII, Section 5-20(zzzz)

- The owner or operator shall comply with all applicable conditions of 40 CFR 63 Subpart ZZZZ- National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.
- The generator shall be operated in a manner consistent with the definition of an emergency stationary non-fire pump internal combustion engine.

Authority for Requirement: Polk County Construction Permit Number 2156

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 47 feet

Stack Opening, (diameter): 2.75 inches

Exhaust Flow Rate: 580 acfm

Exhaust Temperature: 1,200 °F

Discharge Style: Vertical, unobstructed

Authority for Requirement: Polk County Construction Permit Number 2156

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 10

Associated Equipment

Emissions Control Equipment ID Number: CE- EG1
Emissions Control Equipment Description: Catalytic Converter

Emission Unit vented through this Emission Point: EG1
Emission Unit Description: Kohler Model 180REZXB Emergency Generator
Raw Material/Fuel: Natural Gas
Rated Capacity: 302 bhp (225 kW)

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20%

Authority for Requirement: Polk County Construction Permit Number 3593
Polk County Board of Health Rules and Regulations
Chapter V, Article IV, Section 5-9

Pollutant: PM₁₀

Emission Limits: 0.09 lbs/hr, 0.02 TPY

Authority for Requirement: Polk County Construction Permit Number 3593

Pollutant: PM

Emission Limits: 0.09 lbs/hr, 0.02 TPY, and 0.10 gr/dscf

Authority for Requirement: Polk County Construction Permit Number 3593
Polk County Board of Health Rules and Regulations
Chapter V, Article VI, Section 5-14(b)

Pollutant: SO₂

Emission Limit: 500 ppm

Authority for Requirement: Polk County Construction Permit Number 3593
Polk County Board of Health Rules and Regulations
Chapter V, Article IX, Section 5-27(5)

Pollutant: NO_x

Emission Limits: 8.02 lbs/hr, 2.01 TPY

Authority for Requirement: Polk County Construction Permit Number 3593

Pollutant: VOC

Emission Limits: 0.67 lbs/hr, 0.17 TPY, and 1.0 gram/ HP-hr

Authority for Requirement: Polk County Construction Permit Number 3593

Pollutant: CO

Emission Limits: 7.32 lbs/hr, 1.83 TPY

Authority for Requirement: Polk County Construction Permit Number 3593

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS Requirements:

* The owner or operator shall comply with all applicable requirements of 40 CFR 60 subpart JJJJ-Standards of Performance for Stationary Spark Ignition Internal Combustion Engines.

* The owner or operator must comply with the emission standards in Table 1 of this subpart (40 CFR 60 subpart JJJJ) per §60.4233(e).

The emission standards that the engine must be certified by the manufacturer to meet are:

Pollutant	Emission Standard		Regulatory Basis
	Grams/HP-hr O ₂	ppmvd at 15%	
NO _x	2.0	160	40 CFR 60 JJJJ Table 1
CO	4.0	540	40 CFR 60 JJJJ Table 1
VOC	1.0	86	40 CFR 60 JJJJ Table 1

* The owner or operator must operate and maintain stationary SI ICE that achieve the emission standards as required in §60.4233 over the entire life of the engine.

§60.4237 Owners and operators shall comply with monitoring requirements §60.4237.

§60.4243 Owners and operators shall comply with compliance requirements by:

(a) If you are an owner or operator of a stationary SI internal combustion engine that is manufactured after July 1, 2008, and must comply with the emission standards specified in §60.4233(a) through (c), you must comply by purchasing an engine certified to the emission standards in §60.4231(a) through (c), as applicable, for the same engine class and maximum engine power. In addition, you must meet one of the requirements specified in (a)(1) and (2) of this section.

(1) If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if you are an owner or operator. You must also meet the requirements as specified in 40 CFR part 1068, subparts A through D, as they apply to you. If you adjust engine settings according to and consistent with the manufacturer's instructions, your stationary SI internal combustion engine will not be considered out of compliance.

(2) If you do not operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, your engine will be considered a non-certified engine, and you must demonstrate compliance according to (a)(2)(i) through (iii) of this section, as appropriate.

(ii) If you are an owner or operator of a stationary SI internal combustion engine greater than or equal to 100 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test within 1 year of engine startup to demonstrate compliance.

(b) If you are an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in §60.4233(d) or (e), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) and (2) of this section.

(1) Purchasing an engine certified according to procedures specified in this subpart, for the same model year and demonstrating compliance according to one of the methods specified in paragraph (a) of this section.

(d) If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (d)(1) through (3) of this section. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (d)(1) through (3) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (d)(1) through (3) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

(1) There is no time limit on the use of emergency stationary ICE in emergency situations.

(2) You may operate your emergency stationary ICE for any combination of the purposes specified in paragraphs (d)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (d)(3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (d)(2).

(i) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

(3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (d)(2) of this section. Except as provided in paragraph (d)(3)(i) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

* The owner or operator shall comply with the notification, reporting and recordkeeping requirements per §60.4245:

Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements.

(a) Owners and operators of all stationary SI ICE must keep records of the information in paragraphs (a)(1) through (4) of this section.

(1) All notifications submitted to comply with this subpart and all documentation supporting any notification.

(2) Maintenance conducted on the engine.

(3) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.

§60.4248 Owners and operators shall operate the engine as an emergency stationary internal combustion engine as defined in this subpart.

* The owner or operator shall comply with the General Provisions in §60.1 through §60.19 listed in Table 3 which apply to you per §60.4246.

Authority for Requirement: 40 CFR 60 subpart JJJJ

567 IAC 23.1(2)"zzz"

Polk County Board of Health Rules and Regulations: Chapter V,
Article VI, Section 5-16(n)(78)

NESHAP Requirements:

* The owner or operator shall comply with all applicable requirements of 40 CFR 63 subpart ZZZZ -National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

* Per §63.6590(c) the facility satisfies all requirements of this subpart by complying with 40 CFR 60 subpart JJJJ.

NOTE: The absence of the inclusion of any NESHAP requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NESHAP conditions.

Authority for Requirement: 40 CFR 63 Subpart ZZZZ

567 IAC 23.1(4)"cz"

Polk County Board of Health Rules and Regulations: Chapter V,
Article VIII, Section 5-20(zzzz)

Work practice standards:

* The owner or operator shall operate engine in a manner consistent with the definition of an Emergency stationary RICE as defined by §63.6675.

Hours of operation:

* Operation shall be limited to five hundred (500) hours per twelve (12) month period rolled and totaled monthly.

Reporting & Record keeping:

* A non-resettable totalizing hour meter shall be installed on the unit.

* The owner or operator shall maintain the following monthly records:

- i) the number of hours that the engine is operated for maintenance checks and readiness testing.
- ii) the number of hours that the engine is operated for allowed non-emergency operations.
- iii) the total number of hours that the engine is operated.
- iv) each of the above records shall include the rolling 12-month total of hours for each category of operation (i.e. maintenance and readiness testing, non-emergency use, total hours of operation).

* All records shall be kept on site for a minimum period of five years and be made available to Polk County Air Quality personnel upon request.

Authority for Requirement: Polk County Construction Permit Number 3593

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 38 feet

Stack Opening, (diameter): 6.0 inches

Exhaust Flow Rate: 370 scfm

Exhaust Temperature: 1,112 °F

Discharge Style: Horizontal

Authority for Requirement: Polk County Construction Permit Number 3593

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 13

Emission Unit vented through this Emission Point: 317
Emission Unit Description: Ferrel Tandem Calender
Raw Material/Fuel: Rubber
Rated Capacity: 6,250 lbs./ hr.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit: No Visible Emissions
Authority for Requirement: Polk County Construction Permit Number 2312

Pollutant: VOC
Emission Limits: 1.21 lbs/hr, 5.31 TPY
Authority for Requirement: Polk County Construction Permit Number 2312

Pollutant: HAP
Emission Limits: 0.16 lbs/hr, 0.70 TPY
Authority for Requirement: Polk County Construction Permit Number 2312

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

- The facility shall not process more than 150,000,000 pounds of master rubber per 12 month period, rolled monthly. Records of master rubber processed shall be recorded and totaled monthly.

Reporting & Record keeping:

- VOC and HAP actual emissions for EP 13 shall be calculated monthly and reported annually, as part of the Iowa DNR Title V emission inventory process.
- Twelve month rolling records of rubber processed shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: Polk County Construction Permit Number 2312

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 33 feet

Stack Opening, (rectangular): 42 x 49 inches

Exhaust Flow Rate: 25,000 acfm

Exhaust Temperature: 90 °F

Discharge Style: Horizontal

Authority for Requirement: Polk County Construction Permit Number 2312

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 17

Emission Units vented through this Emission Point: 405

Emission Units Description: Bead Dipping Tank

Raw Material/Fuel: Cement

Rated Capacity: 1.02 gallons/ hr.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

No applicable emission limits at this time.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 17A

Emission Units vented through this Emission Point: 406
Emission Units Description: Bead Dip Drying Station
Raw Material/Fuel: Cement
Rated Capacity: 4.0 lbs/hr.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

No applicable emission limits at this time.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 24**Associated Equipment**

Associated Emission Unit ID Numbers: 567, 607, 608, and 608A

EU	EU Description	Raw Material	Rated Capacity	Control ID
567	Curing Presses (21), Bldg. 8 (#544-549, 551-565)	Uncured Tires (VOC)	3,675.00 lbs./ hr.	N/A
607	Curing Press, Bag-O-Matic 75" (1), Bldg. 8 (#566)	Uncured Tires (VOC)	175.00 lbs./ hr.	N/A
608	Curing Press, McNeil Akron 100" (1), Bldg. 8 Annex (#567)	Uncured Tires (VOC)	250.00 lbs./ hr.	N/A
608A	Curing Presses (6), Bldg. 8 (#538- 543)	Uncured Tires (VOC)	1,050.00 lbs./ hr.	N/A

Applicable Requirements**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)***The emissions from this emission point shall not exceed the levels specified below.*

EU	VOC	HAPs (Combined)	Authority for Requirement
567	N/A	N/A	N/A
607	1.17 lbs/hr., 5.12 TPY	0.24 lbs/hr., 1.04TPY	Polk County Construction Permit 0818A
608	1.67 lbs/hr., 7.31 TPY	0.34 lbs/hr., 1.49 TPY	Polk County Construction Permit 0736 MODIFIED
608A	N/A	N/A	N/A

Operational Limits & Requirements*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Work practice standards: Routine periodic inspection.

Authority for Requirement: Polk County Construction Permit 0818A and 0736 MODIFIED

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 28 feet

Stack Opening, (circular): 24 inches

Exhaust Flow Rate: 7,000 acfm

Exhaust Temperature: 85.0 °F

Discharge Style: Roof Mounted with rain cap

Authority for Requirement: Polk County Construction Permit 0818A and 0736 MODIFIED

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 25**Associated Equipment**Associated Emission Unit ID Numbers: 603, 603A, 604, and 604A

EU	EU Description	Raw Material	Rated Capacity	Control ID
603	Curing Presses, McNeil/ NRM, Bldg. 2, (3) 55" Dual (#667- 672), (4) 60" Dual (#649- 656)	Uncured Tires (VOC)	2,450. lbs./ hr.	N/A
603 A	Curing Presses, (2) 63.5" McNeil Dual Cavity, Bldg. 2 (#659- 662)	Uncured Tires (VOC)	700. lbs./ hr.	N/A
604	Curing Press, NRM 62" Dual, Bldg. 2, (#665- 666)	Uncured Tires (VOC)	350. lbs./ hr.	N/A
604 A	Curing Press, NRM 62" Dual, Bldg. 2, (#657- 658)	Uncured Tires (VOC)	350. lbs./ hr.	N/A

Applicable Requirements**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)***The emissions from this emission point shall not exceed the levels specified below.*

EU 603 and 603A: No applicable emission limits at this time.

Combined Emission Limits EU 604 and 604A

Pollutant: VOC

Emission Limits: 4.68 lbs/hr. and 20.48 TPY

Authority for Requirement: Polk County Construction Permit 0818B

Pollutant: HAPs (Combined)

Emission Limits: 0.95 lbs/hr. and 4.17 TPY

Authority for Requirement: Polk County Construction Permit 0818B

Operational Limits & Requirements*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.***Work practice standards, EU 604 and 604A:**

- Routine periodic inspection.

Authority for Requirement: Polk County Construction Permit 0818B

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 26**Associated Equipment**Associated Emission Unit ID Numbers: 606, 606S, 606A, and 606B

EU	EU Description	Raw Material	Rated Capacity	Control ID
606	Tire Curing Presses, (8) McNeil Dual (# 615- 630), (27) McNeil Single (#502- 528)	Uncured Tires (VOC)	7,525. lbs./ hr.	N/A
606S	Tire Curing Press, McNeil (1- 55") Dual Cavity, (#613- 614)	Uncured Tires (VOC)	350. lbs./ hr.	N/A
606A	Tire Curing Presses (5), McNeil, (#529- 532, 535)	Uncured Tires (VOC)	875. lbs./ hr.	N/A
606B	Tire Curing Presses (2), McNeil Single, (#536- 537)	Uncured Tires (VOC)	350. lbs./ hr.	N/A

Applicable Requirements**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)***The emissions from this emission point shall not exceed the levels specified below.*

EU	EU Description	VOC Emission Limit	Total HAP Emission Limit
		(TPY)	(TPY)
606	Tire Curing Presses, (8) McNeil Dual (# 615- 630), (27) McNeil Single (#502- 528)	10.22	2.81
606S	Tire Curing Press, McNeil (1- 55") Dual Cavity, (#613- 614)	0.48	0.13
606A	Tire Curing Presses (5), McNeil, (#529- 532, 535)	1.19	0.33
606B	Tire Curing Presses (2), McNeil Single, (#536- 537)	0.48	0.13

Authority for Requirement: Polk County Construction Permit 1342

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Refer to Section II – Plant-Wide Limits

Authority for Requirement: Polk County Construction Permit 1342

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 28 feet

Stack Opening, (circular): 24 inches

Exhaust Flow Rate: 7,000 scfm

Exhaust Temperature: 70 - 110 °F

Discharge Style: Vertical, Obstructed

Authority for Requirement: Polk County Construction Permit Number 1342

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 27

Associated Equipment

Item #	Emission Unit ID	Titan Curing Press #	Emission Unit Description	Model	Maximum Capacity (lb/hr)	Date of Construction
1	602A-277	277/278	McNeil 45" Dual Tire Curing Press		350	6/21/2010
2	602A-279	279/280	McNeil 45" Dual Tire Curing Press		350	2/14/2011
3	602A-281	281/282	McNeil 45" Dual Tire Curing Press		350	1/13/2014
4	602A-283	283/284	McNeil 45" Dual Tire Curing Press		350	1/13/2014
5	602A-285	285/286	NRM 45" Dual Tire Curing Press		350	3/20/2014
6	602A-287	287/288	NRM 45" Dual Tire Curing Press		350	3/20/2014
7	602A-289	289/290	NRM 45" Dual Tire Curing Press		350	9/22/2014
8	602A-291	291/292	NRM 45" Dual Tire Curing Press		350	9/22/2014
9	602A-293	293/294	NRM 45" Dual Tire Curing Press		350	11/14/2014
10	602A-295	295/296	NRM 45" Dual Tire Curing Press		350	11/14/2014
11	602A-297	297/298	NRM 45" Dual Tire Curing Press		350	11/14/2014
12	602A-299	299/300	NRM 45" Dual Tire Curing Press		350	9/9/2015
13	602A-301	301/302	NRM 45" Dual Tire Curing Press		350	9/9/2015
14	602A-307	309/310	McNeil 50" Dual Tire Curing Press		350	6/8/2012
15	602A-309	311/312	McNeil 40" Dual Tire Curing Press		350	12/5/2011
16	602A-311	313/314	McNeil 45" Dual Tire Curing Press	350-45 M9-17P	350	10/26/2012
17	602A-313	315/316	McNeil 42" Dual Tire Curing Press		350	4/20/2011
18	602A-317	317/318	McNeil 45" Dual Tire Curing Press		350	1/13/2014
19	602A-319	319/320	McNeil 45" Dual Tire Curing Press		350	2/25/2013
20	602A-321	321/322	McNeil 45" Dual Tire Curing Press		350	2/25/2013
21	602A-323	323/324	McNeil 45" Dual Tire Curing Press		350	2/25/2013
22	602A-325	325/326	McNeil 45" Dual Tire Curing Press		350	2/25/2013
23	602A-327	327/328	McNeil 45" Dual Tire Curing Press		350	2/25/2013
24	602A-329	329/330	McNeil 45" Dual Tire Curing Press		350	2/25/2013
25	602A-331	331/332	McNeil 45" Dual Tire Curing Press		350	2/25/2013
26	602A-333	333/334	McNeil 45" Dual Tire Curing Press	300-45-M8-14P	350	12/10/2012
27	602A-335	335/336	McNeil 45" Dual Tire Curing Press	300-45-M8-14P	350	12/10/2012
28	602A-337	337/338	McNeil 45" Dual Tire Curing Press	300-45-14-M8	350	12/10/2012
29	602B-175	275/276	McNeil 45" Dual Tire Curing Press	230-45-11-6 PTB	350	4/20/2011
30	602B-211	211/212	McNeil 40" Dual Tire Curing Press	230-40-11 1/2 6 1/2 PTB	350	10/8/2004
31	602B-213	213/214	McNeil 40" Dual Tire Curing Press	230-40-11 1/2 6 1/2 PTB	350	10/8/2004
32	602B-225	225/226	McNeil 40" Dual Tire Curing Press	230-40-11 1/2 6 1/2 PTB	350	2/9/2004
33	602B-227	227/228	McNeil 40" Dual Tire Curing Press	230-40-11 1/2 6 1/2 PTB	350	2/9/2004
34	602B-231	231/232	McNeil 45" Dual Tire Curing Press		350	2/9/2004
35	602B-233	233/234	McNeil 45" Dual Tire Curing Press		350	2/9/2004
36	602B-243	243/244	McNeil 42" Dual Tire Curing Press		350	Grandfathered
37	602B-245	245/246	McNeil 42" Dual Tire Curing Press		350	Grandfathered
38	602B-247	247/248	NRM 42" Dual Tire Curing Press		350	1/18/2021
39	602B-249	249/250	NRM 42" Dual Tire Curing Press		350	1/18/2021
40	602B-251	251/252	NRM 42" Dual Tire Curing Press		350	1/18/2021
41	602B-253	253/254	NRM 45" Dual Tire Curing Press		350	12/2/2019

Item #	Emission Unit ID	Titan Curing Press #	Emission Unit Description	Model	Maximum Capacity (lb/hr)	Date of Construction
42	602B-255	255/256	NRM 45" Dual Tire Curing Press		350	12/2/2019
43	602B-257	257/258	NRM 45" Dual Tire Curing Press		350	4/1/2018
44	602B-259	259/260	NRM 45" Dual Tire Curing Press		350	4/1/2018
45	602B-261	261/262	NRM 45" Dual Tire Curing Press		350	4/1/2018
46	602B-263	263/264	NRM 45" Dual Tire Curing Press		350	8/1/2017
47	602B-265	265/266	NRM 45" Dual Tire Curing Press		350	8/1/2017
48	602B-267	267/268	NRM 45" Dual Tire Curing Press		350	10/11/2016
49	602B-269	269/270	NRM 45" Dual Tire Curing Press		350	10/11/2016
50	602B-271	271/272	NRM 45" Dual Tire Curing Press		350	6/4/2016
51	602B-273	273/274	NRM 45" Dual Tire Curing Press		350	6/4/2016
52	609	235/236	McNeil 45" Dual Tire Curing Press		350	Grandfathered
53	611	239/240	McNeil 45" Dual Tire Curing Press		350	Grandfathered
54	612	241/242	McNeil 42" Dual Tire Curing Press		350	Grandfathered
55	615	701	McNeil 75" Tire Curing Press	M-7	175	3/1/1996
56	616	702	McNeil 75" Tire Curing Press	M-7	175	3/1/1996
57	617	758	McNeil 75" Tire Curing Press	M-3	175	3/1/1996
58	618	759	McNeil 75" Tire Curing Press	M-3	175	3/1/1996
59	619	751	McNeil 85" Tire Curing Press	M-8	175	3/1/1996
60	620	752	McNeil 85" Tire Curing Press	M-8	175	3/1/1996
61	621	173/174	McNeil 63.5" Dual Tire Curing Press	M-5	350	3/1/1996
62	622	171/172	McNeil 63.5" Dual Tire Curing Press	M-5	350	3/1/1996
63	623	169/170	McNeil 63.5" Dual Tire Curing Press	M-5	350	3/1/1996
64	624	167/168	McNeil 63.5" Dual Tire Curing Press	M-5	350	3/1/1996
65	625	165/166	McNeil 63.5" Dual Tire Curing Press	M-1	350	3/1/1996
66	626	163/164	McNeil 63.5" Dual Tire Curing Press	M-1	350	3/1/1996
67	627	161/162	McNeil 63.5" Dual Tire Curing Press	M-1	350	3/1/1996
68	628	159/160	McNeil 63.5" Dual Tire Curing Press	M-1	350	3/1/1996
69	629	157/158	McNeil 63.5" Dual Tire Curing Press	M-4	350	3/1/1996
70	630	155/156	McNeil 63.5" Dual Tire Curing Press	M-1	350	3/1/1996
71	631	153/154	McNeil 63.5" Dual Tire Curing Press	M-1	350	3/1/1996
72	632	151/152	McNeil 63.5" Dual Tire Curing Press	M-5	350	3/1/1996
73	633	705	Bolshevik 100" Tire Curing Press	R	250	3/1/1996
74	634	753	McNeil 75" Tire Curing Press	M-3	175	3/1/1996
75	635	754	McNeil 85" Tire Curing Press	M-8	175	3/1/1996
76	636	755	Bolshevik 88" Tire Curing Press	R	175	3/1/1996
77	637	706	Bolshevik 100" Tire Curing Press		250	10/31/2008
78	638	707	Bolshevik 100" Tire Curing Press		250	10/31/2008
79	639	708	Bolshevik 88" Tire Curing Press		175	10/31/2008
80	640	709	Bolshevik 88" Tire Curing Press		175	10/1/2008
81	641	710	Bolshevik 88" Tire Curing Press		175	10/31/2008
82	642	761	McNeil 75" Tire Curing Press		175	10/31/2008
83	643	760	McNeil 75" Tire Curing Press		175	10/31/2008
84	644	711	Bolshevik 88" Tire Curing Press		175	10/31/2008
85	645	704	McNeil 85" Tire Curing Press		175	10/31/2008
86	646	703	McNeil 85" Tire Curing Press		175	10/31/2008
87	647	756	McNeil 75" Tire Curing Press		175	10/31/2008
88	648	757	McNeil 75" Tire Curing Press		175	10/31/2008
89	CP179/180	179/180	NMR 62" Dual Tire Curing Press		350	
90	CP181/182	181/182	NMR 62" Dual Tire Curing Press		350	
91	CP183/184	183/184	NMR 62" Dual Tire Curing Press		350	
92	CP195/196	195/196	NMR 63" Dual Tire Curing Press		350	

Item #	Emission Unit ID	Titan Curing Press #	Emission Unit Description	Model	Maximum Capacity (lb/hr)	Date of Construction
93	CP197/198	197/198	NMR 63" Dual Tire Curing Press		350	
94	CP215/216	215/216	NMR 42" Dual Tire Curing Press		350	
95	CP217/218	217/218	NMR 42" Dual Tire Curing Press		350	
96	CP219/220	219/220	NMR 40.5" Dual Tire Curing Press		350	
97	CP221/222	221/222	NMR 40.5" Dual Tire Curing Press		350	
98	CP223/224	223/224	McNeil 40.5" Dual Tire Curing Press		350	
99	CP229/230	229/230	McNeil 40.5" Dual Tire Curing Press		350	
100	CP237/238	237/238	McNeil 40" Dual Tire Curing Press		350	

Raw Material: Uncured Tires

Control Equipment: None

Total Maximum Capacity: 31,375 lb/hr rubber

Authority for Requirement: Polk County Construction Permit 0855 Modified #29

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: VOC

Emission Limits: 9.73 lbs./hr. and 23.25 TPY

Authority for Requirement: Polk County Construction Permit 0855 Modified #29

Pollutant: HAP (total)

Emission Limits: 2.68 lbs./hr. and 6.40 TPY

Authority for Requirement: Polk County Construction Permit 0855 Modified #29

Pollutant: HAP (single)

Emission Limits: 0.71 lbs./hr. and 1.70 TPY

Authority for Requirement: Polk County Construction Permit 0855 Modified #29

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: The facility shall not process more than 150,000,000 pounds of master rubber per 12 month period, rolled monthly.

Reporting & Record keeping:

- VOC and HAP actual emissions for EP 27 shall be calculated and reported annually, as part of the Iowa DNR Title V emission inventory process.
- On a monthly basis the amount of master rubber processed shall be recorded. Said record shall include the Twelve-month rolling total of master rubber processed. Said records shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: Polk County Construction Permit 0855 Modified #29

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Specifications for Building 22 Roof Vents:

Stack Height, (above grade): 30 feet

Stack Opening, (diameter): 24 inches

Exhaust Flow Rate: 6,750 scfm

Exhaust Temperature: 90°F

Discharge Style: Vertical, unobstructed

Authority for Requirement: Polk County Construction Permit 0855 Modified #29

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 28

Associated Equipment

Emissions Control Equipment ID Number: CE-28
Emissions Control Equipment Description: Composite Dry Filter Bank

Emission Unit vented through this Emission Point: 711
Emission Unit Description: Tractor Tire Buffing and Repair Booth, Bldg. 12
Raw Material/Fuel: Tire Paint; Rubber Tires
Rated Capacity: 1.38 lbs./hour; 5.00 each/hour

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit: No Visible Emissions
Authority for Requirement: Polk County Construction Permit 0911 Modified

Pollutant: PM₁₀
Emission Limits: 1.30 lbs/hr., 5.68 TPY, and 0.01 grains/dscf
Authority for Requirement: Polk County Construction Permit 0911 Modified

Pollutant: PM
Emission Limits: 1.30 lbs/hr., 5.68 TPY, and 0.01 grains/ dscf
Authority for Requirement: Polk County Construction Permit 0911 Modified
567 IAC 23.4(13)
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-16(m)

Pollutant: VOC
Emission Limit: 0.26 TPY
Authority for Requirement: Polk County Construction Permit 0911 Modified

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

- The facility shall not process more than 150,000,000 pounds of master rubber per 12 month period, rolled monthly. Records of master rubber processed shall be recorded and totaled monthly.
- The owner or operator shall not exceed the plant wide limits of the following materials and maximum percent constituents processed in the facility per twelve month rolling period, rolled monthly. Twelve month rolling records shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
 - Tread Cement: (91 weight % VOC, 0% HAP): 85,374 lb./ 12- month period
 - Tire Wash Solvent: (100% VOC, 0% HAP): 813,527 lbs/12- month period
 - Breakdown Solvent: (100% VOC, 4% Methanol by weight, <1% MIBK by weight): 2,766 lbs/12- month period
- Per §63.5985 (b) *Monthly average alternative, without using an add-on control device*. The facility shall use only cements and solvents in such a way that the monthly average HAP emissions do not exceed the emission limits in Table 1 to this subpart, option 1 or option 2.
- Per Part 63 Subpart XXXX Table 1, option 1, a. Emissions of each HAP in Table 16 to this subpart must not exceed 1,000 grams HAP per megagram (2 pounds per ton) of total cements and solvents used at the tire production affected source, and b. Emissions of each HAP not in Table 16 to this subpart must not exceed 10,000 grams HAP per megagram (20 pounds per ton) of total cements and solvents used at the tire production affected source.

Or

Option 2-production-based option. Emissions of HAP must not exceed 0.024 grams per megagram (0.00005 pounds per ton) of rubber used at the tire production affected source.

- Per §63.5990 (a) the facility must be in compliance with the applicable emission limitations specified in Tables 1 through 4 to this subpart at all times.
- The facility shall determine the mass percent of HAP in cements and solvents with methodology consistent with §63.5994 (a).
- The facility shall demonstrate continuous compliance with the emission limits for tire production affected sources per the requirements of §63.6004.

Work practice standards:

- The facility shall comply with all applicable conditions of 40 CFR 63 Subpart XXXX- National Emissions Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing.

Reporting & Record keeping:

- VOC and HAP actual emissions for EP 28 shall be calculated monthly and reported annually, as part of the Iowa DNR Title V emission inventory process.

- Twelve month rolling records of rubber processed shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
- Per §63.6009 the facility shall submit all required notifications by the dates specified.
- Per §63.6010 the facility shall submit all required reports by the dates specified.
- The facility shall keep the records specified in §63.6011.
- Records shall be kept in accordance with §63.6012.

Authority for Requirement: 40 CFR 63 Subpart XXXX

567 IAC 23.1(4)"cx"

Polk County Board of Health Rules and Regulations: Chapter V,
Article VIII, Section 5-20 (xxxx)

Polk County Construction Permit 0911 Modified

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 39 feet

Stack Opening, (circular): 22 inches

Exhaust Flow Rate: 15,120 acfm

Exhaust Temperature: 70 - 110°F

Discharge Style: Vertical, Unobstructed

Authority for Requirement: Polk County Construction Permit 0911 Modified

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

EP 28 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the Tractor Tire Buffing and Repair Booth, Bldg 12, (EU 711) with Composite Dry Filter Bank (CE-28) are operating. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Agency Approved Operation & Maintenance Plan Required? Yes No

Operation and Maintenance (O&M) Plan for Tractor Tire Buffing and Repair Booth, Bldg. 12, with Composite Dry Filter Bank (EU 711 / CE-28 / EP 28)

I) GENERAL INFORMATION

An operation and maintenance inspection will be completed each week to ensure that the process equipment and pollution control equipment are operating properly and being maintained.

II) O&M INSPECTION

An O&M inspection will be completed each week by the designated inspector. The inspection will consist of the following checks:

- Air pressure for spray gun is set within specified limits
- Hoses are in good condition with no audible air leaks
- Spray pattern is evenly distributed
- Filters have no holes or tears and are not clogged
- Cyclone dust collector has no holes, corrosion, audible air leaks, or leaking dust
- Ductwork has no holes, corrosion, audible air leaks, or leaking dust
- Area is clean and organized
- Visible emissions observation

The results of the inspection will be recorded on the 'Weekly Repair Booth Checks' form and the completed inspection form will be forwarded to the plant's Environmental Coordinator each week. The Quality Manager will check and verify that the 'Weekly Repair Booth Checks' is completed each week.

III) TRAINING

Persons completing the repair booths O&M inspections will be trained on inspection requirements and proper equipment operation. This training will be documented in the Quality Department's training logs.

Reporting & Record keeping: The weekly inspection form will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 29

Associated Equipment

Emissions Control Equipment ID Number: CE-29
Emissions Control Equipment Description: Torit Cyclone Dust Collector, Model 24

Emission Unit vented through this Emission Point: 712
Emission Unit Description: Passenger Tire Buffing and Repair Station, Bldg. 22
Raw Material/Fuel: Rubber Tires and Tire Paint
Rated Capacity: 10 tires/ hour and 2.76 lbs./ hour

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit: No Visible Emissions
Authority for Requirement: Polk County Construction Permit 2260

Pollutant: PM₁₀⁽¹⁾
Emission Limits: 0.26 lbs/hr., 1.13 TPY, and 0.01 grains/ dscf
Authority for Requirement: Polk County Construction Permit 2260

Pollutant: PM⁽¹⁾
Emission Limits: 0.26 lbs/hr., 1.13 TPY, and 0.01 grains/ dscf
Authority for Requirement: Polk County Construction Permit 2260
567 IAC 23.4(13)
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-16(m)

(1) For the tire painting operation)

Pollutant: PM₁₀⁽²⁾
Emission Limits: 1.29 lbs/hr., 5.63 TPY, and 0.05 grains/ dscf
Authority for Requirement: Polk County Construction Permit 2260

Pollutant: PM⁽²⁾
Emission Limits: 1.29 lbs/hr., 5.63 TPY, and 0.05 grains/ dscf
Authority for Requirement: Polk County Construction Permit 2260

(2) For the tire buffing operation

Pollutant: VOC

Emission Limit: 0.51 TPY

Authority for Requirement: Polk County Construction Permit 2260

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

- The facility shall not process more than 150,000,000 pounds of master rubber per 12 month period, rolled monthly. Records of master rubber processed shall be recorded and totaled monthly.
- The owner or operator shall not exceed the plant wide limits of the following materials and maximum percent constituents processed in the facility per twelve month rolling period, rolled monthly. Twelve month rolling records shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
 - Tread Cement: (91 weight % VOC, 0% HAP): 85,374 lb./ 12- month period
 - Tire Wash Solvent: (100% VOC, 0% HAP): 813,527 lbs/12- month period
 - Breakdown Solvent: (100% VOC, 4% Methanol by weight, <1% MIBK by weight): 2,766 lbs/12- month period
- The facility shall comply with all applicable conditions of 40 CFR 63 Subpart XXXX- National Emissions Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing.
- Per §63.5985 (b) *Monthly average alternative, without using an add-on control device*. The facility shall use only cements and solvents in such a way that the monthly average HAP emissions do not exceed the emission limits in Table 1 to this subpart, option 1 or option 2.
- Per Part 63 Subpart XXXX Table 1, option 1, a. Emissions of each HAP in Table 16 to this subpart must not exceed 1,000 grams HAP per megagram (2 pounds per ton) of total cements and solvents used at the tire production affected source, and b. Emissions of each HAP not in Table 16 to this subpart must not exceed 10,000 grams HAP per megagram (20 pounds per ton) of total cements and solvents used at the tire production affected source.

Or

Option 2-production-based option. Emissions of HAP must not exceed 0.024 grams per megagram (0.00005 pounds per ton) of rubber used at the tire production affected source.

Work practice standards:

- Per §63.5990 (a) the facility must be in compliance with the applicable emission limitations specified in Tables 1 through 4 to this subpart at all times.
- The facility shall determine the mass percent of HAP in cements and solvents with methodology consistent with §63.5994 (a).
- The facility shall demonstrate continuous compliance with the emission limits for tire production affected sources per the requirements of §63.6004.

Reporting & Record keeping:

- VOC and HAP actual emissions for EP 29 shall be calculated monthly and reported annually, as part of the Iowa DNR Title V emission inventory process.
- Twelve month rolling records of rubber processed shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
- Per §63.6009 the facility shall submit all required notifications by the dates specified.
- Per §63.6010 the facility shall submit all required reports by the dates specified.
- The facility shall keep the records specified in §63.6011.
- Records shall be kept in accordance with §63.6012.

Authority for Requirement: 40 CFR 63 Subpart XXXX

567 IAC 23.1(4)"cx"

Polk County Board of Health Rules and Regulations: Chapter V,
Article VIII, Section 5-20 (xxxx)

Polk County Construction Permit 2260

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 33 feet

Stack Opening, (circular): 12"

Exhaust Flow Rate: 3,000 acfm

Exhaust Temperature: 70°F to 110°F

Discharge Style: Horizontal

Authority for Requirement: Polk County Construction Permit 2260

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

EP 29 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the Passenger Tire Buffing and Repair Station, Bldg. 22. (EU 712) with Torit Cyclone Dust Collector, Model 24, (CE-29) are operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: 567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required? Yes No

Operation and Maintenance (O&M) Plan for Passenger Tire Buffing and Repair Station, Bldg. 22, with Torit Cyclone Dust Collector, Model 24, (EU 712 / CE-29 / EP 29)

I) GENERAL INFORMATION

An operation and maintenance inspection will be completed each week to ensure that the process equipment and pollution control equipment are operating properly and being maintained.

II) O&M INSPECTION

An O&M inspection will be completed each week by the designated inspector. The inspection will consist of the following checks:

- Air pressure for spray gun is set within specified limits
- Hoses are in good condition with no audible air leaks
- Spray pattern is evenly distributed
- Filters have no holes or tears and are not clogged
- Cyclone dust collector has no holes, corrosion, audible air leaks, or leaking dust
- Ductwork has no holes, corrosion, audible air leaks, or leaking dust
- Area is clean and organized
- Visible emissions observation

The results of the inspection will be recorded on the ‘Weekly Repair Booth Checks’ form and the completed inspection form will be forwarded to the plant’s Environmental Coordinator each week. The Quality Manager will check and verify that the ‘Weekly Repair Booth Checks’ is completed each week.

III) TRAINING

Persons completing the repair booths O&M inspections will be trained on inspection requirements and proper equipment operation. This training will be documented in the Quality Department's training logs.

Reporting & Record keeping: The weekly inspection form will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 34C

Associated Equipment

Emissions Control Equipment ID Number: CE-34C

Emissions Control Equipment Description: McMaster-Carr 2119K23 Hi-Volume Cyclone

Emission Unit vented through this Emission Point: 554

Emission Unit Description: Tractor Tire Repair Booth, Bldg. 18

Raw Material/Fuel: Rubber Tires

Rated Capacity: 7.0 tires/ hour

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: No Visible Emissions

Authority for Requirement: Polk County Construction Permit 1032 Modified #3

Pollutant: PM₁₀⁽¹⁾

Emission Limits: 0.33 lbs/hr., 1.43 TPY, and 0.01 grains/ dscf

Authority for Requirement: Polk County Construction Permit 1032 Modified #3

Pollutant: PM⁽¹⁾

Emission Limits: 0.33 lbs/hr., 1.43 TPY, and 0.01 grains/ dscf

Authority for Requirement: Polk County Construction Permit 1032 Modified #3

567 IAC 23.4(13)

Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-16(m)

⁽¹⁾For the tire painting operation

Pollutant: PM₁₀⁽²⁾

Emission Limits: 1.63 lbs/hr., 7.13 TPY, and 0.05 grains/ dscf

Authority for Requirement: Polk County Construction Permit 1032 Modified #3

Pollutant: PM⁽²⁾

Emission Limits: 1.63 lbs/hr., 7.13 TPY, and 0.05 grains/ dscf

Authority for Requirement: Polk County Construction Permit 1032 Modified #3

⁽²⁾For the tire buffing operation

Pollutant: VOC

Emission Limit: 0.36 TPY

Authority for Requirement: Polk County Construction Permit 1032 Modified #3

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

- The facility shall not process more than 150,000,000 pounds of master rubber per 12 month period, rolled monthly. Records of master rubber processed shall be recorded and totaled monthly.
- The owner or operator shall not exceed the plant wide limits of the following materials and maximum percent constituents processed in the facility per twelve month rolling period, rolled monthly. Twelve month rolling records shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
 - Tread Cement: (91 weight % VOC, 0% HAP): 85,374 lb./ 12- month period
 - Tire Wash Solvent: (100% VOC, 0% HAP): 813,527 lbs/12- month period
 - Breakdown Solvent: (100% VOC, 4% Methanol by weight, <1% MIBK by weight): 2,766 lbs/12- month period
- The facility shall comply with all applicable conditions of 40 CFR 63 Subpart XXXX- National Emissions Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing.
- Per §63.5985 (b) *Monthly average alternative, without using an add-on control device*. The facility shall use only cements and solvents in such a way that the monthly average HAP emissions do not exceed the emission limits in Table 1 to this subpart, option 1 or option 2.
- Per Part 63 Subpart XXXX Table 1, option 1, a. Emissions of each HAP in Table 16 to this subpart must not exceed 1,000 grams HAP per megagram (2 pounds per ton) of total cements and solvents used at the tire production affected source, and b. Emissions of each HAP not in Table 16 to this subpart must not exceed 10,000 grams HAP per megagram (20 pounds per ton) of total cements and solvents used at the tire production affected source.

Or

Option 2-production-based option. Emissions of HAP must not exceed 0.024 grams per megagram (0.00005 pounds per ton) of rubber used at the tire production affected source.

Work practice standards:

- Per §63.5990 (a) the facility must be in compliance with the applicable emission limitations specified in Tables 1 through 4 to this subpart at all times.
- The facility shall determine the mass percent of HAP in cements and solvents with methodology consistent with §63.5994 (a).
- The facility shall demonstrate continuous compliance with the emission limits for tire production affected sources per the requirements of §63.6004.

Reporting & Record keeping:

- VOC and HAP actual emissions for EP 34C shall be calculated monthly and reported annually, as part of the Iowa DNR Title V emission inventory process.
- Twelve month rolling records of rubber processed shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
- Per §63.6009 the facility shall submit all required notifications by the dates specified.
- Per §63.6010 the facility shall submit all required reports by the dates specified.
- The facility shall keep the records specified in §63.6011.
- Records shall be kept in accordance with §63.6012.

Authority for Requirement: 40 CFR 63 Subpart XXXX

567 IAC 23.1(4)"cx"

Polk County Board of Health Rules and Regulations: Chapter V,
Article VIII, Section 5-20 (xxxx)

Polk County Construction Permit 1032 Modified #3

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 36 feet

Stack Opening, (circular): 11 13/16 inches

Exhaust Flow Rate: 3,800 acfm

Exhaust Temperature: 70°F to 110°F

Discharge Style: Horizontal

Authority for Requirement: Polk County Construction Permit 1032 Modified #3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

EP 34C shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the Tractor Tire Repair Booth, Bldg 18, (EU 554) with McMaster-Carr 2119K23 Hi-Volume Cyclone (CE-34C) are operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: 567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 35

Associated Equipment

Associated Emission Unit ID Numbers: 913, 913A, 913B, 913C, and 913D

EU	EU Description	Raw Material	Rated Capacity	Control ID
913	Tire Mold Repair Welding Station	Welding Rod: E-6010	0.12 lbs./ hr.	NA
913A	Tire Mold Repair Welding Station	Welding Rod: E-6011	0.04 lbs./ hr.	NA
913B	Tire Mold Repair Welding Station	Welding Rod: E-7024	0.04 lbs./ hr.	NA
913C	Tire Mold Repair Welding Station	Welding Rod: E-6013	0.05 lbs./ hr.	NA
913D	Tire Mold Repair Welding Station	Welding Rod: E-6010	0.12 lbs./ hr.	NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20% opacity

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9

Pollutant: PM

Emission Limit: 0.10 gr./dscf

Authority for Requirement: 567 IAC 23.3(2)"a"
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 36

Associated Equipment

Emissions Control Equipment ID Number: CE-36

Emissions Control Equipment Description: Cyclone Separator and Baghouse

Emission Unit vented through this Emission Point: 826

Emission Unit Description: Tire Mold Cleaning Station (3 Mold Cleaning Sand Blasting Units)

Raw Material/Fuel: Sand

Rated Capacity: 2,400 lbs./ hr.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: No Visible Emissions

Authority for Requirement: Polk County Construction Permit 0919

Pollutant: PM₁₀

Emission Limits: 2.57 lb./hr., 11.26 TPY, and 0.10 gr./ scf

Authority for Requirement: Polk County Construction Permit 0919

Pollutant: PM

Emission Limit: 0.10 gr./scf

Authority for Requirement: 567 IAC 23.3(2)"a"

Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Work practice standards: Routine Periodic Inspection.

Authority for Requirement: Polk County Construction Permit 0919

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

- Pollutant - PM₁₀
- Stack Test to be Completed by- April 19, 2024
- Test Method - 40 CFR Part 51, Appendix M, Method 202
in conjunction with a Method 201 A test.
- Authority for Requirement - 567 IAC 22.108(3)

The owner of this equipment or the owner’s authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Compliance Assurance Monitoring Plan:

Tire Mold Cleaning Station (3 Mold Cleaning Sand Blasting Units), with Cyclone Separator and Baghouse

I. BACKGROUND

A. Emissions Unit

Description: Tire Mold Cleaning Station (3 Mold Cleaning Sand Blasting Units)
 Emission Units included: (EP 36 / CE-36 / EU 826)
 Facility: Titan Tire Corporation, Des Moines, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation: 567 IAC 23.3(2)"a"
 Polk County Board of Health Rules and Regulations Chapter V,
 Article VI, Section 5-14(b)

Pollutant: Particulate Matter
 Emission Limit: 0.10 gr./ scf

Regulation: Polk County Construction Permit 0919
 Pollutant: Particulate Matter less than 10 microns
 Emission Limit: 2.57 lbs/hr., 11.26 TPY, and 0.10 gr./ scf

Monitoring Requirements: Visible emissions, periodic monitoring

C. Control Technology

Cyclone Separator and Baghouse

II. Monitoring Approach

A. Indicator

Visible emissions will be used as an indicator.

B. Measurement Approach

EP 36 shall be visually checked for observable emissions once every day by a designated observer, on days when EU 826 is in operation. The observation shall be taken while the Tire Mold Cleaning Station (3 Mold Cleaning Sand Blasting Units) (EU 826) with Cyclone Separator and Baghouse (CE-36) are operating. The observation shall be noted in a log book, which shall state the date, time, observer's signature, and whether any emissions were observed. If visible emissions are observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request. Baghouse corrective actions and maintenance activities shall also be noted in the log book.

The following parameters will be monitored and recorded weekly:

1. The baghouse, associated components, and ductwork inspected for leaking dust, holes, corrosion, and audible air leaks.

C. Performance Criteria (PC) and Corrective Action (CA)

1. Exhaust

(PC) There should be no visible emissions from the baghouse exhaust.

(CA) Troubleshooting contingency measure will be implemented and corrective action will be taken within 8 hours of discovery.

2. Entire System

(PC) The baghouse, associated components, and ductwork should not have holes or corrosion; nor should it leak dust or have audible air leaks.

(CA) Corrective action will be taken within 7 days of discovery.

D. Record Keeping

The following records will be maintained on site for a minimum of five (5) years and will be available to representatives of Polk County AQD upon request to demonstrate on-going compliance:

The daily inspections log will track the

1. Lack of visible emissions from the exhaust
2. Any corrective actions taken.
3. Date and time of inspection.
4. Inspector's signature.

The weekly inspection log will track the inspection of the baghouse, associated components, and ductwork for lack of leaks, holes, corrosion, and audible air leaks.

E. Indicator Range

The indicator level is no visible emissions.

F. Performance Criteria

Data Representativeness: Measurements are being made at the emission point.

QA/QC Practices and Criteria: The observer will use EPA Reference Method 22-like procedures when checking for visible emissions.

Monitoring Frequency and Data Collection Procedure: A visible emission observation will be performed daily, on days when EU 826 is operated.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 38

Associated Equipment

Associated Emission Unit ID Numbers: 820 and 821

EU	EU Description	Raw Material	Rated Capacity	Control ID
820	Boiler #1, 18.39 MM BTU/ Hr.	Natural Gas	0.01803 MMCF/ Hr.	NA
821	Boiler #2, 18.39 MM BTU/ Hr.	Natural Gas	0.01803 MMCF/ Hr.	NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20%

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V, Article IV, Section 5-9

Pollutant: PM

Emission Limit: 0.52 lb./ MM BTU

Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V, Article V, Section 5-12 (2)

Pollutant: SO₂

Emission Limits: 500 parts per million by volume

Authority for Requirement: 567 IAC 23.3(3)"e"

Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27 (5)

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

NESHAP:

See Plant-Wide Conditions for NESHAP requirements.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 39

Emission Unit vented through this Emission Point: 822
Emission Unit Description: Boiler #3, 43.88 MM BTU/ Hr.
Raw Material/Fuel: Natural Gas
Rated Capacity: 0.04302 MMCF/ Hr.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20%

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9

Pollutant: PM

Emission Limit: 0.425 lb./ MM BTU

Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V,
Article V, Section 5-12 (2)

Pollutant: SO₂

Emission Limits: 500 parts per million by volume

Authority for Requirement: 567 IAC 23.3(3)"e"

Polk County Board of Health Rules and Regulations: Chapter V,
Article IX, Section 5-27 (5)

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

NESHAP:

See Plant-Wide Conditions for NESHAP requirements.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 40

Emission Unit vented through this Emission Point: 823
Emission Unit Description: Boiler #4, 31.34 MM BTU/ Hr.
Raw Material/Fuel: Natural Gas
Rated Capacity: 0.03073 MMCF/ Hr.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20%

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9

Pollutant: PM

Emission Limits: 0.46 lb./ MM BTU and

Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V,
Article V, Section 5-12 (2)

Pollutant: SO₂

Emission Limits: 500 parts per million by volume

Authority for Requirement: 567 IAC 23.3(3)"e"

Polk County Board of Health Rules and Regulations: Chapter V,
Article IX, Section 5-27 (5)

Operational Limits & Reporting/Record keeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

NESHAP:

See Plant-Wide Conditions for NESHAP requirements.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 41

Associated Equipment

Associated Emission Unit ID Numbers: 007 and 008

EU	EU Description	Raw Material	Rated Capacity	Control ID
007	Slab Dip Mixer 1	Slab Dip	7.744 lbs./ hr.	NA
008	Slab Dip Mixer 2	Slab Dip	7.744 lbs./ hr.	NA

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20%

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9

Pollutant: PM

Emission Limit: 0.10 gr/scf

Authority for Requirement: 567 IAC 23.3(2)"a"
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

EP 41 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the Slab Dip Mixers (EU 007 and 008) are operating. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity greater than or equal to 20% opacity is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 45

Emission Unit vented through this Emission Point: 221
Emission Unit Description: #8 Rubber Extruder
Raw Material/Fuel: Rubber
Rated Capacity: 1100.80 lb./hr.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

No applicable emission limits at this time.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 47

Associated Equipment

Emissions Control Equipment ID Number: CE-47
Emissions Control Equipment Description: Bulk Lift Bag Filter

Emission Unit vented through this Emission Point: 001
Emission Unit Description: Carbon Black Unloading Station
Raw Material/Fuel: Carbon Black
Rated Capacity: 71,000. lbs./ hr.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: <20%

Authority for Requirement: Polk County Board of Health Rules and Regulations: Chapter V,
Article IV, Section 5-9

Pollutant: PM

Emission Limit: 0.10 gr/ scf

Authority for Requirement: 567 IAC 23.3(2)"a"
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

EP 47 shall be visually checked for observable emissions once every week by a designated observer. The observation shall be taken while the Carbon Black Unloading Station (EU 001) with Bulk Lift Bag Filter, (CE-47) are operating at or near full capacity. The observation shall be noted in a log book, which shall state the date, time, observer’s signature, and whether any emissions were observed. If visible emissions are observed, corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity $\geq 20\%$ is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from observation of the violation.

If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits. The log book will be maintained on site for 5 years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: 567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 50

Emission Unit vented through this Emission Point: 825

Emission Unit Description: Rubber Hot Rooms (5),
each with 150,000 BTU Natural Gas Furnaces (5)

Raw Material/Fuel: Natural Gas

Rated Capacity: 148 scf/ Hr. (each)

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from each of the five (5) furnace vents shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: No Visible Emissions

Authority for Requirement: Polk County Construction Permit Number 0916

Pollutant: PM₁₀

Emission Limits: 0.002 lbs./ hr. and 0.007 TPY

Authority for Requirement: Polk County Construction Permit Number 0916

Pollutant: PM

Emission Limit: 0.10 gr/scf

Authority for Requirement: 567 IAC 23.3(2)"a"

Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-14(b)

Pollutant: SO₂

Emission Limits: 0.00009 lbs./ hr., 0.0004 TPY, and 500 parts per million by volume

Authority for Requirement: Polk County Construction Permit Number 0916

567 IAC 23.3(3)"e"

Polk County Board of Health Rules and Regulations: Chapter V,
Article IX, Section 5-27

Pollutant: NO_x

Emission Limits: 0.0141 lbs./ hr. and 0.062 TPY

Authority for Requirement: Polk County Construction Permit Number 0916

Pollutant: VOC

Emission Limits: 0.002 lbs./ hr. and 0.007 TPY

Authority for Requirement: Polk County Construction Permit Number 0916

Pollutant: CO

Emission Limits: 0.006 lbs./ hr. and 0.03 TPY

Authority for Requirement: Polk County Construction Permit Number 0916

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Work practice standards: Routine Periodic Inspection

Authority for Requirement: Polk County Construction Permit Number 0916

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 52

Associated Equipment

See Table Below

EU	EU Description	Raw Material	Rated Capacity	Control ID & Description
<i>Grandfathered Emission Units:</i>				
307	Adamson Z Calendar Breakdown Mill	Rubber	3,153.17 lbs./ hr. (each)	N/A
308	Adamson Z Calendar Breakdown Mill			
309	Adamson Z Calendar Holding Mill			
310	Adamson Z Calendar Holding Mill			
311	Adamson Z Calendar Feed Mill			
312	Adamson Z Calendar Feed Mill			
313	Adamson 4 Roll Calendar for Z Calendar	Rubber	6,306.94 lbs./ hr.	N/A
<i>Construction Permitted Emission Units</i>				
401	Royle 2 Bead Former #1	Rubber	59.2 lbs./ hr.	N/A
408	NRM 3-1/2 Vanguard Bead Former #3	Rubber	147.9 lbs./ hr.	
500	NRM Model 89 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
501	Cooper Tire Model 80 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
502	Cooper Tire Conversion Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
503	Han Kook 3255 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
504	NRM 80S Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
505	NRM 80S Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
506	NRM 80S Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
507	NRM 80S Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
508	NRM 80S Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
509	NRM 80S Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
510	NRM 80S Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
511	NRM 610 Tire Assembly Machine	Tire Wash Solvent	0.84 lbs./ hr.	
512	NRM 89 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
513	NRM 89 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
514	NRM 89 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
515	NRM 88 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
516	NRM 88 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
517	NRM 88 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
518	NRM 88 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
519	Cooper Tire Conversion Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
520	RRR Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
524	NRM C1519 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
525	NRM C1519 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
526	NRM 80W Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
527	NRM 80W Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
550	NRM 61 Tire Assembly Machine	Tire Wash Solvent	0.84 lbs./ hr.	
564	NRM 95 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
568	NRM 610 Tire Assembly Machine	Tire Wash Solvent	0.84 lbs./ hr.	
569	NRM 610 Tire Assembly Machine	Tire Wash Solvent	0.84 lbs./ hr.	
570	NRM 95 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
574	NRM 95 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
575	NRM 95 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
576	NRM 95 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
577	NRM 95 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
578	Han Kook 3255 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
582	ASM Model 114 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
594	ASM Model 114 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	

EU	EU Description	Raw Material	Rated Capacity	Control ID & Description
728	NRM 401 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	N/A
729	NRM 401 Tire Assembly Machine	Tire Wash Solvent	0.47 lbs./ hr.	
587	Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#927/928)	Rubber and Inside Spray	Extruder: 4500 lb/hr [rubber] Spray booth: 4.92 gal/hr	CE-587 Dry Filter on the Spray Booth
589	Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#929/930)	Rubber and Inside Spray	Extruder: 4500 lb/hr [rubber] Spray booth: 4.92 gal/hr	CE-589 Dry Filter on the Spray Booth
595	Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#935/936)	Rubber and Inside Spray	Extruder: 4500 lb/hr [rubber] Spray booth: 4.92 gal/hr Extruder: 4500 lb/hr [rubber] Spray booth: 4.92 gal/hr	CE-595 Dry Filter on the Spray Booth
599	Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#939/940)	Rubber and Inside Spray	Extruder: 4500 lb/hr [rubber] Spray booth: 4.92 gal/hr	CE-599 Dry Filter on the Spray Booth
600	Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth	Rubber and Inside Spray	Extruder: 4500 lb/hr [rubber] Spray booth: 4.92 gal/hr	CE-600 Dry Filter on the Spray Booth

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emissions point shall not exceed the levels specified below.

VOC and HAP Emitting Sources:

EU	Opacity	VOC	HAP (combined)	Authority for Requirement
401	No visible emissions	3.35E-04 lbs./ hr. & 0.001 TPY	0.001 TPY	Polk County Construction Permit 3500 Modified
408	No visible emissions	8.39E-04 lbs./ hr. & 0.004 TPY	0.005 TPY	Polk County Construction Permit 3500 Modified

VOC Emitting Sources:

EU	VOC	Authority for Requirement
500 – 520, 524 – 527, 550, 564, 568 – 570, 574 – 578, 582, 594, 728, 729	90.50 TPY (combined)	Polk County Construction Permit 2081 Modified #6

Spraybooths:

EU	Opacity	PM ⁽¹⁾	PM ₁₀	VOC	Authority for Requirement
587, 589, 595, 599, 600	No visible emissions	0.33 lbs./ hr. & 1.45 TPY & 0.01 gr./ dscf. (each EU)	0.33 lbs./ hr. & 1.45 TPY & 0.01 gr./ dscf. (each EU)	1.47 TPY (each EU)	Polk County Construction Permit 2047 Modified
587, 589, 595, 599, 600	No visible emissions	7.25 TPY (combined total) & 0.01 gr./ dscf.	7.25 TPY (combined total) & 0.01 gr./ dscf.	7.35 TPY (combined total)	Polk County Construction Permit 2047 Modified

⁽¹⁾Authority for Requirement: 567 IAC 23.4(13)
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(m)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

- The facility shall not process more than 150,000,000 pounds of master rubber per 12-month period, rolled monthly. Records of master rubber processed shall be recorded and totaled monthly.
- Twelve month rolling records of rubber processed shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
- The owner or operator shall not exceed the plant wide limits of the following materials and maximum percent constituents processed in the facility per twelve month rolling period, rolled monthly. Twelve month rolling records shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
 - Tire Wash Solvent: (100% VOC, 0% HAP): 813,527 lbs per 12-month period, rolled monthly.
- The facility shall comply with all applicable requirements of 40 CFR Part 60 Subpart BBB- Standards of Performance for the Rubber Tire Manufacturing Industry.
- Each green tire spraying operation shall use only water-based sprays (inside and/or outside) containing less than 1.0 percent, by weight, of VOC, per §60.542(a).

Work practice standards: Routine Periodic Inspection.

Reporting & Record keeping:

- Records showing the plant-wide rolling twelve month amounts of tire wash solvent used and emitted will be recorded in a log book, be maintained on site for five (5) years, and be made available to the representatives of Polk County AQD upon request. The total amount will be divided proportionally amongst the emission units that utilize the material, for compliance and emission inventory purposes, and will be recorded in a log book, be maintained on site for five (5) years, and be made available to the representatives of Polk County AQD upon request.
- The facility shall submit formulation data or the results of Method 24 analysis annually to verify the VOC content of each green tire spray material per §60.543 (4).
- VOC and HAP actual emissions for EP 52 shall be calculated monthly and reported annually, as part of the Iowa DNR Title V emission inventory process.
- Inside Spray Application Material shall not contain any HAPs as defined by section 112 of the 1990 Clean Air Act Amendments. MSD Sheets shall be maintained on site for the Inside Spray Material Application Material and be made available to representatives of Polk County AQD upon request.
- The owner or operator shall comply with the record keeping requirements of §60.545(f).
- The owner or operator shall comply with the reporting requirements of §60.546.

40 CFR 63 Subpart XXXX Requirements:

- The facility shall comply with all applicable requirement of 40 CFR 63 Subpart XXXX- *National Emissions Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing*.
- Per §63.5984 the emission limit per Table 1 is “a. emissions of each HAP in Table 16 to this subpart must not exceed 1,000 grams HAP per megagram (2 pounds per ton) of total cements and solvents used at the tire production affected source, and b. Emissions of each HAP not in Table 16 to this subpart must not exceed 10,000 grams HAP per megagram (20 pounds per ton) of total cements and solvents used at the tire production affected source.
- Per §63.5985 (b) *Monthly average alternative, without using an add-on control device*. Use cements and solvents in such a way that the monthly average HAP emissions do not exceed the emission limits in Table 1 to this subpart, option 1 or option 2.
- Must be in compliance with the applicable emission limitations specified in Tables 1-4 to this subpart at all times per §63.5990 (a).
- Shall conduct performance test and procedures in accordance with §63.5993.
- Shall use the methods described in §63.5994 (a) to determine the mass percent of HAP in cements and solvents.
- Shall use the methods described in §63.5994 (b) to demonstrate compliance with the HAP constituent emission limits in Table 1 to this subpart.
- Shall demonstrate initial compliance with the emission limit that applies to you according to Table 6 of this subpart per §63.5996 (a) and (b).
- Shall monitor and collect data as specified in Table 9 to this subpart to demonstrate continuous compliance with the emission limit per §63.6003.
- Shall demonstrate continuous compliance with the emission limits using methods specified in Table 10 per §63.6004 (a).
- Must submit all of the notifications in §§63.7, that apply to you by the dates specified per §63.6009 (a).
- Must submit each applicable report in Table 15 to this subpart per §63.6010 (a).
- Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 15 per §63.6010 (b).
- Must keep the records specified in paragraphs (a)(1) through (3) of this section per §63.6011(a).
- For each tire production affected source, must keep the records specified in Table 9 to this subpart to show continuous compliance per §63.6011(b).
- Keep records in a form and for the period of time specified in this section per §63.6012.

NOTE: The absence of the inclusion of any NESHAP requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NESHAP conditions.

- The facility shall comply with all applicable conditions of 40 CFR 63 Subpart XXXX- *National Emissions Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing*.
- Per §63.5985 (b) *Monthly average alternative, without using an add-on control device*. The facility shall use only cements and solvents in such a way that the monthly average HAP emissions do not exceed the emission limits in Table 1 to this subpart, option 1 or option 2.
- Per Part 63 Subpart XXXX Table 1, option 1, a. Emissions of each HAP in Table 16 to this subpart must not exceed 1,000 grams HAP per megagram (2 pounds per ton) of total cements and solvents used at the tire production affected source, and b. Emissions of each HAP not in Table 16 to this subpart must not exceed 10,000 grams HAP per megagram (20 pounds per ton) of total cements and solvents used at the tire production affected source.

Or

Option 2-production-based option. Emissions of HAP must not exceed 0.024 grams per megagram (0.00005 pounds per ton) of rubber used at the tire production affected source.

- Per §63.5990 (a) the facility must be in compliance with the applicable emission limitations specified in Tables 1 through 4 to this subpart at all times.
- The facility shall determine the mass percent of HAP in cements and solvents with methodology consistent with §63.5994 (a).
- The facility shall demonstrate continuous compliance with the emission limits for tire production affected sources per the requirements of §63.6004.
- Per §63.6009 the facility shall submit all required notifications by the dates specified.
- Per §63.6010 the facility shall submit all required reports by the dates specified.
- The facility shall keep the records specified in §63.6011.
- Records shall be kept in accordance with §63.6012.

Authority for Requirement: Polk County Construction Permit 3500 Modified
Polk County Construction Permit 2081 Modified #6
Polk County Construction Permit 2047 Modified
40 CFR Part 60 Subpart BBB
40 CFR 63 Subpart XXXX
567 IAC 23.1(2)"eee"
567 IAC 23.1(4)"cx"
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-16(n)(57)
Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-20(XXXX)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Required for CE-587, CE-589, CE-595, CE-599, and CE-600.

Spray Booth Agency Operation & Maintenance Plan

Weekly

- Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 54

Associated Equipment

See Table Below

EU	EU Description	Raw Material	Rated Capacity	Control ID & Description
<i>Grandfathered Emission Units:</i>				
534	Tire Assembly Machine, NRM Model 61 (#406)	Tire Wash Solvent	0.84 lbs./ hr. (each)	N/A
535	Tire Assembly Machine, NRM Model 61 (#401)			
536	Tire Assembly Machine, NRM Model 61 (#402)			
538	Tire Assembly Machine, NRM Model 61 (#403)			
540	Tire Assembly Machine, NRM Model 61 (#404)			
541	Tire Assembly Machine, NRM Model 61 (#415)			
545	Tire Assembly Machine, NRM Model 61 (#409)			
546	Tire Assembly Machine, NRM Model 61 (#411)			
547	Tire Assembly Machine, NRM Model 61 (#414)			
548	Tire Assembly Machine, NRM Model 61 (#408)			
549	Tire Assembly Machine, NRM Model 61 (#412)			
565	Tire Assembly Machine, NRM Model 61 (#405)			
566A	Tire Assembly Machine, NRM Model 61 (#416)			
573	Tire Assembly Machine, NRM Model 61C (#413)			
<i>Construction Permitted Emission Units:</i>				
537	Tire Assembly Machine, Akron Standard Model 336 (#420)	Tire Wash Solvent	0.84 lbs./ hr.	N/A
566	Tire Assembly Machine, NRM Model 610 (#418)	Tire Wash Solvent	0.84 lbs./ hr.	N/A
553	Tire Assembly Machine, NRM Model RRR	Tire Wash Solvent	0.84 lbs./ hr.	N/A
542	Tire Assembly System with Extruder (1), Stripwinders (2), and Spraybooth (1)	Rubber Inside Spray	4,500 lbs./ hr. 4.92 gallons/ hr.	CE-542 Dry filter on the spraybooth
543	Tire Assembly System with Extruder (1), Stripwinders (2), and Spraybooth (1)	Rubber Inside Spray	4,500 lbs./ hr. 4.92 gallons/ hr.	CE-543 Dry filter on the spraybooth
552	Tire Assembly System with Extruder (1), Stripwinders (2), and Spraybooth (1)	Rubber Inside Spray	4,500 lbs./ hr. 4.92 gallons/ hr.	CE-552 Dry filter on the spraybooth

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

EU	Opacity	PM ⁽¹⁾	PM ₁₀	VOC	Authority for Requirement
537	No visible emissions	N/A	N/A	3.67 TPY	Polk County Construction Permit 1417
542, 543, and 552	No visible emissions	4.35 TPY (combined), 0.01 gr./dscf.	4.35 TPY (combined), 0.01 gr./dscf.	9.96 TPY (combined)	Polk County Construction Permit 2131
553	N/A	N/A	N/A	0.84 lb./ hr. and 3.68 TPY	Polk County Construction Permit 3691
566	No visible emissions	N/A	N/A	3.67 TPY	Polk County Construction Permit 1414

⁽¹⁾Authority for Requirement: 567 IAC 23.4(13)
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-16(m)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

- Plant wide limit of the Tire Wash Solvent shall be limited to 813,527 pounds per rolling 12 month period, rolled monthly. Twelve month rolling records shall be maintained on site for five (5) years and be made available to the representatives of Polk County AQD upon request.
- The facility shall not process more than 150,000,000 pounds of rubber per 12 month period, rolled monthly. Twelve month rolling records of rubber processed in the facility shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.

Work practice standards:

- Routine Periodic Inspection.
- Inside Spray Application Material shall not contain any HAPs as defined by section 112 of the 1990 Clean Air Act Amendments.
- Tire Wash Solvent shall not contain any HAPs as defined by section 112 of the 1990 Clean Air Act Amendments.
- The facility shall comply with all applicable requirements of 40 CFR Part 60 Subpart BBB- Standards of Performance for the Rubber Tire Manufacturing Industry.
- Each green tire spraying operation shall use only water-based sprays (inside and/or outside) containing less than 1.0 percent, by weight, of VOC per §60.542 (a).

Reporting & Record keeping:

- VOC and HAP actual emissions for EP 54 shall be calculated and reported annually, as part of the Iowa DNR Title V emission inventory process.
- MSD Sheets shall be maintained on site for the Inside Spray Material Application Material and be made available to representatives of Polk County AQD upon request.
- MSD Sheets shall be maintained on site for the Tire Wash Solvent and be made available to representatives of Polk County AQD upon request.
- The facility shall submit formulation data or the results of Method 24 analysis annually to verify the VOC content of each green tire spray material per §60.543 (4).

Authority for Requirement: Polk County Construction Permit 0578 MODIFIED
 Polk County Construction Permit 1417
 Polk County Construction Permit 2131
 Polk County Construction Permit 1414
 Polk County Construction Permit 3691
 40 CFR Part 60 Subpart BBB
 567 IAC 23.1(2)"eee"
 Polk County Board of Health Rules and Regulations Chapter V,
 Article VI, Section 5-16(n)(57)
 567 IAC 22.108(14)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No
 Required for CE-542, CE-543, and CE-552

Weekly

- Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 55 (Vents Internally)

Emission Unit vented through this Emission Point: 126
Emission Unit Description: Rubber Pellet Storage
Raw Material/Fuel: Rubber Pellets
Rated Capacity: 108.44 lbs./ hr.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust

Emission Limit: It shall be unlawful for any person handling, loading, unloading, reloading, storing, transferring, transporting, placing, depositing, throwing, discarding, or scattering any ashes, fly ash, cinders, slag or dust collected from any combination process, any dust, dirt, chaff, wastepaper, trash, rubbish, waste or refuse matter of any kind, or any other substance or material whatever, which is likely to be scattered by the wind, or is susceptible to being wind-borne, to do so without taking reasonable precautions or measures to prevent particulate matter from becoming airborne so as to minimize atmospheric pollution.

Authority for Requirement: Polk County Board of Health Rules and Regulations Chapter V,
Article IX, Section 5-24

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 56**Associated Equipment**Associated Emission Unit ID Numbers: 007 and 008

EU	EU Description	Raw Material	Rated Capacity	Control ID
402	Bead Former #5	Rubber	147.89 lbs./ hr.	N/A
403	Bead Former #6	Rubber	88.74 lbs./ hr.	N/A
404	Solvent Wash of Bead Filler	Heptane	0.91 lbs./ hr.	N/A

Applicable Requirements**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)***The emissions from this emission point shall not exceed the levels specified below.*

EU	VOC (lb/hr)	VOC (TPY)	HAP (combined) TPY	Authority for Requirement
402	8.39E-04	0.004	0.005	Polk County Construction Permit 1403 Modified
403	5.03E-04	0.002	0.003	Polk County Construction Permit 1403 Modified
404	0.91	3.99	N/A	Polk County Construction Permit 1403 Modified

Operational Limits & Requirements*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.***NESHAP Requirements:**

- The facility shall comply with all applicable requirement of 40 CFR 63 Subpart XXXX-*National Emissions Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing*
- Per §63.5984 the emission limit per Table 1 is “a. emissions of each HAP in Table 16 to this subpart must not exceed 1,000 grams HAP per megagram (2 pounds per ton) of total cements and solvents used at the tire production affected source, and b. Emissions of each HAP not in Table 16 to this subpart must not exceed 10,000 grams HAP per megagram (20 pounds per ton) of total cements and solvents used at the tire production affected source.
- Per §63.5985(b) *Monthly average alternative, without using an add-on control device.* Use cements and solvents in such a way that the monthly average HAP emissions do not exceed the emission limits in Table 1 to this subpart, option 1 or option 2.

- Must be in compliance with the applicable emission limitations specified in Tables 1-4 to this subpart at all times per §63.5990(a).
- Shall conduct performance test and procedures in accordance with §63.5993.
- Shall use the methods described in §63.5994(a) to determine the mass percent of HAP in cements and solvents.
- Shall use the methods described in §63.5994(b) to demonstrate compliance with the HAP constituent emission limits in Table 1 to this subpart.
- Shall demonstrate initial compliance with the emission limit that applies to you according to Table 6 of this subpart per §63.599(a) and (b).
- Shall monitor and collect data as specified in Table 9 to this subpart to demonstrate continuous compliance with the emission limit per §63.6003.
- Shall demonstrate continuous compliance with the emission limits using methods specified in Table 10 per §63.6004(a).
- Must submit all of the notifications in §§63.7, that apply to you by the dates specified per §63.6009 (a).
- Must submit each applicable report in Table 15 to this subpart per §63.6010(a).
- Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 15 per §63.6010(b).
- You must keep the records specified in paragraphs (a)(1) through (3) of this section per §63.6011(a).
- For each tire production affected source, you must keep the records specified in Table 9 to this subpart to show continuous compliance per §63.6011(b).
- Keep records in a form and for the period of time specified in this section per §63.6012.

NOTE: The absence of the inclusion of any NESHAP requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NESHAP conditions.

Process throughput:

- The facility shall not process more than 150,000,000 pounds of master rubber per 12-month period, rolled monthly. Records of master rubber processed shall be recorded and totaled monthly.
- The owner or operator shall not exceed the plant wide limits of the following materials and maximum percent constituents processed in the facility per twelve-month rolling period, rolled monthly. Twelve-month rolling records shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
 - Tire Wash Solvent: (100% VOC, 0% HAP): 813,527 lbs per 12-month period, rolled monthly.

Reporting & Record keeping:

- Twelve month rolling records of rubber processed shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: Polk County Construction Permit Number 1403 Modified
 40 CFR 63 Subpart XXXX
 567 IAC 23.1(4)"cx"
 Polk County Board of Health Rules and Regulations Chapter V,
 Article VIII, Section 5-20(xxxx)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 65 feet

Stack Opening, (circular): 24"

Exhaust Flow Rate: 100 scfm

Exhaust Temperature: 80°F

Discharge Style: Horizontal

Authority for Requirement: Polk County Construction Permit 1403 Modified

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 58

Emission Unit vented through this Emission Point: 316

Emission Unit Description: (3) Wasik Associates, Inc. Electron Beam Scanners

Raw Material/Fuel: Electricity; Ozone

Rated Capacity: 400 kiloVolts, 100 milliAmps; 2.66 lbs./ hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: No Visible Emissions

Authority for Requirement: Polk County Construction Permit Number 2064

Pollutant: Ozone

Emission Limits: 2.66 lbs./ hr. and 11.65 TPY

Authority for Requirement: Polk County Construction Permit Number 2064

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Work practice standards: Routine Periodic Inspection.

Authority for Requirement: Polk County Construction Permit Number 2064

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 39 feet

Stack Opening, (diameter): 12 inches

Exhaust Temperature : 90°F

Discharge Style: Vertical, unobstructed

Authority for Requirement: Polk County Construction Permit Number 2064

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 62

Emission Unit vented through this Emission Point: 908
Emission Unit Description: Fixed Roof Dustene Storage Tank
Raw Material/Fuel: Dustene solvent
Rated Capacity: 15,000 Gallon; 25 Gal/ hr.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit: No Visible Emissions
Authority for Requirement: Polk County Construction Permit Number 1420

Pollutant: VOC
Emission Limit: 0.01 TPY
Authority for Requirement: Polk County Construction Permit 1420

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: Storage tank EU 908 shall be limited to 213,235 gallons of throughput per 12 month period rolled monthly.

Work practice standards: Routine Periodic Inspection.

Reporting & Record keeping:

- Records of throughput shall be maintained on site for a period of two years and shall be made available to representatives of this agency (Polk County AQD) upon request.

Authority for Requirement: Polk County Construction Permit 1420

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 63

Emission Unit vented through this Emission Point: 907
Emission Unit Description: Fixed Roof Hardite Storage Tank
Raw Material/Fuel: Hardite solvent
Rated Capacity: 15,000 Gallon

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit: No Visible Emissions
Authority for Requirement: Polk County Construction Permit Number 1422

Pollutant: VOC
Emission Limit: 0.03 TPY
Authority for Requirement: Polk County Construction Permit 1422

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: Storage tank EU 907 shall be limited to 131,368 gallons of throughput per 12 month period rolled monthly.

Work practice standards: Routine Periodic Inspection.

Reporting & Record keeping:

- Records of throughput shall be maintained on site for a period of two years and shall be made available to representatives of this agency (Polk County AQD) upon request.

Authority for Requirement: Polk County Construction Permit 1422

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 64Associated EquipmentAssociated Emission Unit ID Numbers: 528 - 533, 560, 571, 597, 713 – 715, 717 – 727, and 2801

Emission Unit ID	Titan ID	Emission Unit Description	Model	Maximum Capacity (lb/hr)
528	110	Tire Assembly Machine	NRM	0.47 (tire wash solvent)
529	109	Tire Assembly Machine	NRM	0.47 (tire wash solvent)
530	107	Tire Assembly Machine	NRM	0.47 (tire wash solvent)
531	108	Tire Assembly Machine	NRM	0.47 (tire wash solvent)
532	105	Tire Assembly Machine	NRM	0.47 (tire wash solvent)
533	106	Tire Assembly Machine	NRM	0.47 (tire wash solvent)
560	933/934	Tire Assembly System with: 1-Extruder 2-Stripwinders 1-Spray Booth	Extruder: Davis Standard Spray Booth: Waldinger	Extruder: 1800 lb/hr (rubber) Spray Booth: 2.46 gal/hr
571	103	Tire Assembly Machine	NRM	0.47 (tire solvent wash)
597	937/938	Tire Assembly System with: 1-Extruder 2-Stripwinders 1-Spray Booth	Extruder: Davis Standard Spray Booth: Waldinger	Extruder: 4500 lb/hr (rubber) Spray Booth: 4.92 gal/hr
713	101	Tire Assembly Machine	NRM 59H	0.47 (tire wash solvent)
714	102	Tire Assembly Machine	NRM 59H	0.47 (tire wash solvent)
715	104	Tire Assembly Machine	NRM 59H	0.47 (tire wash solvent)
717	118	Tire Assembly Machine	NRM 401	0.47 (tire wash solvent)
718	117	Tire Assembly Machine	NRM 401	0.47 (tire wash solvent)
719	125	Tire Assembly Machine	NRM 401	0.47 (tire wash solvent)
720	114	Tire Assembly Machine	NRM 88	0.47 (tire wash solvent)

721	113	Tire Assembly Machine	NRM 88	0.47 (tire wash solvent)
722	116	Tire Assembly Machine	NRM 88	0.47 (tire wash solvent)
723	115	Tire Assembly Machine	NRM 88	0.47 (tire wash solvent)
724	124	Tire Assembly Machine	NRM	0.47 (tire wash solvent)
725	123	Tire Assembly Machine	NRM	0.47 (tire wash solvent)
726	112	Tire Assembly Machine	NRM	0.47 (tire wash solvent)
727	111	Tire Assembly Machine	ASM	0.47 (tire wash solvent)
2801		Tire Assembly Machine	ASM	0.47 (tire wash solvent)

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

The following emission limits shall not be exceeded for Tire Wash Solvent use at Tire Assembly Machines (EUs: 528, 529, 530, 531, 532, 533, 571, 713, 714, 715, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 2801):

Pollutant: Volatile Organic Compounds (VOC) (each unit)

Emission Limits: 0.47 lb/hr, 2.06 tons/yr

Authority for Requirement: Polk County Construction Permit 2015 Modified #9

Pollutant: Volatile Organic Compounds (VOC) (total)

Emission Limits: 10.34 lb/hr, 45.32 tons/yr

Authority for Requirement: Polk County Construction Permit 2015 Modified #9

The following emission limits shall not be exceeded for the Tire Assembly Systems (EU 597):

Pollutant: Opacity

Emission Limit: <20%⁽¹⁾

Authority for Requirement: Polk County Construction Permit 2015 Modified #9

Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9

¹ An exceedance of the opacity limit will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Local Program may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: PM₁₀

Emission Limits: 0.33 lb/hr, 1.45 tons/yr

Authority for Requirement: Polk County Construction Permit 2015 Modified #9

Pollutant: PM

Emission Limits: 0.33 lb/hr, 1.45 tons/yr, 0.01 gr/dscf

Authority for Requirement: Polk County Construction Permit 2015 Modified #9

Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit: 1.47 tons/yr

Authority for Requirement: Polk County Construction Permit 2015 Modified #9

The following emission limits shall not be exceeded for the Tire Assembly Systems (EU 560):

Pollutant: Opacity

Emission Limit: <20%⁽¹⁾

Authority for Requirement: Polk County Construction Permit 2015 Modified #9

Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9

¹ An exceedance of the opacity limit will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Local Program may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM₁₀)

Emission Limits: 0.33 lb/hr, 1.45 tons/yr

Authority for Requirement: Polk County Construction Permit 2015 Modified #9

Pollutant: Particulate Matter

Emission Limits: 0.33 lb/hr, 1.45 tons/yr, 0.01 gr/dscf

Authority for Requirement: Polk County Construction Permit 2015 Modified #9

Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit: 0.71 tons/yr

Authority for Requirement: Polk County Construction Permit 2015 Modified #9

The following emission limits shall not be exceeded for Emission Point 64 (all units combined):

Pollutant: Opacity

Emission Limit: <20%⁽¹⁾

Authority for Requirement: Polk County Construction Permit 2015 Modified #9

Polk County Board of Health Rules and Regulations Chapter V, Article IV, Section 5-9

¹ An exceedance of the opacity limit will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Local Program may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM₁₀)
Emission Limit: 2.90 tons/yr
Authority for Requirement: Polk County Construction Permit 2015 Modified #9

Pollutant: Particulate Matter
Emission Limits: 2.90 tons/yr, 0.01 gr/dscf
Authority for Requirement: Polk County Construction Permit 2015 Modified #9
Polk County Board of Health Rules and Regulations Chapter V, Article VI, Section 5-14(b)

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit: 47.47 tons/yr
Authority for Requirement: Polk County Construction Permit 2015 Modified #9

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

40 CFR 60 Subpart BBB- Standards of Performance for the Rubber Tire Manufacturing Industry NSPS Requirements:

- The owner or operator shall comply with all applicable requirements of 40 CFR 60 Subpart BBB-*Standards of Performance for the Rubber Tire Manufacturing Industry*.
- The owner or operator shall comply with the emission standards of §60.542(5).
- The owner or operator is required to submit formulation data or the results of a method 24 analysis annually to verify the VOC content of each green tire spray material per the performance testing requirements of §60.543(b)(4).
- The owner or operator shall comply with the record keeping requirements of §60.545(f).
- The owner or operator shall comply with the reporting requirements of §60.546.
- Compliance testing shall be completed in accordance with §60.547.

NOTE: The absence of the inclusion of any NSPS requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NSPS conditions.

Process throughput:

- Plant wide limit of the Tire Wash Solvent shall be limited to 813,527 pounds per rolling 12-month period, rolled monthly. Twelve-month rolling records shall be maintained on site for five (5) years and be made available to the representatives of Polk County AQD upon request.
- Plant wide limit of Breakdown Solvent shall be limited to 2,766 pounds per rolling 12-month period, rolled monthly. Twelve-month rolling records shall be maintained on site for five (5) years and be made available to the representatives of Polk County AQD upon request. Breakdown Solvent shall not be used at emission point 64.
- The facility shall not process more than 150,000,000 pounds of master rubber per 12-month period, rolled monthly. Twelve-month rolling records of rubber processed in the facility shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.

Work practice standards:

- Tire Wash Solvent shall not contain any HAPs as defined by section 112 of the 1990 Clean Air Act Amendments. MSD Sheets shall be maintained on site for the Tire Wash Solvent and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: Polk County Construction Permit 2015 Modified #9

40 CFR 60 Subpart BBB

567 IAC 23.1(2) "ee"

Polk County Board of Health Rules and Regulations Chapter V,
Article VI, Section 5-16(n)(57)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, from the ground: 29 feet

Stack Opening: 48" x 48"

Exhaust Flow Rate: passive

Exhaust Temperature: 110°F

Discharge Style: obstructed vertical

Authority for Requirement: Polk County Construction Permit 2015 Modified #9

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Required for CE-560 and CE-597

Spray Booth Agency Operation & Maintenance Plan

Weekly

- Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
- Maintain a written record of the observation and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

- The filter equipment will be operated and maintained according to the manufacturers recommendations.

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 65Associated Emission Unit ID Numbers: 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608 and 2609

EU	EU Description	Raw Material	Rated Capacity	Control ID
2601	Tire Wheel Assembly line 1	Xtra Seal Buffing Solution	0.016 lbs./ hr.	N/A
2602	Tire Wheel Assembly line 2	Xtra Seal Buffing Solution	0.016 lbs./ hr.	N/A
2603	Tire Wheel Assembly line 3	Xtra Seal Buffing Solution	0.016 lbs./ hr.	N/A
2604	Tire Wheel Assembly line 4	Xtra Seal Buffing Solution	0.016 lbs./ hr.	N/A
2605	Tire Wheel Assembly line 5	Xtra Seal Buffing Solution	0.016 lbs./ hr.	N/A
2606	Tire Wheel Assembly line 6	Xtra Seal Buffing Solution	0.016 lbs./ hr.	N/A
2607	Tire Wheel Assembly line 7	Xtra Seal Buffing Solution	0.016 lbs./ hr.	N/A
2608	Tire Wheel Assembly line 8	Xtra Seal Buffing Solution	0.016 lbs./ hr.	N/A
2609	Non-Conforming Area	Xtra Seal Buffing Solution	0.016 lbs./ hr.	N/A

Applicable Requirements**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)***The emissions from this emission point shall not exceed the levels specified below.*Combined Emission Limits EUs: 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608 and 2609

Pollutant: VOC

Emission Limits: 0.65 TPY

Authority for Requirement: Polk County Construction Permit 3689

Pollutant: HAPs (Hexane, CAS #: 110-54-3)

Emission Limits: 0.33 TPY

Authority for Requirement: Polk County Construction Permit 3689

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Work practice standards, EUs: 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608 and 2609:

- The facility shall not exceed two hundred and fifteen (215) gallons of Xtra Seal Buffing Solution usage per 12-month period for the cleaning of the tire wheel assembly lines (EP 25). Usage shall be recorded, totaled and rolled monthly. Said log shall include the rolling 12-month total.
- The facility shall not use a Buffing Solution with a VOC content greater than 6.01 lb/gallon for cleaning the tire wheel assembly lines (EP 25).
- The facility shall not use a Buffing Solution with a HAP (Hexane) content greater than 3.01 lb/gallon for cleaning the tire wheel assembly lines (EP 25).

Authority for Requirement: Polk County Construction Permit 3689

Reporting & Record keeping, EUs: 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608 and 2609:

- Monthly usage records shall be maintained on site for a period of five (5) years and made available to Polk County Air Quality staff upon request.

Authority for Requirement: Polk County Construction Permit 3689

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 401A**Associated Equipment**Associated Emission Unit ID Numbers: 401A and 408A

EU	EU Description	Raw Material	Rated Capacity	Control ID
401A	Bead Dip Reservoir #1	Bead Dip Cement	0.60 gal./ hr.	N/A
408A	Bead Dip Reservoir #3	Bead Dip Cement	1.51 gal./ hr.	N/A

Applicable Requirements**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)***The following emission limits shall not be exceeded for the facility wide bead cementing operations:*

Pollutant: Opacity

Emission Limit: <20%

Authority for Requirement: Polk County Construction Permit Number 3488 Modified

Pollutant: VOC

Emission Limit: 83.85 TPY

Authority for Requirement: Polk County Construction Permit 3488 Modified

Operational Limits & Requirements*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.***NESHAP Requirements:**

- The facility shall comply with all applicable requirement of 40 CFR 63 Subpart XXXX-National Emissions Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing.
- Per §63.5984 the emission limit per Table 1 is “a. emissions of each HAP in Table 16 to this subpart must not exceed 1,000 grams HAP per megagram (2 pounds per ton) of total cements and solvents used at the tire production affected source, and b. Emissions of each HAP not in Table 16 to this subpart must not exceed 10,000 grams HAP per megagram (20 pounds per ton) of total cements and solvents used at the tire production affected source.
- Per §63.5985 (b) Monthly average alternative, without using an add-on control device. Use cements and solvents in such a way that the monthly average HAP emissions do not exceed the emission limits in Table 1 to this subpart, option 1 or option 2.
- Must be in compliance with the applicable emission limitations specified in Tables 1-4 to this subpart at all times per §63.5990 (a).
- Shall conduct performance test and procedures in accordance with §63.5993.
- Shall use the methods described in §63.5994 (a) to determine the mass percent of HAP in cements and solvents.

- Shall use the methods described in §63.5994 (b) to demonstrate compliance with the HAP constituent emission limits in Table 1 to this subpart.
- Shall demonstrate initial compliance with the emission limit that applies to you according to Table 6 of this subpart per §63.5996 (a) and (b).
- Shall monitor and collect data as specified in Table 9 to this subpart to demonstrate continuous compliance with the emission limit per §63.6003.
- Shall demonstrate continuous compliance with the emission limits using methods specified in Table 10 per §63.6004 (a).
- Must submit all of the notifications in §§63.7, that apply to you by the dates specified per §63.6009 (a).
- Must submit each applicable report in Table 15 to this subpart per §63.6010 (a).
- Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 15 per §63.6010 (b).
- Must keep the records specified in paragraphs (a)(1) through (3) of this section per §63.6011(a).
- For each tire production affected source, must keep the records specified in Table 9 to this subpart to show continuous compliance per §63.6011(b).
- Keep records in a form and for the period of time specified in this section per §63.6012.

NOTE: The absence of the inclusion of any NESHAP requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NESHAP conditions.

Process throughput:

- The facility shall not use more than 30,000 gallons of Bead Dip Cement in any 12-month period, rolled monthly.
- The VOC content of the Bead Dip Cement shall not exceed 5.59 pounds per gallon.
- The facility shall not process more than 150,000,000 pounds of master rubber per 12-month period, rolled monthly. Records of master rubber processed shall be recorded and totaled monthly.
- The owner or operator shall not exceed the plant wide limits of the following materials and maximum percent constituents processed in the facility per twelve-month rolling period, rolled monthly. Twelve- month rolling records shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
 - a) Tire Wash Solvent: (100% VOC, 0% HAP): 813,527 lbs per 12-month period, rolled monthly.

Reporting & Record keeping:

- On a monthly basis the facility shall record the amount of Bead Dip Cement used.
- On a monthly basis the facility shall calculate and record the rolling 12-month total of Bead Dip Cement used.
- The facility shall maintain MSDS or equivalent for all Bead Dip Cements used.
- Material usage records and MSDS shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
- Twelve month rolling records of rubber processed shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: Polk County Construction Permit Number 3488 Modified
 40 CFR 63 Subpart XXXX
 567 IAC 23.1(4) "c"
 Polk County Board of Health Rules and Regulations Chapter V,
 Article VIII, Section 5-20(XXXX)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 34 feet

Stack Opening, (circular): 18 inches

Exhaust Flow Rate: 2,400 scfm

Exhaust Temperature: 70°F

Discharge Style: Vertical, unobstructed

Authority for Requirement: Polk County Construction Permit 3488 Modified

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 402A**Associated Equipment**

Associated Emission Unit ID Numbers: 402A and 403A

EU	EU Description	Raw Material	Rated Capacity	Control ID
402A	Bead Dip Reservoir #5	Bead Dip Cement	1.51 gal./ hr.	N/A
403A	Bead Dip Reservoir #6	Bead Dip Cement	0.90 gal./ hr.	N/A

Applicable Requirements**Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

The following emission limits shall not be exceeded for the facility wide bead cementing operations:

Pollutant: Opacity

Emission Limit: <20%

Authority for Requirement: Polk County Construction Permit Number 3487

Pollutant: VOC

Emission Limit: 83.85 TPY

Authority for Requirement: Polk County Construction Permit 3487

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NESHAP Requirements:

- The facility shall comply with all applicable requirement of 40 CFR 63 Subpart XXXX- National Emissions Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing.
- Per §63.5984 the emission limit per Table 1 is “a. emissions of each HAP in Table 16 to this subpart must not exceed 1,000 grams HAP per megagram (2 pounds per ton) of total cements and solvents used at the tire production affected source, and b. Emissions of each HAP not in Table 16 to this subpart must not exceed 10,000 grams HAP per megagram (20 pounds per ton) of total cements and solvents used at the tire production affected source.
- Per §63.5985 (b) Monthly average alternative, without using an add-on control device. Use cements and solvents in such a way that the monthly average HAP emissions do not exceed the emission limits in Table 1 to this subpart, option 1 or option 2.
- Must be in compliance with the applicable emission limitations specified in Tables 1-4 to this subpart at all times per §63.5990 (a).
- Shall conduct performance test and procedures in accordance with §63.5993.
- Shall use the methods described in §63.5994 (a) to determine the mass percent of HAP in cements and solvents.

- Shall use the methods described in §63.5994 (b) to demonstrate compliance with the HAP constituent emission limits in Table 1 to this subpart.
- Shall demonstrate initial compliance with the emission limit that applies to you according to Table 6 of this subpart per §63.5996 (a) and (b).
- Shall monitor and collect data as specified in Table 9 to this subpart to demonstrate continuous compliance with the emission limit per §63.6003.
- Shall demonstrate continuous compliance with the emission limits using methods specified in Table 10 per §63.6004 (a).
- Must submit all of the notifications in §§63.7, that apply to you by the dates specified per §63.6009 (a).
- Must submit each applicable report in Table 15 to this subpart per §63.6010 (a).
- Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 15 per §63.6010 (b).
- Must keep the records specified in paragraphs (a)(1) through (3) of this section per §63.6011(a).
- For each tire production affected source, must keep the records specified in Table 9 to this subpart to show continuous compliance per §63.6011(b).
- Keep records in a form and for the period of time specified in this section per §63.6012.

NOTE: The absence of the inclusion of any NESHAP requirements as part of this permit does not relieve the owner or operator from any obligation to comply with all applicable NESHAP conditions.

Process throughput:

- The facility shall not use more than 30,000 gallons of Bead Dip Cement in any 12-month period, rolled monthly.
- The VOC content of the Bead Dip Cement shall not exceed 5.59 pounds per gallon.
- The facility shall not process more than 150,000,000 pounds of master rubber per 12-month period, rolled monthly. Records of master rubber processed shall be recorded and totaled monthly.
- The owner or operator shall not exceed the plant wide limits of the following materials and maximum percent constituents processed in the facility per twelve-month rolling period, rolled monthly. Twelve- month rolling records shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
 - a) Tire Wash Solvent: (100% VOC, 0% HAP): 813,527 lbs per 12-month period, rolled monthly.

Reporting & Record keeping:

- On a monthly basis the facility shall record the amount of Bead Dip Cement used.
- On a monthly basis the facility shall calculate and record the rolling 12-month total of Bead Dip Cement used.
- The facility shall maintain MSDS or equivalent for all Bead Dip Cements used.
- Material usage records and MSDS shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.
- Twelve month rolling records of rubber processed shall be maintained on site for five (5) years and be made available to representatives of Polk County AQD upon request.

Authority for Requirement: Polk County Construction Permit Number 3487
 40 CFR 63 Subpart XXXX
 567 IAC 23.1(4) "c"
 Polk County Board of Health Rules and Regulations Chapter V,
 Article VIII, Section 5-20(XXXX)

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (from the ground): 36 feet
 Stack Opening, (circular): 8 inches
 Exhaust Flow Rate: 650 scfm
 Exhaust Temperature: 70°F - 110°F
 Discharge Style: Horizontal
 Authority for Requirement: Polk County Construction Permit 3487

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22 and Polk County Board Of Health Rules And Regulations, Chapter V, Air Pollution, (Chapter V), Article X, 5-35.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*
6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 22.108(15)"c"*

G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)*

2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, Wallace State Office Building, 502 E 9th St., Des Moines, IA 50319-0034, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permitting & Standards Branch, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and Polk County Air Quality Division.. *567 IAC 22.108 (15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and Polk County Air Quality Division. 567 IAC 22.108 (5)

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b" and Chapter V, Article II, 5-3 and 5-4*

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e" and Chapter V, Article X, 5-46 and 5-47*

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1) and Chapter V, Article VI, Section 5-17.1*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:

- a. The date, place and time of sampling or measurements
- b. The date the analyses were performed.
- c. The company or entity that performed the analyses.
- d. The analytical techniques or methods used.
- e. The results of such analyses; and
- f. The operating conditions as existing at the time of sampling or measurement.
- g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

- a. Comply with all terms and conditions of this permit specific to each alternative scenario.
- b. Maintain a log at the permitted facility of the scenario under which it is operating.
- c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:

- a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
- b. Compliance test methods specified in 567 Chapter 25; or
- c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

- a. Any monitoring or testing methods provided in these rules; or
- b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 725-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in *567 IAC 131.2(2)*. *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. **Excess Emissions.** Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.
2. **Excess Emissions Reporting**
 - a. **Initial Reporting of Excess Emissions.** An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An initial report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The initial report may be made by electronic mail (E-mail), in person, or by telephone and shall include as a minimum the following:

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

b. **Written Reporting of Excess Emissions.** A written report of an incident of excess emission shall be submitted as a follow-up to all required initial reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4) and Chapter V, Article VI, 5-17*

3. **Emergency Defense for Excess Emissions.** For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and

d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or upset provision contained in any applicable requirement. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)* This notification must be made to Polk County Air Quality Division, in lieu of the Department, upon adoption of the NSPS or NESHAP into Chapter V.

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.

b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);

c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);

d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));.

e. The changes comply with all applicable requirements.
f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

- i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.
- 567 IAC 22.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that does any of the following:

- i. Correct typographical errors

- ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
- iii. Require more frequent monitoring or reporting by the permittee; or
- iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Title V Permit Modification.

a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:

- i. Do not violate any applicable requirement;
- ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
- iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
- iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
- v. Are not modifications under any provision of Title I of the Act; and
- vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

- i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
- ii. The permittee's suggested draft permit;
- iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and
- iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V Permit Modification.

Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.111-567 IAC 22.113*

G19. Duty to Obtain Construction Permits

Unless exempted in 567 IAC 22.1(2) and Chapter V, Article X, 5-33, or to meet the parameters established in 567 IAC 22.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, or conditional permit, or permit pursuant to rule 567 IAC 22.8 & Polk County Chapter V, Article X, 5-28, or permits required pursuant to rules 567 IAC 22.4, 567 IAC 22.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 22.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. *567 IAC 22.1(1) and Chapter V, Article X, 5-28*

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations (*567 IAC 23.1(3)"a"*); training fires and controlled burning of a demolished building (*567 IAC 23.2*).

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by *Chapter V, Article III, 5-7- State Only*

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
- b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
- c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.

- d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting or greenhouse gas generating substances to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
 - a. Such applicable requirements are included and are specifically identified in the permit; or
 - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
 - d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)* and *Chapter V, Article XVII, 5-77*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought consistent with the requirements of *567 IAC 22.111(1)*. *567 IAC 22.111 (1)"d"*

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions.
567 IAC 22.3(3)"c"

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
Wallace State Office Building
502 E 9th Street
Des Moines, IA 50319-0034
(515/725-9526)

Within Polk County, stack test notifications, reports, correspondence, and the appropriate fee shall also be directed to the supervisor of the county air pollution program.

567 IAC 25.1(7)"a", 567 IAC 25.1(9) and Chapter V, Article VII, 5-18 and 5-19

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.
567 IAC 26.1(1)

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

Iowa Compliance Officer
Air Branch
Enforcement and Compliance Assurance Division
U.S. EPA Region 7
11201 Renner Blvd.
Lenexa, KS 66219
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau
Iowa Department of Natural Resources
Wallace State Office Building
502 E. 9th Street
Des Moines, IA 50319-0034
(515) 725-8200

Reports or notifications to the local program shall be directed to the supervisor at the appropriate local program. Current address and phone number is:

Polk County Public Works Department
Air Quality Division
5885 NE 14th Street
Des Moines, IA 50313
(515) 286-3351

V. Appendix A: Web links to applicable regulations (*push Cntrl & click the link*)

- **40 CFR Part 60: Subpart BBB: Standards of Performance for the Rubber Tire Manufacturing Industry**
<http://www.ecfr.gov/cgi-bin/text-idx?SID=aace1d7d75cfe9e4840cc17515190f2b&mc=true&node=sp40.7.60.bb&rgn=div6>
- **40 CFR 60: Subpart JJJJ-Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-JJJJ>
- **40 CFR Part 63: Subpart XXXX: National Emission Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing; Final Rule & Technical Correction**
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.13.63.xxxx>
- **40 CFR 63, Subpart ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ>
- **40 CFR Part 63, Subpart DDDDD: National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters**
<https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-DDDDD>