

**Draft 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-013R2**

**Expiration Date: Expiration Date**

**Permit Renewal Application Deadline: Expiration Date + 5 years**

**EIQ Number: 92-6802**

**Facility File Number: 77-01-003**

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**Responsible Official**

**Name: Mr. Lester Brewer**

**Title: General Manager**

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

**Phone #: (515) 265-9329**

**Permit Contact Person for the Facility**

**Name: Mr. Brian A. Mills**

**Title: Environmental Consultant**

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

**Phone #: (515) 265-9363**

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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**

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Lori Hanson, Supervisor of Air Operating Permits Section

Date

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**V. Appendix A: Web links to applicable regulations.....156**

- **40 CFR Part 60: Subpart BBB: Standards of Performance for the Rubber Tire Manufacturing Industry**
- **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 <sup>3</sup> ..... | 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            |

### **Pollutants**

|                         |  |
|-------------------------|--|
| PM.....                 | Particulate Matter                                 |
| PM <sub>10</sub> .....  | Particulate Matter ten microns or less in diameter |
| PM <sub>2.5</sub> ..... | Particulate Matter 2.5 microns or less in diameter |
| SO <sub>2</sub> .....   | Sulfur dioxide                                     |
| NO <sub>x</sub> .....   | 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-013R2

Facility Description: Tire and Inner Tubes Manufacturing, SIC 3011

| <b>Emission Point Number</b> | <b>Emission Unit Number</b>                  | <b>Emission Unit Description</b>  | <b>Polk County AQD Construction Permit Number</b> |
|------------------------------|--|---|---|
| 1                            | 122, 122A-E, 123, 123A-B, 124                | #27D Banbury  | 0578 Modified                                     |
| 2                            | 002  | #27D Banbury: Rotary Drum Coolers   | 0547  |
|                              | 125A   | #27D Banbury: Pellet Dip Mixing (Rubber PM <sub>10</sub> )                  | 0547  |
| 3                            | 121  | #27D Banbury: Hand weighing Chemicals                                       | Grandfathered                                     |
| 4                            | 101, 103, 103A-D                             | #1 Banbury  | 1386  |
| 5                            | 102, 104, 104A-D                             | #2 Banbury  | 0558A   |
| 6                            | 110, 111, 111A-C, 111R                       | #4 Banbury  | 0682  |
| 7                            | 114, 116, 116A-C, 116R, 117, 119, 119A, 127D | #5 Banbury  | 0619  |
| 8                            | 115, 127, 127A-C, 127R                       | #6 Banbury  | 1385  |
| 9                            | 12   | 60 kW Kohler Model 60RZ282 Natural Gas Emergency Generator                  | 2156  |
| 10                           | 13   | 2325 ft <sup>3</sup> /hr Onan Model F1197GU Natural Gas Emergency Generator | 2155  |
| 13                           | 317  | Ferrel Tandem Calender  | 2312  |
| 17                           | 405  | Bead Dipping Tank   | Grandfathered                                     |
| 17A                          | 406  | Bead Dipping and Drying Station   | Grandfathered                                     |
| 24                           | 567  | Curing Presses (21), Bldg. 8 (#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   | Curing Presses (6), Bldg. 8 (#538- 543)                                     | Grandfathered                                     |

| Emission Point Number | Emission Unit Number | Emission Unit Description  |                                   |                                   | Polk County AQD Construction Permit Number |
|-----------------------|----------------------|--|-----------------------------------|-----------------------------------|--|
| 25                    | 603                  | Curing Presses, McNeil /NRM, Bldg. 2, (3) 55" Dual (#667- 672), (4) 60" Dual (#649- 656) |                                   |                                   | Grandfathered                              |
|                       | 603A                 | Curing Presses, (2) 63.5" McNeil Dual Cavity, Bldg. 2 (#659- 662)                        |                                   |                                   | Grandfathered                              |
|                       | 604                  | Curing Press, NRM 62" Dual, Bldg. 2, (#665- 666)   |                                   |                                   | 0818B                                      |
|                       | 604A                 | Curing Press, NRM 62" Dual, Bldg. 2, (#657- 658)   |                                   |                                   | 0818B                                      |
| 26                    | 606                  | Curing Presses, Bldg. 5, (8) McNeil Duals (# 615- 630), (27) Singles (#505- 531)         |                                   |                                   | Grandfathered                              |
|                       | 606S                 | Curing Press, McNeil (1- 55") Dual Cavity, Bldg. 5, (#613- 614)                          |                                   |                                   | 1342                                       |
|                       | 606A                 | Curing Presses (5), McNeil, Bldg. 5 (#501- 504, 535)                                     |                                   |                                   | Grandfathered                              |
|                       | 606B                 | Curing Presses (2), McNeil, Bldg. 5 (#536- 537)  |                                   |                                   | Grandfathered                              |
| 27                    | Item#                | EU ID #  | Titan Curing Press #              | Emission Unit Description         |  |
|                       | 1                    | 602A-277   | 277/278                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 2                    | 602A-279   | 279/280                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 3                    | 602A-281   | 281/282                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 4                    | 602A-283   | 283/284                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 5                    | 602A-285   | 285/286                           | NRM 45" Dual Tire Curing Press    | 0855 Modified #21                          |
|                       | 6                    | 602A-287   | 287/288                           | NRM 45" Dual Tire Curing Press    |  |
|                       | 7                    | 602A-289   | 289/290                           | NRM 45" Dual Tire Curing Press    |  |
|                       | 8                    | 602A-291   | 291/292                           | NRM 45" Dual Tire Curing Press    |  |
|                       | 9                    | 602A-293   | 293/294                           | NRM 45" Dual Tire Curing Press    |  |
|                       | 10                   | 602A-295   | 295/296                           | NRM 45" Dual Tire Curing Press    |  |
|                       | 11                   | 602A-297   | 297/298                           | NRM 45" Dual Tire Curing Press    |  |
|                       | 12                   | 602A-299   | 299/300                           | NRM 45" Dual Tire Curing Press    |  |
|                       | 13                   | 602A-301   | 301/302                           | NRM 45" Dual Tire Curing Press    |  |
|                       | 14                   | 602A-303   | 303/304                           | McNeil 42" Dual Tire Curing Press |  |
|                       | 15                   | 602A-305   | 305/306                           | McNeil 42" Dual Tire Curing Press |  |
|                       | 16                   | 602A-307   | 309/310                           | McNeil 50" Dual Tire Curing Press |  |
|                       | 17                   | 602A-309   | 311/312                           | McNeil 40" Dual Tire Curing Press |  |
|                       | 18                   | 602A-311   | 313/314                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 19                   | 602A-313   | 315/316                           | McNeil 42" Dual Tire Curing Press |  |
|                       | 20                   | 602A-317   | 317/318                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 21                   | 602A-319   | 319/320                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 22                   | 602A-321   | 321/322                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 23                   | 602A-323   | 323/324                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 24                   | 602A-325   | 325/326                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 25                   | 602A-327   | 327/328                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 26                   | 602A-329   | 329/330                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 27                   | 602A-331   | 331/332                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 28                   | 602A-333   | 333/334                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 29                   | 602A-335   | 335/336                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 30                   | 602A-337   | 337/338                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 31                   | 602B-175   | 275/276                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 32                   | 602B-177   | 177/178                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 33                   | 602B- 179  | 179/180                           | McNeil 45" Dual Tire Curing Press |  |
| 34                    | 602B-181             | 181/182  | McNeil 45" Dual Tire Curing Press |                                   |  |

| Emission Point Number | Item #   | EU ID #  | Titan Curing Press #              | Emission Unit Description         | Polk County AQD Construction Permit Number |
|-----------------------|----------|----------|-----------------------------------|-----------------------------------|--|
| 27                    | 35       | 602B-183 | 183/184                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 36       | 602B-185 | 185/186                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 37       | 602B-187 | 187/188                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 38       | 602B-189 | 189/190                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 39       | 602B-191 | 191/192                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 40       | 602B-193 | 193/194                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 41       | 602B-195 | 195/196                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 42       | 602B-197 | 197/198                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 43       | 602B-199 | 199/200                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 44       | 602B-201 | 201/202                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 45       | 602B-211 | 211/212                           | McNeil 40" Dual Tire Curing Press |  |
|                       | 46       | 602B-213 | 213/214                           | McNeil 40" Dual Tire Curing Press |  |
|                       | 47       | 602B-215 | 215/216                           | McNeil 40" Dual Tire Curing Press |  |
|                       | 48       | 602B-217 | 217/218                           | McNeil 40" Dual Tire Curing Press |  |
|                       | 49       | 602B-219 | 219/220                           | McNeil 40" Dual Tire Curing Press |  |
|                       | 50       | 602B-221 | 221/222                           | McNeil 40" Dual Tire Curing Press |  |
|                       | 51       | 602B-223 | 223/224                           | McNeil 40" Dual Tire Curing Press |  |
|                       | 52       | 602B-225 | 225/226                           | McNeil 40" Dual Tire Curing Press | 0855 Modified #21                          |
|                       | 53       | 602B-227 | 227/228                           | McNeil 40" Dual Tire Curing Press |  |
|                       | 54       | 602B-229 | 229/230                           | McNeil 40" Dual Tire Curing Press |  |
|                       | 55       | 602B-231 | 231/232                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 56       | 602B-233 | 233/234                           | McNeil 45" Dual Tire Curing Press |  |
|                       | 57       | 602B-243 | 243/244                           | McNeil 42" Dual Tire Curing Press |  |
|                       | 58       | 602B-245 | 245/246                           | McNeil 42" Dual Tire Curing Press |  |
|                       | 59       | 602B-247 | 247/248                           | McNeil 42" Dual Tire Curing Press |  |
|                       | 60       | 602B-249 | 249/250                           | McNeil 42" Dual Tire Curing Press |  |
|                       | 61       | 602B-251 | 251/252                           | McNeil 42" Dual Tire Curing Press |  |
|                       | 62       | 602B-253 | 253/254                           | McNeil 42" Dual Tire Curing Press |  |
|                       | 63       | 602B-255 | 255/256                           | McNeil 42" Dual Tire Curing Press |  |
|                       | 64       | 602B-257 | 257/258                           | McNeil 42" Dual Tire Curing Press |  |
|                       | 65       | 602B-259 | 259/260                           | McNeil 42" Dual Tire Curing Press |  |
| 66                    | 602B-261 | 261/262  | McNeil 42" Dual Tire Curing Press |                                   |  |
| 67                    | 602B-263 | 263/264  | McNeil 42" Dual Tire Curing Press |                                   |  |
| 68                    | 602B-265 | 265/266  | McNeil 42" Dual Tire Curing Press |                                   |  |
| 69                    | 602B-267 | 267/268  | McNeil 42" Dual Tire Curing Press |                                   |  |
| 70                    | 602B-269 | 269/270  | McNeil 42" Dual Tire Curing Press |                                   |  |
| 71                    | 602B-271 | 271/272  | McNeil 42" Dual Tire Curing Press |                                   |  |
| 72                    | 602B-273 | 273/274  | McNeil 42" Dual Tire Curing Press |                                   |  |
| 73                    | 609      | 235/236  | McNeil 45" Dual Tire Curing Press |                                   |  |
| 74                    | 610      | 237/238  | McNeil 45" Dual Tire Curing Press |                                   |  |
| 75                    | 611      | 239/240  | McNeil 45" Dual Tire Curing Press |                                   |  |
| 76                    | 612      | 241/242  | McNeil 42" Dual Tire Curing Press |                                   |  |
| 77                    | 615      | 701      | McNeil 75" Tire Curing Press      |                                   |  |
| 78                    | 616      | 702      | McNeil 75" Tire Curing Press      |                                   |  |
| 79                    | 617      | 758      | McNeil 75" Tire Curing Press      |                                   |  |
| 80                    | 618      | 759      | McNeil 75" Tire Curing Press      |                                   |  |
| 81                    | 619      | 751      | McNeil 85" Tire Curing Press      |                                   |  |

| Emission Point Number | Item # | EU ID # | Titan Curing Press #            | Emission Unit Description           | Polk County AQD Construction Permit Number |
|-----------------------|--------|---------|---------------------------------|-------------------------------------|--|
| 27                    | 82     | 620     | 752                             | McNeil 85" Tire Curing Press        |  |
|                       | 83     | 621     | 173/174                         | McNeil 63.5" Dual Tire Curing Press |  |
|                       | 84     | 622     | 171/172                         | McNeil 63.5" Dual Tire Curing Press |  |
|                       | 85     | 623     | 169/170                         | McNeil 63.5" Dual Tire Curing Press |  |
|                       | 86     | 624     | 167/168                         | McNeil 63.5" Dual Tire Curing Press |  |
|                       | 87     | 625     | 165/166                         | McNeil 63.5" Dual Tire Curing Press |  |
|                       | 88     | 626     | 163/164                         | McNeil 63.5" Dual Tire Curing Press |  |
|                       | 89     | 627     | 161/162                         | McNeil 63.5" Dual Tire Curing Press |  |
|                       | 90     | 628     | 159/160                         | McNeil 63.5" Dual Tire Curing Press |  |
|                       | 91     | 629     | 157/158                         | McNeil 63.5" Dual Tire Curing Press |  |
|                       | 92     | 630     | 155/156                         | McNeil 63.5" Dual Tire Curing Press |  |
|                       | 93     | 631     | 153/154                         | McNeil 63.5" Dual Tire Curing Press |  |
|                       | 94     | 632     | 151/152                         | McNeil 63.5" Dual Tire Curing Press |  |
|                       | 95     | 633     | 705                             | Bolshevik 100" Tire Curing Press    |  |
|                       | 96     | 634     | 753                             | McNeil 75" Tire Curing Press        |  |
|                       | 97     | 635     | 754                             | McNeil 85" Tire Curing Press        |  |
|                       | 98     | 636     | 755                             | Bolshevik 88" Tire Curing Press     |  |
|                       | 99     | 637     | 706                             | Bolshevik 100" Tire Curing Press    | 0855 Modified                              |
|                       | 100    | 638     | 707                             | Bolshevik 100" Tire Curing Press    | #21  |
|                       | 101    | 639     | 708                             | Bolshevik 88" Tire Curing Press     |  |
|                       | 102    | 640     | 709                             | Bolshevik 88" Tire Curing Press     |  |
|                       | 103    | 641     | 710                             | Bolshevik 88" Tire Curing Press     |  |
| 104                   | 642    | 761     | McNeil 75" Tire Curing Press    |                                     |  |
| 105                   | 643    | 760     | McNeil 75" Tire Curing Press    |                                     |  |
| 106                   | 644    | 711     | Bolshevik 88" Tire Curing Press |                                     |  |
| 107                   | 645    | 704     | McNeil 85" Tire Curing Press    |                                     |  |
| 108                   | 646    | 703     | McNeil 85" Tire Curing Press    |                                     |  |
| 109                   | 647    | 756     | McNeil 75" Tire Curing Press    |                                     |  |
| 110                   | 648    | 757     | McNeil 75" Tire Curing Press    |                                     |  |
| 111                   | 649    | 175/176 | McNeil 55" Tire Curing Press    |                                     |  |

| <b>Emission Point Number</b> | <b>Emission Unit Number</b> | <b>Emission Unit Description</b>                                    | <b>Polk County AQD Construction Permit Number</b> |
|------------------------------|-----------------------------|---|---|
| 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<br>(3 Mold Cleaning Sand Blasting Units) | 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, 008                    | Slab Dip Mixers   | Grandfathered                                     |
| 43                           | 105                         | #1 and #2 Banbury Drop Mills  | 0558B   |
| 45                           | 111D                        | #4 Banbury 36" Ferrell Shaping Mill                                 | Grandfathered                                     |
|                              | 111E                        | #4 Slab Dip Applicator  | Grandfathered                                     |
|                              | 221                         | #8 Rubber Extruder  | Grandfathered                                     |
| 46                           | 106                         | #1 and #2 Banbury Shaping Mills                                     | Grandfathered                                     |
| 47                           | 001                         | Carbon Black Unloading Station                                      | Grandfathered                                     |

| <b>Emission Point Number</b> | <b>Emission Unit Number</b>              | <b>Emission Unit Description</b>  | <b>Polk County AQD Construction Permit Number</b> |
|------------------------------|--|---|---|
| 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                                     |
|                              | 500                                      | NRM Model 89 Tire Assembly Machine #209                                 | 2081 Modified #4                                  |
|                              | 501                                      | Cooper Tire Model 80 Tire Assembly Machine #215                         | 2081 Modified #4                                  |
|                              | 502                                      | Cooper Tire Conversion Tire Assembly Machine #213                       | 2081 Modified #4                                  |
|                              | 503                                      | Han Kook 3255 Tire Assembly Machine #310                                | 2081 Modified #4                                  |
|                              | 504                                      | NRM 80S Tire Assembly Machine #217                                      | 2081 Modified #4                                  |
|                              | 505                                      | NRM 80S Tire Assembly Machine #216                                      | 2081 Modified #4                                  |
|                              | 506                                      | NRM 80S Tire Assembly Machine #214                                      | 2081 Modified #4                                  |
|                              | 507                                      | NRM 80S Tire Assembly Machine #19                                       | 2081 Modified #4                                  |
|                              | 508                                      | NRM 80S Tire Assembly Machine #20                                       | 2081 Modified #4                                  |
|                              | 509                                      | NRM 80S Tire Assembly Machine #21                                       | 2081 Modified #4                                  |
|                              | 510                                      | NRM 80S Tire Assembly Machine #22                                       | 2081 Modified #4                                  |
|                              | 511                                      | NRM 610 Tire Assembly Machine #314                                      | 2081 Modified #4                                  |
|                              | 512                                      | NRM 89 Tire Assembly Machine #210                                       | 2081 Modified #4                                  |
|                              | 513                                      | NRM 89 Tire Assembly Machine #211                                       | 2081 Modified #4                                  |
|                              | 514                                      | NRM 89 Tire Assembly Machine #308                                       | 2081 Modified #4                                  |
|                              | 515                                      | NRM 88 Tire Assembly Machine #204                                       | 2081 Modified #4                                  |
|                              | 516                                      | NRM 88 Tire Assembly Machine #203                                       | 2081 Modified #4                                  |
|                              | 517                                      | NRM 88 Tire Assembly Machine #202                                       | 2081 Modified #4                                  |
|                              | 518                                      | NRM 88 Tire Assembly Machine #201                                       | 2081 Modified #4                                  |
|                              | 519                                      | Cooper Tire Conversion Tire Assembly Machine #207                       | 2081 Modified #4                                  |
|                              | 520                                      | RRR Tire Assembly Machine   | 2081 Modified #4                                  |
|                              | 524                                      | NRM C1519 Tire Assembly Machine #205                                    | 2081 Modified #4                                  |
|                              | 525                                      | NRM C1519 Tire Assembly Machine #206                                    | 2081 Modified #4                                  |
|                              | 526                                      | NRM 80W Tire Assembly Machine #39                                       | 2081 Modified #4                                  |
|                              | 527                                      | NRM 80W Tire Assembly Machine #40                                       | 2081 Modified #4                                  |
|                              | 564                                      | NRM 95 Tire Assembly Machine #431                                       | 2081 Modified #4                                  |
|                              | 568                                      | NRM 610 Tire Assembly Machine #311                                      | 2081 Modified #4                                  |
|                              | 569                                      | NRM 610 Tire Assembly Machine #312                                      | 2081 Modified #4                                  |
|                              | 570                                      | NRM 95 Tire Assembly Machine #432                                       | 2081 Modified #4                                  |
| 574                          | NRM 95 Tire Assembly Machine #307        | 2081 Modified #4  |   |
| 575                          | NRM 95 Tire Assembly Machine #434        | 2081 Modified #4  |   |
| 576                          | NRM 95 Tire Assembly Machine #304        | 2081 Modified #4  |   |
| 577                          | NRM 95 Tire Assembly Machine #436        | 2081 Modified #4  |   |
| 578                          | Han Kook 3255 Tire Assembly Machine #309 | 2081 Modified #4  |   |
| 728                          | NRM 401 Tire Assembly Machine #301       | 2081 Modified #4  |   |
| 729                          | NRM 401 Tire Assembly Machine            | 2081 Modified #4  |   |

| Emission Point Number | Emission Unit Number | Emission Unit Description  | Polk County AQD Construction Permit Number |
|-----------------------|----------------------|--|--|
| 52                    | 560                  | Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#933/934)                     | 2047 Modified                              |
|                       | 587                  | Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#927/928)                     | 2047 Modified                              |
|                       | 589                  | Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#929/930)                     | 2047 Modified                              |
|                       | 595                  | Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#935/936)                     | 2047 Modified                              |
|                       | 597                  | Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#937/938)                     | 2047 Modified                              |
|                       | 599                  | Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#939/940)                     | 2047 Modified                              |
|                       | 600                  | Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth                                | 2047 Modified                              |
|                       | 596                  | Upstairs Tire Spraybooth, with PAG High Capacity Overspray Media Polyester Multi-layered - Dry Filters | 1363                                       |
| 53                    |                      | <i>Tire Assembly Machines -</i>  |  |
|                       | 523                  | NRM Model 60 (#804)  | 0942 Modified                              |
|                       | 559, 561-562         | NRM Model 59 (#'s 811, 805-806)  |  |
|                       | 572                  | NRM Model 89 (# 808)   |  |
|                       | 584-585              | NRM Model 59H (#'s 809-810)  |  |

| <i>Tire Assembly Machines -</i> |   |  |               |
|---------------------------------|---|--|---------------|
| 54                              | 534-536, 538, 540-541, 545-550, 565, & 566A | NRM Model 61 (#'s 401-406, 408-412, 414-416)                               | Grandfathered |
|                                 | 537   | Akron Standard Model 336 (#420)  | 1417          |
|                                 | 539   | NRM Model 40 (# 407)   | Grandfathered |
|                                 | 542   | Tire Assembly System with Extruder (1), Stripwinders (2), & Spraybooth (1) | 2131          |
|                                 | 543   | Tire Assembly System with Extruder (1), Stripwinders (2), & Spraybooth (1) | 2131          |
|                                 | 552   | Tire Assembly System with Extruder (1), Stripwinders (2), & Spraybooth (1) | 2131          |
|                                 | 566   | NRM Model 610 (#418)   | 1414          |
|                                 | 573   | NRM Model 61C (#413)   | Grandfathered |
| 55                              | 126   | Rubber Pellet Storage  | Grandfathered |
| 56                              | 407   | Bead Former #7, NRM 2 ½ Rubber Extruder 22.1 L/D                           | 1403          |
| 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          |

| <b>Emission Point Number</b> | <b>Emission Unit Number</b>  | <b>Emission Unit Description</b>   | <b>Polk County AQD Construction Permit Number</b> |
|------------------------------|------------------------------|------------------------------------|---|
| <b>64</b>                    | <b>401</b>                   | <b>Bead Former #1</b>              | <b>2015 Modified #6</b>                           |
|                              | <b>402</b>                   | <b>Bead Former #5</b>              |   |
|                              | <b>403</b>                   | <b>Bead Former #6</b>              |   |
|                              | <b>404</b>                   | <b>Solvent Wash of Bead Filter</b> |   |
|                              | <b>408</b>                   | <b>Bead Former #3</b>              |   |
|                              | <b>528</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>529</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>530</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>531</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>532</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>533</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>571</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>582</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>591</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>592</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>593</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>594</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>713</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>714</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>715</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>717</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>718</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>719</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>720</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>721</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>722</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>723</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>724</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>725</b>                   | <b>Tire Assembly Machine</b>       |   |
|                              | <b>726</b>                   | <b>Tire Assembly Machine</b>       |   |
| <b>727</b>                   | <b>Tire Assembly Machine</b> |                                    |   |
| <b>909</b>                   | <b>Bead Flipping Machine</b> |                                    |   |
| <b>910</b>                   | <b>Bead Flipping Machine</b> |                                    |   |
| <b>911</b>                   | <b>Bead Flipping Machine</b> |                                    |   |

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## Insignificant Activities Equipment List

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| Insignificant Emission Unit Number | Insignificant Emission Unit Description                                    |
|------------------------------------|--|
| 216                                | Marking Applicator Number 7 Extruder                                       |
| 217                                | Marking Applicator Number 7 Extruder                                       |
| 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                         |
| 804                                | Powerhouse Safety Kleen Station: 9 gallon capacity                         |
| 805                                | Valve Shop Safety Kleen Station: 9 gallon capacity                         |
| 806                                | Building 28, 1 <sup>st</sup> Floor Safety Kleen Station: 9 gallon capacity |
| 807                                | Building 22, 1 <sup>st</sup> Floor Safety Kleen Station: 9 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                      |
| 906                                | Tomene Storage Tank: 20,000 gallon capacity                                |

## II. Plant-Wide Conditions

Facility Name: Titan Tire Corporation  
Permit Number: 02-TV-013R2

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

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### Permit Duration

The term of this permit is: Five (5) years  
Commencing on: **Start Date**  
Ending on: **Start Date + 5 Years**

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.

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### 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, 0855 Modified #21, 0911 Modified, 0942 Modified, 1032 Modified #3, 1386, 0558A, 0558B, 1385, 1403, 2047 Modified, 2081 Modified #4, 2131, 2260, 2312

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 0911 Modified, 0578 MODIFIED, 0942 Modified, 1032 Modified #3, 1386, 0558A, 1385, 2047 Modified, 2081 Modified #4, 2260, 2312

III) 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

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**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 (SO<sub>2</sub>): 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 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"

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### III. Emission Point-Specific Conditions

Facility Name: Titan Tire Corporation  
 Permit Number: 02-TV-013R2

#### 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

| EU   | EU Description               | Raw Material            | Rated Capacity     | Control ID |
|------|------------------------------|-------------------------|--------------------|------------|
|      | <b>(#27D Banbury Mixer):</b> |                         |                    |            |
| 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: PM<sub>10</sub>

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 - PM<sub>10</sub>

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

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-013R2. 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: PM<sub>10</sub>  
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)

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**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

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

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**Emission Point ID Number: 3**

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Emission Unit vented through this Emission Point: 121  
Emission Unit Description: #27D 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 #27D 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)

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**Emission Point ID Number: 4**Associated Equipment

Associated Emission Unit ID Numbers: 101, 103, 103A, 103B, 103C, and 103D

Emissions Control Equipment ID Number: CE-04

Emissions Control Equipment Description: Micropeel Baghouse, Model 1005-8-20

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| EU   | EU Description               | Raw Material            | Rated Capacity     | Control ID |
|------|------------------------------|-------------------------|--------------------|------------|
|      | <b>(#1 Banbury Mixer):</b>   |                         |                    |            |
| 101  | Hand weighing Chemicals      | Chemicals               | 210.6 lbs./ hr.    | CE-04      |
| 103  | Rubber Mixing                | Master Rubber (VOC)     | 17,123.3 lbs./ hr. | CE-04      |
| 103A | Automatic Weighing Chemicals | Chemicals, Carbon Black | 852.9 lbs./ hr.    | CE-04      |
| 103B | Charging Chute               | Chemicals, Carbon Black | 1,063.5 lbs./ hr.  | CE-04      |
| 103C | Carbon Black Loading         | Carbon Black            | 1,253.4 lbs./ hr.  | CE-04      |
| 103D | Chemical Loading             | Chemicals               | 1,063.5 lbs./ hr.  | CE-04      |

**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 1386

Pollutant: PM

Emission Limit: 6.831 lbs/hr.,  
29.92 TPY, and  
0.10 gr./ dscf

Authority for Requirement: Polk County Construction Permit 1386

567 IAC 23.3(2)"a"

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

Pollutant: VOC/ HAP

Emission Limits: 7.53 lbs/hr. and  
33.3 TPY

Authority for Requirement: Polk County Construction Permit 1386

**Operational Limits & Requirements**

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

Process throughput: The emissions from this process and its emission units are included in the 150,000,000 lb throughput limit as required by Polk County Construction Permit #0578 Modified.

Work practice standards: Routine Periodic Inspection.

Authority for Requirement: Polk County Construction Permit 1386

**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- *No later than six (6) months from the first day operations of #1 Banbury (EU 101, 103, 103A, 103B, 103C, and 103D / CE-04 / EP 04) resume.*

Test Method – 40 CFR 60, Appendix A, Method 5 and 40 CFR 51 Appendix 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**

*Note: #1 Banbury (EU 101, 103, 103A, 103B, 103C, and 103D / CE-04 / EP 04) was indefinitely idle as of the time of issuance of 02-TV-013R2. The following CAM Plan is required to be implemented and complied with immediately upon resumption/ start-up of #1 Banbury operations.*

**Compliance Assurance Monitoring Plan:**  
**#1 Banbury Mixer Baghouse**

**I. BACKGROUND**

A. Emissions Unit

Description: #1 Banbury Mixer

Emission Units included: (EP 4 / CE-04 / EUs 101, 103, 103 A-D)

Facility: Titan Tire Corporation, Des Moines, Iowa

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation: Polk County Construction Permit 1386

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: 6.831 lbs/hr., 29.92 TPY, and 0.10 gr./ dscf

Monitoring Requirements: Visible emissions, periodic monitoring

C. Control Technology

Micropeel Baghouse, Model 1005-8-20

**II. Monitoring Approach**

A. Indicator

Visible emissions will be used as an indicator.

B. Measurement Approach

EP 4 shall be visually checked for observable emissions once every day by a designated observer. The observation shall be taken while #1 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.

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 4)

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)

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## Emission Point ID Number: 5

### Associated Equipment

Associated Emission Unit ID Numbers: 102, 104, 104A, 104B, 104C, and 104D

Emissions Control Equipment ID Number: CE-05

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

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| EU   | EU Description               | Raw Material                 | Rated Capacity     | Control ID |
|------|------------------------------|------------------------------|--------------------|------------|
|      | <b>(#2 Banbury Mixer):</b>   |                              |                    |            |
| 102  | Hand weighing Chemicals      | Chemicals (PM)               | 210.6 lbs./ hr.    | CE-05      |
| 104  | Rubber Mixing (VOC)          | Master Rubber (VOC)          | 17,123.3 lbs./ hr. | CE-05      |
| 104A | Automatic Weighing Chemicals | Chemicals (PM)               | 852.9 lbs./ hr.    | CE-05      |
| 104B | Charging Chute               | Chemicals, Carbon Black (PM) | 1,253.4 lbs./ hr.  | CE-05      |
| 104C | Carbon Black Loading         | Carbon Black                 | 1,253.4 lbs./ hr.  | CE-05      |
| 104D | Chemical Loading             | Chemicals                    | 1,063.5 lbs./ hr.  | CE-05      |

### 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 0558A

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: PM<sub>10</sub>

Emission Limits: 8.71 lbs/hr., 38.15 TPY, and 0.10 grains/ scf.

Authority for Requirement: Polk County Construction Permit 0558A

Pollutant: VOC

Emission Limits: 7.60 lbs/hr. and 33.30 TPY

Authority for Requirement: Polk County Construction Permit 0558A

Pollutant: HAPs (Combined)  
Emission Limits: 2.40 lbs/hr. and 10.50 TPY  
Authority for Requirement: Polk County Construction Permit 0558A

**Operational Limits & Requirements**

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

Process throughput: Facility wide limit on master rubber utilized is 150,000,000 pounds per twelve month rolling period.

Work practice standards: Routine Periodic Inspection.

Reporting & Record keeping: Twelve month rolling records of rubber processed in the facility shall be maintained on site for five years and be made available to representatives of Polk County Air Quality Division upon request.

Authority for Requirement: Polk County Construction Permit 0558A

**Monitoring Requirements**

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

**Stack Testing:**

Pollutant - PM<sub>10</sub>

Stack Test to be Completed by – *No later than six (6) months from the first day operations of #2 Banbury (EU 102, 104, 104A, 104B, 104C, and 104D / CE-05 / EP 05) resume.*

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: #2 Banbury (EU 102, 104, 104A, 104B, 104C, and 104D / CE-05 / EP 05) was indefinitely idle as of the time of issuance of 02-TV-013R2. The following CAM Plan is required to be implemented and complied with immediately upon resumption/ start-up of #2 Banbury operations.*

**Compliance Assurance Monitoring Plan:**  
**#2 Banbury Mixer Baghouse**

**I. Background**

A. Emissions Unit

Description: #2 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: 0.10gr/scf

Regulation: Polk County Construction Permit 0558A  
Pollutant: PM<sub>10</sub>  
Emission Limits: 8.71 lbs/hr., 38.15 TPY, and 0.10 grains/ scf.

Monitoring Requirements: Visible emissions, periodic monitoring

C. Control Technology

Mikro Pulsaire 238 STRH-12-20 Baghouse

**II. Monitoring Approach**

A. Indicator

Visible emissions will be used as an indicator.

B. Measurement Approach

EP 5 shall be visually checked for observable emissions once every day by a designated observer. The observation shall be taken while #2 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, 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)

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## Emission Point ID Number: 6

### Associated Equipment

Associated Emission Unit ID Numbers: 110, 111, 111A, 111B, 111C, and 111R

Emissions Control Equipment ID Number: CE-06

Emissions Control Equipment Description: Airtrol Pulse Type Baghouse, Model 221 AW12

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| EU   | EU Description                | Raw Material                  | Rated Capacity     | Control ID |
|------|-------------------------------|-------------------------------|--------------------|------------|
|      | <b>(#4 Banbury Mixer):</b>    |                               |                    |            |
| 110  | Hand weighing Chemicals       | Chemicals (PM <sub>10</sub> ) | 210.6 lbs./ hr.    | CE-06      |
| 111  | Rubber Mixing (Chemical Load) | Chemicals, Carbon Black       | 1,063.5 lbs./ hr.  | CE-06      |
| 111  | Rubber Mixing                 | Master Rubber (VOC)           | 17,123.3 lbs./ hr. | CE-06      |
| 111A | Automatic Weighing Chemicals  | Chemicals (PM <sub>10</sub> ) | 852.6 lbs./ hr.    | CE-06      |
| 111B | Charging Chute                | Chemicals (PM <sub>10</sub> ) | 1,063.5 lbs./ hr.  | CE-06      |
| 111C | Rubber Milling                | Final Rubber (Chemicals)      | 1,063.5 lbs./ hr.  | CE-06      |
| 111R | Rubber Milling                | Final Rubber (VOC)            | 17,123.3 lbs./ hr. | CE-06      |

### 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 0682

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: PM<sub>10</sub>

Emission Limits: 4.32 lbs/hr., 18.92 TPY, and 0.05 grains/ dscf.

Authority for Requirement: Polk County Construction Permit 0682

**Operational Limits & Requirements**

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

Control equipment parameters: Pressure drop, (as measured by the Magnehelic Gauge), across the collector, (CE-06), of approximately 10 inches of water shall indicate the need for maintenance.

Work practice standards: The applicant shall provide, properly install, and maintain in calibration and good working order instruments for determining pressure drop across the baghouse.

Reporting & Record keeping: A daily log shall be maintained on site and shall be made available to members of Polk County AQD upon request. Daily visual inspection shall be conducted and results logged.

Authority for Requirement: Polk County Construction Permit 0682

**Monitoring Requirements**

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

**Stack Testing:**

Pollutant - PM<sub>10</sub>

Stack Test to be Completed by – **Date**

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:**  
**#4 Banbury Mixer Baghouse**

**I. Background**

A. Emissions Unit

Description: #4 Banbury Mixer  
Emission Units included: (EP 6 / CE-06 / EU's 110, 111, 111 A-C, 111 R)  
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: 0.10gr/scf

Regulation: Polk County Construction Permit 0682  
Pollutant: PM<sub>10</sub>  
Emission Limits: 4.32 lbs/hr., 18.92 TPY, and 0.05 grains/ dscf.

Monitoring Requirements: Visible emissions, periodic monitoring

C. Control Technology

Particulate Control: Airtrol Pulse Type Baghouse, Model 221 AW12 (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 by a designated observer. The observation shall be taken while #4 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, 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.

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)

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**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)

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| EU   | EU Description                | Raw Material                     | Rated Capacity     | Control ID |
|------|-------------------------------|----------------------------------|--------------------|------------|
|      | <b>(#5 Banbury Mixer):</b>    |                                  |                    |            |
| 114  | Hand weighing Chemicals       | Chemicals (PM <sub>10</sub> )    | 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 <sub>10</sub> )    | 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 <sub>10</sub> ) | 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- **Date**
- 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)

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## Emission Point ID Number: 8

### Associated Equipment

Associated Emission Unit ID Numbers: 115, 127, 127A, 127B, 127C, and 127R

Emissions Control Equipment ID Number: CE-08

Emissions Control Equipment Description: Sly Baghouse, Model 11/A

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| EU   | EU Description                | Raw Material                     | Rated Capacity     | Control ID |
|------|-------------------------------|----------------------------------|--------------------|------------|
|      | <b>(#6 Banbury Mixer):</b>    |                                  |                    |            |
| 115  | Hand weighing Chemicals       | Chemicals (PM <sub>10</sub> )    | 210.6 lbs./ hr.    | CE-08      |
| 127  | Rubber Mixing (Chemical Load) | Chemicals, Carbon Black          | 1,063.5 lbs./ hr.  | CE-08      |
| 127  | Rubber Mixing                 | Master Rubber (VOC)              | 17,123.3 lbs./ hr. | CE-08      |
| 127A | Automatic Weighing Chemicals  | Chemicals (PM <sub>10</sub> )    | 852.6 lbs./ hr.    | CE-08      |
| 127B | Charging Chute                | Chemicals, Carbon Black          | 1,063.5 lbs./ hr.  | CE-08      |
| 127C | Rubber Milling                | Final Rubber (PM <sub>10</sub> ) | 1,063.5 lbs./ hr.  | CE-08      |
| 127R | Rubber Milling, 84" Mill      | Final Rubber (VOC)               | 17,123.3 lbs./ hr. | CE-08      |

### 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 1385

Pollutant: PM

Emission Limit: 11.1 lbs/hr., 48.62 TPY, and 0.10 gr./ dscf

Authority for Requirement: Polk County Construction Permit 1385

567 IAC 23.3(2)"a"

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

Pollutant: VOC/ HAP

Emission Limits: 7.53 lbs/hr. and 33.3 TPY

Authority for Requirement: Polk County Construction Permit 1385

**Operational Limits & Requirements**

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

Process throughput: The emissions from this process and its emission units are included in the 150,000,000 lb throughput limit as required by Polk County Construction Permit #0578 (Modified).

Work practice standards: Routine Periodic Inspection.

Authority for Requirement: Polk County Construction Permit 1385

**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- **Date**

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)"b"

*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 8 / CE-08 / EUs 115, 127, 127A, 127B, 127C, and 127R)

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 1385

Pollutant: PM

Emission Limits: 11.1 lbs/hr., 48.62 TPY, and 0.10 grains/ dscf.

Monitoring Requirements: Visible emissions, periodic monitoring

C. Control Technology

Sly Baghouse, Model 11/A (CE-08)

**II. Monitoring Approach**

A. Indicator

Visible emissions will be used as an indicator.

B. Measurement Approach

EP 8 shall be visually checked for observable emissions once every day by a designated observer. The observation shall be taken while #6 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, 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.

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 8)

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)

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**Emission Point ID Number: 9**

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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 ft<sup>3</sup>/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: PM<sub>10</sub>

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: SO<sub>2</sub>

Emission Limits: 0.5 lbs./ MMBtu

Authority for Requirement: Polk County Construction Permit Number 2156

Pollutant: NO<sub>x</sub>

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, emergency demand response and periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. 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)

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**Emission Point ID Number: 10**

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Emission Unit vented through this Emission Point: 13

Emission Unit Description: 2325 ft<sup>3</sup>/hr Onan Model F1197GU Natural Gas Emergency Generator

Raw Material/Fuel: Natural Gas

Rated Capacity: 2325 ft<sup>3</sup>/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 2155  
Polk County Board of Health Rules and Regulations  
Chapter V, Article VI, Section 5-9

Pollutant: PM<sub>10</sub>

Emission Limits: 0.05 lbs/hr, 0.20 TPY

Authority for Requirement: Polk County Construction Permit Number 2155

Pollutant: PM

Emission Limits: 0.05 lbs/hr, 0.20 TPY

Authority for Requirement: Polk County Construction Permit Number 2155

Pollutant: SO<sub>2</sub>

Emission Limits: 0.01 TPY, 0.5 lbs./ MMBtu

Authority for Requirement: Polk County Construction Permit Number 2155

Pollutant: NO<sub>x</sub>

Emission Limits: 6.60 lbs/hr, 28.92 TPY

Authority for Requirement: Polk County Construction Permit Number 2155

Pollutant: VOC

Emission Limits: 0.27 lbs/hr, 1.18 TPY

Authority for Requirement: Polk County Construction Permit Number 2155

Pollutant: CO

Emission Limits: 0.93 lbs/hr, 4.06 TPY

Authority for Requirement: Polk County Construction Permit Number 2155

## **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, emergency demand response and periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency. 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

3. Keep records of the maintenance conducted on the stationary RICE.
4. 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

3. An initial notification is not required per 40 CFR 63.6645(a)(5).
4. 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 2155

**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: 1,405 acfm

Exhaust Temperature: 1,200 °F

Discharge Style: Horizontal

Authority for Requirement: Polk County Construction Permit Number 2155

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)

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**Emission Point ID Number: 13**

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Emission Unit vented through this Emission Point: 317  
Emission Unit Description: Ferrel Tandem Calender  
Raw Material/Fuel: Rubber  
Rated Capacity: 6,250.00 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)

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**Emission Point ID Number: 17**

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Emission Unit vented through this Emission Point: 405  
Emission Unit 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)

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**Emission Point ID Number: 17A**

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Emission Unit vented through this Emission Point: 406  
Emission Unit Description: Bead Dipping and Drying Station  
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)

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**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)

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

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| 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        |
| 603A | 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        |
| 604A | 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.

Pollutant: VOC

Emission Limits: 4.68 lbs/hr. and 20.48 TPY (EU 604 and 604A)

Authority for Requirement: Polk County Construction Permit 0818B

Pollutant: HAPs (Combined)

Emission Limits: 0.95 lbs/hr. and 4.17 TPY (EU 604 and 604A)

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: 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)

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

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| EU   | EU Description   | Raw Material        | Rated Capacity   | Control ID |
|------|--|---------------------|------------------|------------|
| 606  | Curing Presses, Bldg. 5,<br>(8) McNeil Duals (# 615- 630),<br>(27) Singles (#505- 531) | Uncured Tires (VOC) | 7,525. lbs./ hr. | N/A        |
| 606S | Curing Press, McNeil (1- 55") Dual<br>Cavity, Bldg. 5, (#613- 614)                     | Uncured Tires (VOC) | 350. lbs./ hr.   | N/A        |
| 606A | Curing Presses (5), McNeil, Bldg. 5 (#501-<br>504, 535)                                | Uncured Tires (VOC) | 875. lbs./ hr.   | N/A        |
| 606B | Curing Presses (2), McNeil, Bldg. 5 (#536-<br>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 606, 606A, and 606B: No applicable emission limits at this time.

Pollutant: Opacity

Emission Limit: No Visible Emissions (EU 606S)

Authority for Requirement: Polk County Construction Permit 1342

Pollutant: VOC

Emission Limits: 2.338 lbs/hr. and 10.240 TPY (EU 606S)

Authority for Requirement: Polk County Construction Permit 1342

Pollutant: HAPs (Combined)

Emission Limits: 0.476 lbs/hr. and 2.085 TPY (EU 606S)

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.*

Work practice standards: Routine Periodic Inspection.

Authority for Requirement: Polk County Construction Permit 1342

**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

Associated Emission Unit ID Numbers: (602A-277) – (602A-337), (602B-175) – (602B-201), (602B-211) – (602B-233), (602B-243) – (602B-273), (previous four series include all inclusive with odd numbered last 3 digits only, i.e., last 3 digit even numbers excluded from list), 609 – 612, and 615- 649 (previous 2 series include all EU numbers within range, both odd and even).

| Item # | EU 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-303 | 303/304              | McNeil 42" Dual Tire Curing Press | M16             | 350                      | 2/9/2004             |
| 15     | 602A-305 | 305/306              | McNeil 42" Dual Tire Curing Press | M16             | 350                      | 2/9/2004             |
| 16     | 602A-307 | 309/310              | McNeil 50" Dual Tire Curing Press |                 | 350                      | 6/8/2012             |
| 17     | 602A-309 | 311/312              | McNeil 40" Dual Tire Curing Press |                 | 350                      | 12/5/2011            |
| 18     | 602A-311 | 313/314              | McNeil 45" Dual Tire Curing Press | 350-45 M9-17P   | 350                      | 10/26/2012           |
| 19     | 602A-313 | 315/316              | McNeil 42" Dual Tire Curing Press |                 | 350                      | 4/20/2011            |
| 20     | 602A-317 | 317/318              | McNeil 45" Dual Tire Curing Press |                 | 350                      | 1/13/2014            |
| 21     | 602A-319 | 319/320              | McNeil 45" Dual Tire Curing Press |                 | 350                      | 2/25/2013            |
| 22     | 602A-321 | 321/322              | McNeil 45" Dual Tire Curing Press |                 | 350                      | 2/25/2013            |
| 23     | 602A-323 | 323/324              | McNeil 45" Dual Tire Curing Press |                 | 350                      | 2/25/2013            |
| 24     | 602A-325 | 325/326              | McNeil 45" Dual Tire Curing Press |                 | 350                      | 2/25/2013            |
| 25     | 602A-327 | 327/328              | McNeil 45" Dual Tire Curing Press |                 | 350                      | 2/25/2013            |
| 26     | 602A-329 | 329/330              | McNeil 45" Dual Tire Curing Press |                 | 350                      | 2/25/2013            |
| 27     | 602A-331 | 331/332              | McNeil 45" Dual Tire Curing Press |                 | 350                      | 2/25/2013            |
| 28     | 602A-333 | 333/334              | McNeil 45" Dual Tire Curing Press | 300-45-M8-14P   | 350                      | 12/10/2012           |
| 29     | 602A-335 | 335/336              | McNeil 45" Dual Tire Curing Press | 300-45-M8-14P   | 350                      | 12/10/2012           |
| 30     | 602A-337 | 337/338              | McNeil 45" Dual Tire Curing Press | 300-45-14-M8    | 350                      | 12/10/2012           |
| 31     | 602B-175 | 275/276              | McNeil 45" Dual Tire Curing Press | 230-45-11-6 PTB | 350                      | 4/20/2011            |
| 32     | 602B-177 | 177/178              | McNeil 45" Dual Tire Curing Press | 230-45-11-6 PTB | 350                      | 11/1/2009            |
| 33     | 602B-179 | 179/180              | McNeil 45" Dual Tire Curing Press | 230-45-11-6 PTB | 350                      | 4/1/2010             |
| 34     | 602B-181 | 181/182              | McNeil 45" Dual Tire Curing Press | 230-45-11-6 PTB | 350                      | 6/8/2011             |
| 35     | 602B-183 | 183/184              | McNeil 45" Dual Tire Curing Press | 230-45-11-6 PTB | 350                      | Grandfathered        |

| Item # | EU ID #  | Titan Curing Press # | Emission Unit Description           | Model                   | Maximum Capacity (lb/hr) | Date of Construction |
|--------|----------|----------------------|-------------------------------------|-------------------------|--------------------------|----------------------|
| 36     | 602B-185 | 185/186              | McNeil 45" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 37     | 602B-187 | 187/188              | McNeil 45" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 38     | 602B-189 | 189/190              | McNeil 45" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 39     | 602B-191 | 191/192              | McNeil 45" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 40     | 602B-193 | 193/194              | McNeil 45" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 41     | 602B-195 | 195/196              | McNeil 45" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 42     | 602B-197 | 197/198              | McNeil 45" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 43     | 602B-199 | 199/200              | McNeil 45" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 44     | 602B-201 | 201/202              | McNeil 45" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 45     | 602B-211 | 211/212              | McNeil 40" Dual Tire Curing Press   | 230-40-11 1/2 6 1/2 PTB | 350                      | 10/8/2004            |
| 46     | 602B-213 | 213/214              | McNeil 40" Dual Tire Curing Press   | 230-40-11 1/2 6 1/2 PTB | 350                      | 10/8/2004            |
| 47     | 602B-215 | 215/216              | McNeil 40" Dual Tire Curing Press   | 230-40-11 1/2 6 1/2 PTB | 350                      | 10/8/2004            |
| 48     | 602B-217 | 217/218              | McNeil 40" Dual Tire Curing Press   | 230-40-11 1/2 6 1/2 PTB | 350                      | 10/8/2004            |
| 49     | 602B-219 | 219/220              | McNeil 40" Dual Tire Curing Press   | 230-40-11 1/2 6 1/2 PTB | 350                      | 10/8/2004            |
| 50     | 602B-221 | 221/222              | McNeil 40" Dual Tire Curing Press   | 230-40-11 1/2 6 1/2 PTB | 350                      | 10/8/2004            |
| 51     | 602B-223 | 223/224              | McNeil 40" Dual Tire Curing Press   | 230-40-11 1/2 6 1/2 PTB | 350                      | 2/9/2004             |
| 52     | 602B-225 | 225/226              | McNeil 40" Dual Tire Curing Press   | 230-40-11 1/2 6 1/2 PTB | 350                      | 2/9/2004             |
| 53     | 602B-227 | 227/228              | McNeil 40" Dual Tire Curing Press   | 230-40-11 1/2 6 1/2 PTB | 350                      | 2/9/2004             |
| 54     | 602B-229 | 229/230              | McNeil 40" Dual Tire Curing Press   | 230-40-11 1/2 6 1/2 PTB | 350                      | 2/9/2004             |
| 55     | 602B-231 | 231/232              | McNeil 45" Dual Tire Curing Press   |                         | 350                      | 2/9/2004             |
| 56     | 602B-233 | 233/234              | McNeil 45" Dual Tire Curing Press   |                         | 350                      | 2/9/2004             |
| 57     | 602B-243 | 243/244              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 58     | 602B-245 | 245/246              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 59     | 602B-247 | 247/248              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 60     | 602B-249 | 249/250              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 61     | 602B-251 | 251/252              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 62     | 602B-253 | 253/254              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 63     | 602B-255 | 255/256              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 64     | 602B-257 | 257/258              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 65     | 602B-259 | 259/260              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 66     | 602B-261 | 261/262              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 67     | 602B-263 | 263/264              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 68     | 602B-265 | 265/266              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 69     | 602B-267 | 267/268              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 70     | 602B-269 | 269/270              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 71     | 602B-271 | 271/272              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 72     | 602B-273 | 273/274              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 73     | 609      | 235/236              | McNeil 45" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 74     | 610      | 237/238              | McNeil 45" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 75     | 611      | 239/240              | McNeil 45" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 76     | 612      | 241/242              | McNeil 42" Dual Tire Curing Press   |                         | 350                      | Grandfathered        |
| 77     | 615      | 701                  | McNeil 75" Tire Curing Press        | M-7                     | 175                      | 3/1/1996             |
| 78     | 616      | 702                  | McNeil 75" Tire Curing Press        | M-7                     | 175                      | 3/1/1996             |
| 79     | 617      | 758                  | McNeil 75" Tire Curing Press        | M-3                     | 175                      | 3/1/1996             |
| 80     | 618      | 759                  | McNeil 75" Tire Curing Press        | M-3                     | 175                      | 3/1/1996             |
| 81     | 619      | 751                  | McNeil 85" Tire Curing Press        | M-8                     | 175                      | 3/1/1996             |
| 82     | 620      | 752                  | McNeil 85" Tire Curing Press        | M-8                     | 175                      | 3/1/1996             |
| 83     | 621      | 173/174              | McNeil 63.5" Dual Tire Curing Press | M-5                     | 350                      | 3/1/1996             |
| 84     | 622      | 171/172              | McNeil 63.5" Dual Tire Curing Press | M-5                     | 350                      | 3/1/1996             |

| <b>Item #</b> | <b>EU ID #</b> | <b>Titan Curing Press #</b> | <b>Emission Unit Description</b>    | <b>Model</b> | <b>Maximum Capacity (lb/hr)</b> | <b>Date of Construction</b> |
|---------------|----------------|-----------------------------|-------------------------------------|--------------|---------------------------------|-----------------------------|
| 85            | 623            | 169/170                     | McNeil 63.5" Dual Tire Curing Press | M-5          | 350                             | 3/1/1996                    |
| 86            | 624            | 167/168                     | McNeil 63.5" Dual Tire Curing Press | M-5          | 350                             | 3/1/1996                    |
| 87            | 625            | 165/166                     | McNeil 63.5" Dual Tire Curing Press | M-1          | 350                             | 3/1/1996                    |
| 88            | 626            | 163/164                     | McNeil 63.5" Dual Tire Curing Press | M-1          | 350                             | 3/1/1996                    |
| 89            | 627            | 161/162                     | McNeil 63.5" Dual Tire Curing Press | M-1          | 350                             | 3/1/1996                    |
| 90            | 628            | 159/160                     | McNeil 63.5" Dual Tire Curing Press | M-1          | 350                             | 3/1/1996                    |
| 91            | 629            | 157/158                     | McNeil 63.5" Dual Tire Curing Press | M-4          | 350                             | 3/1/1996                    |
| 92            | 630            | 155/156                     | McNeil 63.5" Dual Tire Curing Press | M-1          | 350                             | 3/1/1996                    |
| 93            | 631            | 153/154                     | McNeil 63.5" Dual Tire Curing Press | M-1          | 350                             | 3/1/1996                    |
| 94            | 632            | 151/152                     | McNeil 63.5" Dual Tire Curing Press | M-5          | 350                             | 3/1/1996                    |
| 95            | 633            | 705                         | Bolshevik 100" Tire Curing Press    | R            | 250                             | 3/1/1996                    |
| 96            | 634            | 753                         | McNeil 75" Tire Curing Press        | M-3          | 175                             | 3/1/1996                    |
| 97            | 635            | 754                         | McNeil 85" Tire Curing Press        | M-8          | 175                             | 3/1/1996                    |
| 98            | 636            | 755                         | Bolshevik 88" Tire Curing Press     | R            | 175                             | 3/1/1996                    |
| 99            | 637            | 706                         | Bolshevik 100" Tire Curing Press    |              | 250                             | 10/31/2008                  |
| 100           | 638            | 707                         | Bolshevik 100" Tire Curing Press    |              | 250                             | 10/31/2008                  |
| 101           | 639            | 708                         | Bolshevik 88" Tire Curing Press     |              | 175                             | 10/31/2008                  |
| 102           | 640            | 709                         | Bolshevik 88" Tire Curing Press     |              | 175                             | 10/1/2008                   |
| 103           | 641            | 710                         | Bolshevik 88" Tire Curing Press     |              | 175                             | 10/31/2008                  |
| 104           | 642            | 761                         | McNeil 75" Tire Curing Press        |              | 175                             | 10/31/2008                  |
| 105           | 643            | 760                         | McNeil 75" Tire Curing Press        |              | 175                             | 10/31/2008                  |
| 106           | 644            | 711                         | Bolshevik 88" Tire Curing Press     |              | 175                             | 10/31/2008                  |
| 107           | 645            | 704                         | McNeil 85" Tire Curing Press        |              | 175                             | 10/31/2008                  |
| 108           | 646            | 703                         | McNeil 85" Tire Curing Press        |              | 175                             | 10/31/2008                  |
| 109           | 647            | 756                         | McNeil 75" Tire Curing Press        |              | 175                             | 10/31/2008                  |
| 110           | 648            | 757                         | McNeil 75" Tire Curing Press        |              | 175                             | 10/31/2008                  |
| 111           | 649            | 175/176                     | McNeil 55" Tire Curing Press        |              | 350                             | 4/20/2011                   |

Raw Material: Uncured Tires

Control Equipment: None

Total Maximum Capacity: 35,225 lb/hr rubber

Authority for Requirement: Polk County Construction Permit 0855 Modified #21

## 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 0855 Modified #21

Pollutant: VOC

Emission Limits: 10.92 lbs./hr. and 47.83 TPY

Authority for Requirement: Polk County Construction Permit 0855 Modified #21

Pollutant: HAP (total)

Emission Limits: 3.00 lbs./hr. and 13.16 TPY

Authority for Requirement: Polk County Construction Permit 0855 Modified #21

Pollutant: HAP (single)

Emission Limits: 0.80 lbs./hr. and 3.50 TPY

Authority for Requirement: Polk County Construction Permit 0855 Modified #21

### 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.

Work practice standards: Routine Periodic Inspection.

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.
- Twelve month rolling records of rubber processed shall be maintained on a monthly basis and 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 #21

**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: 7000 acfm

Exhaust Temperature: 90°F

Discharge Style: Vertical, unobstructed

Authority for Requirement: Polk County Construction Permit 0855 Modified #21

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)

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**Emission Point ID Number: 28**

Associated Equipment

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

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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: PM/ PM<sub>10</sub>  
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)

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**Emission Point ID Number: 29**

Associated Equipment

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

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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: PM/ PM<sub>10</sub>  
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)

*(For the tire painting operation)*

Pollutant: PM/ PM<sub>10</sub>  
Emission Limits: 1.29 lbs/hr., 5.63 TPY, and 0.05 grains/ dscf  
Authority for Requirement: Polk County Construction Permit 2260  
*(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 Torrit 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 Torrit 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)

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**Emission Point ID Number: 34C**

Associated Equipment

Emissions Control Equipment ID Number: CE-34C

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

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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: PM/ PM<sub>10</sub>

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)

*(For the tire painting operation)*

Pollutant: PM/ PM<sub>10</sub>

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

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

*(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"

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)

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**Emission Point ID Number: 35**

Associated Equipment

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

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| 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)

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**Emission Point ID Number: 36**

Associated Equipment

Emissions Control Equipment ID Number: CE-36

Emissions Control Equipment Description: Cyclone Separator and Baghouse

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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: 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: PM<sub>10</sub>

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

Authority for Requirement: Polk County Construction Permit 0919

**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 - PM<sub>10</sub>
- Stack Test to be Completed by- **Date**
- 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)

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**Emission Point ID Number: 38****Associated Equipment**Associated Emission Unit ID Numbers: 820 and 821

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| EU  | EU Description               | Raw Material       | Rated Capacity    | Control ID |
|-----|------------------------------|--------------------|-------------------|------------|
| 820 | Boiler #1, 18.39 MM BTU/ Hr. | Natural Gas        | 0.01803 MMCF/ Hr. | NA         |
| 820 | Boiler #1, 18.39 MM BTU/ Hr. | No. 6 Residual Oil | 122.6 Gal./ Hr.   | NA         |
| 821 | Boiler #2, 18.39 MM BTU/ Hr. | Natural Gas        | 0.01803 MMCF/ Hr. | NA         |
| 821 | Boiler #2, 18.39 MM BTU/ Hr. | No. 6 Residual Oil | 122.6 Gal./ 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: &lt;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: SO<sub>2</sub>Emission Limits: 2.5 lb./ MM BTU (when burning fuel oil) and,  
500 parts per million by volume (when burning natural gas)Authority for Requirement: 567 IAC 23.3(3)"b" (2) and 567 IAC 23.3(3)"e"  
Polk County Board of Health Rules and Regulations: Chapter V, Article IX, Section 5-27: (2) (a) and (5)

**Monitoring Requirements**

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

EP 38 shall be visually checked for observable emissions once a day by a designated observer, on days when EU 820 or 821 is combusting No. 6 Residual Oil. The observation shall be taken while the Boiler #1 (EU 820) or Boiler #2 (EU 821) are operating. Opacity shall be observed to ensure that no visible emissions occur during the 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.

**Reporting & Record keeping:**

- I) The facility shall ensure that a fuel supplier certification and analysis are received with each shipment of residual oil. Fuel supplier certification shall include the following information:
  - 1) The name of the residual oil supplier.
  - 2) A sulfur content analysis, listing the maximum percent sulfur of the shipment.
  - 3) Sulfur content shall not exceed 2.389% by weight.
  - 4) Date of the residual oil shipment.
- II) The owner or operator shall record and maintain records of the amounts of residual oil and natural gas combusted during each month in EU 820 and EU 821.

All records required shall be maintained by the owner or operator of EU 820 and EU 821 for a period of five years following the date of such record 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)

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**Emission Point ID Number: 39**

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Emission Unit vented through this Emission Point: 822  
Emission Unit Description: Boiler #3, 43.88 MM BTU/ Hr.  
Raw Material/Fuel: Natural Gas and No. 6 Residual Oil  
Rated Capacity: 0.04302 MMCF/ Hr. and 292.5 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: <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: SO<sub>2</sub>

Emission Limits: 2.5 lb./ MM BTU (when burning fuel oil) and,  
500 parts per million by volume (when burning natural gas)

Authority for Requirement: 567 IAC 23.3(3)"b" (2) and 567 IAC 23.3(3)"e"  
Polk County Board of Health Rules and Regulations: Chapter V,  
Article IX, Section 5-27: (2) (a) and (5)

**Monitoring Requirements**

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

EP 39 shall be visually checked for observable emissions once a day by a designated observer, on days when EU 822 is combusting No. 6 Residual Oil. The observation shall be taken while the Boiler #3 (EU 822) is operating. Opacity shall be observed to ensure that no visible emissions occur during the 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.

**Reporting & Record keeping:**

- I) The facility shall ensure that a fuel supplier certification and analysis are received with each shipment of residual oil. Fuel supplier certification shall include the following information:
  - 1) The name of the residual oil supplier.
  - 2) A sulfur content analysis, listing the maximum percent sulfur of the shipment.
  - 3) Sulfur content shall not exceed 2.389% by weight.
  - 4) Date of the residual oil shipment.
- II) The owner or operator shall record and maintain records of the amounts of residual oil and natural gas combusted during each month in EU 822.

All records required shall be maintained by the owner or operator of EU 822 for a period of five years following the date of such record 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)

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**Emission Point ID Number: 40**

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Emission Unit vented through this Emission Point: 823  
Emission Unit Description: Boiler #4, 31.34 MM BTU/ Hr.  
Raw Material/Fuel: Natural Gas and No. 6 Residual Oil  
Rated Capacity: 0.03073 MMCF/ Hr. and 208.93 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: <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: SO<sub>2</sub>

Emission Limits: 2.5 lb./ MM BTU (when burning fuel oil) and,  
500 parts per million by volume (when burning natural gas)

Authority for Requirement: 567 IAC 23.3(3)"b" (2) and 567 IAC 23.3(3)"e"  
Polk County Board of Health Rules and Regulations: Chapter V,  
Article IX, Section 5-27: (2) (a) and (5)

**Monitoring Requirements**

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

EP 40 shall be visually checked for observable emissions once a day by a designated observer, on days when EU 823 is combusting No. 6 Residual Oil. The observation shall be taken while the Boiler #4 (EU 823) is operating. Opacity shall be observed to ensure that no visible emissions occur during the 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.

**Reporting & Record keeping:**

I) The facility shall ensure that a fuel supplier certification and analysis are received with each shipment of residual oil. Fuel supplier certification shall include the following information:

- 1) The name of the residual oil supplier.
- 2) A sulfur content analysis, listing the maximum percent sulfur of the shipment.
- 3) Sulfur content shall not exceed 2.389% by weight.
- 4) Date of the residual oil shipment.

II) The owner or operator shall record and maintain records of the amounts of residual oil and natural gas combusted during each month in EU 823.

All records required shall be maintained by the owner or operator of EU 823 for a period of five years following the date of such record 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)

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**Emission Point ID Number: 41**

Associated Equipment

Associated Emission Unit ID Numbers: 007 and 008

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| EU  | EU Description | Raw Material | Rated Capacity  | Control ID |
|-----|----------------|--------------|-----------------|------------|
| 007 | Slab Dip Mixer | Slab Dip     | 7.744 lbs./ hr. | NA         |
| 008 | Slab Dip Mixer | 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)

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**Emission Point ID Number: 43**

Associated Equipment

Emissions Control Equipment ID Number: CE-43  
Emissions Control Equipment Description: Sly 11A Baghouse

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Emission Unit vented through this Emission Point: 105  
Emission Unit Description: #1 and #2 Banbury Drop Mills  
Raw Material/Fuel: Final Rubber  
Rated Capacity: 2,127.0 lbs./ hr. (Chemicals),  
2,506.8 lbs./ hr. (Carbon Back), and  
17,123.3 lbs./ hr. (Rubber)

**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 0558B

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: PM<sub>10</sub>  
Emission Limits: 8.03 lbs/hr., 35.16 TPY, and 0.10 grains/ scf.  
Authority for Requirement: Polk County Construction Permit 0558B

Pollutant: VOC  
Emission Limits: 7.60 lbs/hr. and 33.30 TPY  
Authority for Requirement: Polk County Construction Permit 0558B

Pollutant: HAPs (Combined)  
Emission Limits: 2.40 lbs/hr. and 10.50 TPY  
Authority for Requirement: Polk County Construction Permit 0558B

**Operational Limits & Requirements**

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

Process throughput: Facility wide limit on master rubber utilized is 150,000,000 pounds per twelve month rolling period.

Work practice standards: Routine Periodic Inspection.

Reporting & Record keeping: Twelve month rolling records of rubber processed in the facility shall be maintained on site for five years and be made available to representatives of Polk County Air Quality Division upon request.

Authority for Requirement: Polk County Construction Permit 0558B

**Monitoring Requirements**

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

EP 43 shall be visually checked for observable emissions once every day by a designated observer, on days when EU105 is operating. The observation shall be taken while the #1 and #2 Banbury Drop Mills (EU 105) with Sly 11A Baghouse (CE-43) 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 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. 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**

**Compliance Assurance Monitoring Plan:**  
**#1 and #2 Banbury Drop Mills**

**I. BACKGROUND**

A. Emissions Unit

Description: #1 and #2 Banbury Drop Mills  
Emission Units included: (EP 43 / CE-43 / EU 105)  
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 0558B

Pollutant: Particulate Matter less than 10 microns

Emission Limits: 8.03 lbs/hr., 35.16 TPY, and 0.10 gr./ scf.

Monitoring Requirements: Visible emissions, periodic monitoring

C. Control Technology

Sly 11A Baghouse (CE-43)

**II. Monitoring Approach**

A. Indicator

Visible emissions will be used as an indicator.

B. Measurement Approach

EP 43 shall be visually checked for observable emissions once every day by a designated observer, on days when EU 105 is in operation. The observation shall be taken while the #1 and #2 Banbury Drop Mills (EU 105) with Sly 11A Baghouse (CE-43) 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 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. 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.

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

1. Differential pressure drop over 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 43)

ii.) 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:

i.) 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.

ii.) 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)

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**Emission Point ID Number: 45**

Associated Equipment

Associated Emission Unit ID Numbers: 111D, 111E, and 221

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| EU   | EU Description                      | Raw Material | Rated Capacity    | Control ID |
|------|-------------------------------------|--------------|-------------------|------------|
| 111D | #4 Banbury 36" Ferrell Shaping Mill | Final Rubber | 17,123.30 lb./hr. | NA         |
| 111E | #4 Slab Dip Applicator              | Slab Dip     | 0.51 lb./hr.      | NA         |
| 221  | #8 Rubber Extruder                  | Rubber       | 1100.80 lb./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.*

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)

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**Emission Point ID Number: 46**

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Emission Unit vented through this Emission Point: 106  
Emission Unit Description: #1 and #2 Banbury Shaping Mills  
Raw Material/Fuel: Final Rubber  
Rated Capacity: 17,123.30 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)

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**Emission Point ID Number: 47**

Associated Equipment

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

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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)

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**Emission Point ID Number: 50**

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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: 0.75 MM BTU/ Hr.

**Applicable Requirements**

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

*The emissions from each of the five (5) 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: PM<sub>10</sub>

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: SO<sub>2</sub>

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<sub>x</sub>

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> |   |                   |                           |                          |
| 500  | Tire Assembly Machine, NRM Model 89 (#209)                              | Tire Wash Solvent | 0.47 lbs./ hr.            | N/A                      |
| 501  | Tire Assembly Machine, Cooper Tire Model CR2 Conversion Model 80 (#215) | Tire Wash Solvent | 0.47 lbs./ hr. (each)     | N/A                      |
| 502  | Tire Assembly Machine, Cooper Tire Model Conversion (#213)              |                   |                           |                          |
| 503  | Tire Assembly Machine, Han Kook Model 3255 (#310)                       | Tire Wash Solvent | 0.47 lbs./hr. (each)      | N/A                      |
| 504  | Tire Assembly Machine, NRM Model 80S (#217)                             | Tire Wash Solvent | 0.47 lbs./ hr. (each)     | N/A                      |
| 505  | Tire Assembly Machine, NRM Model 80S (#216)                             |                   |                           |                          |
| 506  | Tire Assembly Machine, NRM Model 80S (#214)                             |                   |                           |                          |
| 507  | Tire Assembly Machine, NRM Model 80S (#19)                              |                   |                           |                          |
| 508  | Tire Assembly Machine, NRM Model 80S (#20)                              |                   |                           |                          |
| 509  | Tire Assembly Machine, NRM Model 80S (#21)                              |                   |                           |                          |
| 510  | Tire Assembly Machine, NRM Model 80S (#22)                              |                   |                           |                          |
| 511  | Tire Assembly Machine, NRM Model 610 (#314)                             | Tire Wash Solvent | 0.84 lbs./ hr.            | N/A                      |
| 512  | Tire Assembly Machine, NRM Model 89 (#210)                              | Tire Wash Solvent | 0.47 lbs./ hr. (each)     | N/A                      |
| 513  | Tire Assembly Machine, NRM Model 89 (#211)                              |                   |                           |                          |
| 514  | Tire Assembly Machine, NRM Model 89 (#308)                              |                   |                           |                          |
| 515  | Tire Assembly Machine, NRM Model 88 (#204)                              |                   |                           |                          |
| 516  | Tire Assembly Machine, NRM Model 88 (#203)                              |                   |                           |                          |
| 517  | Tire Assembly Machine, NRM Model 88 (#202)                              |                   |                           |                          |
| 518  | Tire Assembly Machine, NRM Model 88 (#201)                              |                   |                           |                          |
| 519  | Cooper Tire Conversion Tire Assembly Machine (#207)                     |                   |                           |                          |
| 520  | RRR Tire Assembly Machine   |                   |                           |                          |
| 524  | Tire Assembly Machine, NRM Model C1519 (#205)                           |                   |                           |                          |
| 525  | Tire Assembly Machine, NRM Model C1519 (#206)                           |                   |                           |                          |
| 526  | Tire Assembly Machine, NRM Model 80W (#39)                              |                   |                           |                          |
| 527  | Tire Assembly Machine, NRM Model 80W (#40)                              |                   |                           |                          |
| 564  | Tire Assembly Machine, NRM Model 95 (#431)                              | Tire Wash Solvent | 0.47 lbs./ hr.            | N/A                      |
| 568  | Tire Assembly Machine, NRM 610 (#311)                                   | Tire Wash Solvent | 0.84 lbs./ hr.            | N/A                      |
| 569  | Tire Assembly Machine, NRM 610 (#312)                                   | Tire Wash Solvent | 0.84 lbs./ hr.            | N/A                      |
| 570  | Tire Assembly Machine, NRM Model 95 (#432)                              | Tire Wash Solvent | 0.47 lbs./ hr. (each)     | N/A                      |
| 574  | Tire Assembly Machine, NRM Model 95 (#307)                              |                   |                           |                          |
| 575  | Tire Assembly Machine, NRM Model 95 (#434)                              |                   |                           |                          |
| 576  | Tire Assembly Machine, NRM Model 95 (#304)                              |                   |                           |                          |
| 577  | Tire Assembly Machine, NRM Model 95 (#436)                              | Tire Wash Solvent | 0.47 lbs./ hr.            | N/A                      |

|     |  |                              |  |  |
|-----|--|------------------------------|--|--|
| 578 | Tire Assembly Machine, Han Kook Model 3255 (#309)                                  | Tire Wash Solvent            | 0.47 lbs./ hr.   | N/A  |
| 728 | Tire Assembly Machine, NRM Model 401 (#301)  | Tire Wash Solvent            | 0.47 lbs./ hr.   | N/A  |
| 729 | Tire Assembly Machine, NRM Model 401   | Tire Wash Solvent            | 0.47 lbs./ hr.   | N/A  |
| 560 | Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#933/934) | Rubber and Inside Spray      | 1,800 lbs./ hr. rubber and 2.46 gallons/ hour (Inside Spray) | CE-560<br>Dry filter on the spraybooth   |
| 587 | Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#927/928) | Rubber and Inside Spray      | 4,500 lbs./ hr. rubber and 4.92 gallons/ hour (Inside Spray) | CE-587<br>Dry filter on the spraybooth   |
| 589 | Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#929/930) | Rubber and Inside Spray      | 4,500 lbs./ hr. rubber and 4.92 gallons/ hour (Inside Spray) | CE-589<br>Dry filter on the spraybooth   |
| 595 | Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#935/936) | Rubber and Inside Spray      | 4,500 lbs./ hr. rubber and 4.92 gallons/ hour (Inside Spray) | CE-595<br>Dry filter on the spraybooth   |
| 597 | Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#937/938) | Rubber and Inside Spray      | 4,500 lbs./ hr. rubber and 4.92 gallons/ hour (Inside Spray) | CE-597<br>Dry filter on the spraybooth   |
| 599 | Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth (#939/940) | Rubber and Inside Spray      | 4,500 lbs./ hr. rubber and 4.92 gallons/ hour (Inside Spray) | CE-599<br>Dry filter on the spraybooth   |
| 600 | Tire Assembly System with 1 Extruder, 2 Stripwinders, and 1 Spray booth            | Rubber and Inside Spray      | 4,500 lbs./ hr. rubber and 4.92 gallons/ hour (Inside Spray) | CE-600<br>Dry filter on the spraybooth   |
| 596 | Upstairs Tire Spraybooth   | DESCO Acrylic Latex Emulsion | 5.63 gallons / hour  | CE-596<br>PAG High Capacity Overspray Media Polyester Multi-layered- Dry Filters |

## 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 Emitting Sources:

| EU   | Opacity              | VOC                               | Authority for Requirement                        |
|--|----------------------|-----------------------------------|--|
| 500 – 520,<br>524 – 527,<br>564,<br>568 – 570,<br>574 – 578,<br>728, 729 | No visible emissions | 18.03 lbs./ hr. & 79.02 TPY (VOC) | Polk County Construction Permit 2081 Modified #4 |

#### Spraybooths:

| EU  | Opacity              | PM <sup>(1)</sup>                                     | PM <sub>10</sub>                                      | VOC                        | HAPs (Combined)            | Authority for Requirement                     |
|---|----------------------|---|---|----------------------------|----------------------------|---|
| 560   | No visible emissions | 0.33 lbs./ hr. & 1.45 TPY & 0.01 gr./ dscf.           | 0.33 lbs./ hr. & 1.45 TPY & 0.01 gr./ dscf.           | 0.71 TPY                   | N/A                        | Polk County Construction Permit 2047 Modified |
| 587,<br>589,<br>595,<br>597,<br>599,<br>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)         | N/A                        | Polk County Construction Permit 2047 Modified |
| 560,<br>587,<br>589,<br>595,<br>597,<br>599,<br>600 | No visible emissions | 10.15 TPY (combined total) & 0.01 gr./ dscf.          | 10.15 TPY (combined total) & 0.01 gr./ dscf.          | 9.53 TPY (combined total)  | N/A                        | Polk County Construction Permit 2047 Modified |
| 596   | No visible emissions | 0.01 gr./ scf.  | 0.137 lbs./hr. & 0.598 TPY & 0.01 gr./ dscf.          | 0.787 lbs./hr. & 3.447 TPY | 0.339 lbs./hr. & 1.484 TPY | Polk County Construction Permit 1363          |

<sup>(1)</sup>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:**

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.

II) Plant wide limit of the following amounts and maximum percent constituents of materials processed in the facility per twelve (12) month rolling period. Twelve month rolling records of each 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

III) The facility shall comply with all applicable requirements of 40 CFR Part 60 Subpart BBB- Standards of Performance for the Rubber Tire Manufacturing Industry.

IV) 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:**

I) 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.

II) 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).

III) VOC and HAP actual emissions for EP 52 shall be calculated and reported annually, as part of the Iowa DNR Title V emission inventory process.

IV) 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.

V) The owner or operator shall comply with the record keeping requirements of §60.545(f).

VI) 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 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 1363  
Polk County Construction Permit 2047 Modified  
Polk County Construction Permit 2081 Modified #4  
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-560, CE-587, CE-589, CE-595, CE-596, CE-597, 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: 53**

Associated Equipment  
See Table Below

PERMITTED SOURCES COMPRISING EMISSION POINT NUMBER 53

| Emission Unit Description  | EU# | Date of Construction | Date of Modification | Manufact. & Model | Maximum Capacity (lb/hr) |
|----------------------------|-----|----------------------|----------------------|-------------------|--------------------------|
| Tire Assembly Machine #804 | 523 | 12/31/1969           | 02/28/2008           | NRM 60            | 0.47 [Tire Wash Solvent] |
| Tire Assembly Machine #811 | 559 | 12/31/1969           | N/A                  | NRM 59            | 0.47 [Tire Wash Solvent] |
| Tire Assembly Machine #805 | 561 | 12/31/1969           | N/A                  | NRM 59            | 0.47 [Tire Wash Solvent] |
| Tire Assembly Machine #806 | 562 | 12/31/1969           | N/A                  | NRM 59            | 0.47 [Tire Wash Solvent] |
| Tire Assembly Machine #808 | 572 | 12/31/1969           | N/A                  | NRM 89            | 0.47 [Tire Wash Solvent] |
| Tire Assembly Machine #809 | 584 | 03/25/1997           | N/A                  | NRM 59H           | 0.47 [Tire Wash Solvent] |
| Tire Assembly Machine #810 | 585 | 03/25/1997           | N/A                  | NRM 59H           | 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.*

| <u>Pollutant</u>            | <u>lbs/hr.</u> | <u>tons/year</u> | <u>Allowable Concentration</u> |
|-----------------------------|----------------|------------------|--------------------------------|
| Opacity                     | ---            | ---              | No Visible Emissions           |
| VOC (per unit)              | 0.49           | 2.15             | ---                            |
| VOC<br>(all units combined) |                | 14.47            | ---                            |

\*HAPs are all HAPs as defined by section 112 of the 1990 Clean Air Act Amendments

Authority for Requirement: Polk County Construction Permit 0942 Modified

## **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.
- 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 63 Subpart XXXX-National Emissions Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing.

### 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 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.
- Per § 63.5884 and § 63.5884(b) (Option 1-HAP Constituent Option) Emissions of each HAP in Table 16 of Subpart XXXX 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 Emissions of each HAP not listed in Table 16 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.
- Determine the mass percent of HAP in cements and solvents with an approved method listed in § 63.5994(a)
- Demonstrate compliance with the HAP constituent emission limit per the appropriate method described in § 63.5994(b).

### Reporting & Record keeping:

- 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 keep the appropriate records specified in § 63.6011
- The facility shall maintain the required records 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 0942 Modified

**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: 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)                                   |                        |                                      |  |
| 539   | Tire Assembly Machine, NRM Model 40 (#407)                                   |                        |                                      |  |
| 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)                                   |                        |                                      |  |
| 550   | Tire Assembly Machine, NRM Model 61 (#410)                                   |                        |                                      |  |
| 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                                    |
| 542   | Tire Assembly System with Extruder (1), Stripwinders (2), and Spraybooth (1) | Rubber<br>Inside Spray | 4,500 lbs./ hr.<br>4.92 gallons/ hr. | CE-542<br>Dry filter on the spraybooth |
| 543   | Tire Assembly System with Extruder (1), Stripwinders (2), and Spraybooth (1) | Rubber<br>Inside Spray | 4,500 lbs./ hr.<br>4.92 gallons/ hr. | CE-543<br>Dry filter on the spraybooth |
| 552   | Tire Assembly System with Extruder (1), Stripwinders (2), and Spraybooth (1) | Rubber<br>Inside Spray | 4,500 lbs./ hr.<br>4.92 gallons/ hr. | CE-552<br>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 <sup>(1)</sup>                         | PM <sub>10</sub>                          | 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<br>0.01 gr./ dscf.<br>(combined) | 4.35 TPY<br>0.01 gr./ dscf.<br>(combined) | 9.96 TPY<br>(combined) | Polk County Construction Permit 2131 |
| 566               | No visible emissions | N/A                                       | N/A                                       | 3.67 TPY               | Polk County Construction Permit 1414 |

<sup>(1)</sup>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 52 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 Number 0578 MODIFIED  
Polk County Construction Permit 1417  
Polk County Construction Permit 2131  
Polk County Construction Permit 1414  
PTE limits were requested by the applicant.  
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

### **Spray Booth Agency Operation & Maintenance Plan**

#### **Weekly**

- Inspect the paint 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)

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**Emission Point ID Number: 55 (Vents Internally)**

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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)

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**Emission Point ID Number: 56**

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Emission Unit vented through this Emission Point: 407  
Emission Unit Description: Bead Former #7, NRM 2 ½ Rubber Extruder 22.1 L/D  
Raw Material/Fuel: Rubber  
Rated Capacity: 147.89 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 1403

Pollutant: VOC  
Emission Limits: 0.016 lbs./ hr. and 0.07 TPY  
Authority for Requirement: Polk County Construction Permit Number 1403

Pollutant: HAPs (Combined)  
Emission Limits: 0.011 lbs/hr. and 0.05 TPY  
Authority for Requirement: Polk County Construction Permit 1403

**Operational Limits & Requirements**

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

Process throughput: This unit is subject to the limits of 150,000,000 lbs/ 12 month period rolled monthly of master rubber through the plant.

Work practice standards: Routine Periodic Inspection.

Reporting & Record keeping: Record keeping of these materials shall be logged and submitted to representative of this department (Polk County AQD) as required by the Title V Operating Permit. This log shall be made available to representatives of this department upon request.

Authority for Requirement: Polk County Construction Permit Number 0578 Modified  
Polk County Construction Permit Number 1403

**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)

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**Emission Point ID Number: 58**

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Emission Unit vented through this Emission Point: 316

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

Raw Material/Fuel: Electricity

Rated Capacity: 400 kiloVolts; 100 milliAmps

**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)

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**Emission Point ID Number: 62**

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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

**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:

- The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Said records shall be kept for the life of the source.
- 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)

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**Emission Point ID Number: 63**

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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:**

- The owner or operator shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Said records shall be kept for the life of the source.
- 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: 64

### Associated Equipment

Associated Emission Unit ID Numbers: 401 – 404, 408, 528 - 533, 571, 582, 591- 594, 713 – 715, 717 – 727, and 909 - 911

| Emission Unit Description   | EU# | Date of Construction | Date of Modification | Manufacturer and Model | Maximum Capacity (lb/hr) |
|-----------------------------|-----|----------------------|----------------------|------------------------|--------------------------|
| Bead Former #1              | 401 | Grandfathered        | N/A                  | Royle 2                | 59.15 [rubber]           |
| Bead Former #5              | 402 | Grandfathered        | N/A                  | NRM                    | 147.89 [rubber]          |
| Bead Former #6              | 403 | Grandfathered        | N/A                  | Royle 2                | 88.74 [rubber]           |
| Solvent Wash of Bead Filter | 404 | Grandfathered        | N/A                  |                        | 0.91[Heptane]            |
| Bead Former #3              | 408 | 07/28/2004           | N/A                  | NRM 3-1/2 Vanguard     | 147.89 [rubber]          |
| Tire Assembly Machine       | 528 | 12/31/1969           | 3/11/2013            | NRM                    | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 529 | 12/31/1969           | 3/11/2013            | NRM                    | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 530 | 12/31/1969           | 3/11/2013            | NRM                    | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 531 | 12/31/1969           | 3/11/2013            | NRM                    | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 532 | 12/31/1969           | 3/11/2013            | NRM                    | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 533 | 12/31/1969           | 3/11/2013            | NRM                    | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 571 | 11/22/2010           | 3/11/2013            | NRM                    | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 582 | 09/14/2006           | N/A                  | ASM 114                | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 591 | 05/12/2004           | N/A                  | ASM 114                | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 592 | 05/12/2004           | N/A                  | ASM 114                | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 593 | 05/12/2004           | N/A                  | ASM 114                | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 594 | 05/12/2004           | N/A                  | ASM 114                | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 713 | 11/22/2010           | N/A                  | NRM 59H                | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 714 | 11/22/2010           | N/A                  | NRM 59H                | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 715 | 11/22/2010           | N/A                  | NRM 59H                | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 717 | 11/22/2010           | N/A                  | NRM 401                | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 718 | 11/22/2010           | N/A                  | NRM 401                | 0.47 [tire wash solvent] |
| Tire Assembly Machine       | 719 | 11/22/2010           | N/A                  | NRM 401                | 0.47 [tire wash solvent] |

| Emission Unit Description | EU# | Date of Construction | Date of Modification | Manufacturer and Model | Maximum Capacity (lb/hr) |
|---------------------------|-----|----------------------|----------------------|------------------------|--------------------------|
| Tire Assembly Machine     | 720 | 2/21/2011            | N/A                  | NRM 88                 | 0.47 [tire wash solvent] |
| Tire Assembly Machine     | 721 | 2/21/2011            | N/A                  | NRM 88                 | 0.47 [tire wash solvent] |
| Tire Assembly Machine     | 722 | 2/21/2011            | N/A                  | NRM 88                 | 0.47 [tire wash solvent] |
| Tire Assembly Machine     | 723 | 5/13/2011            | N/A                  | NRM 88                 | 0.47 [tire wash solvent] |
| Tire Assembly Machine     | 724 | 7/5/2011             | N/A                  | NRM                    | 0.47 [tire wash solvent] |
| Tire Assembly Machine     | 725 | 7/5/2011             | N/A                  | NRM                    | 0.47 [tire wash solvent] |
| Tire Assembly Machine     | 726 | 7/5/2011             | N/A                  | NRM                    | 0.47 [tire wash solvent] |
| Tire Assembly Machine     | 727 | 7/5/2011             | N/A                  | ASM                    | 0.47 [tire wash solvent] |
| Bead Flipping Machine     | 909 | 11/10/2011           | N/A                  | NRM                    | 360 lb/hr [rubber]       |
| Bead Flipping Machine     | 910 | 11/10/2011           | N/A                  | NRM                    | 360 lb/hr [rubber]       |
| Bead Flipping Machine     | 911 | 11/10/2011           | N/A                  | NRM                    | 360 lb/hr [rubber]       |

Control Equipment (EP 64): 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.*

Emissions shall not exceed the following for Bead Former #1 (EU 401):

| <u>Pollutant</u> | <u>lbs/hr.</u> | <u>tons/year</u> | <u>Allowable Concentration</u> |
|------------------|----------------|------------------|--------------------------------|
| Opacity          | ---            | ---              | None Allowed                   |
| VOC              | 3.35E-4        | 0.001            | ---                            |
| HAP (total)      | ---            | 0.001            | ---                            |

Emissions shall not exceed the following for Bead Former #5 (EU 402):

| <u>Pollutant</u> | <u>lbs/hr.</u> | <u>tons/year</u> | <u>Allowable Concentration</u> |
|------------------|----------------|------------------|--------------------------------|
| Opacity          | ---            | ---              | None Allowed                   |
| VOC              | 8.39E-04       | 0.004            | ---                            |
| HAP (total)      | ---            | 0.005            | ---                            |

Emissions shall not exceed the following for Bead Former #6 (EU 403):

| <u>Pollutant</u> | <u>lbs/hr.</u> | <u>tons/year</u> | <u>Allowable Concentration</u> |
|------------------|----------------|------------------|--------------------------------|
| Opacity          | ---            | ---              | None Allowed                   |
| VOC              | 5.03E-04       | 0.002            | ---                            |
| HAP (total)      | ---            | 0.003            | ---                            |

Emissions shall not exceed the following for Bead Former #3 (EU 408):

| <u>Pollutant</u> | <u>lbs/hr.</u> | <u>tons/year</u> | <u>Allowable Concentration</u> |
|------------------|----------------|------------------|--------------------------------|
| Opacity          | ---            | ---              | None Allowed                   |
| VOC              | 8.39E-04       | 0.004            | ---                            |
| HAP (total)      | ---            | 0.005            | ---                            |

Emissions shall not exceed the following for Solvent Wash of Bead Filler (EU 404):

| <u>Pollutant</u> | <u>Maximum Production Rate (lb/hr) Heptane</u> | <u>Tons/year</u> | <u>Allowable Concentration</u> |
|------------------|--|------------------|--------------------------------|
| VOC              | 0.91   | 3.986            | ---                            |
| HAP (total)      | ---  | ---              | ---                            |

Emissions shall not exceed the following for Tire Wash Solvent use at Tire Assembly Machines: (EUs 528, 529, 530, 531, 532, 533, 571, 582, 591, 592, 593, 594, 713, 714, 715, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727)

| <u>Pollutant</u>         | <u>lbs/hr.</u> | <u>tons/year</u> | <u>Allowable Concentration</u> |
|--------------------------|----------------|------------------|--------------------------------|
| Opacity                  | ---            | ---              | None Allowed                   |
| VOC (per unit)           | 0.47           | 2.06             | ---                            |
| VOC (all units combined) | 12.22          | 53.56            | ---                            |

Emissions shall not exceed the following for Bead Flipping Machines (EUs 909, 910, 911), per individual machine:

| <u>Pollutant</u> | <u>lbs/hr.</u> | <u>tons/year</u> | <u>Allowable Concentration</u> |
|------------------|----------------|------------------|--------------------------------|
| Opacity          | ---            | ---              | None Allowed                   |
| VOC              | 2.04E-03       | 0.01             | ---                            |
| HAP (total)      | 1.99E-03       | 0.01             | ---                            |

Emissions shall not exceed the following for Emission Point 64 (All Emission Units Combined):

| <u>Pollutant</u> | <u>lbs/hr.</u> | <u>tons/year</u> | <u>Allowable Concentration</u> |
|------------------|----------------|------------------|--------------------------------|
| Opacity          | ---            | ---              | None Allowed                   |
| VOC              | ---            | 57.59            | ---                            |
| HAP (total)      | ---            | 0.044            | ---                            |

Authority for Requirement: Polk County Construction Permit 2015 Modified #6

**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.
- 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.
- Routine Periodic Inspection

Reporting & Record keeping:

- VOC and HAP actual emissions for EP 64 shall be calculated and reported annually, as part of the Iowa DNR Title V emission inventory process.
- With the removal of breakdown solvent use at Tire Assembly Machines (EU 528, 529, 530, 531, 532, 533, 571), emission point number 64 is no longer subject to 40 CFR 63 Subpart XXXX-National Emissions Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing. The facility shall keep all records specified in §63.6011 in accordance with §63.6012 for the time period the emission unit was subject to subpart XXXX on site for a period of five years.

Authority for Requirement: Polk County Construction Permit 2015 Modified #6

**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: 70° - 110°F

Discharge Style: obstructed vertical

Authority for Requirement: Polk County Construction Permit 2015 Modified #6

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, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, 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 Permits, 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 following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.

- a. Form 1.0 "Facility Identification";
- b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
- c. Form 5.0 "Title V annual emissions summary/fee"; and
- d. Part 3 "Application certification."

4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:

- a. Form 1.0 "Facility Identification";
- b. Form 5.0 "Title V annual emissions summary/fee";
- c. Part 3 "Application certification."

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 substance 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)*

4. 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  
7900 Hickman Road, Suite #1  
Windsor Heights, IA 50324  
(515) 725-9545

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:

Chief of Air Permits  
U.S. EPA Region 7  
Air Permits and Compliance Branch  
11201 Renner Boulevard  
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  
7900 Hickman Road, Suite #1  
Windsor Heights, IA 50324  
(515) 725-9500

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 St.  
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 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**  
<http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr;rgn=div6;view=text;node=40%3A14.0.1.1.1.1;idno=40;sid=e94dcfde4a04b27290c445a56e635e58;cc=ecfr>
- **40 CFR Part 63, Subpart DDDDD: National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters**  
<http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr;sid=547e5a5a43a490ef2545903ef0a2729b;rgn=div6;view=text;node=40%3A14.0.1.1.1.5;idno=40;cc=ecfr>