

STATE OF MISSOURI



DEPARTMENT OF NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION

PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: **072016-003**

Project Number: 2016-02-048
Installation Number: 011-0042

Parent Company: Redneck Manufacturing

Parent Company Address: 1705 Gulf Street, Lamar, MO 64759

Installation Name: Redneck Manufacturing

Installation Address: 1705 Gulf Street, Lamar, MO 64759

Location Information: Barton County, S25, T32N, R31W

Application for Authority to Construct was made for:

The increase in gelcoat, resin, and adhesive usage for an existing deer blinds manufacturing installation. This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

Standard Conditions (on reverse) are applicable to this permit.

Standard Conditions (on reverse) and Special Conditions are applicable to this permit.


Prepared by
Chia-Wei Young
New Source Review Unit


Director or Designee
Department of Natural Resources

JUL 12 2016

Effective Date

STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. In the event that there is a discrepancy between the permit application and this permit, the conditions of this permit shall take precedence. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Department's Air Pollution Control Program of the anticipated date of start up of these air contaminant sources. The information must be made available within 30 days of actual startup. Also, you must notify the Department of Natural Resources' regional office responsible for the area within which you are located within 15 days after the actual start up of these air contaminant sources.

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources' personnel upon request.

You may appeal this permit or any of the listed special conditions to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant sources(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit at (573) 751-4817. If you prefer to write, please address your correspondence to the Missouri Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention: Construction Permit Unit.

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority."

1. **Superseding Condition**
The conditions of this permit supersede all special conditions found in the previously issued construction permits No. 032011-004, 062011-012, 062011-012A, 052012-011, 022014-001, 022015-003, and 012016-001 issued by the Air Pollution Control Program.
2. **Styrene Emissions Limits**
 - A. Redneck manufacturing shall not emit styrene in amounts greater than those listed in Table 1 below.

Table 1: Daily Styrene Emission Limits

153 SE 1st Lane Location		
Emission Units	Emission Process	Emission Limit (lb/day)
EU1	Gel Coat Application	47.79
EU2	Resin (Chop Gun) Application	23.92
EU3	Open Resin	30.37
1101 East 12th Street Location		
Emission Units	Emission Process	Emission Limit (lb/day)
EU1	Gel Coat Application	41.93
EU1	Orange Tooling Gel Coat Application	8.78
EU1	Green Tooling Gel Coat Application	5.38
EU3	Open Resin	65.06
EU3	Tooling Resin	13.50
1701 Maple Street Location		
Emission Units	Emission Process	Emission Limit (lb/day)
EU3	Open Resin	30.68
EU6	Adhesive Application	24.00
1705 Gulf Street Location		
Emission Units	Emission Process	Emission Limit (lb/day)

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

EU3	Open Resin	28.97
EU6	Adhesive Application	22.67

- B. Attachment A, or equivalent forms, such as electronic forms, shall be used to demonstrate compliance with Special Condition 2.A. The equivalent forms shall contain the same information and use the same calculation method as Attachment A.
3. Control Measures
- A. During gel coat and resin spraying operations, Redneck Manufacturing shall use the controlled spray procedure as outlined in the Composites Fabricators Association's (CFA's) "Controlled Spray Handbook."
- B. Redneck Manufacturing shall ensure that the mold containment flanges are in place during spraying operations in accordance with the CFA's "Controlled Spray Handbook."
- C. Redneck Manufacturing shall keep records that verify the following, in accordance with the CFA's "Controlled Spray Handbook."
- 1.) The spray gun pressure has been calibrated, at a minimum, once every 3 months.
 - 2.) The operators have been trained in the techniques of controlled spraying.
4. Operating Time Restrictions
Redneck Manufacturing shall only operate daily between the hours of 6 a.m. to midnight (12 a.m.) at the 1st Lane, East 12th Street, and Maple Street locations. Redneck Manufacturing shall only operate between the hours of 7 a.m. to midnight (12 a.m.) at the Gulf Street location.
5. Facility Design Requirements
Before making significant alterations to the facility design, Redneck Manufacturing shall submit, to the Air Pollution Control Program, an updated Ambient Air Quality Impact Analysis (AAQIA) that shows continued compliance with the styrene RAL. If the facility cannot show continued compliance with the styrene RAL using the new design, it shall contact the Air Pollution Control Program for further instructions.
6. Operational Requirement
Redneck Manufacturing shall keep all chemicals, including the gel coats, resins, catalysts, coatings, and adhesives, in sealed containers whenever the materials are not in use. Redneck Manufacturing shall provide and maintain suitable, easily read, permanent marking on the containers.

SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

7. Use of Alternative Material and Coatings or Production of Different Deer Blinds
 - A. When considering using an alternative gel coat, resin, adhesive, or manufacturing a different type of deer blind than those listed in the Application for Authority to Construct, Redneck Manufacturing shall calculate the potential emissions of all HAPs (except styrene) and VOCs. If the potential emissions of the VOC are equal to or greater than 218.89 tons per year and individual HAP (except styrene) are greater than their respective SMAL, Redneck Manufacturing shall seek approval from the Air Pollution Control Program before implementing their use. A list of the SMAL can be found on the website <http://dnr.mo.gov/env/apcp/docs/cp-hapraltbl6.pdf>.
 - B. Attachment B and C, or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to show compliance with Special Condition 7.A.
8. Record Keeping and Reporting Requirements
 - A. Redneck Manufacturing shall maintain all records required by this permit for not less than five years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request. These records shall include SDS for all materials used.
 - B. Redneck Manufacturing shall report to the Air Pollution Control Program's Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than 10 days after the end of the month during which any record required by this permit show an exceedance of a limitation imposed by this permit.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE
SECTION (6) REVIEW

Project Number: 2016-02-048
Installation ID Number: 011-0042
Permit Number:

Installation Address:
Redneck Manufacturing
1705 Gulf Street
Lamar, MO 64759

Parent Company:
Redneck Manufacturing
1705 Gulf Street
Lamar, MO 64759

Barton County, S25, T32N, R31W

REVIEW SUMMARY

- Redneck Manufacturing has applied for authority to increase its gel coats, resin, and adhesives usage.
- The application was deemed complete on February 25, 2016.
- HAP emissions are expected from the proposed equipment. HAPs of concern from this process are styrene and methyl methacrylate (MMA)
- None of the New Source Performance Standards (NSPS) apply to the installation.
- None of the NESHAPs apply to this installation.
- 40 CFR 63, Subpart WWWW, *National Emissions Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production*, of the Maximum Achievable Control Technology (MACT) regulations applies to this installation.
- The installation plans to use a booth with paint filter to control particulate emissions from the painting operation. However, without the use of the booth and filter, the particulate emissions would still be less than the de minimis levels. Therefore, this permit does not require the use of the control device.
- This review was conducted in accordance with Section (6) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of HAPs are greater than the de minimis/major source level. However, Section (9) permit is not required because the facility is subject to MACT, Subpart WWWW. Emissions of VOC from this project are greater than the de minimis level. Therefore, this permit is issued under section (6). Emissions of all other criteria pollutants are less than their de minimis levels.
- This installation is located in Barton County, an attainment area for all criteria pollutants.

- This installation is not on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. The installation's major source level is 250 tons per year and fugitive emissions are not counted toward major source applicability.
- Ambient air quality modeling was performed to determine the ambient impact of styrene. Ambient air quality modeling was not performed on VOC because no model is currently available which can accurately predict ambient ozone concentrations caused by the VOC emissions.
- Emissions testing is not required for the equipment.
- A modification to the facility's Part 70 Operating Permit application is required within one (1) year after permit issuance.
- Approval of this permit is recommended with special conditions.

INSTALLATION DESCRIPTION

Redneck Manufacturing owns and operates a deer blind production facility in Lamar, MO. Gelcoats are applied to a number of open molds. After a short curing period, fiberglass reinforced resins are applied using a chopper gun system before additional hand-lay resin application and curing. The parts are then sanded and prepped before being assembled into units. Screws and rivets will be used to temporarily hold the pieces together before the seams are bonded together with chopped strand mat. After curing, the blinds are rolled to the next station where the shelves are installed with screws and filled with a seam sealer. The blinds will then be painted with a water-based paint. Catalysts will be used with the resins.

The facility currently operates at four (4) separate locations in Lamar, MO: 153 SE 1st Lane, 1701 Maple Street, 1705 Gulf Street, and 1101 East 12th Street. The four (4) locations are considered part of the same installation for permitting purposes and are identified by a single plant ID, 011-0042. This facility is considered a major source of HAP and minor source for criteria pollutants. The facility submitted a Part 70 Operating Permit application (Project 2014-10-058) in October, 2014 that is still being reviewed by the Air Pollution Control Program.

The following New Source Review permits have been issued to Redneck Manufacturing from the Air Pollution Control Program.

Table 2: Permit History

Permit Number	Description
032011-004	New deer blinds production facility
062011-012	Relocating deer blind production facility to new location
062011-012A	Eliminating weekly production limit
052012-011	Increase deer blind production limit

022014-001	Elimination of HAP limits
022015-003	Installation of a new manufacturing line
012016-001	Change the amount of gel coat, resins, and adhesives. Adding a painting operation. Relocate equipment.

PROJECT DESCRIPTION

Redneck manufacturing has applied for authority to increase its gel coat, resin, and adhesives usage. In the previous permits issued to the installation, the facility was limited to operating only between the hours of 7 a.m. to midnight (12 a.m.). The facility has requested to change the hours to between 6 a.m. and midnight (12 a.m.) in three of the locations: 1st Lane, 12th Street, and Maple Street. The facility still expects to operate between 7 a.m. to midnight (12 a.m.) at the Gulf Street location.

If the installation decides to use different material (i.e. coatings, gel coats, resins, etc.) or produce a different type of deer blind than the ones listed in the application, it shall calculate the new VOC and individual HAP (except styrene) emissions to ensure that these emissions are less than the emissions from the current material. If the new VOC and individual HAP emissions (except styrene) are greater than 250 tpy or SMAL, respectively, Redneck Manufacturing shall contact the Air Pollution Control Program for further instructions. The facility does not need to calculate styrene emissions as HAP for the new alternative material because the facility is required to track its styrene emissions to ensure that they are less than the daily limits in Special Condition 2.A. However, it must still include styrene in the VOC emissions tracking.

EMISSIONS/CONTROLS EVALUATION

For this project, there will be emissions increase from the change in amounts of gelcoat, resin, and adhesives. Normally, emissions increase will be calculated using potential emissions minus the baseline actual emissions. However, finding representative baseline actual emissions is difficult because the facility operates multiple sites and these sites have undergone significant changes within the last few years. Therefore, the emissions from the project are taken to be the potential emissions of the all of the gelcoat, resin and adhesive used in deer blind manufacturing. The potential emissions from the LizardSkin coating and the painting operation that will be relocated to Maple street are also included.

Styrene and MMA emissions from the gelcoat and resin application process were calculated using emission factors from the “Unified Emission Factors for Open Molding of Composites” developed by the National Marine Manufacturer’s Association (NMMA) and Composite Fabricators Association (CFA) and published in 1999 in the paper “Technical Discussion of the Unified Emission for Open Molding of Composites.” Other VOC and volatile HAPs emissions were calculated using information from the safety data sheets (SDS) and mass balances assuming 100% emitted. The open resin process (EU3) does use resins that contain cobalt, which is a HAP. However, cobalt is

considered a particulate and the resins will be applied by a roller. Therefore, the cobalt in the resins is not expected to be emitted into the air.

The following table provides an emissions summary for this project. Existing potential emissions were taken from Permit 012016-001. Existing actual emissions were taken from the installation's 2015 EIQ. Potential emissions of the application represent the potential of the gelcoat, resin, and adhesives application and the painting operation taking into account hours of day restrictions.

Table 3: Emissions Summary (tons per year)

Pollutant	Regulatory <i>De Minimis</i> Levels	Existing Potential Emissions	Existing Actual Emissions (2015 EIQ)	Potential Emissions of the Application	New Installation Conditione d Potential
PM	25.0	5.91	N/D	4.49	N/A
PM ₁₀	15.0	4.02	N/D	3.06	N/A
PM _{2.5}	10.0	3.67	N/D	2.79	N/A
SO _x	40.0	N/A	N/D	0.000016	N/A
NO _x	40.0	N/A	N/D	0.25	N/A
VOC	40.0	196.40	26.76	218.89	N/A
CO	100.0	N/A	N/D	0.14	N/A
GHG (CO ₂ e)	100,000	N/A	N/D	243.96	N/A
GHG (mass)	250.0	N/A	N/D	238.77	N/A
Styrene	¹ 1.0/10.0	35.98	N/D	63.07	N/A
MMA	10.0	4.81	N/D	6.56	N/A
Dimethyl Phthalate	10.0	0.00	N/D	0.00	N/A
HAPs	10.0/25.0	60.39	N/D	99.69	N/A

N/A = Not Applicable; N/D = Not Determined

Note 1: For Styrene, 1.0 tpy is the SMAL while the 10.0 tpy is the de minimis level.

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (6) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of VOC are greater than the de minimis level.

APPLICABLE REQUIREMENTS

Redneck Manufacturing shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved.

GENERAL REQUIREMENTS

- *Submission of Emission Data, Emission Fees and Process Information, 10 CSR 10-6.110*
 - Per 10 CSR 10-6.110(4)(B)2.B(II) and (4)(B)2.C(II) a full EIQ is required for the first full calendar year the equipment (or modifications) approved by this permit are in operation.
- *Operating Permits, 10 CSR 10-6.065*
- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin, 10 CSR 10-6.170*
- *Restriction of Emission of Visible Air Contaminants, 10 CSR 10-6.220*
- *Restriction of Emission of Odors, 10 CSR 10-6.165*

SPECIFIC REQUIREMENTS

- *Restriction of Emission of Particulate Matter From Industrial Processes, 10 CSR 10-6.400*
- *MACT Regulations, 10 CSR 10-6.075*
 - *National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production, 40 CFR Part 63, Subpart WWW*

AMBIENT AIR QUALITY IMPACT ANALYSIS

Ambient air quality modeling was performed to determine the ambient impact of styrene. Results show that the facility will be in compliance with the RAL for styrene. Table 4 below gives the highest ambient impact. More information regarding the modeling analysis can be found in the memo "Ambient Air Quality Impact Analysis (AAQIA) for Redneck Manufacturing, LLC – 2015-07-055" from the Modeling Unit.

Table 4: Styrene Ambient Air Quality Modeling Results

Pollutant	NAAQS/AAL ($\mu\text{g}/\text{m}^3$)	Modeled Impact ($\mu\text{g}/\text{m}^3$)	Time Period
Styrene	2240	1745	24-Hours
Styrene	333	323	Annual

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, it is recommended that this permit be granted with special conditions.

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated February 22, 2016, received February 25, 2016, designating Redneck Manufacturing as the owner and operator of the installation.

Attachment A – Styrene Emissions Compliance Worksheet

Redneck Manufacturing
 Barton County (S30, T32N, R30W)
 Project Number: 2016-02-048
 Installation ID Number: 011-0042
 Permit Number:

Date:

Type of Process	Usage per day (lb/day)	(a) Emission Factors (lb/ton or % Content)	(b) Emissions (lb/day)	Emissions Limit (lb/day)
153 SE 1 st Lane Location				
Gelcoat Application				47.79
Resin (Chop Gun) Application				23.92
Resin Application				30.37
Styrene Monomer				
Patchaid				
Optiplus				
1101 East 12 th Street Location				
Gelcoat Application				41.93
Orange Tooling Gelcoat				8.78
Green Tooling Gelcoat				5.38
Resin Application				65.06
Styrene Monomer				
Patchaid				
Optiplus				
Tooling Resin				13.50
1705 Gulf Street Location				
Resin Application				30.68
Styrene Monomer				
Patchaid				
Optiplus				
Adhesive Application				24.00
1701 Maple Street Location				
Resin Application				28.97
Styrene Monomer				
Patchaid				
Optiplus				
Adhesive Application				22.67

- (a) Emission factors, in lb/ton, for the Gelcoat Application, Resin (Chop Gun) Application, and Open Resin (including resin, styrene monomer, patchaid, and optiplus) should be taken from the Table "Unified Emission Factors for Open Molding of Composites." Emission factors (% Content) for the adhesive application shall be taken from the Safety Data Sheets (SDS) of the resins. If a range is given, the highest number shall be used.
- (b) Emissions (lb/day) for the Gelcoat Application, Resin (Chop Gun) Application, and Open Resin (including resin, styrene monomer, patchaid, and optiplus) calculated from [Column 2 ÷ 2,000 lb/ton] x Column 3
 Emissions from adhesive application (lb/day) calculated by using Column 2 x Column 3

Daily emissions no more than the values given in Column 5 indicates compliance. For the Rein Application, Styrene Monomer, Patchaid, and Optiplus, the values in Column 5 are the total allowed between all of these processes.

Attachment B – MMA Calculations

Redneck Manufacturing
 Barton County (S30, T32N, R30W)
 Project Number: 2016-02-048
 Installation ID Number: 011-0042
 Permit Number:

Copy this sheet as needed.

Column 1	Column 2	Column 3	Column 4
Type of Process	Maximum Usage per Blind (lb/day)	(a) Emission Factors (lb/ton or % Content)	(b) Emissions (lb/day)
153 SE 1 st Lane Location			
Gelcoat Application			
Resin (Chop Gun) Application			
Open Resin			
1101 East 12 th Street Location			
Gelcoat Application			
Orange Tooling Gelcoat			
Green Tooling Gelcoat			
Open Resin			
Tooling Resin			
1705 Gulf Street Location			
Open Resin			
Adhesive Application			
1701 Maple Street Location			
Open Resin			
Adhesive Application			

- (a) Emission factors, in lb/ton, for the Gelcoat Application, Resin (Chop Gun) Application, and Open Resins should be taken from the Table “Unified Emission Factors for Open Molding of Composites.”
- (b) Emissions (lb/day) for the Gelcoat Application, Resin (Chop Gun) Application, and Open Resins calculated from [Column 2 ÷ 2,000 lb/ton] x Column 3.
 Emissions from Adhesive Application (lb/day) calculated by using Column 2 x Column 3.

For MMA, Redneck Manufacturing LLC may use the alternative material if emissions do not exceed its SMAL, which is 10 tpy. Column 4 gives emission rates in lb/day. Tons per year can be calculated using (lb/day) x 365 days/yr ÷ 2,000 lb/ton

Attachment C – Individual HAP and VOC Emissions Calculations from Alternative Material (Other than Styrene and MMA)

Redneck Manufacturing
 Barton County (S30, T32N, R30W)
 Project Number: 2016-02-048
 Installation ID Number: 011-0042
 Permit Number

Individual HAP

Column 1 Material	Column 2 MHDR (gal/hr)	Column 3 Density (lb/gal)	Column 4 HAP Name, CAS #	Column 5 Individual HAP Content (Wt. %)	Column 6 (a) Individual HAP PTE (tpy)	Column 7 (b) SMAL (tpy)
<i>Example</i>	1.67	8.75	<i>Toluene</i>	3.0%	1.92	10.0

- (a) Individual HAP PTE (tpy) calculated using (Column 2) x (Column 3) x [(Column 5) ÷ 100] x 8760 hours/yr ÷ 2,000 lb/ton
 (b) SMAL can be found on-line at <http://dnr.mo.gov/env/apcp/docs/cp-hapraltbl6.pdf>

VOC

Column 1 Material	Column 2 MHDR (gal/hr)	Column 3 Density (lb/gal)	Column 4 VOC (Wt. %)	(a) Column 5 VOC PTE (tpy)
<i>Example</i>	1.67	8.75	30	19.20

- (a) VOC (tpy) calculated using (Column 2) x (Column 3) x [(Column 4) ÷ 100] x 8760 hours/yr ÷ 2,000 lb/ton. If the material contains styrene or MMA, the styrene and MMA emissions should be calculated using Attachment B and added to the VOC emissions (tpy) from Attachment C.

Redneck Manufacturing LLC may use the new alternative material if the individual HAP emissions do not exceed their respective SMAL and VOC emissions from the entire installation are less than 218.89 tons per year. A copy of the SMAL values can be found on-line at <http://dnr.mo.gov/env/apcp/docs/cp-hapraltbl6.pdf> or by contacting the Missouri Air Pollution Control Program

APPENDIX A

Abbreviations and Acronyms

%	percent	m/s	meters per second
°F	degrees Fahrenheit	Mgal	1,000 gallons
acfm	actual cubic feet per minute	MW	megawatt
BACT	Best Available Control Technology	MHDR	maximum hourly design rate
BMPs	Best Management Practices	MMBtu	Million British thermal units
Btu	British thermal unit	MMCF	million cubic feet
CAM	Compliance Assurance Monitoring	MSDS	Material Safety Data Sheet
CAS	Chemical Abstracts Service	NAAQS ...	National Ambient Air Quality Standards
CEMS	Continuous Emission Monitor System	NESHAPs	National Emissions Standards for Hazardous Air Pollutants
CFR	Code of Federal Regulations	NO_x	nitrogen oxides
CO	carbon monoxide	NSPS	New Source Performance Standards
CO₂	carbon dioxide	NSR	New Source Review
CO_{2e}	carbon dioxide equivalent	PM	particulate matter
COMS	Continuous Opacity Monitoring System	PM_{2.5}	particulate matter less than 2.5 microns in aerodynamic diameter
CSR	Code of State Regulations	PM₁₀	particulate matter less than 10 microns in aerodynamic diameter
dscf	dry standard cubic feet	ppm	parts per million
EQ	Emission Inventory Questionnaire	PSD	Prevention of Significant Deterioration
EP	Emission Point	PTE	potential to emit
EPA	Environmental Protection Agency	RACT	Reasonable Available Control Technology
EU	Emission Unit	RAL	Risk Assessment Level
fps	feet per second	SCC	Source Classification Code
ft	feet	scfm	standard cubic feet per minute
GACT	Generally Available Control Technology	SDS	Safety Data Sheet
GHG	Greenhouse Gas	SIC	Standard Industrial Classification
gpm	gallons per minute	SIP	State Implementation Plan
gr	grains	SMAL	Screening Model Action Levels
GWP	Global Warming Potential	SO_x	sulfur oxides
HAP	Hazardous Air Pollutant	SO₂	sulfur dioxide
hr	hour	tph	tons per hour
hp	horsepower	tpy	tons per year
lb	pound	VMT	vehicle miles traveled
lbs/hr	pounds per hour	VOC	Volatile Organic Compound
MACT	Maximum Achievable Control Technology		
µg/m³	micrograms per cubic meter		

Mr. Russ Hurt
Director of Manufacturing
Redneck Manufacturing
1705 Gulf Street
Lamar, MO 64759

RE: New Source Review Permit - Project Number: 2016-02-048

Dear Mr. Hurt:

Enclosed with this letter is your permit to construct. Please study it carefully and refer to Appendix A for a list of common abbreviations and acronyms used in the permit. Also, note the special conditions, if any, on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions, your new source review permit application and with your amended operating permit is necessary for continued compliance. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the Administrative Hearing Commission, United States Post Office Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102, www.oa.mo.gov/ahc. If you have questions regarding this permit, contact Chia-Wei Young, at the Department of Natural Resources' Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Susan Heckenkamp
New Source Review Unit Chief

SH:cj

Enclosures

c: Southwest Regional Office
PAMS File: 2016-02-048
Permit Number: