

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: 042017-001

Project Number: 2017-02-043
Installation ID: 186-0035

Parent Company: Lhoist North America

Parent Company Address: PO Box 985004, Fort Worth, TX 76185

Installation Name: Lhoist North America of Missouri, Inc.

Installation Address: 20947 White Sands Road, Ste. Genevieve, MO 63670


Location Information: Ste. Genevieve County, S17 T38N R9W

Application for Authority to Construct was made for:
Installation of a portable-style crusher as a stationary plant. This review was conducted in accordance with Section (5), 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
Chad Stephenson
New Source Review Unit


Director or Designee
Department of Natural Resources
APR 05 2017

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 Enforcement and Compliance Section of 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 Enforcement and Compliance Section of the Department's Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available within 30 days of actual startup. Also, you must notify the Department's regional office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of the permit application and this permit and permit review shall be kept at the installation address and shall be made available to Department's 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 source(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 using the contact information below.

Contact Information:
Missouri Department of Natural Resources
Air Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102-0176
(573) 751-4817

The regional office information can be found at the following website:
<http://dnr.mo.gov/regions/>

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. **Best Management Practices Requirement**
Lhoist North America of Missouri, Inc. shall control fugitive emissions from all of the haul roads and vehicular activity areas at this site by performing BMPs as defined in Attachment AA.
2. **Production Limit For Rock-Crushing Plant**
 - A. Lhoist North America of Missouri, Inc. stationary rock crushing plant shall limit its production to less than 400,000 tons in any 12-month period from the equipment in Table 2.
 - B. Lhoist North America of Missouri, Inc. shall demonstrate compliance with Special Condition 2.A using Attachment A or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.
3. **Wet Suppression Control System Requirement**
 - A. Lhoist North America of Missouri, Inc. shall install and operate a wet spray device on the primary crusher (EP-276).
 - B. Watering may be suspended during periods of freezing condition, when use of the wet spray device may damage the equipment. During these conditions, Lhoist North America of Missouri, Inc. shall adjust the production rate to control emissions from these units. Lhoist North America of Missouri, Inc. shall record a brief description of such events.
4. **Primary Equipment Requirement**
Lhoist North America of Missouri, Inc. shall process all rock through the primary crusher (EP-276). Bypassing the primary crusher is prohibited.
5. **Record Keeping Requirement**
Lhoist North America of Missouri, Inc. shall maintain all records required by this permit for not less than five years and make them available to any Missouri Department of Natural Resources' personnel upon request.

SPECIAL CONDITIONS:

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

6. Reporting Requirement

Lhoist North America of Missouri, Inc. shall report to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than 10 days after any exceedances of the limitations imposed by this permit.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE
SECTION (5) REVIEW

Project Number: 2017-02-043
Installation ID Number: 186-0035
Permit Number: 042017-001

Lhoist North America of Missouri, Inc.
20947 White Sands Road
Ste. Genevieve, MO 63670

Complete: March 9, 2017

Parent Company:
Lhoist North America
PO Box 985004
Fort Worth, TX 76185

Ste. Genevieve County, S17 T38N R9W

INSTALLATION DESCRIPTION

Lhoist North America of Missouri, Inc. (formerly Chemical Lime Company) operates a lime manufacturing plant near Ste. Genevieve. Raw limestone is transported to the site from a nearby quarry (Tower Rock Stone). The limestone is calcined in two solid fuel fired (supplemented with natural gas) rotary preheater kilns. Product lime is then transported to customers by barge, rail, and truck. Fuel in the form of coal and coke arrives at the plant via barge, rail, or truck and is stored in covered bins.

Lhoist North America of Missouri, Inc. (Lhoist) is considered a major source under construction permits and a Part 70 source under operating permits. A Part 70 operating permit was issued February 5 of 2010 (OP2010-016). Table 1 lists the construction permits that have been issued to Lhoist from the Air Pollution Control Program.

Table 1: Permit History

Permit Number	Description
1294-004	Lime kiln
1298-023	Temporary Permit for transfer of iron ore
012000-021	Temporary Permit for coal hopper
012001-004	Temporary Permit for coal hopper
092001-005	Installation of emergency reject bin, modification of BN-809 system and increase feeding rate on BN-411 weigh feeder.
092010-111	Limestone Storage
092010-111A	Removal of baghouse requirement (EP-227) on transfer emission point from BC-363 to BC-365
032014-009	Lime hydration line
102015-010	Lime hydration line

PROJECT DESCRIPTION

Lhoist North America of Missouri, Inc. has purchased a portable 2017 IROCK TC-20 rock crusher. It includes a IROCK TS-522 TD screen, a 440 HP CAT C-13 ACERT power unit, a 129 HP CAT C4.4 power unit and associated conveyors. The plant will operate as a stationary plant at this site. The MHDR of this plant will be 500 tons per hour based on manufacturer specifications for the IROCK TC-20 track impact crusher. A wet spray device will be located on the primary crusher (EP-276).

The engines (EP-288 and EP-289) that power the portable plant are nonroad engines. The portable plant is track mounted and the engines serve a dual purpose by propelling the portable plant and supplying power to the crusher, screen, and conveyors. Therefore they meets the definition of a nonroad engine as stated in 40 CFR 89.2 *Nonroad Engine* (1)(i).

There will be 3643 feet of haul roads, a maximum of 200 square feet of oversized rock storage piles and a maximum of 9,000 square feet for the delivery pile. The applicant is using one of the methods described in Attachment AA, "Best Management Practices," to control emissions from haul roads and vehicular activity areas. Crushed rock will be dumped onto the existing enclosed pile in the limestone storage building. Prior to the utilization of this crusher, Tower Rock Stone hauled the shot rock from the mining face in the quarry to their crusher. The crushed rock was transported from a stockpile by loader from Tower Rock Stone to the limestone storage building. Lhoist North America of Missouri, Inc. has an existing material handling limit for the limestone storage building of 500,000 tons of coarse material and 700,000 tons of fines, ag lime or chat limestone combined established in permit 092010-111.

This installation is located in Ste. Genevieve 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.

TABLES

The following Table 2 includes an equipment list for this project.

Table 2: Equipment List

Unit ID	Equipment	Make/Model	True Capacity (tons/hour)	Plant Capacity (tons/ hour) ^a	MFG Year
EP-275	Truck unloading		N/D	500	
EP-276	Primary Crusher	IROCK TC-20	500	500	2017
EP-277	Crusher Conveyor to Conveyor				
EP-278	Conveyor to Conveyor for Screen		N/D	500	
EP-279	Screen	IROCK TS 522 TD	670	500	2017
EP-280	Conveyors (4) off screen ^b				
EP-281	Conveyors (3) Discharge for Oversized Rock		N/D	500	
EP-282	Conveyor to Limestone Storage		N/D		
EP-283	Haul Road	Unpaved (3,643 feet)	N/D	500	
EP-284	Delivery Storage piles Load-in		N/D	500	
EP-285	Delivery Storage piles Load-out		N/D	500	
EP-286	Storage pile vehicular activity	Unpaved (100 feet)	N/D	500	
EP-287	Storage pile wind erosion		N/D	0.21 Acres (9,200 square feet)	
EP-288	Engine (Nonroad)	CAT C-13 ACERT	440 HP	440 HP	2017
EP-289	Engine (Nonroad)	CAT C4.4	129 HP	129 HP	2017

N/D= Not Determined

^aThe primary crusher serves as a bottleneck for the plant since all rock is initially processed by the primary crusher. The capacity of the primary crusher is 500 tons per hour.

^bEmissions were calculated such that 100% of the product was transferred off of each screen across one conveyor

The Table 3 below summarizes the emissions of this project. The potential emissions of the process equipment exclude emissions from haul roads and wind erosion. The potential emissions of the application represent the emissions of all equipment and activities assuming continuous operation (8760 hours per year). The conditioned potential emissions include emissions from sources that will limit their production to ensure compliance with the annual emission limit. Conditioned potential emissions account for a voluntary production limit in any 12 month period to less than 400,000 tons of processed rock in order to avoid a PSD review.

Table 3: Emissions Summary (tons per year)

Air Pollutant	De Minimis Level/SMAL	Existing Potential Emissions	^a Potential Emissions of Application Process Equipment (tons/yr)	^b Potential Emissions of the Application	Conditioned Potential Emissions Of the Application
PM	25.0	Major	8.98	218.03	19.91
PM ₁₀	15.0	Major	3.31	84.70	7.73
PM _{2.5}	10.0	Major	0.47	15.93	1.45
SO _x	40.0	Major	N/A	N/A	N/A
NO _x	40.0	Major	N/A	N/A	N/A
VOC	40.0	Major	N/A	N/A	N/A
CO	100.0	Major	N/A	N/A	N/A
CH ₂ O (formaldehyde)	2.0	Major	N/A	N/A	N/A
HAPs	10.0/25.0	Major	N/A	N/A	N/A

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

^aProcess Equipment excluding haul roads and storage pile emissions.

^bIncludes haul road and storage pile emissions

EMISSIONS CALCULATIONS

Emissions for the project were calculated using emission factors found in the United States EPA document AP-42 *Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources*, Fifth Edition (AP-42).

Emissions from the rock-crushing equipment were calculated using emission factors from AP-42 Section 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing," August 2004. The controlled emission factors were used because the equipment is controlled by water spray devices.

The engine emissions were not evaluated for this review as the diesel engines at this site are classified as a nonroad engines. 40 CFR 63 Subpart ZZZZ, "National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines" and 40 CFR 60 Subpart IIII, "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines" do not apply.

Emissions from haul roads and vehicular activity areas were calculated using the predictive equation from AP-42 Section 13.2.2 "Unpaved Roads," November 2006. A 90% control efficiency for PM and PM₁₀ and a 74% control efficiency for PM_{2.5} were applied to the emission calculations for the use of BMPs. Emissions from load-in and load-out of storage piles were calculated using the predictive equation from AP-42 Section 13.2.4. The moisture content of the aggregate used was 0.7% by weight for the delivery pile. The oversized storage piles were given a moisture content of 1.5% by weight since the permit requires the operation of water spray devices before the

oversized rock is placed in these piles. Emissions from wind erosion of storage piles were calculated using an equation found in the Air Pollution Control Program's Emissions Inventory Questionnaire Form 2.8 "Storage Pile Worksheet."

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. The conditioned potential emissions include emissions from sources that will limit their production to ensure compliance with de minimis levels.

APPLICABLE REQUIREMENTS

Lhoist North America of Missouri, Inc. 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

- *Operating Permits*, 10 CSR 10-6.065. An amendment to your Part 70 Operating Permit is required for this installation within 1 year of equipment startup
- *Start-Up, Shutdown, and Malfunction Conditions*, 10 CSR 10-6.050
- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110.
- *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

- 40 CFR 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" applies to the equipment.

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (5), 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 16, 2017, received February 21, 2017, designating Lhoist North America as the owner and operator of the installation.

Attachment AA: Best Management Practices

Haul roads and vehicular activity areas shall be maintained in accordance with at least one of the following options when the plant is operating.

1. **Pavement**
 - A. The operator shall pave the area with materials such as asphalt, concrete or other materials approved by the Air Pollution Control Program. The pavement will be applied in accordance with industry standards to achieve control of fugitive emissions while the plant is operating.
 - B. Maintenance and repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
 - C. The operator shall periodically wash or otherwise clean all of the paved portions of the haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. **Application of Chemical Dust Suppressants**
 - A. The operator shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to unpaved areas.
 - B. The quantities of the chemical dust suppressant shall be applied and maintained in accordance with the manufacturer's recommendation (if available) and in sufficient quantities to achieve control of fugitive emissions from these areas while the plant is operating.
 - C. The operator shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator shall keep these records with the plant for not less than five (5) years and make these records available to Department of Natural Resources' personnel upon request.

3. **Application of Water-Documented Daily**
 - A. The operator shall apply water to unpaved areas. Water shall be applied at a rate of 100 gallons per day per 1,000 square feet of unpaved or untreated surface area while the plant is operating.
 - B. Precipitation may be substituted for watering if the precipitation is greater than one quarter of one inch and is sufficient to control fugitive emissions.
 - C. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads.
 - D. The operator shall record the date, volume of water application and total surface area of active haul roads or the amount of precipitation that day. The operators shall also record the rationale for not watering (e.g. freezing conditions or not operating).
 - E. The operator shall keep these records with the plant for not less than five (5) years, and the operator shall make these records available to Department of Natural Resources' personnel upon request.

APPENDIX A

Abbreviations and Acronyms

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

NOTICE: This spreadsheet is for your use only and should be used with caution. MoDNR does not guarantee the accuracy of the information it contains. This spreadsheet is subject to continual revision and updating. It is your responsibility to be aware of the most current, accurate and complete information available. MoDNR is not responsible for errors or omissions in this spreadsheet. Submittal of the information contained in this spreadsheet (workbook) does not relieve the responsible official of the certification statement signed on the first page of the application.

For Single Plant Operation

Hours per day	24.0
Days per year	33.3
Hours per year	800.0

For Multiple Plant Operation

Hours per day	24.0
Days per year	33.3
Hours per year	800.0

Pollutant	Justification for Limit

Pollutant	Potential Emissions of Process Equipment (tons/yr)	Potential Emissions including fugitives (tons/yr)	Allowable Emissions for 800 hours per year (tons/yr)	Deminimis Thresholds	Plant-wide Composite Emission Factor (lb/ton)
PM	8.98	218.03	19.91	25	0.0996
PM ₁₀	3.31	84.70	7.73	15	0.0387
PM _{2.5}	0.47	15.93	1.45	10	0.0073
SO ₂	-	-	-	40	0.0000
NO ₂	-	-	-	40	0.0000
VOC	-	-	-	40	0.0000
CO	-	-	-	100	0.0000
CH ₂ O	-	-	-	2.00	0.0000
Pb	-	-	-	0.01	0.0000
HAPs	-	-	-	10	0.0000
CO ₂	-	-	-	100	0.0000
N ₂ O	-	-	-	100	0.0000
CH ₄	-	-	-	100	0.0000
GHG _{mass}	-	-	-	100	0.0000
CO ₂ eq	-	-	-	100,000	0.0000

Limit Hours per Year

Limit Hours per Year w/ 24 hr day

Maximum hourly design rate (tons/hr)	500
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Tons of product per day	12,000.0
Tons of product per year	400,000.0

NOTICE: This spreadsheet is for your use only and should be used with caution. MoDNR does not guarantee the accuracy of the information it contains. This spreadsheet is subject to continual revision and updating. It is your responsibility to be aware of the most current, accurate and complete information available. MoDNR is not responsible for errors or omissions in this spreadsheet. Submittal of the information contained in this spreadsheet (workbook) does not relieve the responsible official of the certification statement signed on the first page of the application.

General Plant Information
Primary Unit Size (tons per hour) 500
It is important that you read all the comments (cells marked with a red triangle in the upper right corner) because they may direct you to make changes to the data entry cells.

Emission Point Information

Emission Point	Stack Height (feet)	Stack Inside Diameter (feet)	Stack Gas Flow Rate (ACFM)	Stack Gas Exit Temp. (°F)

Storage Pile Information

Storage Pile ID No.	Delivery Pile #1	Overized Pile #1*	Overized Pile #2*	Pile #4
Maximum Area of Storage Pile (Acres)	0.2088118	0.00228568	0.00228568	
Type of Material Stored:	Crushed limestone	Crushed limestone	Crushed limestone	
Moisture Content %:	0.7	1.5	1.5	
Silt Content %:	1.8	1.8	1.8	
Method of Load In to Storage Pile	Truck	Conveyor/Stacker	Conveyor/Stacker	
Method of Load Out from Storage Pile	Loader			
Distance Loader Travels (feet)	100			
Unloaded Loader Weight (tons)	30.50			
Loaded Loader Weight (tons)	40.00			
Rate (tons/hour)	500.00			
max VMT per hour	1.8838			
Surface Treatment	Unpaved			
Vehicular Area Control	Documented Watering			

*Overized Pile #1 and Pile #2 come from the screen and go back to the crusher. Load Out and vehicular activity is already accounted for at 600 tph with the delivery pile. Load In is considered with the discharge conveyors from the screen
Overized Pile #1 and Pile #2 were given a 1.5% moisture content since they are after the wet spray devices are used

Haul Road Information

Haul Road ID No.	Road #1	Road #2	Road #3	Road #4	Road #5	Road #6
Length of Haul Road (feet) Enter the length of each roadway in feet. The plant layout diagram (drawn to scale) should document and support the value entered. Note: Twice this distance is used, one trip in and one out.	3643.2					
Unloaded Truck Weight (tons)	71.3					
Loaded Truck Weight (tons)	148					
Rate Hauled (tons/hour)	500					
max VMT per hour	9.2369					
Surface Treatment	Unpaved					
Haul Road Control	Documented Watering					

Engine Set Information

Type of Fuel	#1	#2	#3
Brake Horsepower (bhp)	0		0
Engine kilowatt rating (kW)			
gallons per hour	0		0
Engine MHDOR (mmBtu per hour, input)			
Is this a generator-set engine?			
Model Year (yyyy)			
Fuel Sulfur Content (% weight sulfur)			

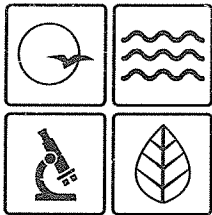
Combustion Sources

Combustion ID - Description	Combustion #1	Combustion #2	Desc #2	Combustion #3	Desc #3
Heat Rate	mmBtu/hour		mmBtu/hour		mmBtu/hour
	mgal/hour		mgal/hour		mgal/hour
	mmscf/hour		mmscf/hour		mmscf/hour
	In regards to AP-42 Chapter 1	In regards to 40 CFR Part 68	In regards to AP-42 Chapter 1	In regards to 40 CFR Part 68	In regards to AP-42 Chapter 1
Fuel Type					
Fuel Sulfur Content (% weight sulfur, for oil; gallons of sulfur/100 cuft gas vapor for Butane and Propane; not used for Natural gas)	% weight sulfur		% weight sulfur		% weight sulfur

Liquid Storage Tanks

Tank ID	Tank #1	Tank #2	Tank #3	Tank #4	Tank #5	Tank #6
Annual VOC (pounds)						
Annual VOC (tons)						

Enter Emission Unit Information Below



Missouri Department of

dnr.mo.gov

NATURAL RESOURCES

Eric R. Greitens, Governor

Carol S. Comer, Director

APR 05 2017

Mr. Schuyler Johnson
Environmental, Health and Safety Manager
Lhoist North America of Missouri, Inc.
PO Box 488
Ste. Genevieve, MO 63670

RE: New Source Review Permit - Project Number: 2017-02-043

Dear Mr. Johnson:

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 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.

This permit may include requirements with which you may not be familiar. If you would like the department to meet with you to discuss how to understand and satisfy the requirements contained in this permit, an appointment referred to as a Compliance Assistance Visit (CAV) can be set up with you. To request a CAV, please contact your local regional office or fill out an online request. The regional office contact information can be found at the following website: <http://dnr.mo.gov/regions/>. The online CAV request can be found at <http://dnr.mo.gov/cav/compliance.htm>.

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, whose contact information is: Administrative Hearing Commission, United States Post Office Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: www.oa.mo.gov/ahc.



Recycled paper

Mr. Schuyler Johnson
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If you have any questions please do not hesitate to contact Chad Stephenson, at the department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM



Susan Heckenkamp
New Source Review Unit Chief

SH:csj

Enclosures

c: Southeast Regional Office
PAMS File: 2017-02-043

Permit Number: 042017-001