

STATE OF MISSOURI

PERMIT BOOK



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: 072014-011

Project Number: 2014-04-011
Installation Number: 009-0055

Parent Company: International Ingredient Corporation - Monett

Parent Company Address: 242 Farm Road 1110, Monett, MO 65708

Installation Name: International Ingredient Corporation - Monett

Installation Address: 242 Farm Road 1110, Monett, MO 65708

Location Information: Barry County, S10, T25N, R27W

Application for Authority to Construct was made for:

The ability to process vegetable materials using its existing dryers and new process equipment as an alternative to processing lactose permeate. 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.

JUL 29 2014

EFFECTIVE DATE

Wendy J. Moore

DIRECTOR OR DESIGNEE
DEPARTMENT OF NATURAL RESOURCES

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.

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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."

International Ingredient Corporation - Monett
Barry County, S10, T25N, R27W

1. Superseding Condition
 - A. The conditions of this permit supersede the following special conditions found in the previously issued construction permits 012000-013 and 022001-011 issued by the Air Pollution Control Program.
 - 1) 012000-013 Special Condition 1.
 - 2) 022001-011 Special Condition 1.

2. PM₁₀ Emission Limitation
 - A. International Ingredient Corporation - Monett shall emit less than 50.0 tons of PM₁₀ in any consecutive 12-month period from the emission points listed in the table below.

Table 1: Emissions Point Required to Track PM₁₀ Emissions

Emission Point	Description
EP-01	Boiler #1
EP-02	Boiler #2
EP-03	Drum Dryers
EP-04	Haul Roads
EP-05	Hammermill
EP-06	Bagger
EP-07	Tumble Dryer
EP-18	Leg Belt Transfer

- B. Attachment A or equivalent forms, such as electronic forms, approved by the Air Pollution Control Program shall be used to demonstrate compliance with Special Conditions 2.A.

3. Control Device Requirement-Baghouse
 - A. International Ingredient Corporation - Monett shall control emissions from the Leg Belt Transfer (EP-18) using baghouses as specified in the permit application.

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SPECIAL CONDITIONS:

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

- B. The baghouses shall be operated and maintained in accordance with the manufacturer's specifications. The baghouse shall be equipped with a gauge or meter, which indicates the pressure drop across the control device. These gauges or meters shall be located such that Department of Natural Resources' employees may easily observe them.
 - C. Replacement filters for the baghouses shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur (i.e. temperature limits, acidic and alkali resistance, and abrasion resistance).
 - D. International Ingredient Corporation - Monett shall monitor and record the operating pressure drop across the baghouses at least once every 24 hours. The operating pressure drop shall be maintained within the design conditions specified by the manufacturer's performance warranty.
 - E. International Ingredient Corporation - Monett shall maintain a copy of the baghouse manufacturer's performance warranty on site.
 - F. International Ingredient Corporation - Monett shall maintain an operating and maintenance log for the baghouses which shall include the following:
 - 1) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
 - 2) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.
4. Control Device Requirements - Cyclones
- A. International Ingredient Corporation - Monett shall control emissions from the following emission units using cyclones as specified in the permit application.
 - 1) Pellet Mill/Cooler (EP-09)
 - B. The cyclones shall be operated and maintained in accordance with the manufacturer's specifications.
 - C. International Ingredient Corporation - Monett shall maintain an operating and maintenance log for the cyclones which shall include the following:
 - 1) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and Maintenance activities, with inspection schedule, repair actions and replacements, etc.

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SPECIAL CONDITIONS:

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

5. Control Device Requirement-Passive Bag Filter
 - A. International Ingredient Corporation - Monett shall control emissions from the Bagging Bin (EP-13) using passive bag filter as specified in the permit application.
 - B. The passive bag filter shall be operated and maintained in accordance with the manufacturer's specifications.
 - C. Replacement bag filters for the passive bag filter shall be kept on hand at all times. The bags shall be made of fibers appropriate for operating conditions expected to occur.
 - D. International Ingredient Corporation - Monett shall maintain a copy of the Passive Bag Filter manufacturer's performance specifications on site.
 - E. International Ingredient Corporation - Monett shall maintain an operating and maintenance log for the Passive Bag Filter which shall include the following:
 - 1) Incidents of malfunction, with impact on emissions, duration of event, probable cause, and corrective actions; and
 - 2) Maintenance activities, with inspection schedule, repair actions, and replacements, etc.
6. Record Keeping and Reporting Requirements
 - A. International Ingredient Corporation - Monett 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.
 - B. International Ingredient Corporation - Monett 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 (5) REVIEW

Project Number: 2014-04-011
Installation ID Number: 009-0055
Permit Number:

International Ingredient Corporation - Monett
242 Farm Road 1110
Monett, MO 65708

Complete: April 4, 2014

Parent Company:
International Ingredient Corporation - Monett
242 Farm Road 1110
Monett, MO 65708

Barry County, S10, T25N, R27W

REVIEW SUMMARY

- International Ingredient Corporation - Monett has applied for authority to process vegetable materials using its existing dryers and new process equipment as an alternative to processing lactose permeate.
- HAP emissions are not expected from the proposed equipment. .
- None of the New Source Performance Standards (NSPS) apply to the installation.
- None of the NESHAPs apply to this installation. None of the currently promulgated MACT regulations apply to the proposed equipment.
- A baghouse, cyclone and passive bag filter are being used to control the particulate matter emissions from the equipment in this permit.
- This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. The controlled potential emissions of PM₁₀ for this project are below de minimis levels.
- This installation is located in Barry 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 not performed since potential emissions of the application are below de minimis levels for all criteria pollutants.

- Emissions testing is not required for the equipment.
- An application to amend your Basic Operating Permit is required for this installation within 30 days of equipment startup.
- Approval of this permit is recommended with special conditions.

INSTALLATION DESCRIPTION

International Ingredients Corporation (IIC) operates an animal feed production facility in Barry County located at 242 Farm Road 1110 Monett, Missouri. The facility processes lactose permeate from nearby suppliers and produces protein supplements for animal feeds. This facility is a minor source under construction permits and currently operates under a basic operating permit.

The following New Source Review permits have been issued to International Ingredient Corporation - Monett from the Air Pollution Control Program.

Table 1: Permit History

Permit Number	Description
012000-013	Animal Feed Supplements
022001-011	Dryer and Recordkeeping
052004-013	Add Dryers
052004-013A	Extension Request to Add Dryers (Dryers were not installed)

PROJECT DESCRIPTION

IIC has requested the ability to process vegetable material as an alternative to lactose permeate at their facility. This new vegetable material process will involve the existing six rotary drum dryers (EP-03) as well new process equipment. The new emission points include Starch Tote Dump (EP-08), Pellet Mill/Cooler (EP-09), CoMill (EP-13), Sifter (EP-14), Bagging Bin (EP-10), Tote Dump (EP-11) and Bulk Loading (EP-12). The pollutants of concern for this project are PM, PM₁₀ and PM_{2.5}.

The vegetable material process will begin by receiving bulk vegetable material via truck. Emissions from the vegetable receiving are expected to be minimal and were not considered for this project. The vegetable material will be then sent to a liquefier where starch and water will be added to the vegetable material and blended into liquid form. The only emissions expected from the liquefier is PM emissions generated from the starch tote unloading (Starch Tote Dump EP-08). From the liquefier the now liquefied vegetable material will go through another set of liquid mixers and then transferred to the six rotary drum dryers.

The six rotary drum dryers are existing equipment with a MHDR of 325 gallon per hour per dryer and are currently being used to dry lactose permeate. The total amount of dry lactose permeate coming out of the existing dryers is approximately 2.75 tons per hour. When handling vegetable material IIC expects the dryer process to be much slower with a maximum hourly process rate of 167 gallons per hour with 1.0 ton per hour of dry

vegetable material exiting the dryer. Because the throughput of the dryers, when handling vegetable material, is less than the throughput of dryers when handling lactose permeate there will be no increase in potential emissions from the dryers as a result of this project.

From the drum dryers the now dry vegetable material is either transferred to a CoMill (EP-13) and Sifter (EP-14) or a Pellet Mill/Cooler (EP-09). The CoMill is a high speed shearing mechanism that further processes the dry vegetable material. From the CoMill the vegetable material is transferred to a Sifter to ensure proper sizing. From the Sifter the vegetable material is transferred, via an enclosed auger conveyor and two-way diverter, either to the Bagging Bin (EP-10) or directly to Tote Filling (EP-15). The CoMill and Sifter is an enclosed process with no exhaust to the outside air. Any emissions generated by the CoMill and Sifter are exhausted into the Bagging Bin or the Tote Filling.

The dry vegetable material can also be transferred to a Pellet Mill/Cooler from the drum dryers. The Pellet Mill/Cooler pelletizes the vegetable material and then transfers the pelletized vegetable material via an enclosed auger conveyor and two-way diverter to the Bagging Bin (EP-10) or directly to Tote Filling. The emissions generated by the Pellet Mill/Cooler are controlled using a cyclone.

The Bagging Bin can receive dry processed vegetable material from the CoMill and Sifter process or the Pellet Mill/Cooler. However the CoMill and Sifter share the same transfer auger conveyor and two-way diverter as the Pellet Mill/Cooler therefore they cannot be operated at the same time. The emission being exhausted by the CoMill and Sifter into the Bagging Bin as well as the emissions generated by the transfer of the vegetable material, from either the CoMill and Sifter or Pellet Mill/Cooler, are exhausted through the Bagging Bin's bin vent which is controlled by a passive bag filter. From the Bagging Bin the vegetable material is transferred to bags via a small two inch auger. The plastic lined kraft paper bags are sealed around the auger opening with a rubber ring and filled. The air displaced as the vegetable material is filling the bags is back into the bagging bin and once the bag is removed from the auger opening. To be conservative it was assumed that all PM, PM₁₀ and PM_{2.5} being generated by filling of the bags to be emitted.

Dry processed vegetable material from the CoMill and Sifter process or the Pellet Mill/Cooler can also be directed using the same enclosed auger conveyor and two-way diverter to direct Tote Filling. The Tote Filling is a gravity fed process after the vegetable material passes the two-way diverter. The totes being filled are directly tied to the gravity fed spout using straps and are filled. The air displaced as the vegetable material is filling the canvas totes is exhausted through any opening in the gravity fed spout to tote connection as well as when the tote is untied from the gravity fed spout. Because the CoMill and Sifter are enclosed processes any emissions generated by these two emission units will be exhausted into the canvas tote as it is being filled. To be conservative it was assumed that all PM, PM₁₀ and PM_{2.5} being generated by filling of the totes to be emitted

The filled totes and bag of the processed vegetable material are shipped via trucks. As stated before the maximum hourly amount of vegetable material processed is less than what IIC can process when handling the lactose permeate. Therefore the haul road traffic will not increase as a result of this project and there will be no increase in potential emissions from the haul road traffic.

IIC also has the ability to bulk load the processed vegetable material. When bulk loading, IIC simply empties (Tote Dump EP-12) filled totes and loads it into bulk trucks (Bulk Truck EP-17).

As part of this project IIC requested to put a baghouse on their leg belt transfer emission points when handling lactose permeate. After reviewing IIC's past permit history it was discovered that the leg belt transfer emission points were not included in their original construction permit. This construction permit will add Leg Belt Transfer (EP-18) with baghouse control to the original configuration of plant, reestablish the 50 ton per year annual PM₁₀ emission limit and update the PM₁₀ tracking sheet associated with the PM₁₀ limit. Because the maximum throughput of the Leg Belt Transfer is limited by the throughput of the dryers, therefore has the same MHDR, the PM₁₀ emission factor for the Leg Belt Transfer was simply added to the existing PM₁₀ composite emission factor.

EMISSIONS/CONTROLS EVALUATION

The emission factors and control efficiencies used in the analysis of the vegetable material processing were obtained from the EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition, Section 9.9.1 *Grain Elevators And Processes* (May 2003). For processes where Section 9.9.1 did not specifically list an emission factors, the most representative emission factor was chosen for those processes. The emission factor used for Starch Tote Dump (EP-08) were obtain from AP-42, Section 9.9.7 *Corn Wet Milling* (January 1995) for bulk starch loadout. The starch bulk loadout emission factor found in Section 9.9.7 is a fabric filter controlled PM emission factor. IIC does not control their Starch Tote Dump emission point so an uncontrolled emission factor was back calculated assuming 99% control from the fabric filter. In order to calculate PM₁₀ and PM_{2.5} potential emissions from the Starch Tote Dump a particle size distribution found in the document titled "*Evaluation of size distribution of starch granules in selected wheat varieties by the Low Angle Laser Light Scattering method*" found in PLANT SOIL ENVIRON., 49, 2003 (1): 12–17 was applied to the PM emission factor. In cases where no PM_{2.5} emission factor was available for a process it was assumed that PM₁₀ is equal to PM_{2.5}.

The following table provides an emissions summary for this project. Existing potential emissions were taken from construction permit 022001-011. Existing actual emissions were taken from the installation's 2013 EIQ. Controlled potential emissions of the application represent the controlled potential of the new equipment, assuming continuous operation (8760 hours per year). The worst case scenario was applied to determine the controlled potential emissions of the application. The worst case for IIC was the vegetable material going through the CoMill then through the Sifter and directly to the Tote Fill and then onto Tote Dump and Bulk Truck Loading.

Table 2: Emissions Summary (tons per year)

Pollutant	Regulatory <i>De Minimis</i> Levels	Existing Potential Emissions	Existing Actual Emissions (2013 EIQ)	Controlled Potential Emissions of the Application	New Installation Conditioned Potential
PM	25.0	N/D	N/D	4.40	N/D
PM ₁₀	15.0	<50.0	15.72	1.62	<51.62
PM _{2.5}	10.0	N/D	7.91	1.62	N/D
SO _x	40.0	0.08	0.019	N/A	0.08
NO _x	40.0	19.62	3.10	N/A	19.62
VOC	40.0	0.81	0.17	N/A	0.81
CO	100.0	4.91	2.60	N/A	4.91
GHG (CO ₂ e)	100,000	N/D	N/D	N/A	N/D
GHG (mass)	250.0	N/D	N/D	N/A	N/D
HAPs	10.0/25.0	0.02	0.00	N/A	0.02

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

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of PM₁₀ are below de minimis levels.

APPLICABLE REQUIREMENTS

International Ingredient Corporation - Monett 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. For a complete list of applicable requirements for your installation, please consult your operating permit.

GENERAL REQUIREMENTS

- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110
- *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 Particulate Matter Emissions From Fuel Burning Equipment Used for Indirect Heating, 10 CSR 10-6.405*

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*, I recommend this permit be granted with special conditions.

Gerad Fox
New Source Review Unit

Date

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated March 28, 2014, received April 4, 2014, designating International Ingredient Corporation - Monett as the owner and operator of the installation.
- U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition.

Attachment A: PM₁₀ Annual Emissions Tracking Sheet
 International Ingredients Corporation 009-0055
 Project Number: 2014-04-011
 Permit Number:

This sheet covers the period from _____ to _____ (Copy as needed)
 (Month, Year) (Month, Year)

(a)	(b)		(c)	(d)		(e)	(f)	(g)	(h)	(i)
Month	Lactose and Vegetable Production (gallons)		Emission Factor (lb/gal)	Monthly Process Emissions (tons)		Natural Gas Usage (MMcf)	Emission Factor (lb/MMcf)	Monthly Combustion Emissions (tons)	Total Monthly Emissions (tons)	12-Month Total Emissions (tons)
<i>Example</i>	<i>Lactose</i>	<i>200,000</i>	<i>0.007634</i>	<i>(d1)</i>	<i>0.7634</i>	<i>200</i>	<i>7.6</i>	<i>0.76</i>	<i>2.12</i>	<i>14.46</i>
	<i>Vegetable</i>	<i>200,000</i>	<i>0.006</i>	<i>(d2)</i>	<i>0.60</i>					
	Lactose		0.007634	(d1)						
	Vegetable		0.006	(d2)						
	Lactose		0.007634	(d1)						
	Vegetable		0.006	(d2)						
	Lactose		0.007634	(d1)						
	Vegetable		0.006	(d2)						
	Lactose		0.007634	(d1)						
	Vegetable		0.006	(d2)						
	Lactose		0.007634	(d1)						
	Vegetable		0.006	(d2)						
	Lactose		0.007634	(d1)						
	Vegetable		0.006	(d2)						
	Lactose		0.007634	(d1)						
	Vegetable		0.006	(d2)						
	Lactose		0.007634	(d1)						
	Vegetable		0.006	(d2)						
	Lactose		0.007634	(d1)						
	Vegetable		0.006	(d2)						

(a) Record Month

(b) Record the amount, in gallons, of lactose permeate and vegetable material processed by the Rotary Drum Dryers (EP-03) for the applicable month.

(c) PM₁₀ Emission Factors in pounds of PM₁₀ per gallon of material processed (Lactose Permeate and Vegetable Material).

(d) Calculate the Monthly Process Emission from lactose permeate and vegetable materials separately in tons: (d) = [(b) x (c)] / 2000.

(e) Record the Natural Gas Usage for Boiler #1 and Boiler #2 in MMcf.

(f) PM₁₀ Emission Factor in pounds per MMcf of Natural Gas combusted.

(g) Calculate the Monthly Combustion Emissions from Natural Gas Combustion: (g) = [(e) x (f)] / 2000

(h) Calculate the Total Monthly Emissions: (h) = (d1) + (d2) + (g)

(i) Add the Total Monthly Emissions (tons) to the sum of the Total Monthly Emissions from the previous eleven months. A total of less than 50 tons of PM₁₀ is necessary for compliance.

APPENDIX A

Abbreviations and Acronyms

%percent	m/s meters per second
°Fdegrees Fahrenheit	Mgal 1,000 gallons
acfmactual 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	SIC Standard Industrial Classification
GHG Greenhouse Gas	SIP State Implementation Plan
gpm gallons per minute	SMAL Screening Model Action Levels
gr grains	SO_x sulfur oxides
GWP Global Warming Potential	SO₂ sulfur dioxide
HAP Hazardous Air Pollutant	tph tons per hour
hr hour	tpy tons per year
hp horsepower	VMT vehicle miles traveled
lb pound	VOC Volatile Organic Compound
lbs/hr pounds per hour	
MACT Maximum Achievable Control Technology	
µg/m³micrograms per cubic meter	

Mr. Kirk Marcuson
Plant Manager
International Ingredient Corporation - Monett
242 Farm Road 1110
Monett, MO 65708

RE: New Source Review Permit - Project Number: 2014-04-011

Dear Mr. Marcuson:

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 have any questions regarding this permit, please do not hesitate to contact Gerad Fox, at the Department of Natural Resources' 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:gfl

Enclosures

c: Southwest Regional Office
PAMS File: 2014-04-011

Permit Number:

*Celebrating 40 years of taking care of Missouri's natural resources.
To learn more about the Missouri Department of Natural Resources visit dnr.mo.gov.*