PERMIT BOOK

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: 052014-007

Project Number: 2014-03-030
Installation Number:161-0039

Parent Company:	Manchester Packaging Company
Parent Company Address:	2000 East James Blvd., St. James, MO 65559
Installation Name:	Manchester Packaging Company
Installation Address:	2000 East James Blvd., St. James, MO 65559
Location Information:	Phelps County, S16, T38N, R6W

Application for Authority to Construct was made for:
The installation of a new P-6 Flexographic Printing Press capable of printing a 60-inch web, equipped with two natural gas fired dryers. 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.

MAY 22 2014

EFFECTIVE DATE

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 startup 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 startup 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."

Manchester Packaging Company

1. VOC Emission Limit
   A. Manchester Packaging Company shall emit less than 250.0 tons of VOCs in any consecutive 12-month period from the entire installation (see table below).

Table 1: Manchester Packaging Company VOC Emission Units

Emission Unit	Description
EP-01	L-1 Extruder Inline Flexographic Press – Ink
	L-1 Extruder Inline Flexographic Press – Solvent
EP-02	Portable Inline Flexographic Press – Ink
	Portable Inline Flexographic Press – Solvent
EP-03	P-3 Flexographic Printing Press – Ink
	P-3 Flexographic Printing Press – Solvent
EP-04	P-4 Flexographic Printing Press – Ink
	P-4 Flexographic Printing Press – Solvent
EP-05	Overhead Press Dryer
	P-5 Flexographic Printing Press – Ink
	P-5 Flexographic Printing Press – Solvent
EP-06	Deck Press Dryer
	P-5 Flexographic Printing Press – Ink
	P-5 Flexographic Printing Press – Solvent
EP-08	Space Heating
EP-09	Space Heating
EP-12	Space Heating
EP-15	Extruders
EP-16	Overhead Press Dryer
	P-6 Flexographic Printing Press – Ink
	P-6 Flexographic Printing Press – Solvent
EP-17	Deck Press Dryer
	P-6 Flexographic Printing Press – Ink
	P-6 Flexographic Printing Press – Solvent

   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 1.A.

SPECIAL CONDITIONS:

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

2. Operational Requirement - Solvent/Ink Cloths
   A. Manchester Packaging Company shall keep all inks, solvents, and cleaning solutions in sealed containers whenever the materials are not in use. Manchester Packaging Company shall provide and maintain suitable, easily read, permanent markings on all inks, solvents, and cleaning solution containers used at the installation.

3. Record Keeping and Reporting Requirements
   A. Manchester Packaging Company 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. Manchester Packaging Company shall report to the Air Pollution Control Program's Compliance/Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten 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: 2014-03-030
Installation ID Number: 161-0039
Permit Number:

Manchester Packaging Company
2000 East James Blvd.
St. James, MO 65559

Complete: March 18, 2014

Parent Company:
Manchester Packaging Company
2000 East James Blvd.
St. James, MO 65559

Phelps County, S16, T38N, R6W

REVIEW SUMMARY

- Manchester Packaging Company has applied for authority to install a new P-6 Flexographic Printing Press capable of printing a 60-inch web, equipped with two natural gas fired dryers.

- HAP emissions are expected from the combustion of natural gas in the overhead and deck dryer (EP-16 and EP-17).

- None of the New Source Performance Standards (NSPS) apply to the installation.

- 40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants for Source Categories, Subpart KK, *National Emissions Standards for Printing and Publishing Industry* does not apply to this facility as it is an area source of HAPs.

- No air pollution control equipment is being used in association with the new equipment.

- 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 for this project are above de minimis levels, but below major source levels. The VOC emissions for the entire installation were conditioned to below major source levels.

- This installation is located in Phelps 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 for this review. No model is currently available which can accurately predict ambient ozone concentrations caused by this installation's VOC emissions.

- Emissions testing is not required for the equipment.

- An application to amend your Part 70 Operating Permit is required for this installation within one year of equipment startup.

- Approval of this permit is recommended with special conditions.

INSTALLATION DESCRIPTION

Manchester Packaging Company (MPC) is an existing polyethylene film products manufacturing facility in St. James, Missouri. The polyethylene film products produced by the installation are printed and unprinted polyethylene film and printed and unprinted polyethylene bags.

The installation receives polyethylene resin by rail. The polyethylene resin is unloaded from the railcar by the Railcar Unloader Transfer System (EP-10) and transferred to a resin storage silo. The stored polyethylene resin is transferred to the master blenders by Vacuum Loader 2 (EP-14) and then transferred to the auxiliary blenders by Vacuum Loader 1 (EP-13). After blending, the polyethylene resin is transferred to the Extruder (EP-14) by Hopper Loader Transfer System (EP-11) to produce unprinted polyethylene film.

The unprinted polyethylene film is either sold as is or it can be printed and/or formed into bags. The installation operates five flexographic presses (EP-01, EP-02, EP-03, EP-04, EP-05, and EP-06).

The installation operates 15 bag machines to form unprinted or printed polyethylene film into bags.

Unprinted and printed polyethylene scrap is ground down and reused.

Additional equipment at the installation includes Overhead Press Dryer (EP-05), Deck Press Dryer (EP-06), and Space Heating (EP-08, EP-09, and EP-12).

The installation currently operates under the Part 70 Operating Permit OP2008-020, which expired March 16, 2013 however a Part 70 Operating Permit renewal application has been received and is currently being reviewed therefore MPC is operating under the operating permit application shield.

The following New Source Review permits have been issued to Manchester Packaging Company from the Air Pollution Control Program.

Table 1: Permit History

Permit Number	Description
0198-035	Flexographic Printing Press Operation
112012-014	Add Extruders

PROJECT DESCRIPTION

MPC is installing a new Carint-Gemini 1590 flexographic press designated a P-6 (EP-16 and EP-17). This printer will have the capacity to print six colors on polyethylene films up to 60 inches wide and is equipped with two in-process heaters to dry ink and solvents. One heater will be utilized "overhead" on the line and the other will be utilized in between the decks. The amount of polyethylene film available for print will not be increased as a result of this project. Therefore the only emissions increase as a result of this project will be from the new equipment being installed.

No controls are being used to control the emissions from the new P-6 printing press. The expected pollutants from the new P-6 printing press are volatile organic compounds (VOC) from the inks and solvents and combustion emission from the overhead and deck dryers. The inks or solvents being used by MPC do not contain any HAPs. The total maximum hourly usage rate of the new P-6 printing press is 0.00270 tons of ink per hour and 0.00704 tons of solvent per hour. As this press is separated into two different emission units, EP-16 for the overhead dryer portion and EP-17 for the deck dryer portion, the maximum hourly usage rate is split evenly between the two, calculating out to be 0.00135 ton of ink per hour and 0.00352 tons of solvent per hour per each emission unit (EP-16 and EP-17). The two dryers being implemented by the new P-6 printing press are both fired by natural gas and each have a maximum hourly design rate of 0.394 MMBtu per hour or 0.003863 MMcf of natural gas per hour.

EMISSIONS/CONTROLS EVALUATION

The potential emissions from the new P-6 printing press were calculated using the product Material Safety Data Sheets and a mass balance calculation. All VOCs within the ink and solvents were assumed to be emitted. The inks or solvents being used by MPC do not contain any HAPs therefore no HAP emissions are expected. To calculate the annual emissions from the new P-6 printing press the worst case ink and solvent was assumed to be used 100 percent of the time. The table lists the inks and solvents considered for this project.

Table 2: Ink and Solvents Evaluated for the Project

Code	Manufacturer	Material Name	Chemical Type	Density (lb/gal)	% VOC (wt.)	% HAP
*Ink-001	Sun Chemical	HT Resist Blend Varnish: D947 (CHLFS0030759)	Ink	7.73	73.14%	0.00%
Ink-002	Sun Chemical	Black Base (90081193/90167-116)	Ink	8.55	46.76%	0.00%
Ink-003	Sun Chemical	Cyan Blue Base/D947 (90002142/54447-116)	Ink	8.06	57.10%	0.00%
Ink-004	Sun Chemical	Polyamide Carb. Violet (90823481/6047-1165)	Ink	7.85	58.12%	0.00%
Ink-005	Sun Chemical	Polyamide Phyhal. Green	Ink	8.21	52.46%	0.00%

Code	Manufacturer	Material Name	Chemical Type	Density (lb/gal)	% VOC (wt.)	% HAP
		NS (72129-1165/K537)				
Ink-006	Sun Chemical	PA Methyl Violet Base (90080822/60181-116)	Ink	8.20	54.68%	0.00%
Ink-007	Sun Chemical	SL APA YS Rodamine Base:K25 (466215-1165)	Ink	8.06	49.86%	0.00%
Ink-008	Sun Chemical	Rubine Red Base/D947 (46150-1165/D947)	Ink	8.09	53.53%	0.00%
Ink-009	Sun Chemical	Polyamide Y/S Napthol Concentrate (46797-1165)	Ink	7.83	53.90%	0.00%
Ink-010	Sun Chemical	Sunsheen White (90042129/P-136257)	Ink	12.30	30.67%	0.00%
Ink-011	Sun Chemical	Mod Sunshrink White/D947 (90005559/SSNFS1111)	Ink	11.86	31.65%	0.00%
Ink-012	Sun Chemical	877 Sunsheen Silver (KCPFSM11S220/K5380)	Ink	7.86	56.04%	0.00%
Ink-013	Sun Chemical	GA23100000 poly rib imp o.white (90817948)	Ink	10.45	43.97%	0.00%
Ink-014	Sun Chemical	Truweather Y/S Red (TLQFS4030290/K540)	Ink	7.98	61.48%	0.00%
Ink-015	Sun Chemical	Truweather Pro Black (TLQFS9030344/K540)	Ink	8.17	60.16%	0.00%
Ink-016	Sun Chemical	Truweather Pro Cyan (TLQFS5030343/K540)	Ink	8.10	61.80%	0.00%
Ink-017	Sun Chemical	Truweather Pro Magenta (TLQFS4030342/K540)	Ink	7.94	66.00%	0.00%
Ink-018	Sun Chemical	2217-1165 Polyamide G/S Yellow (90084155)	Ink	7.91	55.98%	0.00%
Ink-019	Sun Chemical	Truweather White (90867393 TLQFS1030)	Ink	10.08	45.03%	0.00%
Ink-020	Sun Chemical	Truweather Pro Yellow (TLQFS2030341/K540)	Ink	8.04	65.83%	0.00%
Ink-021	Sun Chemical	Truweather Oxide Red K540 (90978208 TLSFS4031)	Ink	10.21	50.12%	0.00%
Ink-022	Sun Chemical	Trueweather Cyan Green K540 (90978172/K540)	Ink	8.24	61.86%	0.00%
Ink-023	Sun Chemical	Truweather Carb Violet K540 TLQFS6030294	Ink	7.73	65.17%	0.00%
Ink-024	Sun Chemical	Sunshrink SP White (TXLFS114812/K538)	Ink	9.98	46.91%	0.00%
InkAdd-001	Sun Chemical	DPI-317 Wax Compound NS (11-K-14/K537)	Ink Additive	7.38	53.22%	0.00%
InkAdd-002	Sun Chemical	CHKFSX110691 (HR Wax 90072353)	Ink Additive	7.54	46.54%	0.00%
InkAdd-003	Sun Chemical	Extender/D947 (90083782/11-V-100)	Ink Additive	7.56	57.10%	0.00%
InkAdd-004	Sun Chemical	High Scuff Wax/K525 (90005657/TK91-4118)	Ink Additive	7.91	42.91%	0.00%
InkAdd-005	Sun Chemical	Truweather Extender (TWFS0030286/K540)	Ink Additive	7.47	72.59%	0.00%
InkAdd-006	Sun Chemical	Banner Polyamide Pro Ext./K538 (90012554/WKIFS0110)	Ink Additive	7.56	66.55%	0.00%

Code	Manufacturer	Material Name	Chemical Type	Density (lb/gal)	% VOC (wt.)	% HAP
Solv-001	Superior	(L-1214)	Solvent	6.80	100.00%	0.00%
Solv-002	Sun Chemical	320-217 Slow Additive	Solvent Additive	7.37	100.00%	0.00%
Solv-003	Superior	n-Propanol	Solvent	6.69	99.80%	0.00%
*Solv-004	Superior	n-Propyl Acetate	Solvent	7.38	100.00%	0.00%

*Worst case ink and solvent.

The emission factors used for the combustion of natural gas in the overhead and deck dryers were obtained from the EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition, Section 1.4 *Natural Gas Combustion* (July 1998).

The following table provides an emissions summary for this project. Existing potential emissions were taken from construction permit 112012-014. Existing actual emissions were taken from the installation's 2013 EIQ. Potential emissions of the application represent the potential of the new equipment, assuming continuous operation (8760 hours per year).

Table 3: Emissions Summary (tons per year)

Pollutant	Regulatory *De Minimis* Levels	Existing Potential Emissions	Existing Actual Emissions (2013 EIQ)	Potential Emissions of the Application	*New Installation Conditioned Potential
PM	25.0	3.51	N/D	0.0064	1.66**
PM_{10}	15.0	3.51	0.0016	0.026	3.54
$PM_{2.5}$	10.0	0.07	0.0016	0.026	3.54**
SOx	40.0	0.01	0.0004	0.0020	0.0075
NOx	40.0	0.88	0.053	0.34	1.24
VOC	40.0	219.94	70.11	79.09	<250.0
CO	100.0	0.74	0.0106	0.28	1.04
GHG (CO_2e)	75,000 / 100,000	1,059.16	N/D	407.27	1499.09
GHG (mass)	0.0 / 100.0 / 250.0	N/D	N/D	406.07	1490.29
HAPs	10.0/25.0	0.09	0.00	0.0064	0.036***

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

*New Installation Conditioned Potential includes an installation wide VOC limit. Potential emissions for the whole facility were recalculated based on the ink and solvent list provided.

**PM potential emission only includes the filterable portion of combustion emissions. Assumed all PM_{10} to be $PM_{2.5}$ including the potential emissions from the extruders.

***Installation wide HAP emissions decrease due to discontinued use of inks and solvents that contain HAPs. All HAP emission come from the combustion of natural gas and the extruding process.

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 for this project are above de minimis levels, but below major source levels. The VOC emissions for the entire installation were conditioned to below major source levels.

APPLICABLE REQUIREMENTS

Manchester Packaging Company 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 applies to the new equipment and it is in compliance as they solely burn pipeline grade natural gas.

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

_____ _____

Gerad Fox Date
New Source Review Unit

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated March 14, 2014, received March 18, 2014, designating Manchester Packaging Company as the owner and operator of the installation.

- U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition.

Attachment A –VOC Compliance Worksheet

Manchester Packaging Company
Phelps County, S16, T38N, R6W
Project Number: 2014-03-030
Installation ID Number: 161-0039

This sheet covers _____ (Copy this sheet as needed.)
(month, year)

(a)	(b)	(c)	(d)	(e)
Ink, Solvent or Additive (Name, Product #)	Amount of Ink, Solvent or Additive Used (gallon)	Density (lb/gal)	VOC Content (Weight %)	VOC Emissions (Tons)
Example: Cyan Blue Base/D947 (90002142/54447-116)	*10*	*7.73*	*73.14%*	*0.0283*

Extruders (EP-15)	(f) Amount of Polyethylene Film Produced (tons)	(g) Emission Factor (lb/ton)	(h)
		0.0398	
Total Natural Gas Combustion	(i) Amount of Natural Gas Used (MMcf)	(j) Emission Factor (lb/MMcf)	(k)
		5.5	

(l) Total VOC Emissions Calculated for this Month in Tons	
(m) 12-Month VOC Emissions Total (o) from Previous Month's Worksheet in Tons	
(n) Monthly VOC Emissions Total (l) from Previous Year's Worksheet in Tons	
(o) Current 12-month Total of VOC Emissions in Tons: (o) = [(l) + (m) - (n)]	

(a) Record the name of all inks, solvents and additives used this month.
(b) Record the respective gallons of inks, solvents and additives used this month.
(c) Record the respective density of inks, solvents and additives from the MSDS.
(d) Record the respective VOC content of inks, solvents and additives. Obtain VOC content of other inks, solvents and additives from their respective MSDS. If a range is given for the VOC content, use the highest value in the range.
(e) Calculate VOC emissions from inks, solvents and additives: (e) = [(b) x (c) x (d)] / 2000.
(f) Record the tons of Polyethylene Film produced by the extruders
(g) VOC emission factor for the extruder process
(h) Calculate VOC emissions from the extruders: (h) = [(f) x (g)] / 2000
(i) Record the MMcf of natural gas used by the Manchester Packaging
(j) VOC emission factor for natural gas combustion
(k) Calculate VOC emissions from natural gas combustion: (k) = [(j) x (k)] / 2000
(l) Sum each individual VOC emissions for this month: (l) = [sum of all VOC emissions in (e)] + (h) + (k)
(m) Record the 12-month total VOC emissions (o) from last month's Attachment A.
(n) Record the monthly VOC emissions total (l) from previous year's Attachment A.
(o) Calculate the current 12-month total VOC emissions. A value less than 250.0 tons of VOC indicates compliance.

APPENDIX A

Abbreviations and Acronyms

% ..... percent

ºF ..... degrees Fahrenheit

acfm ..... actual cubic feet per minute

BACT ..... Best Available Control Technology

BMPs ..... Best Management Practices

Btu..... British thermal unit

CAM ..... Compliance Assurance Monitoring

CAS..... Chemical Abstracts Service

CEMS ..... Continuous Emission Monitor System

CFR ..... Code of Federal Regulations

CO ..... carbon monoxide

CO_2..... carbon dioxide

CO_2e..... carbon dioxide equivalent

COMS..... Continuous Opacity Monitoring System

CSR..... Code of State Regulations

dscf ..... dry standard cubic feet

EIQ ..... Emission Inventory Questionnaire

EP..... Emission Point

EPA ..... Environmental Protection Agency

EU..... Emission Unit

fps ..... feet per second

ft ..... feet

GACT ..... Generally Available Control Technology

GHG ..... Greenhouse Gas

gpm..... gallons per minute

gr..... grains

GWP..... Global Warming Potential

HAP..... Hazardous Air Pollutant

hr..... hour

hp ..... horsepower

lb ..... pound

lbs/hr..... pounds per hour

MACT ..... Maximum Achievable Control Technology

µg/m^3..... micrograms per cubic meter

m/s ..... meters per second

Mgal ..... 1,000 gallons

MW ..... megawatt

MHDR..... maximum hourly design rate

MMBtu.... Million British thermal units

MMCF..... million cubic feet

MSDS ..... Material Safety Data Sheet

NAAQS... National Ambient Air Quality Standards

NESHAPs ..... National Emissions Standards for Hazardous Air Pollutants

NO_x..... nitrogen oxides

NSPS..... New Source Performance Standards

NSR..... New Source Review

PM ..... particulate matter

$PM_{2.5}$..... particulate matter less than 2.5 microns in aerodynamic diameter

PM_{10}..... particulate matter less than 10 microns in aerodynamic diameter

ppm ..... parts per million

PSD ..... Prevention of Significant Deterioration

PTE..... potential to emit

RACT..... Reasonable Available Control Technology

RAL ..... Risk Assessment Level

SCC..... Source Classification Code

scfm ..... standard cubic feet per minute

SIC..... Standard Industrial Classification

SIP..... State Implementation Plan

SMAL ..... Screening Model Action Levels

SO_x..... sulfur oxides

SO_2..... sulfur dioxide

tph..... tons per hour

tpy ..... tons per year

VMT..... vehicle miles traveled

VOC..... Volatile Organic Compound

Mr. Michael Bryant
Vice President of Manufacturing
Manchester Packaging Company
2000 East James Blvd.
St. James, MO 65559

RE: New Source Review Permit - Project Number: 2014-03-030

Dear Mr. Bryant:

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 by telephone 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:gfk

Enclosures

c: Southeast Regional Office
PAMS File: 2014-03-030

Permit Number: