



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION
AIR POLLUTION CONTROL PROGRAM

PERMIT TO CONSTRUCT

PERMIT BY RULE

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

Construction Permit Number 032017-001

Project Number: 2017-01-039

Installation ID: 095-0392

Installation Name and Address

Etched, LLC
4351 Clary Boulevard
Kansas City, MO 64130
Clay County

Parent Company's Name and Address


Etched, LLC
4351 Clary Boulevard
Kansas City, MO 64130

Installation Description:

One spray booth and solvent cleaning line for purposes of metal coating finishes on nameplates and panels.

MAR 03 2017

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 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 permit-by-rule application and this permit. 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 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 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.

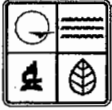
The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit using the contact information below.

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/>



STATE OF MISSOURI
 DEPARTMENT OF NATURAL RESOURCES
 P.O. BOX 176, JEFFERSON CITY, MO 65102-0176
**APPLICATION FOR AUTHORITY TO CONSTRUCT
 PERMIT BY RULE NOTIFICATION
 SURFACE COATING OPERATIONS**

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APCP USE ONLY	
CHECK NO. 1003	CHECK RECEIVED (MM/DD/YY) 1-20-17
CHECK AMOUNT \$ 700.⁰⁰ / 600.⁰⁰ / 100.⁰⁰	CHECK DATE (MM/DD/YY) 1-15-17
PROJECT NO.	PERMIT NO.

SECTION A: GENERAL NOTIFICATION INFORMATION – ALL NOTIFICATIONS MUST BE ACCOMPANIED BY A \$700 FEE.

SECTION A-1: GENERAL INSTALLATION INFORMATION

1. INSTALLATION NAME Etched, LLC		2. FIPS 071	2. PLAN T NO.
3. INSTALLATION STREET ADDRESS 4351 Clary Blvd.			
4. INSTALLATION MAILING ADDRESS 4351 Clary Blvd.			
5. CITY Kansas City		STATE MO	ZIP CODE 64130
6. COUNTY NAME Jackson	7. 1/4, of 1/4, of SECTION TOWNSHIP RANGE		
9. PARENT COMPANY NA			
10. PARENT COMPANY MAILING ADDRESS			
11. CITY		STATE	ZIP CODE
12. INSTALLATION CONTACT PERSON Adam Barksdale		13. CONTACT PERSON'S TITLE Member/Owner	
14. CONTACT PERSON'S MAILING ADDRESS 4351 Clary Blvd., Kansas City, MO 64130			
15. INSTALLATION CONTACT TELEPHONE NO. 816-522-8406		16. INSTALLATION CONTACT FAX NO.	
17. INSTALLATION CONTACT E-MAIL ADDRESS abarksdale@etchednp.com			
18. PROJECTED DATE TO COMMENCE CONSTRUCTION 2/1/2017		19. PROJECT DATE OF OPERATION STARTUP 2/28/2017	

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 2017 JAN 20 PM 11:27
 AIR POLLUTION
 CONTROL DIVISION

SECTION A-2: INSTALLATION DESCRIPTION

20.
 Etched, LLC proposes to construct and operate a facility permitted under the MO DNR Permit-By-Rule for surface coating operations. Etched, LLC will install one spray booth and solvent cleaning line for purposes of metal coating finishes on nameplates and panels. The facility conservatively estimates maximum production usages will be below each of the VOC, individual HAP, and combined HAPs thresholds. Conservative emission calculations can be shown in Appendix B of this application.

SECTION A-3: CERTIFICATION STATEMENT

I certify that I have personally examined and am familiar with the information in this application and believe that the information submitted is accurate and complete. I am aware that making a false statement or misrepresentation in this application is grounds for denying or revoking this permit.

21. SIGNATURE OF RESPONSIBLE OFFICIAL 		22. DATE 1/15/17
23. TYPE OR PRINT NAME OF RESPONSIBLE OFFICIAL Adam Barksdale		24. RESPONSIBLE OFFICIAL'S TELEPHONE NUMBER 816-522-8406
25. TITLE OF RESPONSIBLE OFFICIAL Member/Owner		

SECTION B: SPECIAL CONDITIONS FOR PRINTING OPERATIONS

Construction and operation of this new air pollution source is subject to the special conditions listed below. These special conditions are based on the authority granted to the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically RSMo. 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.062 "Construction Permits by Rule").

Please indicate by marking the appropriate box as to whether or not the emission source complies with the rule listed in the applicable emission limit or standard. If any of the applicable emission source boxes are checked no, your source is not eligible for a printing operation permit by rule.

This Permit By Rule applies only to Surface Coating Operations constructed after Oct. 31, 2003.

SPECIAL CONDITION	EMISSION SOURCE COMPLIES?	APPLICABLE EMISSION LIMIT OR STANDARD	METHOD OF COMPLIANCE
10 CSR 10-6.062(3)(B)3.A.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Metalizing, spraying molten metal onto a surface to form a coating, is not permitted under this permit-by-rule. The use of coatings that contain metallic pigments is permitted.	Proper work practice.
10 CSR 10-6.062(3)(B)3.B.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	All facilities shall implement good housekeeping procedures to minimize fugitive emissions, including all spills, which shall be cleaned up immediately. The booth or work area exhaust fans shall be operating when cleaning spray guns and other equipment. All new and used coatings and solvents shall be stored in closed containers. All waste coatings and solvents shall be removed from the site by an authorized disposal service or disposed of at a permitted on-site waste management facility.	To ensure proper work practices the operator shall provide and maintain suitable, easily read, permanent markings on all coatings and solvents containers.
10 CSR 10-6.062(3)(B)3.C.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Drying and curing ovens shall either be electric or meet the following conditions: The maximum heat input to any oven must not exceed forty (40) million British thermal units (Btu's) per hour. Heat shall be provided by the combustion of one of the following: natural gas, liquid petroleum gas, fuel gas containing no more than twenty (20) grains of total sulfur compounds (calculated as sulfur) per one hundred (100) dry standard cubic feet, or number 2 fuel oil with not more than three tenths percent (0.3%) sulfur by weight.	Proper work practice.
10 CSR 10-6.062(3)(B)3.D.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<p>Emissions shall be calculated using a material balance that assumes that all VOC's and hazardous air pollutants in the paints and solvents used are directly emitted to the atmosphere. The total uncontrolled emissions from the coating materials (as applied) and cleanup solvents shall not exceed the following for all operations: Forty (40) tons per twelve (12)-month period, rolled monthly, of VOC's for all surface coating operations on the property.</p> <p>A sum of twenty-five (25) tons per twelve (12)-month period, rolled monthly, of all hazardous air pollutants for all surface coating operations on the property.</p> <p>Each individual hazardous air pollutant shall not exceed the emission threshold levels established in 10 CSR 10-6.060(12)(J), rolled monthly.</p>	<p>Determined through proper record keeping. Worksheets A, B, and C (or equivalent) shall be used to demonstrate compliance with this condition. These records shall be maintained for not less than five (5) years, and they shall be immediately available to any Missouri Department of Natural Resources personnel upon request. The operator shall report to the Air Pollution Control.</p> <p>Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (10) days after the end of the month during which these conditions are exceeded.</p>

SECTION B: SPECIAL CONDITIONS FOR PRINTING OPERATION (CONTINUED)

SPECIAL CONDITION	EMISSION SOURCE COMPLIES?	APPLICABLE EMISSION LIMIT OR STANDARD	METHOD OF COMPLIANCE
10 CSR 10-6.062(3)(B)3.E.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<p>The surface coating operations shall be performed indoors, in a booth or in an enclosed work area. The booth shall be designed to meet a minimum face velocity at the intake opening of each booth or work area of one hundred feet (100') per minute. Emissions shall be exhausted through elevated stacks that extend at least one and one-half (1 1/2) times the building height above ground level. All stacks shall discharge vertically. There shall be no obstructions, such as rain caps, unless such services are designed to automatically open when booths are operated.</p>	Proper work practice.
10 CSR 10-6.062(3)(B)3.F.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<p>For spraying operations, emissions of particulate matter must be controlled using either a water wash system or a dry filter system with a ninety-five percent (95%) removal efficiency as documented by the manufacturer. The face velocity at the filter shall not exceed two hundred fifty feet (250') per minute or that specified by the filter manufacturer, whichever is less. Filters shall be replaced according to the manufacturer's schedule or whenever the pressure drop across the filter no longer meets the manufacturer's recommendation.</p>	Proper work practice.
10 CSR 10-6.062(3)(B)3.G.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<p>Coating operations shall be conducted at least fifty feet (50') from the property line and at least two hundred fifty feet (250') from any recreational area, residence, or other structure not occupied or used solely by the owner of the property upon which the facility is located.</p>	Proper work practice.
10 CSR 10-6.062(3)(B)3.H.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<p>The facility shall not be located in an ozone non-attainment area.</p>	Proper work practice.
10 CSR 10-6.062(3)(B)3.I.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<p>Record keeping. The operator shall maintain the following records and reports: All material safety data sheets for all coating materials and solvents. A monthly report indicating the days the surface coating operation was in operation and the total tons emitted during the month, and the calculation showing compliance with the rolling average emission limits of sub paragraphs 10 CSR 10-6.062(3)(B)3.d.</p> <p>A set of example calculations showing the method of data reduction including units, conversion factors, assumptions, and the basis of assumptions.</p> <p>These reports and records shall be immediately available for inspection at the installation.</p>	<p>Determined through proper record keeping. Worksheets A, B, and C (or equivalent) shall be used to demonstrate compliance with this condition. These records shall be maintained for not less than five (5) years, and they shall be immediately available to any Missouri Department of Natural Resources personnel upon request.</p> <p>The operator shall report to the Air Pollution Control Program's Enforcement Section, P.O. Box 176, Jefferson City, Missouri 65102, no later than ten (1) days after the end of the month during which these conditions are exceeded.</p>

SECTION C: OTHER POTENTIALLY APPLICABLE REQUIREMENTS

This section is intended to identify regulations that may apply to this installation. There may be others not listed that apply. To determine rule applicability and specific standards please consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements. A copy of the CSR can be found at <http://www.sos.mo.gov/adrules/csr/current/10csr/10csr>.

Please note: this 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.

REGULATION OR CONSTRUCTION PERMIT REFERENCE	APPLICABLE EMISSION LIMIT OR STANDARD	METHOD OF COMPLIANCE
10 CSR 10-6.045 Open Burning Restrictions	No person shall not conduct, cause, permit or allow the disposal of tires, petroleum-based products, trade waste, construction or demolition waste, salvage operation waste or asbestos containing materials by open burning, except as allowed in the rule.	Any person intending to engage in open burning shall submit a request to the Director.
10 CSR 10-6.050, Start-up, Shutdown and Malfunction Conditions	The permittee shall not commence construction or modification of any installation subject to this rule; begin operation after construction or modification; or begin operation of any installation which has been shut down longer than 5 years without first obtaining a permit.	In the event of a malfunction, which results in excess emissions that exceed 1 hr, the permittee shall implement corrective action and submit reports.
10 CSR 10-6.065, Operating Permits	The permittee shall comply with all applicable requirements identified in the operating permit (OP) and retain a copy of the OP on-site and make available to any Missouri Department of Natural Resources personnel upon request.	As required by the rule, the permittee shall submit an operating permit application and submit an annual compliance certification in accordance with the regulation. The permittee shall maintain a current equipment list on-site with the date of installation of the equipment.
10 CSR 10-6.070 New Source Performance Regulations	<p>The following federal NSPS standards may apply:</p> <ul style="list-style-type: none"> • (EE) Surface Coating of Metal Furniture • (MM) Automobile and Light-Duty Truck Surface Coating Operations • (SS) Industrial Surface Coating: Large Appliances • (TT) Metal Coil Surface Coating • (WW) Beverage Can Surface Coating Industry • (FFF) Flexible Vinyl and Urethane Coating and Printing • (TTT) Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines 	As required by regulations.
10 CSR 10-6.075 Maximum Achievable Control Technology Regulations	<p>The following federal MACT standards may apply:</p> <ul style="list-style-type: none"> • (GG) Aerospace Mfg. & Rework Industry • (JJ) Wood Furniture Manufacturing • (III) Auto & Light Duty Trucks Surface Coating • (KKKK) Metal Can Surface Coating • (MMMM) Miscellaneous Metal Parts Surface Coating • (NNNN) Large Appliance Surface Coating • (OOOO) Printing, Coating & Dyeing of Fabrics & Textiles • (PPPP) Plastic Parts & Products Surface Coating • (QQQQ) Wood Building Products Surface Coating • (RRRR) Metal Furniture Surface Coating • (SSSS) Metal Coil Surface Coating • (HHHHH) Surface Coating & Paint Stripping • (QQQQQ) Wood Preserving Area Sources 	As required by regulations.

SECTION C: OTHER POTENTIALLY APPLICABLE REQUIREMENTS (continued)		
REGULATION OR CONSTRUCTION PERMIT REFERENCE	APPLICABLE EMISSION LIMIT OR STANDARD	METHOD OF COMPLIANCE
10 CSR 10-6.110, Submission of Emission Data, Emission Fees and Process Information	Submittal of Emission Inventory Questionnaire (EIQ) and emission fees by frequency noted in 10 CSR 10-6.110.	The permittee shall complete and submit an EIQ and emission fees in accordance with 10 CSR 10-6.110.
10 CSR 10-6.165, Restriction of Emission of Odors	No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one (1) volume of odorous air is diluted to seven (7) volumes of odor-free air for two (2) separate trails not less than 15 minutes apart within the period of 1 hour. The odor evaluation shall be taken at a location outside of the installation's property boundary	No odor violations noted, if and when scentometer readings taken.
10 CSR 10-2.205 Control of Emissions From Aerospace Manufacture and Rework Facilities <i>(Applies only to facilities in Clay, Platte, and Platte Counties)</i>	No person shall cause, permit, or allow the emissions of VOC from coating of aerospace vehicle or components to exceed certain amount of VOC per gallon (see rule for more details).	Proper work practice and maintenance of records as required by the rule.
10 CSR 10-2.210 Control of Emissions From Solvent Metal Cleaning <i>(Applies only to facilities in Clay, Platte, and Platte Counties)</i>	This rule specifies equipment, operating procedures and training requirements for solvent cleaning metal operations.	Proper work practice and maintenance of records as required by the rule.
10 CSR 10-2.230 Control of Emissions From Industrial Surface Coating Operations <i>(Applies only to facilities in Clay, Platte, and Platte Counties)</i>	This rule restricts VOC from surface coating operations that exceed certain amounts of VOC per gallon (see rule for more details).	Proper work practice and maintenance of records as required by the rule.
10 CSR 10-5.300 Control of Emissions From Solvent Metal Cleaning <i>(Applies only to facilities in St. Louis, St. Charles, Franklin and Jefferson Counties and the City of St. Louis)</i>	This rule specifies equipment, operating procedures and training requirements for solvent cleaning metal operations.	Proper work practice and maintenance of records as required by the rule.
10 CSR 10-5.330, Control of Emissions From Industrial Surface Coating Operations <i>(Applies only to facilities in St. Louis, St. Charles, Franklin and Jefferson Counties and the City of St. Louis)</i>	This rule restricts VOC from surface coating operations by complying with general provisions for specific coating types (see rule for more details).	Proper work practice and maintenance of records as required by the rule.
10-5.455 Control of Emissions from Solvent Cleanup Operations <i>(Applies only to facilities in St. Louis, St. Charles, Franklin and Jefferson Counties and the City of St. Louis)</i>	This rule restricts cleaning operations unless it meets requirements including VOC-content limitations, cleaning devices and methods, operating requirements, control device inspection and other requirements for coatings, inks and resin manufacturers.	Proper work practice and maintenance of records as required by the rule.
10 CSR 10-5.530, Control of Volatile Organic Compound Emissions From Wood Furniture Manufacturing Operations	The owner or operator shall limit VOC emissions from finishing operations by complying with requirements found in 10 CSR 10-5.530(3).	Proper work practice and maintenance of records as required by the rule.



**AIR POLLUTION CONTROL PROGRAM
APPLICATION FOR AUTHORITY TO CONSTRUCT
PERMIT BY RULE NOTIFICATION
SURFACE COATING OPERATIONS**

WORKSHEET B: MONTHLY COMBINED HAPS TRACKING RECORD

COMPANY NAME _____

ADDRESS _____

THIS SHEET COVERS THE MONTH OF _____ IN THE YEAR _____

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7
Material Used (Name)	Amount of Material Used (gallons)	Density (lbs/gal) ⁶	Individual HAP (CAS #)	HAP is also PM ⁸ (yes / no)	HAP Content ⁹ (Weight %)	HAP Emissions ¹⁰ (Tons)

Combined HAP Emissions Calculated for this Month¹¹ in Tons: _____

Current 12-month Total of Combine HAP Emissions¹² in Tons _____

⁶ As obtained from the Safety Data Sheet for the material. If the specific gravity (s.g.) is listed, the density can be obtained from the following equation: Density (lb/gal) = specific gravity x 8.33 lb/gal.

⁷ List all individual HAPs contained in the material as obtained from the Safety Data Sheet.

⁸ Compare each individual HAP to Appendix A for verification as particulate matter

⁹ If the HAP content is listed as a range of values, the highest value in the range shall be used to demonstrate compliance.

¹⁰ For individual HAPs that are not PM: Calculate the HAP potential to emit: Monthly Usage (gal) x Density (lb/gal) x HAP Content (wt%) / 2000 (lb/ton).

For individual HAPs that are also PM: HAP Emissions (ton/month) = Monthly Usage (gal) x Density (lb/gal) x HAP Content (wt%) x 0.05 / 2000 (lb/ton) [Note 0.05 factor is credit for use of a control device as required by 10 CSR 10-6.062(3)(B)3.F.]

¹¹ Summation of [Column 7] in Tons

¹² Running 12-month total of Combined HAP emissions = Combined HAP emissions reported for this month plus the last consecutive 11 months. A 12-Month Combined HAP emissions total of less than 25.0 tons indicates compliance.



AIR POLLUTION CONTROL PROGRAM APPLICATION FOR AUTHORITY TO CONSTRUCT PERMIT BY RULE NOTIFICATION SURFACE COATING OPERATIONS

Make a copy of Worksheet C for each individual HAP emitted.

WORKSHEET C: MONTHLY INDIVIDUAL HAP TRACKING RECORD	
COMPANY NAME	
ADDRESS	
THIS SHEET COVERS THE MONTH OF	IN THE YEAR
Individual HAP Name, CAS #, and Type ¹³	
COLUMN 1 ¹⁴	COLUMN 2 (B)
List materials from Worksheet B which emit this individual HAP (Name)	HAP emissions from Worksheet B [Column 7] ¹⁵ (in Tons)
Total HAP Emissions Calculated for this Month ¹⁶ in Tons:	
12-month Total of HAP Current Emissions ¹⁷ in Tons	

¹³ Fill out Worksheet C for each individual HAP emitted for current month
¹⁴ Individually list each material which emits the specific HAP. The materials must match those on Worksheet B.
¹⁵ Record the Individual HAP emissions already calculated for Worksheet B in Tons;
¹⁶ Summation of [Column 2] in Tons;
¹⁷ Running 12-month total of the individual HAP emission = Individual HAP emissions reported for this month for this HAP plus the last consecutive 11 months. A 12-Month individual HAP emissions total (e) of less than the individual HAP's respective emission threshold levels as established in 10 CSR 10-6.060(12)(J) indicates compliance. These emission threshold levels are available in Appendix A.



Appendix A: Table of Hazardous Air Pollutants and Screening Model Action Levels (May 3, 2012 Revision 10)

Chemical	CAS #	SMAL (ton/yr)	Group ID	OC	PM	Chemical	CAS #	SMAL (ton/yr)	Group ID	OC	PM	Chemical	CAS #	SMAL (ton/yr)	Group ID	OC	PM
ACETALDEHYDE	75-07-0	9		Y	N	CARBARYL	63-25-2	10	V	Y	Y	DICHLOROPROPANE, [1,2-]	78-87-5	1		Y	N
ACETAMIDE	60-35-5	1		Y	N	CARBON DISULFIDE	75-15-0	1		Y	N	DICHLOROPROPENE, [1,3-]	542-75-8	1		Y	N
ACETONITRILE	75-05-8	4		Y	N	CARBON TETRACHLORIDE	56-23-5	1		Y	N	DICHLORVOS	62-73-7	0.2		Y	N
ACETOPHENONE	98-86-2	1		Y	N	CARBONYL SULFIDE	463-58-1	5		Y	N	DIETHANOLAMINE	111-42-2	5		Y	N
ACETYLAMINOFLUORINE, [2-]	53-86-3	0.005	V	Y	Y	CATECHOL	120-80-8	5		Y	N	DIETHYL SULFATE	64-67-5	1		Y	N
ACROLEIN	107-02-8	0.04		Y	N	CHLORAMBEN	133-90-4	1		Y	Y	DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	5	P	Y	N
ACRYLAMIDE	79-06-1	0.02		Y	N	CHLORDANE	57-74-8	0.01		Y	Y	DIMETHOXYBENZIDINE, [3,3-]	119-90-4	0.1	V	Y	Y
ACRYLIC ACID	79-10-7	0.8		Y	N	CHLORINE	7782-50-5	0.1		N	N	DIMETHYL BENZIDINE, [3,3-]	119-93-7	0.008	V	Y	Y
ACRYLONITRILE	107-13-1	0.3		Y	N	CHLOROACETIC ACID	79-11-8	0.1		Y	N	DIMETHYL CARBAMOYL CHLORIDE	79-44-7	0.02		Y	N
ALLYL CHLORIDE	107-05-1	1		Y	N	CHLOROACETOPHENONE, [2-]	532-27-4	0.06		Y	N	DIMETHYL FORMAMIDE	68-12-2	1		Y	N
AMINOBIIPHENYL, [4-]	92-67-1	1	V	Y	N	CHLOROBENZENE	108-90-7	10		Y	N	DIMETHYL HYDRAZINE, [1,1-]	57-14-7	0.008		Y	N
ANILINE	62-53-3	1		Y	N	CHLOROBENZILATE	510-15-6	0.4	V	Y	Y	DIMETHYL PHTHALATE	131-11-3	10		Y	N
ANISIDINE, [ORTHO-]	90-04-0	1		Y	N	CHLOROFORM	87-66-3	0.9		Y	N	DIMETHYL SULFATE	77-78-1	0.1		Y	N
ANTHRACENE	120-12-7	0.01	V	Y	N	CHLOROMETHYL METHYL ETHER	107-30-2	0.1		Y	N	DIMETHYLAMINOAZOBENZENE, [4-]	60-11-7	1		Y	N
ANTIMONY COMPOUNDS		5	H	N	Y	CHLOROPRENE	126-99-8	1		Y	N	DIMETHYLANILINE, [N-N-]	121-69-7	1		Y	N
ANTIMONY PENTAFLUORIDE	7783-70-2	0.1	H	N	Y	CHROMIUM (VI) COMPOUNDS		0.002	L	N	Y	DINITRO-O-CRESOL, [4,6-] (Note 6)	534-52-1	0.1	E	Y	Y
ANTIMONY POTASSIUM TARTRATE	28300-74-5	1	H	N	Y	CHROMIUM COMPOUNDS		5	L	N	Y	DINITROPHENOL, [2,4-]	51-28-5	1		Y	N
ANTIMONY TRIOXIDE	1309-84-4	1	H	N	Y	CHRYSENE	218-01-9	0.01	V	Y	N	DINITROTOLUENE, [2,4-]	121-14-2	0.02		Y	N
ANTIMONY TRISULFIDE	1345-04-6	0.1	H	N	Y	COBALT COMPOUNDS		0.1	M	N	Y	DIOXANE, [1,4-]	123-91-1	6		Y	N
ARSENIC COMPOUNDS		0.005	I	N	Y	COKE OVEN EMISSIONS	8007-45-2	0.03	N	Y	N	DIPHENYLHYDRAZINE, [1,2-]	122-88-7	0.09	V	Y	Y
ASBESTOS	1332-21-4	0	A	N	Y	CRESOL, [META-]	108-39-4	1	B	Y	N	DIPHENYLMETHANE DIISOCYANATE, [4,4-]	101-68-8	0.1	V	Y	N
BENZ(A)ANTHRACENE	56-55-3	0.01	V	Y	N	CRESOL, [ORTHO-]	95-48-7	1	B	Y	N	EPICHLOROHYDRIN	106-89-8	2		Y	N
BENZENE	71-43-2	2		Y	N	CRESOL, [PARA-]	106-44-5	1	B	Y	N	ETHOXYETHANOL, [2-]	110-80-5	10	P	Y	N
BENZIDINE	92-67-5	0.0003	V	Y	N	CRESOLS (MIXED ISOMERS)	1319-77-3	1	B	Y	N	ETHOXYETHYL ACETATE, [2-]	111-15-8	5	P	Y	N
BENZO(A)PYRENE	50-32-8	0.01	V	Y	N	CUMENE	98-82-8	10		Y	N	ETHYL ACRYLATE	140-88-5	1		Y	N
BENZO(B)FLUORANTHENE	205-99-2	0.01	V	Y	N	CYANIDE COMPOUNDS		0.1	O	Y	N	ETHYL BENZENE	100-41-4	10		Y	N
BENZO(K)FLUORANTHENE	207-08-9	0.01	V	Y	N	DDE	72-55-9	0.01	V	Y	Y	ETHYL CHLORIDE	75-00-3	10		Y	N
BENZOTRICHLORIDE	98-07-7	0.006		Y	N	D[2-ETHYLHEXYL] PHTHALATE, (DEHP)	117-81-7	5		Y	N	ETHYLENE GLYCOL	107-21-1	10		Y	N
BENZYL CHLORIDE	100-44-7	0.1		Y	N	DIAMINOTOLUENE, [2,4-]	95-80-7	0.02		Y	N	ETHYLENE GLYCOL MONOBUTYL ETHER (Delisted)	111-78-2				
BERYLLIUM COMPOUNDS		0.008	J	N	Y	DIAZOMETHANE	334-88-3	1		Y	N	ETHYLENE GLYCOL MONOHEXYL ETHER	112-25-4	5	P	Y	N
BERYLLIUM SALTS		2E-05	J	N	Y	DIBENZ(A,H)ANTHRACENE	53-70-3	0.01	V	Y	N	ETHYLENE IMINE [AZIRIDINE]	151-56-4	0.003		Y	N
BIPHENYL, [1,1-]	92-52-4	10	V	Y	N	DIOXINS/FURANS		6E-07	D,V	Y	N	ETHYLENE OXIDE	75-21-8	0.1		Y	N
BIS(CHLOROETHYL)ETHER	111-44-4	0.06		Y	N	DIBENZOFURAN	132-84-9	5	V	Y	N	ETHYLENE THIOUREA	98-45-7	0.6		Y	Y
BIS(CHLOROMETHYL)ETHER	542-88-1	0.0003		Y	N	DIBROMO-3-CHLOROPROPANE, [1,2-]	96-12-8	0.01		Y	N	FORMALDEHYDE	50-00-0	2		Y	N
BROMOFORM	75-25-2	10		Y	N	DIBROMOETHANE, [1,2-]	108-93-4	0.1		Y	N	GLYCOL ETHER (ETHYLENE GLYCOL ETHERS)		5	P	Y	N
BROMOMETHANE	74-83-9	10		Y	N	DIBUTYL PHTHALATE	84-74-2	10		Y	Y	GLYCOL ETHER (DIETHYLENE GLYCOL ETHERS)		5	P	Y	N
BUTADIENE, [1,3-]	106-99-0	0.07		Y	N	DICHLOROBENZENE, [1,4-]	108-46-7	3		Y	N	HEPTACHLOR	76-44-8	0.02		Y	N
BUTOXYETHANOL ACETATE, [2-]	112-07-2	5	P	Y	N	DICHLOROBENZIDENE, [3,3-]	91-94-1	0.2	V	Y	Y	HEXACHLOROBENZENE	118-74-1	0.01		Y	N
BUTYLENE OXIDE, [1,2-]	106-88-7	1		Y	N	DICHLOROETHANE, [1,1-]	75-34-3	1		Y	N	HEXACHLOROBUTADIENE	87-98-3	0.9		Y	N
CADMIUM COMPOUNDS		0.01	K	N	Y	DICHLOROETHANE, [1,2-]	107-06-2	0.8		Y	N	HEXACHLOROCYCLOHEXANE, [ALPHA-]	319-84-6	0.01	F	Y	N
CALCIUM CYANAMIDE	156-62-7	10		Y	Y	DICHLOROETHYLENE, [1,1-]	75-35-4	0.4		Y	N	HEXACHLOROCYCLOHEXANE, [BETA-]	319-85-7	0.01	F	Y	N
CAPROLACTAM (Delisted)	105-60-2					DICHLOROMETHANE	75-09-2	10		N	N	HEXACHLOROCYCLOHEXANE, [DELTA-]	319-88-8	0.01	F	Y	N
CAPTAN	133-06-2	10		Y	Y	DICHLOROPHENOXY ACETIC ACID, [2,4-]	94-75-7	10	C	Y	Y	HEXACHLOROCYCLOHEXANE, [TECHNICAL]	608-73-1	0.01	F	Y	N



Appendix A: Table of Hazardous Air Pollutants and Screening Model Action Levels (May 3, 2012 Revision 10)

Chemical	CAS #	SMAL (ton/yr)	Group	Y	N	Chemical	CAS #	SMAL (ton/yr)	Group	Y	N	Chemical	CAS #	SMAL (ton/yr)	Group	Y	N
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.1		Y	N	NITROSODIMETHYLAMINE, [N-]	62-75-9	0.001		Y	N	TRIMETHYLPENTANE, [2,2,4-]	540-84-1	5		Y	N
HEXACHLOROETHANE	67-72-1	5		Y	N	NITROSOMORPHOLINE, [N-]	59-89-2	1		Y	N	URETHANE [ETHYL CARBAMATE]	51-79-9	0.8		Y	N
HEXAMETHYLENE, -1,6-DIISOCYANATE	822-06-0	0.02		Y	N	NITROSO-N-METHYLUREA, [N-]	884-83-5	0.0002		Y	N	VINYL ACETATE	108-05-4	1		Y	N
HEXAMETHYLPHOSPHORAMIDE	680-31-9	0.01		Y	N	OCTACHLORONAPHTHALENE	2234-13-1	0.01	V	Y	N	VINYL BROMIDE	583-60-2	0.6		Y	N
HEXANE, [N-]	110-54-3	10		Y	N	PARATHION	58-38-2	0.1		Y	Y	VINYL CHLORIDE	75-01-4	0.2		Y	N
HYDRAZINE	302-01-2	0.004		N	N	PCB [POLYCHLORINATED BIPHENYLS]	1338-36-3	0.009	X	Y	Y	XYLENE, [META-]	108-38-3	10	G	Y	N
HYDROGEN CHLORIDE	7847-01-0	10		N	N	PENTACHLORONITROBENZENE	82-88-8	0.3		Y	N	XYLENE, [ORTHO-]	95-47-6	10	G	Y	N
HYDROGEN FLUORIDE	7884-38-3	0.1		N	N	PENTACHLOROPHENOL	87-86-5	0.7		Y	N	XYLENE, [PARA-]	108-42-3	10	G	Y	N
HYDROQUINONE	123-31-9	1		Y	N	PHENOL	108-85-2	0.1		Y	N	XYLENES (MIXED ISOMERS)	1330-20-7	10	G	Y	N
INDENO(1,2,3CD)PYRENE	183-39-5	0.01	V	Y	N	PHENYLENEDIAMINE, [PARA-]	106-50-3	10		Y	N						
ISOPHORONE	78-59-1	10		Y	N	PHOSGENE	75-44-5	0.1		Y	N						
LEAD COMPOUNDS		0.01	Q	N	Y	PHOSPHINE	7803-51-2	5		N	N						
LINDANE [GAMMA-HEXACHLOROCYCLOHEXANE]	58-89-9	0.01	F	Y	N	PHOSPHOROUS (YELLOW OR WHITE)	7723-14-0	0.1		N	N	Legend					
MALEIC ANHYDRIDE	108-31-6	1		Y	N	PTHALIC ANHYDRIDE	85-44-9	5		Y	N	Group ID	Aggregate Group Name				
MANGANESE COMPOUNDS		0.8	R	N	Y	POLYCYCLIC ORGANIC MATTER		0.01	V	Y	N	A	Asbestos				
MERCURY COMPOUNDS		0.01	S	N	N	PROPANE SULFONE, [1,3-]	1120-71-4	0.03		Y	Y	B	Cresols/Cresylic Acid (isomers and mixtures)				
METHANOL	67-56-1	10		Y	N	PROPIOLACTONE, [BETA-]	57-57-8	0.1		Y	N	C	2,4 - D, Salts and Esters				
METHOXYCHLOR	72-43-5	10	V	Y	Y	PROPIONALDEHYDE	123-38-6	5		Y	N	D	Dibenzofurans, Dibenzodioxins				
METHOXYETHANOL, [2-]	109-86-4	10	P	Y	N	PROPOXUR [BAYGON]	114-26-1	10		Y	Y	E	4,6 Dinitro-o-cresol, and Salts				
METHYL CHLORIDE	74-87-3	10		Y	N	PROPYLENE OXIDE	75-56-9	5		Y	N	F	Lindane (all isomers)				
METHYL ETHYL KETONE (Delisted)	78-93-3					PROPYLENEIMINE, [1,2-]	75-55-6	0.003		Y	N	G	Xylenes (all isomers and mixtures)				
METHYL HYDRAZINE	60-34-4	0.08		Y	N	QUINOLINE	91-22-5	0.008		Y	N	H	Antimony Compounds				
METHYL IODIDE	74-88-4	1		Y	N	QUINONE	108-51-4	5		Y	N	I	Arsenic Compounds				
METHYL ISOBUTYL KETONE	108-10-1	10		Y	N	RADIONUCLIDES		Note 1	Y	N	Y	J	Beryllium Compounds				
METHYL ISOCYANATE	624-83-9	0.1		Y	N	SELENIUM COMPOUNDS		0.1	W	N	Y	K	Cadmium Compounds				
METHYL METHACRYLATE	80-62-6	10		Y	N	STYRENE	100-42-5	1		Y	N	L	Chromium Compounds				
METHYL TERT-BUTYL ETHER	1634-04-4	10		Y	N	STYRENE OXIDE	98-09-3	1		Y	N	M	Cobalt Compounds				
METHYLCYCLOPENTADIENYL MANGANESE	12108-13-3	0.1	R	N	Y	TETRACHLORODIBENZO-P-DIOXIN [2,3,7,8]	1746-01-6	6E-07	D,V	Y	Y	N	Coke Oven Emissions				
METHYLENE BIS(2-CHLOROANILINE), [4,4-]	101-14-4	0.2	V	Y	Y	TETRACHLOROETHANE, [1,1,2,2-]	79-34-5	0.3		Y	N	O	Cyanide Compounds				
METHYLENEDIANILINE, [4,4-]	101-77-9	1	V	Y	N	TETRACHLOROETHYLENE	127-18-4	10		N	N	P	Glycol Ethers				
METHYLNAPHTHALENE, [2-]	91-57-8	0.01	V	Y	N	TITANIUM TETRACHLORIDE	7550-45-0	0.1		N	N	Q	Lead Compounds (except elemental Lead)				
MINERAL FIBERS		0	T	N	Y	TOLUENE	108-88-3	10		Y	N	R	Manganese Compounds				
NAPHTHALENE	91-20-3	10	V	Y	N	TOLUENE DIISOCYANATE, [2,4-]	584-84-9	0.1		Y	N	S	Mercury Compounds				
NAPHTHYLAMINE, [ALPHA-]	134-32-7	0.01	V	Y	N	TOLUIDINE, [ORTHO-]	95-53-4	4		Y	N	T	Fine Mineral Fibers				
NAPHTHYLAMINE, [BETA-]	91-59-8	0.01	V	Y	N	TOXAPHENE	8001-35-2	0.01		Y	N	U	Nickel Compounds				
NICKEL CARBONYL	13463-39-3	0.1	U	N	Y	TRICHLOROENZENE, [1,2,4-]	120-82-1	10		Y	N	V	Polycyclic Organic Matter				
NICKEL COMPOUNDS		1	U	N	Y	TRICHLOROETHANE, [1,1,1-]	71-55-6	10		N	N	W	Selenium Compounds				
NICKEL REFINERY DUST		0.08	U	N	Y	TRICHLOROETHANE, [1,1,2-]	78-00-5	1		Y	N	X	Polychlorinated Biphenyls (Aroclors)				
NICKEL SUBSULFIDE	12035-72-2	0.04	U	N	Y	TRICHLOROETHYLENE	78-01-6	10		Y	N	Y	Radionuclides				
NITROBENZENE	98-95-3	1		Y	N	TRICHLOROPHENOL, [2,4,5-]	95-95-4	1		Y	N						
NITROBIPHENYL, [4-]	92-83-3	1	V	Y	N	TRICHLOROPHENOL, [2,4,6-]	88-08-2	6		Y	N						
NITROPHENOL, [4-]	100-02-7	5		Y	N	TRITHYLAMINE	121-44-8	10		Y	N	Note 1	The SMAL for radionuclides is defined as the effective dose equivalent to 0.3 millirems per year for 7 years exposure associated with a cancer risk of 1 in 1 million				
NITROPROPANE, [2-]	79-48-9	1		Y	N	TRIFLURALIN	1582-09-6	9		Y	Y						



**AIR POLLUTION CONTROL PROGRAM
APPLICATION FOR AUTHORITY TO CONSTRUCT
PERMIT BY RULE NOTIFICATION
SURFACE COATING OPERATIONS**

INSTRUCTIONS

By submitting your notification you are accepting all conditions and terms stated in this form. If you find the special conditions listed in Section B unacceptable, you may choose to submit a construction permit application and undergo a case-by-case review.

Please refer to the following line-by-line instructions to complete the notification. The notification, along with the \$700.00 fee, should be mailed to:

Air Pollution Control Program
Permit-By-Rule
P.O. Box 176
Jefferson City, Missouri 65102

You must also retain a copy of the notification at the installation, and make it immediately available to any inspector.

Once the fee and notifications have been mailed or hand-delivered, you are free to begin construction of your project under the special conditions that you have accepted.

The Air Pollution Control Program will send you a letter acknowledging receipt of your notification with a permit number and a project number for agency tracking purposes.

A copy of this electronic package may be obtained from the Department of Natural Resource Air and Land Protection Division's web site at: <http://dnr.mo.gov/forms/>

If you have any questions about the notification form or the permit-by-rule notification procedure please feel free to contact the Permit Section at (573) 751-4817.

NOTIFICATION FORM INSTRUCTIONS

1. **Installation Name:** Enter the official company name and/or plant designation for the installation that is making the permit-by-rule notification.
2. **FIPS Number:** Enter the official FIPS Number (3 digit code) which corresponds to the county name for the county in which the installation is located. Please refer to <https://www.census.gov/geo/reference/codes/cou.html> for a listing. The FIPS number in combination with the Plant Number provides the identification/tracking information for the installation in the State/Federal databases.
3. **Plant Number:** Enter the official Plant Number that has been assigned to the installation by the respective State or Local Agencies. If you do not know your plant number, please leave blank.
4. **Installation Street Address:** Enter the street address of the physical location of installation.
5. **Installation Mailing Address:** Enter the mailing address if that address is different from the street address.
6. **City, State and Zip Code:** Enter the City, State and Zip Code of the physical location of the installation.
7. **County:** Enter the county in which the installation is located.
8. **Section, Township, Range:** Enter the appropriate information on the Section, Township and Range in which the installation is located.
9. **Parent Company:** Complete this block if this installation is totally or partially owned by another company.
10. **Parent Company Mailing Address:** Complete this block if this installation is totally or partially owned by another company.
11. **Parent Company City, State and Zip Code:** Complete these blocks if this installation is totally or partially owned by another company.
12. **Installation Contact Person:** Enter the name of the person who is most familiar with the operations of the installation and who can answer any questions regarding information about the installation.
13. **Contact Person's Title:** Enter the title of the contact person.
14. **Contact Person's Mailing Address:** Enter the mailing address for the Contact Person.
15. **Installation Contact Person's Telephone Number:** Enter the Contact Person's telephone number.
16. **Installation Contact Person's Fax Number:** Enter the Contact Person's fax number.
17. **Installation Contact Person's E-Mail Address:** Enter the Contact Person's e-mail address.

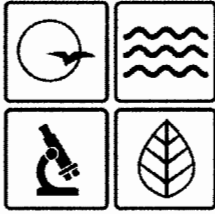


**AIR POLLUTION CONTROL PROGRAM
APPLICATION FOR AUTHORITY TO CONSTRUCT
PERMIT BY RULE NOTIFICATION
SURFACE COATING OPERATIONS**

18. **Projected Date to Commence Construction:** Enter the date you intend to commence construction of your installation.
19. **Projected Date of Operation Startup:** Enter the date you plan to begin operation with the installation.
20. **Project Description:** Enter in the specific equipment being installed as part of the permit-by-rule and the principal activity that is being performed by the equipment.
21. **Signature of Responsible Official:** Enter the signature of the installation's official, certifying that the notification is accurate and complete. Notifications without a signed certification are not considered complete. A responsible official is:
- 1) The president, secretary, treasurer or vice-president of a corporation in charge of a principal business function, or any other person who performs similar policy and decision-making functions for the corporation or a duly authorized representative of this person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either-
 - i. The facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding twenty-five million dollars (in second quarter 1980 dollars); or
 - ii. The delegation of authority to his representative is approved in advance by the permitting authority.
 - 2) A general partner in a partnership or the proprietor in a sole proprietorship.
 - 3) Either a principal executive officer or a ranking elected official in a municipality, state, federal, or other public agency. For the purpose of this
 - 4) part, a principal executive officer of a federal agency includes the chief executive officer having responsibility for the operations of a principal geographic unit of the agency; or
 - 5) The designated representative of an affected source insofar as actions, standards, requirements or prohibitions under Title IV of the Clean Air Act or the regulations promulgated under the Act are concerned or the designated representative for any purposes under Part 70.
22. **Date:** Enter the date that the Signature of the Responsible Official was obtained.
23. **Type or Print Name of Responsible Official:** Type or print the name of the Responsible Official signing in item 21.
24. **Responsible Official's Telephone Number:** Enter the telephone number where the Responsible Official may be contacted who signed in item 21.
25. **Title of Responsible Official:** Enter the official title of the Responsible Official from item 21.

Requested supplemental materials to include with application:

- A copy of the manufacturer's specification for the equipment being installed.
- Emission estimates



Missouri Department of dnr.mo.gov

NATURAL RESOURCES

Eric R. Greitens, Governor

Carol S. Comer, Director

MAR 03 2017

Mr. Adam Barksdale
Member/Owner
Etched, LLC
4351 Clary Boulevard
Kansas City, MO 64130

RE: New Source Review Permit, Permit by Rule
Project Number: 2017-01-039
Facility ID Number: 095-0392

Dear Mr. Barksdale:

Enclosed with this letter is your permit to construct. The entire permit must be retained in your files. Please review your permit carefully. 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. *Section A: General Notification Information* and *Section B: Special Conditions* are part of your permit. *Section C: Other Potentially Applicable Requirements* of your original application should be replaced with the attached pages, a revised Section C. The application forms located on our website, specifically Section C, contain outdated rule references. Many of the rules for certain geographical areas have been rescinded and consolidated into state-wide rules. The attached Section C has been revised to reflect the current applicable rules. In addition, the worksheets contained in the permit-by-rule application for surface coating have been updated to include more complete instructions. Please use these in lieu of the original worksheets provided in the application.

Operation in accordance with these conditions is necessary for continued compliance. An on-site compliance inspection will be performed at a later date, to validate your statements and conditions claimed on the permit by rule notification. 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>.



Mr. Adam Barksdale

Page Two

If you have any questions regarding this permit, please do not hesitate to contact me at (573) 751-4817, or you may write to me at the Department of Natural Resources' Air Pollution Control Program, P.O. Box 176, Jefferson City, Missouri 65102. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall B. Hale

Kendall Hale, P.E.
Permits Section Chief

KH:shj

Enclosures

c: Kansas City Regional Office
PAMS File: 2017-01-039

Permit Number: **032017-001**