Air Quality Division
1001 N. Central Ave,
Phoenix, Arizona 85004-1942
Phone: (602) 506-6094
Fax: (602) 506-6985
TTY: (602) 506-6704
Web Site: http://www.maricopa.gov/sbeap

Maricopa County
Environmental Services Department

INSTRUCTIONS
APPLICATION FOR NON-TITLE V AIR QUALITY PERMIT

Use this form for applying for a non-title V air quality permit for an entire facility. Do not use it for amending prior applications, for adding additional pieces of equipment at existing facilities, etc.

Complete the application by typing or printing legibly. The submitted application and documents become the property of the Maricopa County Environmental Services Department (Department) and will not be returned. All submitted documents will be available to the public unless a notice of confidentiality has been submitted by the applicant in accordance with Arizona Revised Statutes (ARS) §49-487 and accepted by the Department in accordance with Maricopa County Air Pollution Control Regulations, Rules 100 and 200. If confidentiality is claimed pursuant to ARS §49-487, a fully completed application with confidential information clearly identified along with a separate copy of the application for public review without the confidential information and a written justification for the confidentiality claimed must be submitted. For a facility without a valid, Department issued, air quality permit, a $350.00 application fee must accompany the application. For a permit renewal application, an application fee is not required. The applicant will be billed at a later date for any additional applicable fees. If the application is submitted as a result of receiving a notice of violation (NOV), an additional $70.00 late fee must accompany the application. Once the permit is issued, the Permittee will be billed an annual administrative fee per Department Rule 280 (Fees). For questions regarding billing, call the Department Business Services Division at (602) 506-6464.

Attach manufacturers' drawings and specifications whenever available. If necessary, attach additional sheets to the application to provide all required information. Please submit the application by completing the attached original forms.

In addition, there is no longer a fee required for submitting an administrative permit amendment, a permit transfer or a performance test protocol.

The Maricopa County Air Pollution Control Regulations are available at the above address or may be viewed and/or downloaded from our web site. You may contact the Department by telephone at (602) 506-6816 or (602) 506-6464, or, for other information and costs, visit our web site at http://www.maricopa.gov/envsvc/Airqual.asp.

For assistance in completing the application package small businesses may contact the **Small Business Environmental Assistance Program** at (602) 506-6750 or http://www.maicopa.gov/sbeap.

In lieu of a Non-Title V Air Quality Permit, your facility may be eligible for an Authority to Operate (ATO) under a General Permit. Facilities that may be eligible for a General Permit include **dry cleaning facilities, graphic arts printing operations, gasoline dispensing operations, surface coating operations, vehicle and mobile equipment refinishing operations, and external fuel burning equipment that uses gaseous fuels.** To see if your facility qualifies for an Authority to Operate under a General Permit, refer to pages two through four of these instructions. For more information about an ATO under a General Permit, please visit our web site or call Diana Niño at (602) 506-6094.

Do not use this application form for applying for an ATO under a general permit. Also, do not use this application form for applying for a Title V Air Quality Permit. Separate application packages are available for these purposes.

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GENERAL PERMIT ELIGIBILITY

DRY CLEANING:

The General Permit for dry cleaning operations does not cover facilities that are coin operated, or include any transfer machines or separate washer and dryer machines.

Dry cleaning facilities that meet all of the following criteria are eligible for a General Permit:

- Use perchloroethylene and/or petroleum solvents, so long as the facilities:
  - Include only new and/or existing dry-to-dry machines;
  - Consume less than 2,100 gallons of perchloroethylene per twelve-month period; and
  - Consume less than 6,800 gallons of petroleum solvents per twelve-month period.

- Operate fuel burning equipment that:
  - Burns only natural gas, propane, or butane; and where
  - Each piece is rated less than 10 million Btu per hour; and
  - The combine heat input rating for all fuel burning equipment (excluding internal combustion engines) is less than 36 million Btu per hour.

GRAPHIC ARTS OPERATIONS:

Graphic arts facilities that meet all of the following criteria are eligible for a General Permit:

- Have a combination of printing presses with greater than 500 square inches (3,226 cm^2) of impression area or any press employing more than two units per printing press. "Units" means the number of printing surfaces.
- Emit less than 25 tons per calendar year and less than 4,200 pounds per month of volatile organic compounds (VOCs) from the facility, including but not limited to combined graphic arts, solvent use and boiler operations.
- Do not use an emissions control system (ECS) to control solvent emissions.
- Do not conduct any other operations requiring an air quality permit other than printing operations, fuel burning, and having an emergency generator.

GASOLINE DISPENSING OPERATIONS:

Gasoline dispensing operations which meet all of the following criteria are eligible for a General Permit:

- Do not conduct any other activities at the site requiring an air quality permit.
- Do not have an obstruction at the bottom of the fill pipe that prevents the measurement of how far the end of the fill pipe is from the bottom of the tank (overfill protection flappers are OK).
- Each gasoline tank must have its own vapor return line to return the vapors to the tanker truck if Stage I vapor recovery is required.
- The monthly and annual throughputs of gasoline are less than those listed in the table below:

Controls	Maximum Monthly Limit	Rolling Twelve-Month Limit
Uncontrolled (Non-resale)	10,000 gallons	120,000 gallons
Stage I Vapor Recovery	160,000 gallons	1,920,000 gallons
Stage I and II Vapor Recovery	740,000 gallons	8,880,000 gallons

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SURFACE COATING OPERATIONS:

The General Permit for surface coating operations encompasses facilities that apply surface coatings to various types of material. In addition, the facility may also have fuel burning equipment, solvent cleaners and abrasive blasting equipment. In order to qualify for the General Permit, all of the following criteria must be met:

- The facility must coat any of the following: cans, metal furniture, large appliances, fabric, film, plastic parts and products, paper, and vinyl, other metal parts and products; **or** the facility must conduct the following coating operations: air-dried, baked, silicone release and strippable booth.
- Coating must be conducted in a manner such that the requirements of County Rule 315 are met.
- The General Permit does not apply to facilities that are not more specifically regulated by a County Rule, other than Rule 336, within Rule 300 to 359 of Regulation III. For example, the General Permit does not cover the following operations:
    - Aerospace coating operations (Rule 348)
    - Architectural coating, including buildings and erected structures (Rule 335)
    - Marine vessel exterior refinishing
    - Polyester coatings applied to polyester composites
    - Printing and graphic arts coatings (Rule 337)
    - Semiconductor manufacturing (Rule 338)
    - Coating a highway vehicle or mobile equipment (Rule 345)
    - Coating wood furniture (Rule 342)
    - Coating wood millwork (Rule 346)
- The General Permit does not apply to facilities that utilizes a VOC control device.
- The General Permit does not apply to facilities that are subject to any New Source Performance Standards (NSPS) or Maximum Available Control Technology (MACT).
- The General Permit does not apply to facilities that conduct powder coating operations.
- The General Permit does not apply to facilities that use a burn off oven.
- The combined use of coatings, solvents, and cleaning materials are less than 375 gallons per month and less than 4,500 gallons per twelve-month period.
- If fuel burning equipment is used, each piece of equipment must be rated less than 10 million Btu per hour, and must use natural gas, propane, or butane for fuel. The combined total of all equipment with a rating greater than 300,000 Btu per hour must be less than 60 million Btu per hour.
- If abrasive blasting equipment is used, the blast enclosure must not use forced air exhaust.
- For solvent cleaning operations (other than gun cleaning machines), the general permit does not apply if you utilize a vapor degreaser, conveyorized degreaser or other type of degreaser other than an unheated, non-conveyorized, small, cold cleaning unit with or without a remote reservoir. These cleaning operations must meet the requirements of County Rule 331 “Solvent Cleaning”, Section 305.1 and/or Section 305.2.

VEHICLE AND MOBILE EQUIPMENT REFINISHING OPERATIONS:

The General Permit for refinishing of vehicles and/or mobile equipment encompasses facilities that paint vehicles and/or mobile equipment. In addition, the facility may also have fuel burning equipment, solvent cleaners and gasoline tanks. In order to qualify for the General Permit, all of the following limits must be met:

- The use of coatings, solvents, and cleaning materials combined can not exceed 500 gallons per month and 6,000 gallons per any twelve consecutive months;

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- For solvent cleaning operations (other than gun cleaning machines), the general permit does not apply if you utilize a vapor degreaser, conveyorized degreaser or other type of degreaser other than an unheated, non-conveyorized, small, cold cleaning unit with or without a remote reservoir. These cleaning operations must meet the requirements of MCBAPC Rule 331 "Solvent Cleaning", Section 305.1 and/or Section 305.2.
- Each item of fuel burning equipment must be rated less than 10,000,000 btu/hr and only burn natural gas, propane or butane.
- For a non-retail gasoline dispensing operation, the facility may not exceed 120,000 gallons of throughput for any twelve consecutive months.

EXTERNAL FUEL BURNING OPERATIONS:

External fuel burning operations which meet all of the following criteria are eligible for a General Permit:

- External fuel burning is the only activity at the site requiring an air quality permit;
- The fuel burning equipment only uses natural gas, propane or butane as fuel;
- The maximum heat input rating for any single piece of equipment at the site is less than 10 million Btu per hour;
- The maximum combined heat input ratings for all fuel burning equipment (excluding internal combustion engines) at the facility as a whole is less than 60 million Btu per hour; and
- Any internal combustion engines on the site are less than 260 horsepower and are used only for emergency purposes (i.e. backup generators) and are never used for peak shaving purposes.

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FOR OFFICIAL USE ONLY
DATE RECEIVED
LOG NUMBER

APPLICATION FOR NON-TITLE V AIR QUALITY PERMIT

(As required by A.R.S. §49-480 and Maricopa County Air Pollution Control Regulations, Rule 200)

READ INSTRUCTIONS FIRST. ALL APPLICANTS MUST COMPLETE ITEMS 1 THROUGH 16. ALSO COMPLETE EACH APPLICABLE SECTION A THROUGH Z.

1. BUSINESS NAME:	DO NOT WRITE IN THIS SPACE AIRS IDENTIFICATION NUMBERS
2. IS THIS A PORTABLE SOURCE ? ☐ YES (IF YES, PROVIDE THE CURRENT SITE INFORMATION IN ITEMS 2a, 3, AND 3a) ☐ NO (COMPLETE ITEMS 2a, 3, AND 3a)	
2.a ADDRESS OF SITE: AZ ZIP CODE:	
3. CONTACT PERSON AT SITE:	3a. TELEPHONE AT SITE:
4. TYPE OF OWNERSHIP: ☐ Corporation ☐ Partnership ☐ Sole Owner ☐ Government ☐ Other - - Specify:	
5. NAME AND MAILING ADDRESS OF OWNERSHIP:	
6. CONTACT PERSON OF OWNERSHIP:	6a. TELEPHONE: 6b. FAX:
7. SEND ALL CORRESPONDENCE INCLUDING INVOICE AND PERMIT TO: COMPANY NAME: ADDRESS: CITY: STATE: ZIP CODE: ATTN:	
8. SIC(STANDARD INDUSTRIAL CLASSIFICATION) CODE(S):	9. RENEWAL APPLICATION? YES ☐ NO ☐ IF YES: ENTER THE EXISTING AIR QUALITY PERMIT NUMBER FOR THIS SITE:
10. BRIEF DESCRIPTION OF BUSINESS/PROCESS AT SITE:	
11. OPERATING SCHEDULE: HOURS PER DAY	DAYS PER WEEK / WEEKS PER YEAR

12. THE AUTHORIZED CONTACT PERSON REGARDING THIS APPLICATION IS:

NAME _____ TELEPHONE: _____

TITLE _____ FAX: _____

COMPANY _____ E-MAIL: _____

13. I CERTIFY THAT I AM FAMILIAR WITH THE OPERATIONS AND EQUIPMENT REPRESENTED ON THIS APPLICATION AND ATTACHMENTS AND THE INFORMATION PROVIDED HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE _____ SIGNATURE OF OWNER OR RESPONSIBLE OFFICIAL OF BUSINESS _____

TYPE OR PRINT NAME AND TITLE _____

14. SITE DIAGRAM: ATTACH A SITE LAYOUT SHOWING DISTANCES TO PROPERTY LINES, EQUIPMENT, CONTROLS, DUCTS, STACKS AND EMISSION POINTS. ALSO SHOW STORAGE AREAS FOR FUELS, RAW MATERIALS, CHEMICALS, FINISHED PRODUCTS, WASTE MATERIALS, ETC.

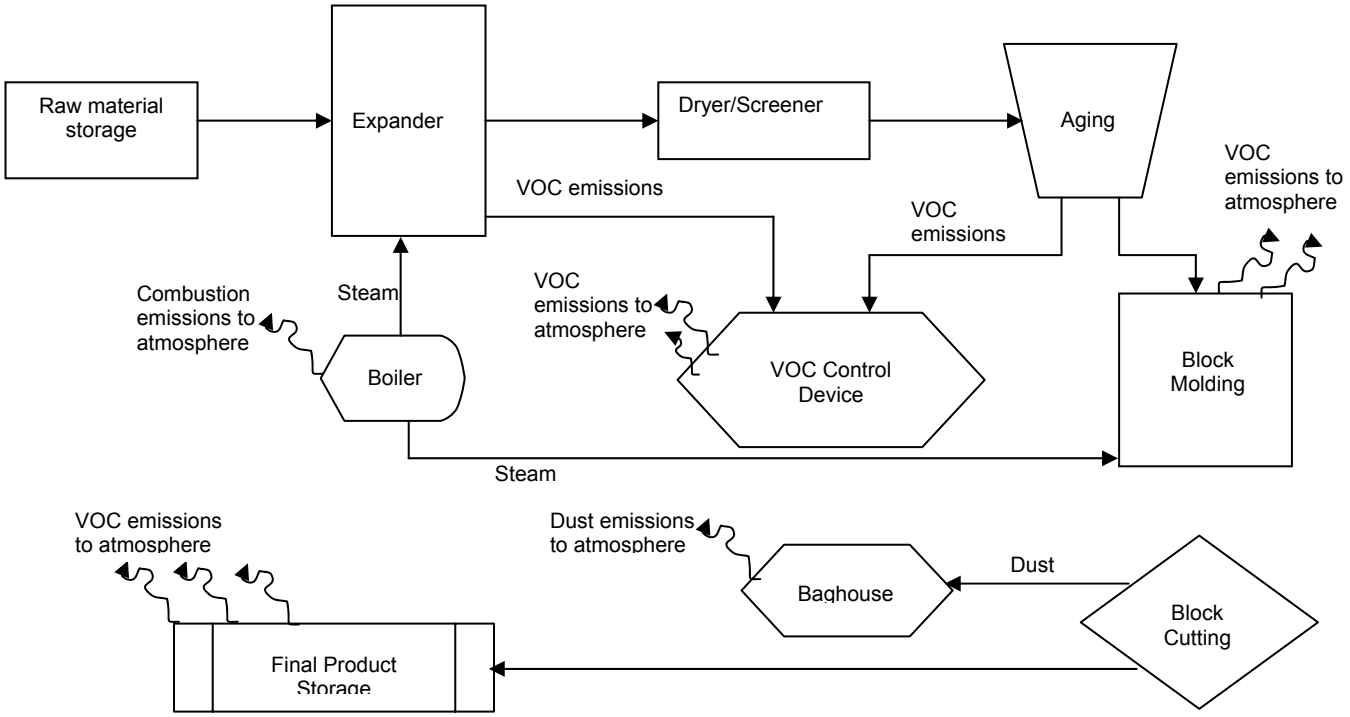
15. OPERATION & MAINTENANCE (O&M) PLAN(S): O&M PLANS ARE REQUIRED FOR ANY PROCESS THAT VENTS EMISSIONS THROUGH A CONTROL DEVICE AND INCLUDES BOTH ADD ON CONTROL TYPE EQUIPMENT OR PROCESSES WHOSE CONTROLS ARE INTEGRATED INTO THE DESIGN OF THE PROCESS EQUIPMENT. INDICATE IF YOUR FACILITY HAS SUCH CONTROL DEVICES (THE LIST BELOW IS NOT AN INCLUSIVE LIST OF CONTROL DEVICES).

EQUIPMENT	NO	YES	HOW MANY?
BAGHOUSE	☐	☐	_____
DUST COLLECTOR / FILTER	☐	☐	_____
INCINERATION SYSTEM (E.G., CATALYTIC OR THERMAL OXIDIZER , AFTER BURNER, BOILER, PROCESS HEATER, FLARE) - SPECIFY:_____	☐	☐	_____
SCRUBBER	☐	☐	_____
ADSORPTION UNIT (E.G., RESIN, CARBON FILTER, OTHER) – SPECIFY:_____	☐	☐	_____
ABSORPTION UNIT	☐	☐	_____
OTHER (specify):_____	☐	☐	_____

IF YOU CHECKED YES TO ANY OF THESE BOXES, ATTACH A SEPARATE O&M PLAN FOR EACH CONTROL DEVICE. THE O&M PLAN SHOULD DESCRIBE KEY SYSTEM OPERATING PARAMETERS AND APPROPRIATE OPERATING RANGES FOR THESE PARAMETERS. FOR NEW EQUIPMENT OR PROCESSES, PROVIDE AN EDUCATED ESTIMATE OF THE RANGES OF ANY PARAMETERS TO BE MONITORED. THESE RANGES SHOULD BE SUPPORTED WITH MANUFACTURER'S TEST DATA OR OTHER MANUFACTURER'S DATA FROM ENGINEERING CALCULATIONS AND/OR EXPERIENCE WITH THE EQUIPMENT. IN ADDITION, O&M PLANS SHOULD BE PREPARED IN ACCORDANCE WITH MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT - OPERATION AND MAINTENANCE (O&M) PLAN GUIDELINES. A COPY OF THESE GUIDELINES CAN BE OBTAINED ON OUR WEB SITE AT http://www.maricopa.gov/envsvc/AIR/permits/O&M.PDF OR BY CONTACTING DIANA NINO AT (602) 506-6094. MULTIPLE CONTROL DEVICES CAN BE COMBINED IN A SINGLE O&M PLAN PROVIDING THEY ARE IDENTICAL IN TYPE, CAPACITY, AND USE. A SEPARATE O&M PLAN IS REQUIRED FOR EACH DEVICE THAT IS UNIQUE IN TYPE, CAPACITY, OR USE.

16. PROCESS FLOW DIAGRAM: ATTACH A FLOW DIAGRAM WHICH INDICATES HOW PROCESSES/ACTIVITIES ARE CONDUCTED AT THE FACILITY. BEGIN WITH RAW MATERIALS AND SHOW EACH STEP IN THE PRODUCTION PROCESS. ALSO INDICATE EMISSIONS CONTROL DEVICES AND ALL EMISSION POINTS. AN EXAMPLE PROCESS FLOW DIAGRAM IS PROVIDED BELOW.

EXAMPLE PROCESS FLOW DIAGRAM



SECTION A. FUEL BURNING EQUIPMENT

Complete this section if you burn natural gas, propane, butane, fuel oils, diesel, kerosene, gasoline, fuel oil blended with used oil, coal, charcoal, wood, or any other fossil fuel. Provide complete specifications for non-commercial and special fuels. Describe equipment such as boilers, furnaces, space heaters, water heaters, dryers, pool and spa heaters, kilns, ovens, burners, stoves, steam cleaners, hot water pressure washers, etc, with an input rating of 300,000 Btu/hr or more. List on separate lines all equipment with differing input Btu/hour ratings. Do not include vehicles, forklifts, lawnmowers, weedeaters and hand-held equipment operating on fossil fuels. Items such as asphalt kettles, incinerators, crematories, and emission control devices burning fuel are not to be listed in this section but shall be described in Section Y. Internal combustion engines and gas turbines are to be listed in Section B.

FUEL	EQUIPMENT DESCRIPTION. INCLUDE MAKE & MODEL. DESCRIBE AIR POLLUTION ABATEMENT/CONTROLS, IF ANY	DATE OF INSTALLATION	HOW MANY	NUMBER OF HOURS IN OPERATION DAILY	NUMBER OF HOURS IN OPERATION ANNUALLY	GROSS INPUT RATING (EACH) (Btu/hr or MM Btu/hr) MM Btu/hr = 10^6 Btu/hr
DO YOU INTEND TO BURN USED OIL, USED OIL FUEL, HAZARDOUS WASTE, OR HAZARDOUS WASTE FUEL?						

SECTION B. INTERNAL COMBUSTION ENGINES & TURBINES

This section applies to stationary and portable fuel-fired equipment such as generators, fire pumps, air conditioning compressor engines, co-generation units, etc. Indicate in the description if the equipment is only for emergency use. Attach engine emission factors or emissions data, and specification sheets from manufacturer. Provide load factor data from manufacturer if applicable. Do not include vehicles, forklifts, lawnmowers, weedeaters and hand-held equipment operating on fossil fuels.

FUEL	EQUIPMENT DESCRIPTION. INCLUDE MAKE & MODEL. DESCRIBE AIR POLLUTION ABATEMENT/CONTROLS, IF ANY	DATE OF INSTALLATION	HOW MANY	NUMBER OF HOURS IN OPERATION DAILY	NUMBER OF HOURS IN OPERATION ANNUALLY	EQUIPMENT RATING (Btu/hr, h.p. or other rating)

SECTION C. PETROLEUM STORAGE TANKS

This section applies to storage of gasoline and other fuels which have a true vapor pressure of 1.5 psia (77.6 mm of mercury) or greater under actual loading conditions. Petroleum terminals and bulk plants must use Section Y instead of this section. Storage tanks containing liquids with a vapor pressure less than 1.5 psia (other than fuels, such as non-petroleum organic liquids, caustic solutions, acids, etc.) must use Section Y.

1. DESCRIBE TANKS AND PRODUCTS STORED:

HOW MANY	CAPACITY OF EACH TANK	DATE OF INSTALLATION	ABOVE GROUND OR UNDERGROUND	PRODUCT STORED

2. ESTIMATE TOTAL ANNUAL THROUGHPUT FOR EACH PRODUCT STORED IN THESE TANKS (GALLONS/YEAR):

_____ _____

_____ _____

3. RETAIL ☐
   NON-RETAIL ☐

4. EMISSION CONTROLS: STAGE ONE VAPOR RECOVERY: 2-POINT ☐ COAXIAL ☐ Y/WYE
   STAGE II ☐
   NONE ☐

5. SUBMERGED FILL ☐
   BOTTOM FILL ☐
   OTHER ☐ SPECIFY _____

6. ARE THERE ANY DEVICES OR PROTRUSIONS IN THE PRODUCT FILL PIPE, SUCH AS THEFT OR OVERFILL PREVENTION DEVICES WHICH IMPAIR OR PREVENT MEASURING THE FILL SLEEVE RELATIVE TO THE BOTTOM OF THE TANK? ☐ YES ☐ NO
   IF YES, DESCRIBE:

SECTION D. WATER & SOIL REMEDIATION

This section applies to any site where clean-up activities for contaminated soil or water will be conducted.

1. TYPE OF CONTAMINANT: ☐ DIESEL ☐ GASOLINE ☐ OTHER, SPECIFY _____

2. CONTAMINATED MATERIAL: ☐ SOIL _____ CUBIC YARDS ☐ WATER _____ GALLONS

3. CONCENTRATION OF EACH CONTAMINANT: _____ (specify unit of measure)

4. OTHER AGENCIES NOTIFIED: ☐ CITY OF _____
   ☐ ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

5. BRIEFLY DESCRIBE PROCEDURE: _____

6. ESTIMATE INITIAL TOTAL VOC EMISSION RATES: BEFORE CONTROL DEVICE: _____ LB/DAY; _____ LB/HR
   IF POLLUTION CONTROL SYSTEM IS USED, AFTER CONTROL DEVICE: _____ LB/DAY; _____ LB/HR

7. ESTIMATE LENGTH OF TIME FOR COMPLETION OF THIS PROJECT: _____ MONTHS

8. DESCRIBE TYPE AND EFFICIENCY OF CONTROLS FOR AIR EMISSIONS:
   (Use separate page if necessary _____

9. PROVIDE PROJECTED START-UP AND COMPLETION DATES: _____

10. ATTACH FULL DETAILS OF SCOPE OF WORK, TREATMENT PROCEDURES, SPECIFICATIONS, TEST RESULTS, AND PLAN FOR CLOSURE.

SECTION E-1. SPRAY PAINTING & OTHER SURFACE COATING
(NON-VEHICLE).

YOUR FACILITY MAY NOT REQUIRE A NON-TITLE V PERMIT IF THE FACILITY IS ELIGIBLE TO OBTAIN AN AUTHORITY TO OPERATE (ATO) UNDER A GENERAL PERMIT (REFER TO PAGE 3 OF THE INSTRUCTION TO DETERMINE ELIGIBILITY).

This section applies to but is not limited to: spray painting, powder coating, dipping, ultrasound coating and roller, brush and wipe applications. In response to items 1 and 2, list all materials used in painting or coating operations, including but not limited to: paints, primers, clear coats, catalysts, thinners, reducers, accelerators, retarders, paint strippers, gun cleaners, cleaning solvents, stains, plastic coatings, adhesives and surface preparation materials. For each material listed, provide manufacturer's technical data sheet or material safety data sheet (MSDS) and number them to correspond to the table below. Use Section E-2 for vehicle spray painting operations.

1. LIST ALL LIQUID MATERIALS:

MSDS NUMBER	NAME/TYPE OF MATERIAL (ATTACH MSDS)	ESTIMATED USAGE (gal/yr)	VOC CONTENT (lb/gal)	GAL/YR RECLAIMED OR SHIPPED AS WASTE	VOC EMISSIONS (lb/yr)

2. LIST ALL POWDER COATING MATERIALS:

NAME/TYPE – ATTACH MSDS OR SPECIFICATIONS	ESTIMATED YEARLY USAGE (lb)

3. DESCRIBE SUBSTRATE BEING COATED (such as metal, plastic, etc.): _____

   DESCRIBE PRODUCT BEING COATED (such as computer cabinets, waterbed frames, etc.): _____

4. DESCRIBE THE METHOD OF APPLICATION:
   - a. ☐ Air Atomization
     Operating pressure: _____(psi)
   - b. ☐ Pressure Atomization (Airless)
   - c. ☐ Combined Air and Airless
   - d. ☐ High Volume Low Pressure (HVLP)
   - e. ☐ Electrostatic
   - f. ☐ Other (specify): _____

5. DESCRIBE FACILITY(IES) FOR APPLYING COATINGS. ATTACH MANUFACTURER'S SPECIFICATIONS.

#	ENCLOSURE OR BOOTH	SIZE (L x W x H)	DATE OF INSTALLATION	EXHAUST FAN C.F.M.	FILTER SYSTEM & EFFICIENCY*
1					
2					

*PROVIDE WRITTEN DOCUMENTATION OF FILTER EFFICIENCY (i.e., manufacturer's data or source test data)

6. WILL ALL SPRAYING OPERATIONS BE CONDUCTED INSIDE A BOOTH OR ENCLOSED BUILDING?:
   IF THE ANSWER IS NO, DESCRIBE THE AREA AND EXPLAIN HOW THE OVERSPRAY WILL BE CONTROLLED:

   _____

7. DESCRIBE ANY RAIN CAP ON THE STACK:

8. ARE ANY COATINGS BAKED, OVEN-CURED OR HEAT-TREATED? WHICH ONES? AT WHAT TEMPERATURE? PROVIDE COMPLETE DESCRIPTION AND SPECIFICATIONS FOR THE OVENS. IF OVENS ARE FUEL-FIRED, BE SURE TO INCLUDE THE OVENS ALSO IN SECTION A.

   _____

9. DESCRIBE CLEAN-UP OF COATING EQUIPMENT AND HOW CLEAN-UP SOLVENT IS DISPOSED OF: (COMPLETE SECTION F, IF APPLICABLE) _____

SECTION E-2. SPRAY PAINTING (VEHICLE)

YOUR FACILITY MAY NOT REQUIRE A NON-TITLE V PERMIT IF THE FACILITY IS ELIGIBLE TO OBTAIN AN AUTHORITY TO OPERATE (ATO) UNDER A GENERAL PERMIT (REFER TO PAGE 3 OF THE INSTRUCTIONS TO DETERMINE ELIGIBILITY).

This section applies to auto body shops, collision repair shops and to any person or facility in Maricopa County recoating previously paint-finished vehicles or parts of vehicles. This includes cars, large and small trucks, recreational and off-road vehicles of all types including, but not limited to, self-propelled movers of earth and/or materials. The refinishing of any machinery or wheeled trailer that is designed to be able to move or be towed on a highway is also included. Provide material safety data sheets (MSDS) for each material and number them to correspond to the table below. Use Section E-1 for non-vehicle spray painting and surface coating operations.

1. LIST ALL MATERIALS APPLIED:

MSDS NUMBER	TYPE OF MATERIAL (ATTACH MSDS OR SPECIFICATIONS)	VOLATILE ORGANIC COMPOUND (VOC) CONTENT* (lb/gal or gram/liter)	ESTIMATED USAGE (gal/yr)	AMOUNT OF WASTE DISPOSAL** (gal/yr)
	Strippers			
	Surface preparation/cleaning fluids			
	Primers			
	Enamels			
	Catalysts			
	Sealers			
	Topcoats			
	Retarders			
	Accelerators			
	Thinners			
	Reducers			
	Strippable booth coatings			
	Other:			

**Less water and non-precursors*

** Method(s) of waste disposal: _____

2. DESCRIBE THE METHOD OF APPLICATION :

a. ☐ Air Atomization
Operating pressure: _____(psi)

b. ☐ Pressure Atomization (Airless)

c. ☐ Combined Air and Airless

d. ☐ High Volume Low Pressure (HVLP)

e. ☐ Electrostatic

f. ☐ Other (specify): _____

3. GUN CLEANING EQUIPMENT (SPECIFY EACH PIECE OF EQUIPMENT OR REFER TO SECTION F):

EQUIPMENT TYPE	HOW MANY	MANUFACTURER / MODEL #	DATE OF INSTALLATION	SOLVENT TYPE (INCLUDE MSDS)	ANNUAL SOLVENT USAGE [GAL/YR]	DISPOSAL QUANTITY OF CLEAN-UP SOLVENT [GAL/YR]

4. METHOD OF DRYING FOR SPRAYED ITEMS:

a. ☐ Air Dried

b. ☐ Oven Dried or Baked: ☐ Electric: _____ KW; or
☐ Gas Fired: _____ Btu/hr (Complete Section A)

5. DESCRIBE FACILITY(IES) FOR APPLYING COATINGS. *ATTACH MANUFACTURER'S SPECIFICATIONS.*

#	ENCLOSURE OR BOOTH)	SIZE (L X W X H)	DATE OF INSTALLATION	DIFFERENTIAL PRESSURE MEASUREMENT DEVICE (Y/N)	EXHAUST FAN (C.F.M.)	TYPE OF FILTER SYSTEM & EFFICIENCY*
1						
2						

*PROVIDE WRITTEN DOCUMENTATION OF FILTER EFFICIENCY (i.e., manufacturer's data or source test data)

6. WILL ALL SPRAYING OPERATIONS BE CONDUCTED INSIDE A BOOTH OR ENCLOSED BUILDING?_____

IF THE ANSWER IS NO DESCRIBE THE AREA AND EXPLAIN HOW THE OVERSPRAY WILL BE CONTROLLED:_____

_____

7. DESCRIBE ANY RAIN CAP ON THE STACK: _____

SECTION F. SOLVENT CLEANING

1. COMPLETE THE TABLE BELOW FOR ALL SOLVENT CLEANING DEVICES USED. ATTACH MANUFACTURER'S EQUIPMENT SPECIFICATIONS/LITERATURE WHENEVER AVAILABLE.

2. ON A SEPARATE ATTACHMENT, PLEASE PROVIDE ANY ADDITIONAL EQUIPMENT STANDARDS AND/OR OPERATING PARAMETERS FOR SOLVENT CLEANING DEVICES UTILIZING ANY OF THE FOLLOWING HALOGENATED SOLVENTS: METHYLENE CHLORIDE, PERCHLOROETHYLENE, TRICHLOROETHYLENE, 1,1,1 – TRICHLOROETHANE, CARBON TETRACHLORIDE AND/OR CHLOROFORM

TYPE OF SOLVENT CLEANING DEVICE [1](see list below)	HOW MANY	MANUFACTURER / MODEL	DATE OF INSTALLATION	SOLVENT SURFACE DIMENSIONS	FREEBOARD HEIGHT (INCHES)	INTERNAL VOLUME [GALLONS]	NAME OF SOLVENT TO BE USED (include MSDS)	ANNUAL SOLVENT USAGE [GALLONS]	DISPOSAL QUANTITY [GALLONS]	DISPOSAL METHOD[2]

NOTES:

[1] SPECIFY THE TYPE OF EQUIPMENT FROM THE FOLLOWING LIST:

1. COLD CLEANER (NO BOILING) WITH REMOTE RESERVOIR
2. COLD CLEANER (NO BOILING) WITHOUT REMOTE RESERVOIR
3. BATCH LOADED VAPOR DEGREASER
4. CONVEYORIZED VAPOR DEGREASER
5. CONVEYORIZED NON-VAPOR DEGREASER
6. OTHER (SPECIFY)

[2] IF WASTE SOLVENT IS REDISTILLED ON SITE, PROVIDE INFORMATION ON THE STILL, INCLUDING MANUFACTURER'S LITERATURE

SECTION G. PLATING, ETCHING & OTHER METAL FINISHING PROCESSES

USE A SEPARATE SHEET FOR EACH PROCESS LINE. IF ADDITIONAL SPACE IS REQUIRED, ATTACH SEPARATE SHEETS FOLLOWING THE SAME FORMAT AS BELOW. If any tank is heated by a flame, be sure to include the burner information in Section A. Evaporation from open ponds or evaporating tanks is not permitted for materials such as acids, alkalis, VOCs or materials containing VOCs.

1. NAME OF PROCESS LINE: _____

2. On a separate page, provide a simple process (block flow) diagram with emission points and/or emission areas and control equipment identified. Please include a brief narrative description of this process. Be sure to indicate how waste solutions and rinse waters are disposed of. If a wastewater evaporator is used, please provide detailed information (i.e., make, model, capacity, fuel source, burner rating, etc.) on separate page.

3. PROCESS TANKS (exclude rinse and waste water tanks):

ASSIGNED EQUIPMENT NUMBER	CAPACITY (gallons)	TYPE OF CHEMICAL IN TANK	SURFACE AREA (SQ. FT.)	TEMP (^{O}F)	CONCEN-TRATION (%)	pH	EXHAUST	
							VENT TO AIR	VENT TO CONTROL

4. LIST MATERIALS TO BE USED: (Equipment number to be taken from item 3 column 1) Please be sure to include a copy of the MSDS for each material and number the MSDS to correspond to the table below.

MSDS NUMBER	MATERIAL	CONCENTRATION (%) IN BATH	ANNUAL USAGE (gal/yr or lb/yr)	EQUIPMENT NUMBER IN WHICH USED

5. AIR POLLUTION CONTROL EQUIPMENT: (From item 3 column 9)
On a separate page please describe the design and operational parameters of the control device. For example, the liquid flow rate, the gas flow rate, the control efficiency for each compound in weight %, the pH set point, how the pH is controlled, operating temperature, etc. Is the capture system push-pull, enclosed, hood? If it is a push-pull, will anything (racks, works in progress, etc.) block push air during operation?

CONTROL EQUIPMENT ID	CONTROL EQUIPMENT DESCRIPTION AND CAPACITY	MAKE & MODEL	CONTROL EFFICIENCY* (%)	CFM or FPS	DATE OF INSTALLATION

*PROVIDE WRITTEN DOCUMENTATION OF CONTROL EFFICIENCY (i.e., manufacturer's data or source test data). Attach the manufacturer's specifications and drawings for each air pollution control device listed. Be sure that the locations of all flow devices and pressure/temperature gauges are indicated. Attach an operation and maintenance plan for each piece of control equipment listed above.

SECTION H. DRY CLEANING EQUIPMENT

YOUR FACILITY MAY NOT REQUIRE A NON-TITLE V PERMIT IF THE FACILITY IS ELIGIBLE TO OBTAIN AN AUTHORITY TO OPERATE (ATO) UNDER A GENERAL PERMIT (REFER TO PAGE 2 OF THE INSTRUCTIONS TO DETERMINE ELIGIBILITY).

1. SOLVENT USED: _____ ESTIMATED USAGE: _____ GALLONS/YEAR

2. ☐ DRY-TO-DRY ☐ TRANSFER

3. DATE OF INSTALLATION OF DRY CLEANING EQUIPMENT: _____

4. LIST DRY CLEANING-RELATED EQUIPMENT:

DESCRIBE EQUIPMENT, INCLUDING MAKE & MODEL	HOW MANY	CAPACITY (LB.)	EXHAUST FLOW RATE (CFM OR FPS)	
			VENT TO AIR	VENT TO CONTROL

5. COOLING TOWER: ☐ YES ☐ NO IF YES, CAPACITY: _____ GALS; _____ TONS COOLING CAPACITY

6. EMISSION CONTROLS: ☐ REFRIGERATED CONDENSING COILS: ☐ BUILT IN ☐ SEPARATE CONDENSING UNIT

   ☐ CARBON ADSORBER

   ☐ OTHER (SPECIFY) _____

   DATE OF INSTALLATION OF CONTROL EQUIPMENT: _____
   ATTACH MANUFACTURER'S SPECIFICATIONS.

7. STEAM BOILERS USED SPECIFICALLY FOR STRIPPING ADSORBER AND / OR PRESSING: (Include all others in Section A.)

FUEL	BOILER DESCRIPTION, INCLUDING MAKE & MODEL	DATE OF INSTALLATION	GROSS BTU/HR, H.P. OR OTHER RATING

SECTION I. GRAPHIC ARTS

YOUR FACILITY MAY NOT REQUIRE A NON-TITLE V PERMIT IF THE FACILITY IS ELIGIBLE TO OBTAIN AN AUTHORITY TO OPERATE (ATO) UNDER A GENERAL PERMIT (REFER TO PAGE 2 OF THE INSTRUCTIONS TO DETERMINE ELIGIBILITY).

THIS SECTION APPLIES TO GRAPHIC ARTS OPERATIONS AND ASSOCIATED COATING PROCESSES THAT ARE NOT ELIGIBLE FOR THE GENERAL PERMIT. THIS INCLUDES BUT IS NOT LIMITED TO CIRCUITRY PRINTING, FLEXOGRAPHIC, GRAPHIC ARTS, GRAVURE, LAMINATION, LETTER PRESS LITHOGRAPHIC, AND SCREEN PRINTING OPERATIONS.

1. EQUIPMENT LIST (LIST EACH PRESS INDIVIDUALLY):

ASSIGNED EQUIPMENT NUMBER	PRESS MANUFACTURER, MODEL	DATE OF INSTALLATION	IMPRESSION AREA (SQUARE IN)	PRESS TYPE*	# OF PRINTING STATIONS	EXHAUST FLOW RATE (CFM OR FPS)	
						VENT TO AIR	VENT TO CONTROL (IDENTIFY)

* (F) FLEXOGRAPHIC, (L) LITHOGRAPHIC, (G) GRAVURE, (LP) LETTER PRESS, (S) SCREEN, OTHER (PLEASE SPECIFY)

2. MATERIALS LIST**:**
LIST ALL MATERIALS. THIS INCLUDES BUT IS NOT LIMITED TO: INKS, FOUNTAIN SOLUTION, BLANKET WASH, VARNISHES, ROLLER WASH, ETCH SOLUTIONS, FIXERS, DEVELOPERS, REPLENISHERS, ALCOHOL SUBSTITUTES, FINISHERS, ADHESIVES, OTHER SOLVENTS AND CLEANUP MATERIALS. COMPLETE THE TABLE BELOW FOR EACH MATERIAL. PROVIDE MATERIAL SAFETY DATA SHEETS (MSDS) FOR EACH MATERIAL AND NUMBER THEM TO CORRESPOND TO THE TABLE BELOW.

MSDS NUMBER	MATERIAL	ANNUAL USAGE OR THROUGHPUT SPECIFY: (GAL/YR OR LB/YR)	VOC CONTENT (% BY WEIGHT)	AMOUNT RECLAIMED OR SHIPPED AS WASTE SPECIFY: (GAL/YR OR LBS/YR)

3. SUBSTRATE TYPE:

☐ POROUS ☐ COATED
☐ NONPOROUS ☐ UNCOATED

4. DESCRIBE CONTROL DEVICES: HOW ARE VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS CONTROLLED? PROVIDE FLOW DIAGRAMS AND/OR BRIEFLY DESCRIBE. INCLUDE EQUIPMENT TYPE, MANUFACTURER, MODEL, DATE OF INSTALLATION, RATING, EFFICIENCY, ID OR SERIAL NUMBER, & LOCATION. ATTACH VENDOR DATA SHEETS AND GENERAL DESIGN DETAILS. PROVIDE OPERATION & MAINTENANCE PLANS FOR EACH CONTROL DEVICE.

_____

_____

_____

_____

SECTION J-1. CONCRETE BATCH PLANTS

This section is intended for all processes, equipment and related emission controls for concrete batch plants. Provide flow diagrams and layouts for each process. An Operation and Maintenance Plan for each air pollution control equipment is required. Describe how the annual quantity figures were developed. If aggregate crushing occurs in conjunction with this process you must also fill out Section Y.

1. Raw Materials: List all materials handled, stored, processed, used, mixed, treated, or emitted.

Material	Maximum Annual Usage Or Throughput (Tons/Yr)
Sand delivered to ground storage	
Aggregate delivered to ground storage	
Sand transfer to conveyor (account for multiple transfer points)[1]	
Aggregate transfer to conveyor (account for multiple transfer points)[1]	
Sand transfer to elevated storage bin	
Aggregate transfer to elevated storage bin	
Cement transfer to elevated silo	
Cement (such as flyash) transfer to elevated silo	
Weigh hopper loading (sand and aggregate only)	
Mixer loading - central mix (cement and supplement only)	
Truck loading - truck mix (cement and supplement only)	
Other	

NOTE: [1]For sand and aggregate transfer to conveyor, account for multiple transfer points. For example, if 100 tons of sand are transferred three times, then the total throughput of sand is 300 tons.

2. Raw Material Unloading:
How is cement transferred to silo? ☐ Bucket Elevator ☐ Pneumatic
☐ Other (Describe) _____

How is flyash and other materials transferred to silo? ☐ Bucket Elevator ☐ Pneumatic
☐ Other (Describe) _____

3. Processing: Describe each piece of equipment utilizing the table below. List weigh hoppers, hoppers, conveyors, mixers, etc. Assign an equipment number in the table below and label the attached flow diagram accordingly. Assign a unique number to each piece of control equipment in the table below. Be sure to use this number in Section 6 below when describing equipment. Attach additional pages if necessary

Equipment Number	Make Model & Serial Number	Date of Manufacture	Maximum Design Throughput Capacity (Tons/hr)	Exhaust To	
				Air	Control

4. Maximum capacity of concrete batch plant (tons/hr): _____

5. Loadout:
What percent of finished product is mixed: On-site? _____ In transit?_____

Other?_____ (Describe) _____

CONTINUED ON NEXT PAGE

SECTION J-1. CONCRETE BATCH PLANTS - CONTINUED

6. Control Devices:

Equipment Number	Type of Device	Make, Model, & Serial Number	Maximum Design Air Flow Rate (CFM)	Control Efficiency* (% Weight)

*PROVIDE WRITTEN DOCUMENTATION OF CONTROL EFFICIENCY (e.g., manufacturer's data or actual test data)
**ATTACH AN OPERATION AND MAINTENANCE PLAN FOR EACH PIECE OF CONTROL EQUIPMENT LISTED ABOVE.

7. Vehicle Travel on Unpaved Roads: Indicate the number of miles traveled on-site annually on unpaved roads for each class of vehicle specified below:

Vehicle Type	Vehicle Miles Traveled Annually (VMT)			
	10 MPH	15 MPH	20 MPH	Other:_____
Light Duty (e.g., pickup trucks, cars)				
Medium Duty (e.g., front end loaders, fork lifts)				
Heavy Duty (e.g., haul trucks, cranes)				

8. Number of acres of sand and aggregate storage piles _____

SECTION J-2. NON-METALLIC MINERAL MINING AND PROCESSING

(EXCEPT CONCRETE BATCH PLANTS AND HOT MIX ASPHALT PLANTS)

This section is intended for all processes, equipment and related emission controls for sand and gravel plants. Provide flow diagrams and layouts for each process. An Operation and Maintenance Plan for each air pollution control equipment is required. Describe how the annual quantity figures were developed.

1. Materials: List all materials handled, stored, processed, used, mixed, treated, or emitted.

Material	Maximum Annual Usage Or Throughput (Tons./yr)
Sand	
Aggregate	
Other	

2. Processing: Describe each piece of equipment utilizing the table below. List crushers, screens, weigh hoppers, hoppers, conveyors, stackers, mixers, etc. Assign an equipment number in the table below and label the attached flow diagram accordingly. Assign a unique number to each piece of control equipment in the table below. Be sure to use this number in Section 3 below when describing equipment. Attach additional pages if necessary

Equipment Number	Make Model & Serial Number	How Many?	Date of Manufacture	Maximum Design Throughput Capacity (tons/hr)	Exhaust To	
					Air	Control

3. Control Devices:

Equipment Number	Type of Device	Make, Model, & Serial Number	Maximum Design Air Flow Rate (CFM)	Control Efficiency* (% Weight)

*PROVIDE WRITTEN DOCUMENTATION OF CONTROL EFFICIENCY (e.g., manufacturer's data or actual test data)
**ATTACH AN OPERATION AND MAINTENANCE PLAN FOR EACH PIECE OF CONTROL EQUIPMENT LISTED ABOVE.

4. Vehicle Traffic on Unpaved Roads: Indicate the number of miles traveled annually on unpaved roads on-site for each class of vehicle specified below.

Vehicle Type	Vehicle Miles Traveled Annually (VMT)			
	10 MPH	15 MPH	20 MPH	Other:_____
Light Duty (e.g., pickup trucks, cars)				
Medium Duty (e.g., front end loaders, fork lifts)				
Heavy Duty (e.g., haul trucks, cranes)				

SECTION K. - HOT MIX ASPHALT PLANTS

This section is intended for all processes, equipment and related emission controls for hot mix asphalt plants. Provide flow diagrams and layouts for each process. An Operation and Maintenance Plan for each air pollution control device is required. Describe how the annual quantity figures were developed. If you own/operate aggregate crushing equipment which operates on-site with this batch plant you must also fill out Section Y.

1. MAXIMUM DESIGN PRODUCTION CAPACITY:_____TONS PER HOUR,_____TONS PER YEAR

2. ACTUAL PRODUCTION RATE:_____ TONS PER HOUR.

3. DAILY HOURS OF OPERATION:_____

4. TYPE OF PLANT: ☐ BATCH MIX ☐ CONTINUOUS MIX

5. DRYER FUEL TYPE: ☐ NATURAL GAS ☐ FUEL OIL (Specify grade: _____) ☐ DIESEL ☐ USED OIL
   ☐ OTHER (Specify): _____

6. ASPHALT HEATER: ☐ ELECTRIC
   ☐ FUEL FIRED: TYPE OF FUEL:_____
   TEMPERATURE OF HEATED ASPHALT_____ºF.

7. ASPHALT TYPE: EMULSIFIED _____ %VOC BY VOLUME, WHICH EVAPORATE AT 500° F
   CUTBACK _____%VOC BY VOLUME WHICH EVAPORATE AT 500° F

8. AGGREGATE: MIX RATIO BY WEIGHT:
   _____ % VIRGIN AGGREGATE
   _____ % RECYCLED AGGREGATE
   _____ % PETROLEUM CONTAMINATED SOIL
   _____ % RUBBER OR RUBBER-LIKE MATERIAL

9. DATE PLANT WAS MANUFACTURED OR RECONSTRUCTED:_____.

10. DESCRIBE CONTROL DEVICES:

TYPE OF DEVICE	MAKE, MODEL, & SERIAL NUMBER	MAXIMUM DESIGN AIR FLOW RATE (CFM)	CONTROL EFFICIENCY (% WEIGHT)

*PROVIDE WRITTEN DOCUMENTATION OF CONTROL EFFICIENCY (e.g., manufacturer's data or actual test data)
**ATTACH AN OPERATION AND MAINTENANCE PLAN FOR EACH PIECE OF CONTROL EQUIPMENT LISTED ABOVE.

11. ALTERNATING OPERATING SCENARIO: ☐ YES, ☐ NO

    IF YES, PLEASE DESCRIBE:_____

    _____

12 Vehicle Traffic on Unpaved Roads: Indicate the number of miles traveled annually on unpaved roads on-site for each class of Vehicle specified below.

Vehicle Type	Vehicle Miles Traveled Annually (VMT)			
	10 MPH	15 MPH	20 MPH	Other_____
Light Duty (e.g., pickup trucks, cars)				
Medium Duty (e.g., front end loaders, fork lifts)				
Heavy Duty (e.g., haul trucks, cranes)				

SECTION L. WOOD FURNITURE MANUFACTURING OR WOOD WORKING OPERATIONS

This section is intended for all processes, equipment, and related emission controls associated with the application of finishing material to, or the manufacture of, furniture or fixtures made of wood or wood-derived material.

1. Woodworking Equipment List: List all woodworking equipment including but not limited to saws, routers, planers, sanders, edgers, etc. Particulate control devices such as cyclones, baghouse, etc. should be listed in the exhaust column. Attach additional sheets if necessary.

DESCRIBE EACH PIECE OF EQUIPMENT INCLUDE MAKE AND MODEL NUMBER	QTY	HP RATING	EXHAUST		
			VENT TO AIR (YES OR NO)	VENT TO CONTROL	
				TYPE OF CONTROL	CONTROL EFFICIENCY*

*PROVIDE WRITTEN DOCUMENTATION OF CONTROL EFFICIENCY (e.g., manufacturer's data or actual test data)

2. How much sawdust is produced annually? _____ cubic yards.

3. Surface Preparation and Coating: List all VOC-containing materials applied. Provide Material Safety Data Sheets (MSDSs) for each material and number them to correspond to the Table below. Attach additional sheets if necessary.

MSDS NO.	TYPE OF MATERIAL	MAX VOC AS APPLIED (lb/lb or gram/liter) (For each material)	ESTIMATED USAGE (gal/yr)	AMOUNT OF WASTE DISPOSAL (gal/yr)
	Topcoat			
	Topcoat			
	Topcoat			
	Sealer			
	Acid-cured, alkyd amino topcoat			
	Acid-cure, alkyd amino vinyl sealer			
	Strippable booth coating			
	Stains			
	Thinners			
	Reducers			
	Other			

4. DESCRIBE THE METHOD OF APPLICATION :
   a. ☐ Air Atomization
      Operating pressure: _____(psi)
   b. ☐ Pressure Atomization (Airless)
   c. ☐ Combined Air and Airless
   d. ☐ High Volume Low Pressure (HVLP)
   e. ☐ Electrostatic
   f. ☐ Other (specify): _____.

5. VOC content (%) of cleaning solvent used for equipment cleanup:_____.

6. Describe cleanup of application equipment and handling and disposal of VOC._____

_____.

7. Are you applying for consideration under:
   Rule 342 ☐ Appendix A, ☐ Appendix B, ☐ Appendix C.
   Rule 346 ☐ Appendix A, ☐ Appendix B.

SECTION M-1. ABRASIVE BLASTING (STATIONARY)

This section is intended for all processes, equipment, and related emission controls associated with stationary abrasive blasting operations.

1. Abrasive Blasting Equipment List: List all abrasive blasting equipment. Attach additional sheets if necessary.

SPECIFY EQUIPMENT TYPE (BLAST BOOTH, ROOM, ENCLOSURE, CABINET, AUTOMATIC MACHINE) – INCLUDE MAKE AND MODEL NUMBER	HOW MANY?	INTERNAL VOLUME (ft^3)	MAXIMUM PRESSURE (psi)	MAXIMUM AIR FLOW RATE (cfm)	IS EXHAUST VENTED TO THE ATMOSPHERE OR TO A CONTROL DEVICE?	
					VENT TO AIR	VENT TO CONTROL

2. How is the abrasive blast unit powered (electric, generator)?_____
_____(If powered by an internal combustion engine, complete Section B)

3. Blast Media: Indicate the type and quantity of each blast media used and attach a material safety data sheet (MSDS).

BLAST MEDIA TYPE	DAILY USAGE (LBS./DAY)	ANNUAL USAGE (TONS/YR)

4. DESCRIBE SUBSTRATE BEING BLASTED (I.E., METAL, STONE, CONCRETE, ETC.):_____

5. DESCRIBE SUBSTRATE BEING REMOVED (I.E., NON-LEADED PAINT, LEADED PAINT, RUST, ETC.):_____

6. IF LEADED PAINT WAS INDICATED IN ITEM NO. 5, INDICATE THE PERCENT CONCENTRATION OF LEAD IN THE PAINT:_____

7. DESCRIBE CONTROL DEVICES:

TYPE OF CONTROL DEVICE*	MAKE, MODEL, & SERIAL NUMBER	MAXIMUM DESIGN AIR FLOW RATE (CFM)	CONTROL EFFICIENCY (% BY WEIGHT)**

*ATTACH AN OPERATION AND MAINTENANCE PLAN FOR EACH PIECE OF CONTROL EQUIPMENT LISTED ABOVE.
**PROVIDE WRITTEN DOCUMENTATION OF CONTROL EFFICIENCY (e.g., manufacturer's data or actual test data)

SECTION M-2. ABRASIVE BLASTING (PORTABLE)

This section is intended for all processes, equipment, and related emission controls associated with portable abrasive blasting operations.

1. Abrasive Blasting Equipment List: List all abrasive blasting equipment. Attach additional sheets if necessary.

DESCRIBE EACH PIECE OF EQUIPMENT INCLUDE MAKE AND MODEL NUMBER	HOW MANY?	MAXIMUM PRESSURE (psi)	MAXIMUM AIR FLOW RATE (cfm)

*In Item No. 7 describe each abrasive blasting method used for the equipment indicated above.

2. How is the abrasive blast unit powered (electric, generator)?_____
_____(If powered by an internal combustion engine, complete Section B of this application)

3. Blast Media Type: Indicate the type and quantity of each abrasive used and attach a material safety data sheet (MSDS) for each type of abrasive.

TYPE OF BLAST MEDIA	MAXIMUM DAILY THROUGHPUT (LBS./DAY)	MAXIMUM ANNUAL THROUGHPUT (TONS/YR)	IF KNOWN, PLACE A CHECK IN BOX IF BLAST MEDIA IS CARB-CERTIFIED[1]
			☐
			☐
			☐
			☐
			☐
			☐

NOTE: [1]Certified by California Air Resources Board (CARB) pursuant to Section 92530 of Subchapter 6, Title 17, California Code of Regulations

4. DESCRIBE SUBSTRATE BEING BLASTED (I.E., METAL, STONE, CONCRETE, ETC.):_____

5. DESCRIBE SUBSTRATE BEING REMOVED (I.E., NON-LEADED PAINT, LEADED PAINT, RUST, ETC.):_____

6. IF LEADED PAINT WAS INDICATED IN ITEM NO. 5, INDICATE THE PERCENT CONCENTRATION OF LEAD IN THE PAINT:_____

7. ABRASIVE BLASTING METHODS:

ABRASIVE BLASTING METHOD USED (I.E., WET ABRASIVE BLASTING, HYDROBLASTING, VACUUM BLASTING, DRY ABRASIVE BLASTING, OTHER)	MAKE, MODEL, & SERIAL NUMBER	MAXIMUM DESIGN AIR FLOW RATE (CFM)

SECTION X1. POINT SOURCE EMISSIONS OF HAZARDOUS AIR POLLUTANTS

COMPLETION OF THIS SECTION IS MANDATORY FOR ALL SITES WHICH WILL HAVE AN ACTUAL EMISSION RATE OF 500 POUNDS PER YEAR OR MORE OF ANY SINGLE FEDERAL HAZARDOUS AIR POLLUTANT (HAP) OR ONE (1) TON PER YEAR OR MORE OF ANY COMBINATION OF HAPS.

SOURCE EQUIPMENT NAME (1)	HAP NAME AND/OR CAS NUMBER (2)	HAP EMISSION RATE		STACK OR POINT DISCHARGE PARAMETERS (5)								
						BUILDING DIMENSIONS				STACK EXIT DATA		
		LB/HR (3)	TONS/ YEAR (4)	STACK ID	STACK HEIGHT ABOVE GROUND (feet)	BUILDING LENGTH (feet)	BUILDING WIDTH (feet)	BUILDING HEIGHT (feet)	DISTANCE FROM STACK TO NEAREST PROPERTY LINE (feet)	DIAMETER or LENGTH X WIDTH (ft)	VEL. (fps)	TEMP. (^{0}F)

General Instructions:

(1) Identify each federal hazardous air pollutant (HAP) emission source and each HAP associated with that emission source for the entire plant site. Use as many lines as necessary for each HAP source.

(2) Refer to the list of federal HAPS on the last page of the application.

(3) Pounds per hour (lb/hr) is actual emission rate estimated or measured by applicant to be vented through stack.

(4) Tons per year is actual annual emission rate estimated or measured by applicant to be vented through stack, which takes into account process operating schedule.

(5) Supply additional information as follows on a separate sheet if appropriate:
Stack exit configuration other than a round vertical stack. Show length and width for a rectangular stack. Indicate if discharge is horizontal.
Show layout of adjacent structures if structure is within 3 times stack height above the ground.

SECTION X2. NON-POINT AREA EMISSION SOURCES FOR HAZARDOUS AIR POLLUTANTS

COMPLETION OF THIS SECTION IS MANDATORY FOR ALL SITES WHICH WILL HAVE AN ACTUAL EMISSION RATE OF 500 POUNDS PER YEAR OR MORE OF ANY SINGLE FEDERAL HAZARDOUS AIR POLLUTANT (HAP) OR ONE (1) TON PER YEAR OR MORE OF ANY COMBINATION OF HAPS.

SOURCE OR EQUIPMENT NAME (1)	HAP NAME AND/OR CAS NUMBER (2)	HAP EMISSION RATE		DIMENSIONS OF RELEASE SOURCE (5)			BUILDING DIMENSIONS			DISTANCE TO NEAREST PROPERTY LINE (6) (feet)	SOURCE TEMP. (^{0}F)
		LB/HR (3)	TONS/ YEAR (4)	LENGTH (feet)	WIDTH (feet)	HEIGHT (feet)	LENGTH (feet)	WIDTH (feet)	HEIGHT (feet)		

General Instructions:

(1) Identify each federal hazardous air pollutant (HAP) emission source and each HAP which is not collected by a capture system and is released to the atmosphere. Use as many lines as necessary for each HAP source.

(2) Refer to the list of federal HAPS on the last page of the application.

(3) Pounds per hour (lb/hr) is actual emission rate estimated or measured by applicant to be released from the emission source.

(4) Tons per year is actual annual emission rate estimated or measured by applicant to be released from the emission source. This value should take into account process operating schedules.

(5) Release structure: If the non-point (area) emissions source is located inside a building, provide the dimensions of the building. Otherwise, indicate zero for building dimensions.

(6) Distance to nearest property line is the closest distance from the release structure to the property line.

SECTION Y. OTHER SOURCES

This section is intended for all emissions related activities, equipment and applicable emission controls which are not covered in previous sections. In response to item 2, provide a detailed step-by-step narrative, including how raw materials are handled, stored, processed, mixed, treated, and converted to finished products. Provide flow rates, temperatures, pressures, and other appropriate details concerning each process. Whenever available, provide manufacturer's data sheets and literature. Provide flow diagrams and layouts for each process. Describe in detail how waste materials are generated, handled, stored, processed, mixed, treated and disposed of. An Operation and Maintenance Plan for each air pollution control equipment is required. List each material that is partially recovered, salvaged or otherwise reclaimed. Provide estimates of the quantities of such material recoveries on an annual basis. Describe how the annual quantity figures were developed. USE A SEPARATE SHEET FOR EACH PROCESS OR ACTIVITY.

1. NAME OF PROCESS, EQUIPMENT GROUPING OR ACTIVITY: _____

2. NARRATIVE DESCRIPTION: _____

3. EQUIPMENT LIST: Include machinery, storage silos, tanks, emission control devices, etc., in this list.

ASSIGNED EQUIPMENT NUMBER	DESCRIBE EACH PIECE OF EQUIPMENT INCLUDE MAKE & MODEL	HOW MANY	DATE OF INSTALLATION	HP, KVA GAL OR OTHER RATING	EXHAUST	
					VENT TO AIR	VENT TO CONTROL (Identify)

4. MATERIALS LIST: List all materials handled, stored, processed, used, mixed, treated, or emitted. Include chemicals, mixtures, resins, cleaning compounds, etc., in this list. If a material contains volatile organic compounds (VOC), provide the required details for that material. Identify each material in sufficient detail and provide material safety data sheets (MSDS).

MATERIAL	ANNUAL USAGE OR THROUGHPUT (GAL/YR OR LB/YR)	CHEMICAL COMPOSITION (% by weight)	MATERIAL RECLAIMED OR SHIPPED AS WASTE (GAL/YR OR LB/YR)	EQUIPMENT NUMBER IN WHICH USED

5. DESCRIBE CONTROL DEVICES:

TYPE OF DEVICE	NAME / ID / CAPACITY	DATE OF INSTALLATION	CONTROL EFFICIENCY* (% WEIGHT)

*PROVIDE WRITTEN DOCUMENTATION OF CONTROL EFFICIENCY (i.e., manufacturer's data or source test data). Attach the manufacturer's specifications and drawings for each air pollution control device listed. Be sure that the locations of all flow devices and pressure/temperature gauges are indicated. Attach an operation and maintenance plan for each piece of control equipment listed above.

6. OPERATIONAL PARAMETERS: (SUCH AS pH OF SCRUBBER LIQUID, TEMPERATURE OF OXIDIZER, DIFFERENTIAL PRESSURE FOR BAGHOUSE, ETC.)

SECTION Z. AIR POLLUTANT EMISSIONS

Completion of this section is mandatory for all sites which will have total projected actual or total actual air pollutant emissions of 1/2 ton per year or more prior to any separate tail-pipe controls.

PROVIDE A SUMMARY OF THE PROJECTED ACTUAL AIR EMISSIONS ON AN ANNUAL BASIS FOR THE ENTIRE SITE:

POLLUTANT	EMISSIONS POUNDS PER YEAR
CARBON MONOXIDE (CO)	
OXIDES OF NITROGEN (NO_X)	
OXIDES OF SULFUR (SO_X)	
PARTICULATES OF 10 MICRONS OR SMALLER (PM_{10})	
TOTAL SUSPENDED PARTICULATES (TSP), INCLUDING PM_{10}	
TOTAL VOLATILE ORGANIC COMPOUNDS (VOC) EXCLUDING NON-PRECURSOR ORGANIC COMPOUNDS	
LEAD	
FEDERAL HAZARDOUS AIR POLLUTANTS (LIST EACH ONE SEPARATELY):	
OTHER REGULATED AIR POLLUTANTS (LIST EACH ONE SEPARATELY:	

IF A SEPARATE TAIL-PIPE CONTROL IS PROPOSED OR INSTALLED, IDENTIFY THAT CONTROL AND PROVIDE DETAILS (PROVIDE A SEPARATE TABLE FOR EACH SEPARATE CONTROL)

IDENTIFY CONTROL_____

POLLUTANT	EMISSIONS POUNDS PER YEAR	
	PRIOR TO CONTROL	AFTER CONTROL

Attach detailed calculations to support the figures in the above summary tables. Do not include the emissions from motor vehicles. Include the emissions from stationary sources, portable sources, test areas, experimental facilities, evaporative losses, storage and handling losses, fuel loading and unloading losses, etc. Specifically identify the following in detailed calculations:

1. EMISSIONS FROM EACH POINT SOURCE AND EACH STACK
2. CAPTURE EFFICIENCIES
3. CONTROL EFFICIENCIES
4. OVERALL EFFICIENCIES
5. FUGITIVE EMISSIONS
6. NON-POINT (AREA) EMISSIONS

For particulate emissions, describe the types of particulates being emitted and the quantities of emissions for each type. Identify and quantify each and every type of VOC that is included in the above summary tables. Whenever a material is identified by a trade name, also provide its generic name and its chemical abstract service (CAS) number.

FEDERAL HAZARDOUS AIR POLLUTANTS LIST
(from Federal Clean Air Act, Title I, Section 112(b)

CAS No.	Chemical name
75070	Acetaldehyde
60355	Acetamide
75058	Acetonitrile
98862	Acetophenone
53963	2-Acetylaminofluorene
107028	Acrolein
79061	Acrylamide
79107	Acrylic acid
107131	Acrylonitrile
107051	Allyl chloride
92671	4-Aminobiphenyl
62533	Aniline
90040	o-Anisidine
1332214	Asbestos
71432	Benzene (including benzene from gasoline)
92875	Benzidine
98077	Benzotrichloride
100447	Benzyl chloride
92524	Biphenyl
117817	Bis(2-ethylhexyl)phthalate (DEHP)
542881	Bis(chloromethyl)ether
75252	Bromoform
106990	1,3-Butadiene
156627	Calcium cyanamide
133062	Captan
63252	Carbaryl
75150	Carbon disulfide
56235	Carbon tetrachloride
463581	Carbonyl sulfide
120809	Catechol
33904	Chloramben
57749	Chlordane
7782505	Chlorine
79118	Chloroacetic acid
532274	2-Chloroacetophenone
108907	Chlorobenzene
510156	Chlorobenzilate
67663	Chloroform
107302	Chloromethyl methyl ether
126998	Chloroprene
1319773	Cresols/Cresylic acid (isomers and mixture)
95487	o-Cresol
108394	m-Cresol
106445	p-Cresol
98828	Cumene
94757	2,4-D, salts and esters
3547044	DDE
334883	Diazomethane
132649	Dibenzofurans
96128	1,2-Dibromo-3-chloropropane
84742	Dibutylphthalate
106467	1,4-Dichlorobenzene(p)
91941	3,3-Dichlorobenzidene
111444	Dichloroethyl ether (Bis(2-chloroethyl)ether)
542756	1,3-Dichloropropene
62737	Dichlorvos
111422	Diethanolamine
121697	N,N-Diethyl aniline (N,N-Dimethylaniline)
64675	Diethyl sulfate
119904	3,3-Dimethoxybenzidine
60117	Dimethyl aminoazobenzene
119937	3,3´-Dimethyl benzidine
79447	Dimethyl carbamoyl chloride
68122	Dimethyl formamide
57147	1,1-Dimethyl hydrazine
131113	Dimethyl phthalate
77781	Dimethyl sulfate
534521	4,6-Dinitro-o-cresol, and salts
51285	2,4-Dinitrophenol
121142	2,4-Dinitrotoluene
123911	1,4-Dioxane (1,4-Diethyleneoxide)
122667	1,2-Diphenylhydrazine
106898	Epichlorohydrin (1-Chloro-2,3-epoxypropane)
106887	1,2-Epoxybutane
140885	Ethyl acrylate
100414	Ethyl benzene
51796	Ethyl carbamate (Urethane)
75003	Ethyl chloride (Chloroethane)
106934	Ethylene dibromide (Dibromoethane)
107062	Ethylene dichloride (1,2-Dichloroethane)
107211	Ethylene glycol
151564	Ethylene imine (Aziridine)
75218	Ethylene oxide
96457	Ethylene thiourea
75343	Ethylidene dichloride (1,1-Dichloroethane)
50000	Formaldehyde
76448	Heptachlor
118741	Hexachlorobenzene
87683	Hexachlorobutadiene
77474	Hexachlorocyclopentadiene
67721	Hexachloroethane
822060	Hexamethylene-1,6-diisocyanate
680319	Hexamethylphosphoramide
110543	Hexane
302012	Hydrazine
7647010	Hydrochloric acid
7664393	Hydrogen fluoride (Hydrofluoric acid)
123319	Hydroquinone
78591	Isophorone
58899	Lindane (all isomers)
108316	Maleic anhydride
67561	Methanol
72435	Methoxychlor
74839	Methyl bromide (Bromomethane)
74873	Methyl chloride (Chloromethane)
71556	Methyl chloroform (1,1,1-Trichloroethane)
78933	Methyl ethyl ketone (2-Butanone)
60344	Methyl hydrazine
74884	Methyl iodide (Iodomethane)
108101	Methyl isobutyl ketone (Hexone)
624839	Methyl isocyanate
80626	Methyl methacrylate
1634044	Methyl tert butyl ether
101144	4,4-Methylene bis(2-chloroaniline)
75092	Methylene chloride (Dichloromethane)
101688	Methylene diphenyl diisocyanate (MDI)
101779	4,4´-Methylenedianiline
91203	Naphthalene
98953	Nitrobenzene
92933	4-Nitrobiphenyl
100027	4-Nitrophenol
79469	2-Nitropropane
684935	N-Nitroso-N-methylurea
62759	N-Nitrosodimethylamine
59892	N-Nitrosomorpholine
56382	Parathion
82688	Pentachloronitrobenzene (Quintobenzene)
87865	Pentachlorophenol
108952	Phenol
106503	p-Phenylenediamine
75445	Phosgene
7803512	Phosphine
7723140	Phosphorus
85449	Phthalic anhydride
1336363	Polychlorinated biphenyls (Aroclors)
1120714	1,3-Propane sultone
57578	beta-Propiolactone
123386	Propionaldehyde
114261	Propoxur (Baygon)
78875	Propylene dichloride (1,2-Dichloropropane)
75569	Propylene oxide
75558	1,2-Propylenimine(2-Methyl aziridine)
91225	Quinoline
106514	Quinone
100425	Styrene
96093	Styrene oxide
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin
79345	1,1,2,2-Tetrachloroethane
127184	Tetrachloroethylene (Perchloroethylene)
7550450	Titanium tetrachloride
108883	Toluene
95807	2,4-Toluene diamine
584849	2,4-Toluene diisocyanate
95534	o-Toluidine
8001352	Toxaphene (chlorinated camphene)
120821	1,2,4-Trichlorobenzene
79005	1,1,2-Trichloroethane
79016	Trichloroethylene
95954	2,4,5-Trichlorophenol
88062	2,4,6-Trichlorophenol
121448	Triethylamine
1582098	Trifluralin
540841	2,2,4-Trimethylpentane
108054	Vinyl acetate
593602	Vinyl bromide
75014	Vinyl chloride
75354	Vinylidene chloride (1,1-Dichloroethylene)
1330207	Xylenes (isomers and mixture)
95476	o-Xylenes
108383	m-Xylenes
106423	p-Xylenes
0	Antimony Compounds
0	Arsenic Compounds (inorganic including arsine)
0	Beryllium Compounds
0	Cadmium Compounds
0	Chromium Compounds
0	Cobalt Compounds
0	Coke Oven Emissions
0	Cyanide Compounds[1]
0	Glycol ethers[2]
0	Lead Compounds
0	Manganese Compounds
0	Mercury Compounds
0	Fine mineral fibers[3]
0	Nickel Compounds
0	Polycylic Organic Matter[4]
0	Radionuclides (including radon)[5]
0	Selenium Compounds

For all listings above which contain the word "compounds" and for glycol ethers, unless otherwise specified, these listings are defined as including any unique chemical substance that contains the named chemical as part of that chemical's infrastructure.

[1] X´CN where X = H´ or any other group where a formal dissociation may occur. For example KCN or $Ca(CN)_2$.

[2] Includes mono- and di- ethers of ethylene glycol, diethylene glycol and triethylene glycol $R(OCH_2CH_2)_n$-OR' where:

n = 1, 2 or 3

R = alkyl C7 or less, or phenyl or alkyl substituted phenyl

R´ = H, or alkyl C7 or less, or carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate.

[3] Includes mineral fiber emissions from facilities manufacturing or processing glass, rock or slag fibers or other mineral derived fibers of average diameter one (1) micrometer or less.

[4] Includes organic compounds with more than one (1) benzene ring and which have a boiling point greater than or equal to 100°C.

[5] A type of atom which spontaneously undergoes radioactive deca