



MAJOR SOURCE OPERATING PERMIT APPLICATION  
 PAINTING AND COATING OPERATIONS

1. FACILITY NAME:					2. PROCESS DESCRIPTION:							
3. YEAR OF CONSTRUCTION OR LAST MODIFICATION:					4. STACK ID OR FLOW DIAGRAM POINT IDENTIFICATION ( S ):							
IF THE EMISSIONS ARE CONTROLLED FOR COMPLIANCE, ATTACH AN APPROPRIATE AIR POLLUTION CONTROL SYSTEM FORM. IF THIS OPERATION IS MONITORED FOR COMPLIANCE, PLEASE ATTACH THE APPROPRIATE COMPLIANCE DEMONSTRATION FORM.												
5. NORMAL OPERATION SCHEDULE: _____ HRS/DAY _____ DAYS/WK _____ DAYS/YR												
6. OVEN CURING (COMPLETE IF APPLICABLE): NUMBER OF OVENS: _____ TEMPERATURE OF AIR CONTACTING COATED MATERIAL AS IT LEAVES THE OVEN (°F): _____ SPECIFY OVEN FUELS: _____ TOTAL MAXIMUM HEAT INPUT TO EACH OVEN: _____												
7. APPLICATION TECHNIQUE AND TRANSFER EFFICIENCY (%):												
8. COMPLETE THE FOLLOWING TABLE - ATTACH ADDITIONAL TABLES AS NEEDED - FILL IN ONLY THE ITEMS NECESSARY FOR DETERMINATION OF COMPLIANCE WITH EMISSION STANDARD(S).												
IDENTIFY INKS AND SOLVENTS: ( NAME OR TYPE OF INK )	MAXIMUM USAGE:		NORMAL USAGE GAL/MO	COATING COMPOSITION: VOLUME AND WEIGHT PERCENT AS APPLIED						DENSITY OF SOLVENT FRACTION LBS/GAL	COATING DENSITY LBS/GAL	
	GAL/HR	GAL/MO		SOLIDS		SOLVENTS ( VOCs )		WATER				EXEMPT SOLVENT
				VOL %	WT %	WT %	VOL %	WT %	VOL %	WT %		
TOTAL INKS												
LIST THE THINNING SOLVENTS USED WITH THE COATINGS IDENTIFIED ABOVE:												
( 1 ):												
( 2 ):												
CLEAN-UP SOLVENTS:												
OTHER ( SPECIFY ):												
9. LOCATION OF THIS OPERATION IN UTM COORDINATES: UTM VERTICAL: _____ UTM HORIZONTAL: _____												
10. PAGE NUMBER:			REVISION NUMBER:				DATE OF REVISION:					

INSTRUCTIONS FOR APC FORM V.9  
PAINTING OR COATING OPERATIONS

SOURCES THAT ARE REQUIRED TO OBTAIN A PERMIT UNDER PARAGRAPH 1200-3-9-.02(11) OF TENNESSEE AIR POLLUTION CONTROL REGULATIONS, MUST COMPLETE AND RETURN THIS FORM, IF APPLICABLE. APPLICATIONS ARE INCOMPLETE UNLESS ALL APPLICABLE INFORMATION REQUESTED HEREIN IS SUPPLIED. FAILURE TO SUPPLY ANY ADDITIONAL INFORMATION REQUESTED BY THE TECHNICAL SECRETARY TO ENABLE HIM TO ACT ON THE APPLICATION MAY RESULT IN DENIAL OF THIS APPLICATION. IF THERE IS ADDITIONAL INFORMATION THAT WILL NOT FIT ON A FORM, PLEASE DECLARE THE INFORMATION ON ADDITIONAL SHEET(S) AND ATTACH IT TO THE BACK OF THE ORIGINAL.

IF YOU WISH TO PROVIDE ADDITIONAL INFORMATION TO DEFINE ALTERNATIVE OPERATING SCENARIOS OR DEFINE PERMIT TERMS AND CONDITIONS ALLOWING EMISSIONS TRADING UNDER A FEDERALLY ENFORCEABLE EMISSIONS CAP TO BE ESTABLISHED IN THE PERMIT, PLEASE DECLARE THE INFORMATION ON AN APC FORM(S) OR ON ADDITIONAL SHEET(S). UNLESS OTHERWISE REQUESTED AS A LIMITING CONDITION, PERMIT IS BASED ON 8,760 HRS/YR.

ITEM 2 PROVIDE THE MANUFACTURER'S NAME AND THE EQUIPMENT'S MODEL NUMBER. SPECIFY THE PRODUCTS AND SUBSTRATE TO BE COATED OR PAINTED. FURTHERMORE, SPECIFY THE MAXIMUM PROCESS WEIGHT RATES FOR THIS OPERATION IN POUNDS PER HOUR (MAXIMUM WEIGHT IS THE MAXIMUM WEIGHT OF COATING AND PRODUCTS PER HOUR). USE SEPARATE SHEET IF NECESSARY.

ITEM 3 PROVIDE THE INSTALLATION DATE OR DATE OF LAST MODIFICATION, WHICHEVER IS LATER, FOR THIS EQUIPMENT.

ITEM 4 IDENTIFY THE STACK EXHAUSTING THE EMISSIONS FROM THIS OPERATION (e.g., STACK #12, STACK #20, etc.).

ITEM 6 SPECIFY TEMPERATURE OF AIR CONTACTING COATED MATERIAL AS IT LEAVES THE OVEN, SPECIFY NUMBER OF OVENS, THEIR FUELS, AND THEIR MAXIMUM HEAT INPUT IN MILLION BTU PER HOUR.

ITEM 7 SPECIFY THE APPLICATION TECHNIQUE FOR THIS OPERATION (e.g. SPRAYING, ROLL COATING, etc.). SPECIFY THE TRANSFER EFFICIENCY FOR THIS OPERATION. TRANSFER EFFICIENCY IS THE PORTION OF COATING SOLIDS WHICH ADHERES TO THE SURFACE BEING COATED DURING THE APPLICATION PROCESS, EXPRESSED AS A PERCENTAGE OF THE TOTAL VOLUME OR WEIGHT OF COATING SOLIDS DELIVERED TO THE APPLICATION.

$$\text{TRANSFER EFFICIENCY} = \frac{\text{WEIGHT OF SOLIDS ADHERED TO SUBSTRATE}}{\text{TOTAL WEIGHT OF SOLIDS DELIVERED TO SUBSTRATE}} \times 100$$

ITEM 8 INCLUDE ALL PAINTS, COATINGS, AND CLEAN-UP SOLVENTS USED IN THIS OPERATION OR OPERATION OR PROJECTED FOR USE IN THE FUTURE UNDER ALTERNATIVE OPERATING SCENARIOS.

SPECIFY THE MAXIMUM AMOUNT OF COATING OR SOLVENT USED IN GALLONS PER DAY, AND PER MONTH.

SPECIFY THE NORMAL USAGE OF COATINGS AND SOLVENTS IN GALLONS PER MONTH.

SPECIFY THE COMPOSITION OF COATINGS IN VOLUME PERCENT AND WEIGHT PERCENT, AS APPLIED. FOR EACH COATING, SPECIFY THE VOLUME AND WEIGHT PERCENTAGE OF SOLIDS, WATER, AND EXEMPT SOLVENTS. FOR EACH COATING, SPECIFY THE WEIGHT PERCENTAGE OF SOLVENTS. "EXEMPT SOLVENTS" MAY BE FOUND UNDER THE DEFINITION OF "EXEMPT COMPOUNDS" IN RULE 1200 3-18-.01 OF TENNESSEE AIR POLLUTION CONTROL REGULATIONS.

SPECIFY THE DENSITY OF THE SOLVENT FRACTION IN POUNDS PER GALLON, AS APPLIED. DENSITY OF SOLVENT FRACTION CAN BE CALCULATED BY DIVIDING THE TOTAL WEIGHT OF ALL THE SOLVENTS IN EACH COATING (MINUS THE TOTAL WEIGHT OF EXEMPT SOLVENTS AND WATER) BY TOTAL VOLUME OF SOLVENTS IN THE COATING.

$$\text{DENSITY OF SOLVENT FRACTION} = \frac{\text{WEIGHT OF ALL SOLVENTS (EXCLUDING EXEMPT SOLVENTS AND WATER)}}{\text{GALLONS OF SOLVENTS (EXCLUDING EXEMPT SOLVENTS AND WATER)}}$$

THE DENSITY OF SOLVENT FRACTION AND OTHER PROPERTIES CAN BE OBTAINED FROM YOUR COATING SUPPLIER. PLEASE CONSULT WITH YOUR SUPPLIERS AND REQUEST THIS INFORMATION.

SPECIFY THE DENSITY OF EACH COATING IN POUNDS PER GALLON.

SPECIFY THE COATING CATEGORY (e.g., AIR DRIED, CLEAR, OVEN CURED, EXTREME PERFORMANCE, etc.). A COATING IS CONSIDERED OVEN CURED IF THE OVEN AIR IS HEATED IN EXCESS OF 194 °F. EXTREME PERFORMANCE COATINGS ARE THOSE COATINGS INTENDED FOR EXPOSURE TO EXTREME ENVIRONMENTAL CONDITIONS. AIR DRIED COATING MEANS A COATING THAT IS DRIED BY THE USE OF AIR OR FORCED WARM AIR AT TEMPERATURES UP TO 194 °F.

ITEM 10 PAGE NUMBER MUST BE FILLED IN. REVISION NUMBER AND DATE OF REVISION ARE TO BE FILLED IN ONLY IF THE INFORMATION ON THIS FORM IS BEING REVISED.

FILL IN ITEM 8 WITH WHAT IS NECESSARY TO DETERMINE COMPLIANCE WITH EMISSION STANDARD(S) FROM THE APPLICABLE REQUIREMENT(S). IF ANY ITEM ON THIS APPLICATION IS NOT APPLICABLE TO THIS FACILITY, THE ITEM MUST BE FILLED IN WITH "NOT APPLICABLE" OR "N/A".