

PERMIT APPLICATION FOR VOLATILE ORGANIC COMPOUND (VOC) SURFACE COATING EMISSION SOURCES ADEM FORM 109 ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AIR DIVISION

INSTRUCTIONS FOR COMPLETION OF PERMIT APPLICATION FOR VOLATILE ORGANIC COMPOUND (VOC) SURFACE COATING EMISSION SOURCES ADEM FORM 109

Please review entire form before completion.

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Item 3: The type of process for which this form is to be completed should be indicated. Separate forms are to be submitted for each type of process and/or for multiple units of one process type (i.e., different coating lines should have separate 109 forms filled out).

Item 4: Self-explanatory.

Item 5: Describe how the operation works and what is the final product. A process flow diagram should also be included to clarify your

explanation. See item 13.

Item 6: Operating time for this process only (i.e., actual coating time). Please do not specify 24 hours/7 days/ 52 weeks unless this is actually

the case. This will not place a restriction upon your process unless you specifically request it.

All coatings, as they are utilized in the process, are to be identified. The percentages indicated should be by weight, <u>not</u> volume.

Attach calculations for pounds of Volatile Organic Compounds (VOCs) and Hazardous Air Pollutants (HAPs) per year. Organic liquid

diluents added to the paint by your company should be included in item 7 and not here. Organic liquid solvents used for wash or clean up should be included in item 8 and not here (use additional sheets as necessary). Please do not include Safety Data Sheets (SDS) or

Certified Data Sheets (CDS) unless requested by the evaluator.

Item 8: Description of each organic diluent added to coatings. The quantity of chemicals accounted for here should <u>not</u> be included in item 6

or item 8. Attach calculations for pounds VOC and HAP per year (use additional sheets as necessary).

Item 9: Description of each organic liquid solvent used for wash or clean up. The quantity of chemicals accounted for here should <u>not</u> be

included in item 6 or item 7. Attach calculations for pounds VOC and HAP per year (use additional sheets as necessary).

Item 10: Warm air tunnel dried: dried at ambient temperatures (<100 °F). Oven dried: dried at greater than ambient temperatures

(>100 °F). Air dried: dried with no heat added. List fuels used and characteristics of fuels for this process only.

Item 11: Emission points should be labeled both here, under Item 16 and on attached flow diagram (item 12). Stack height is that above ground

level. GEP Stack Height, which means Good Engineering Practice (GEP) stack height as defined in ADEM Administrative Code r. 335 3 14 .03(2)(a)5, 335 3 15 .02(9)(a)5, or 335 3 16 .02(10)(a)5, as applicable, should only be used if the stack is 65 meters measured from ground level elevation at the base of the stack and a GEP analysis has been performed or if the stack is a grandfathered stack, thus yielding a GEP stack height equivalent to "Height above grade." UTM Coordinates, which means *Universal Transverse Mercator* Coordinates, for Alabama, N-S is between 3337.000km-3875.000km and E-W is between 362.000km-709.000km; Zone 16. Standard temperature is 68°F; standard pressure is 29.92 inches of Hg., or 1 atm. Volume of gas discharged can be calculated with the gas velocity (FPS) and stack diameter (Ft). Emission points not associated with a stack or vent should be labeled as "fugitives" under stack

height.

Item 12: Self-explanatory

Item 13: If answer to this item is yes, the application will not be considered complete unless ADEM Form 110 is provided.

Item 14: If answer to this item is yes, ADEM Form 110 need not be completed.

Item 15 Self-explanatory

Item 16: Each air contaminant which is known or suspected to be emitted from each emission point is to be listed. List VOC, combined HAPs,

each speciated HAP, and other pollutants as applicable. (For example: Do <u>not</u> list just "VOC"; instead, list specific chemicals such as toluene, xylene etc.). The allowable emission specified in the Regulation must be stated. The Department must be assured that the

owner or operator has a clear understanding of the allowable emission rate.

Item 17-18: May be included as part of monitoring plan (if so, please indicate in space provided); attach additional sheets as necessary.

Item 19 If answer to this item is no, please complete ADEM Form 437.

Item 20: For existing sources only, attach a detailed chronological history of the process.



SURFACE COATING EMISSION SOURCES ADEM FORM 109

	Do not write in this space
1.	Name of facility or organization:
2.	Identification Name or Number given to this process:
3.	Type of surface coating process:
4.	Source Classification Code(s):
5.	Briefly describe the operation of this surface coating process in your facility:
6.	Typical operating schedule:
	Hours/ day: Days/ week: Weeks/ year:
	Peak production season (if any):

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7. Coating material used in unit or process (as applied). Do not include diluents added to coatings (see item 7).

Coating Material	Coating Method	Total gal/hr	Density Ibs/gal	% wt Solid	% wt Water	% wt VOC	% wt HAP	VOC's applied lbs/year	HAP's applied lbs/year
						Tabel			
							lbs/year) ons/year)		
						TOTAL (I	Ulis/ yedl)		

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Diluents	Amt. added per gallon	Coating material	Total gal/yr.	Densit Ibs/ga	•	% wt Water	% wt HAP	% wt VOC	HAP's lbs/yea	
							<u> </u>	., ., .		
							Tota	l (pounds/year)		
							Tot	tal (tons/year)		
acceintion of all a	rania liavid aabvanta va	ad for work or al								
escription of all of	rganic liquid solvents us	ed for wash or ci	ean up:							
			otal	Density	% \	wt	% wt	% wt	HAP's	VOC's
	Solvents	ga	l/yr.	lbs/gal	Wa	ter	HAP	VOC	lbs/year	lbs/year
									1	
							Total (po	ounds/year)		
						L	l otal (t	ons/year)		
After coating, mat	erials are:	en dried	Air dried	Warm air	tunnel dri	ed				
_		_								
	n air tunnel dried, the to viously described on AE				y indirect r MBtu/hr	ieating				
			- 		,					
		eat			эх. %	Grade		Suppli		
<u> </u>		itent Un		Sulfur A	Ash	[fuel oi	l only]	[used oil	only]	
Coa	l Oil	Btu								
	ural Gas	Btu/ Btu/								
	Gas	Btu								

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Btu/lb

Wood

Other (specify)

Air contaminant emission points: (each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram; attach 11. additional sheets as necessary): Stack Inside **Emission** Geographic Height GEP Inside Area if Gas Exit Volume of Exit Merged **UTM Coordinates** Diameter for Base **Emission Point** Point Coordinates **NOT Round** Above Stack Velocity Gas Gas Stack** Elevation Round Type Grade Height Opening (sq. (Feet/ Discharged Temp. (Feet) Opening E-W N-S (Feet) (Feet) feet) Sec) (ACFM) (ºF) LAT LONG (Feet) (km) (km) \Box * std temperature is 68°F - std pressure is 29.92" in hg or 1 atm. ** If this is a merged stack with multiple units using this release point, please provide additional information including which units and any different operating scenarios. 12. Attach a flow diagram to illustrate locations of air contaminant release so that emission points under item 11 can be identified. 13. Is there any emission control equipment on this unit or process? Yes No (if "Yes", complete ADEM Form 110) Does this process have particulate filters? 14. Yes No Do you operate a coating line located within a permanently installed enclosure that directs all exhaust gases from the enclosure to a control device that meets the criteria of 15. Method 2014 of Appendix M, 40 CFR Part 51? Yes No Not Applicable

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EMISSION POINT	FUGITIVE ONLY	POLLUTANT	UNCONT POTEI EMISS	NTIAL	POTE	ROLLED INTIAL SIONS	BASIS OF CALCULATION	REGULATORY EMISSION LIMIT (Provide in lb/hr o other Unit of
			lb/hr	ton/yr	lb/hr	ton/yr		Measure)
_	ed pollutant, o	describe any limi	tations on s	source op	eration o	any work	practice standards	which affect
issions: Are you requesti	ed pollutant, o	·	∐Yes □]No if "ye	s", specif	y the limit	and affected unit(s)	
issions: Are you requesti	ed pollutant, o	n for permitting?	Yes]No if "ye	s", specif	y the limit	and affected unit(s)	
Is this surface	ed pollutant, on a limitation continuo (if "no", ources only, a	n for permitting? ess in compliance complete ADEM I	☐Yes ☐ with all app Form 437)]No if "ye	s", specif pollution	y the limit rules and r	and affected unit(s)):
Is this surface	ed pollutant, or a limitation of the coating processing	n for permitting? ess in compliance complete ADEM I ttach a chronolog the modification(☐Yes ☐ with all app Form 437)]No if "ye	s", specif pollution	y the limit rules and r	and affected unit(s)):

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