

## **Guidelines for Reporting Emissions from Automotive Body Shop Operations**

December 2024

#### Introduction

Automotive repair facilities or any facility that uses automotive paints and coatings may be required to report their emissions under South Coast Air Quality Management District's (South Coast AQMD's) Rule 301(e) or the California Air Resource Board's (CARB's) Regulation for the reporting of Criteria Air Pollutants and Toxic Air Contaminants Regulation (CTR). This reporting is done through the Annual Emissions Reporting (AER) WebTool.

The activity threshold for reporting applicability is 50 gallons of total coating use. Auto body facilities which meet or exceed this activity threshold must submit an AER for data year 2024. Annual reporting will be required for data year 2026 and subsequent years the facility exceeds the threshold. The threshold includes 50 gallons of total cumulative coatings e.g., 25 gallons of color coat and 25 gallons of clear coat, or 50 gallons of primer alone.

Coatings are composed of solvents and solids. The solvent is the liquid component that the solids are dissolved in and contain volatile organic compounds (VOC) pollutants. Some coatings are water-based and contain little to no VOC. The solids consist of binders and pigments which are particulate matter (PM) pollutants. The solvent (VOCs) evaporates after application and a portion of the solids (PM) remain on the surface of the substrate coated. When coatings are sprayed, some solids become airborne and become PM emissions. A typical automotive spray booth can control some but not all PM emissions. Both the solvent and solid portions of a coating can contain toxic air contaminants which also be reported. Therefore, to comprehensively report all emissions from coating operations, the report must contain VOC, PM, and listed toxic air contaminants. Additionally, facilities that operate a natural gas-fired, heated spray booth will need to report combustion emissions associated with that heater.

#### **Default Emission Factors**

Emissions in the AER WebTool are calculated using coating throughputs, emission factors, transfer efficiencies, and control efficiencies. The amount of a category of paint used in a paint spray booth, typically in gallons, is the throughput of that paint category for that spray booth (termed a 'device' or 'emission source' in the WebTool). The amount of natural gas used to heat a paint spray booth, if so equipped, would be the throughput for that heater. Emission Factors (EFs) are ratios of how much emissions are produced for a particular throughput of that activity. In the case of coatings, the emission factor is typically described in pounds of pollutant per gallon of paint (e.g., lb/gal).

South Coast AQMD has provided default EFs for various automotive coatings categories for reporting.<sup>1</sup>

Reporters may elect to use product-specific emission factors used at the facility instead of the provided defaults. This document describes how to select non-default EFs. If the reporter elects to use non-default EFs, methodology is available in the technical appendix of this document.

#### VOC Emissions

The emission factor for VOC coatings is the VOC content. Default VOC emission factors provided in the AER WebTool are based on Rule 1151 limits and will auto-populate during reporting.

#### PM Emissions

#### PM Control Efficiency

Particulate matter is captured by the filters in the spray booth. The default control efficiency of standard spray booth filters is 90 percent, which will populate in the AER WebTool as 0.90.

#### PM Transfer Efficiency

While the goal of applying a coating is to cover the substrate with a protective or decorative coating, not all application methods result in all the coating applied to the substrate. Brush application or dipping parts into paint results in all the coating applied to the substrate. However, when sprayed, some of the coating does not adhere to the substrate. The transfer efficiency represents the fraction of the coating that adheres to the substrate. High volume, low pressure (HVLP) spray guns have a default transfer efficiency of 65 percent, which is entered as a fraction into the AER WebTool. This means that 65 percent of the PM portion of the coating adheres to the substrate, and 35 percent of the PM portion of the coating is emitted to the air.

#### PM Solid Content

PM emissions are estimated from the solid content of the coatings. Default solid contents are provided by the AER WebTool. The default solid content 3.0 lb/gal.

#### Toxic Air Contaminant Emissions

Toxic Air Contaminants (TACs) in coatings are categorized as either PM or VOC. PM TACs are the TACs that make up the solid portion of the coating while VOC TACs are the TACs that make up the solvent portion of the coating. The AER WebTool will provide the correct transfer efficiency based on the type of application and coating category the user enters. Default TAC emissions will also be automatically loaded.

#### Solvent Use

Cleaning solvents are used for various cleaning operations at an auto body facility. Solvents containing VOC must also be reported. Other cleaning products not containing VOC, such as

<sup>&</sup>lt;sup>1</sup> See Excel file listing default emission factors for auto body coatings: <u>https://www.aqmd.gov/docs/default-source/planning/annual-emission-reporting/final-automotive-ef-for-im-11-01-2024-with-tac-id-and-voc-pm.xlsx</u>

acetone, do not have to be reported. If the VOC content of the cleaning products used on site is unknown, the user can use a VOC content of 0.21 lbs/gal (25 g/L) (Rule 1171 limit).

#### Heater Emissions

Some spray booths are equipped with natural gas heaters to accelerate drying or curing of the applied coatings. Combustion of natural gas generates emissions and must be reported. Default combustion emission factors are provided in the WebTool. The reporter may estimate gas usage from direct measurement, such as a gas meter, or from utility bills. Electric heaters do not generate emissions and therefore do not need to be reported.

If the natural gas heater is equipped with a gas meter, use the meter to obtain the annual throughput. Otherwise, gas usage can be estimated using gas bills. Gas bills often provide a monthly average usage in units of therms. This monthly average can be multiplied by 12 to estimate the annual usage. If more than one booth is equipped with a natural gas heater, divide the annual throughput by the number of booths to estimate the usage of each booth.

#### **Reporting Spray Booth Emissions in the AER WebTool**

Spray booths do not qualify for Abbreviated Reporting. Do not select Abbreviated Reporting if the facility includes a spray booth.

 For most facilities all permitted equipment, including spray booths, will be preloaded in the AER WebTool. Under the Emission Sources (ES) tab, these permitted devices are found in the green table. To view details and edit these pieces of equipment, select the blue profile link on the left-hand side of the table. If the user does not see their device, they can click on the orange button above 'Add New Emission Source' and add the device.

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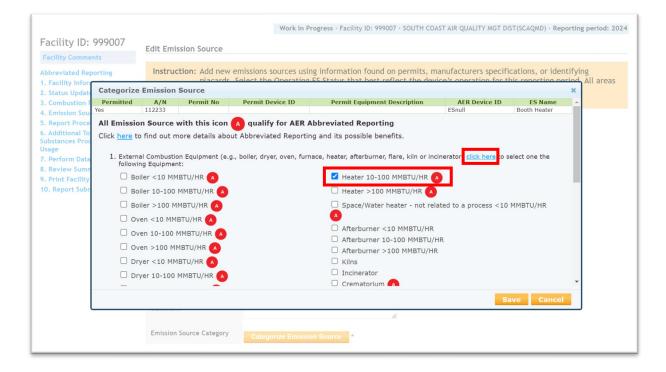
2. Fill out all required information as denoted by the red asterisk next to the field. Required fields including ES Name (the user should enter the name used at the facility for the device for easy reference, e.g., Booth No 1), and then select the Operating ES Status from the drop-down menu.

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3. Next, click on the orange Categorize Emission Source button. The pop-up window shown in the image below will appear. Select "Click Here" in Item 3. Spray Coating/Spray Booth, then check the box for "Automotive Spray Booth".

If your spray booth is equipped with a gas fired heater you will also need to categorize it in this step. Select "Click Here" 1.External Combustion Equipment. then check the box for heater based on the rating of the heater. Most spray booth heaters are in the 10-100 MMBTU Range, but you can check your equipment or permit to verify. (Instructions for heated booths continue in step 10 of this guidance document). Finally, click the orange save button at the bottom of the dialog box.

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		Underbody Coating

4. Several options will appear under the Categorize Emission Source button. Select the application type of the spray booth from the drop-down menu. Next, check the boxes for the all the types of coatings that were applied in the spray booth during the year. Be sure to add all coatings here before proceeding, as returning to this page to make edits may cause data loss.

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5. Once the types of coatings are selected you can click the orange 'Save and Return to List of Emission Sources' button to return to the previous Emission Source page or click the 'Save and Proceed to Process Reporting' button to continue to emissions reporting for this device. For this example, user should click on 'Save and Proceed to Process Reporting' button.

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6. The following window will then pop-up showing processes for each of the types of coatings selected previously. Click the blue Open link next to the first Spray Coating/Spray Booth option in the table. The user can also open the processes from the '5. Report Processes/Emissions' page on the left-hand menu of the page and navigating to the 'Spray Coating/Spray Booth' category.

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7. Click the blue Open link under Step 2: Throughput and fill out all required information as denoted by the red asterisks next to the fields. This will include the throughput and how the throughput measurement was acquired or recorded. Click on the orange Save button once all relevant information has been entered.

Please provide specific information for every process associated with the organics used in spray coating/spray booth including usage, emission factor, and control efficiency (if any). Please start with Step 1, edits to Step 1 may cause data in the following steps to reset. Detailed instructions are available by clicking on Help icon in the tool bar.         Is       steps to reset. Detailed instructions are available by clicking on Help icon in the tool bar.         Is       Abbreviated Reporting         Certain combination of equipment code and fuel source may disqualify you from Abbreviated Reporting. As part of Abbreviated Reporting, you Must only use AQMD Default Emission Factors.         If you select anything other than AQMD Default Emission Factors you will be disqualified from Abbreviated Reporting.         Step 1: Process         Optional: Mark as Completing in the Device ID         AER Device       Permit         ID       Device ID         Aterial       Device ID         Aterial       Device ID	: 999007	Contraction of the local distance		on Source i			e					
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Open         VOC         2.10000000e+0         lbs /         AQMD default           Open         PM         1.0500000e+0         lbs /         AQMD default         0.90000000           Add New			Dellute			FF		11	EE Data Sauras	Overall CE	Emir	daar
Open         PM         1.05000000e+0         Ibs /         AQMD default         0.90000000           Add New		Open					2.1000000			Overall CE	Emis	SIONS
			10.00							0.900	00000	
Step 4: Toxic (TAC/ODC) Emissions (lbs)		Add	l New									
Step 4: Toxic (TAC/ODC) Emissions (lbs)												
		Step 4	4: Toxic (T	AC/ODC) E	missio	ns (lbs)						

Facility Comments bbreviated Reporting . Facility Information	usage, e	mission fac	ctor, an	d control	effici	ency (if any). Plea	iated with the organise start with Step ng on Help icon in t	1, edits to Ste				
. Status Update . Combustion Fuels . Emission Sources (ES)	Certain c		of equip	ment code		uel source may disqu	alify you from Abbrev	iated Reporting.				
5. Report Process/Emissions	Edit T	hroughput	Inform	nation -	Spray	Coating/Spray B	ooth		ж			
External Combustion	AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Material/	Activity Code	Material Description	SCC	Optional:	Mark as Co	ompleted
Use of organics Spray Coating/Spray	ES4		111111	P2	1151	Coating:Motor Vehicle Non-Assembly Line Co Application:Clear Coat	ating Operations: HVLP	Clear Coating	40201606		Material	SCC
Booth						Annual Throughpu	t				Description	500
Other Use of Organics						100.00000000 gal				Cle	ear Coating	4020160
	Usage	(Annual Throu	ughput)	100.0		00 * 9	gal 🗸 \star			lick here t	o delete thi	s process
Fugitive Components	Throug	hput Type		Input	<b>v</b> *							
	S Throug	hput Origin		Direct	t meas	urement		<b>v</b> :				
Process Upset Additional Toxic	Usage	Comment										
ubstances Production and												
sage								Save C	ancel			
Perform Data Validation	Stop or o		0010110	(199)						J		
Review Summaries												
Print Facility Report		Pollutant		EF		Unit	EF Data Sourc	e (	overall CE		Emission	
. Report Submission	Open	VOC				00e+0 lbs / gal	AQMD default					0000000e+
	Open	PM		1.	0500000	00e+0 lbs / gal	AQMD default		0.90000	0000	1.0	5000000e+

8. The AER WebTool will automatically calculate both criteria and toxic pollutant emissions based on the user entered throughput using default emission factors. Click on the orange 'Back to Emission Source Process Reference' button at the bottom of the page to return to the list of coatings.

	Pollutant	EF	Unit	EF Data Source	Overall CE	Emissions
<u>Open</u>	VOC	2.1000000e+0		AQMD default		2.1000000e+
Open	PM	1.0500000e+0	lbs / gal	AQMD default	0.9000000	1.0500000e+

acility ID: 999007					gai	Gerautt		
Facility Comments	<u>Open</u>	Diethylene glycol monoethyl ether	111900	2.73110390e-5	lbs / gal	AQMD default		2.73110390e
bbreviated Reporting	<u>Open</u>	Ethylene glycol monobutyl ether acetate	112072	3.21300674e-2	lbs / gal	AQMD default		3.21300674e
. Facility Information . Status Update	<u>Open</u>	Diethylene glycol monobutyl ether	112345	5.46219343e-6	lbs / gal	AQMD default		5.46219343e
. Combustion Fuels . Emission Sources (ES)	<u>Open</u>	Ethylene glycol monophenyl ether	122996	1.60272500e-3	lbs / gal	AQMD default		1.60272500e
5. Report Process/Emissions	<u>Open</u>	Diethylene glycol monobutyl ether acetate	124174	4.42969017e-3	lbs / gal	AQMD default		4.429690176
Combustion External Combustion	<u>Open</u>	Dipropylene glycol	25265718	1.89480086e-6	lbs / gal	AQMD default		1.894800866
Internal Combustion	<u>Open</u>	Dipropylene glycol monomethyl ether	34590948	1.38933456e-4	lbs / gal	AQMD default		1.389334566
Use of organics Spray Coating/Spray	<u>Open</u>	n-Butyl alcohol	71363	5.19540835e-4	lbs / gal	AQMD default		5.195408356
Booth Other Use of Organics	<u>Open</u>	Hexane	110543	3.02371114e-6	lbs / gal	AQMD default		3.02371114
Storage Tanks	<u>Open</u>	Hydrochloric acid	7647010	2.17100000e-9	lbs / gal	AQMD default 0.90	00000	2.17100000
Fugitive Components Other Processes	<u>Open</u>	Hexamethylene-1,6-diisocyanate	822060	1.61801278e-3	lbs / gal	AQMD default		1.61801278
Process Upset Additional Toxic	<u>Open</u>	Isophorone diisocyanate {IPDI}	4098719	6.58665430e-4	lbs / gal	AQMD default		6.58665430
ubstances Production and sage	<u>Open</u>	Methanol	67561	2.55978038e-4	lbs / gal	AQMD default		2.55978038
Perform Data Validation	<u>Open</u>	Methyl ethyl ketone {2-Butanone}	78933	6.44985210e-2	lbs / gal	AQMD default		6.44985210e
. Review Summaries . Print Facility Report	<u>Open</u>	Methyl isobutyl ketone {Hexone}	108101	5.71672143e-2	lbs / gal	AQMD default		5.71672143e
0. Report Submission	<u>Open</u>	Triphenyl phosphite [POM]	101020	5.97078326e-4	lbs / gal	AQMD default 0.90	00000	5.970783266
	<u>Open</u>	Propylene oxide	75569	4.84936855e-8	lbs / gal	AQMD default		4.84936855
	<u>Open</u>	Styrene	100425	4.22745780e-4	lbs / gal	AQMD default		4.22745780
	<u>Open</u>	Toluene	108883	1.60692694e-2	lbs / gal	AQMD default		1.60692694e
	<u>Open</u>	Cumene	98828	7.01941580e-4	lbs / gal	AQMD default		7.01941580
	<u>Open</u>	Xylenes	1330207	1.95616037e-1	lbs / gal	AQMD default		1.95616037e
	<u>Open</u>	Cyclohexane	110827	2.61585474e-5	lbs / gal	AQMD default		2.61585474
	<u>Open</u>	1-Chloro-4-(trifluoromethyl)benzene {PCBTF}	98566	3.18616372e+0	lbs / gal	AQMD default		3.18616372e
	<u>Open</u>	N-methyl-2-pyrrolidone {N-Methylpyrrolidone} {NMP}	872504	3.39789337e-4	lbs / gal	AQMD default		3.39789337
	Add	New						
	« Ba	ck to Emission Source Process Reference						

9. Once back at the list of coatings repeat Steps 6 through 8 for all the different types of coatings used in that spray booth. If reporting emissions from a heated booth proceed to step 10 of these instructions.

Facility ID: 99900	7 ғ	orm dat	a is succ	essfully	saved.									
Facility Comments														
obreviated Reporting	Bu	ild Re	porti	ng Str	ucture									
Facility Information Status Update	Emi	Emission Sources (ES) Classification												
Combustion Fuels	Process	Refere	ences										×	
Emission Sources (ES)														mission Source
. Report Process/Emissic . Additional Toxic ubstances Production an	Emissions	A/N	Permit No	Permit Device ID	Permit Device Description	AER Device ID	ES Name	ES Group Name	Source Category	Emissions?	Equipment	PERP	Release Location Linked	Profile" under the Jpload storage
sage Perform Data Validatio Review Summaries Print Facility Report	Open	123456		10	Description	ES4	Spray Booth 13	Hume	External Combustion, Spray Coating/Spray Booth	Y	Heater 10- 100 MMBTU/HR	N	NR	
). Report Submission		Pr	rocess ID		Source Group	,	Proc	ess/Ma	terial/Fuel Nar	ne	Status		Operation Type	
	Ope	en	P1	Spray	Coating/Spray	Booth		Clea	ar Coating	١	Work in progre	SS	routine	
	Ope	en	P2		Coating/Spray				or Coating		Nork in progre		routine	
	Ope		P3		Coating/Spray			Fruck Be	d Liner Coating		Work in progre		routine	
	Ope	en	P4	Ex	ternal Combust	tion				1	Work in progre	SS	routine	
	Add P	rocess	/Mater	ial/Fue										

Note: The following set of instructions pertains only to booths equipped with a gaspowered heater. If the facility has no spray booths that are heated with a natural gas heater, repeat steps 2-9 for other booths without following steps 10-14 10. To report emissions from a natural gas heater, the Fuel must be added first. From the main menu on the left click '3. Combustion Fuels' and click the orange 'Add New Fuel' button. The following menu will appear where you can select various fuel types used in the spray booth heater. Be sure to verify the correct fuel for your equipment. If there is more than one spray booth heater and they use different fuels, the other fuels should also be added during this step.

		Work In Progr	ess · Facility ID: 999007 · SOUTH COAST AIR	QUALITY MGT DIST(SCAQMD) · Reporting period: 202
Facility ID: 999007	Combustion F	uels Specification		
Facility Comments				
Abbreviated Reporting 1. Facility Information 2. Status Update	Summary:	facility.		s being burned) that were used in the burned) that were used in the facility
3. Combustion Fuels	instruction:		t include fuels used exclusively in veh	
4. Emission Sources (ES) 5. Report Process/Emissions 6. Additional Toxic	Add New Fuel	0		
Substances Production and Usage	Action	Fuel Name	Qualifies for Abbreviated Reporting	Comment
7. Perform Data Validation				
. Review Summaries				
Print Facility Report				
10. Report Submission				
		AOND web site Home LAFP Web Site	I Submit quartian / comment   Report a Run	

		Work In Progress · Fact	ility ID: 999007 · SOUTH COAST AIR QUALITY MGT DIST(SCAQMD) · Reporting period: 2024
Facility ID: 999007	Edit Combustion Fuel Date	a	
Facility Comments			
Abbreviated Reporting	Fuel	~	<u>&lt;</u>
1. Facility Information	Comment	Kerosene	
2. Status Update	connienc	BioDiesel	<i>le</i>
3. Combustion Fuels		Wood	
4. Emission Sources (ES)	Save or <u>Cancel</u>	Tires	
5. Report Process/Emissions 6. Additional Toxic		Coke	
Substances Production and		Jet Naphtha (Jet B)	
Usage		Jet A	
7. Perform Data Validation		Refinery Gas/Refinery Mixed Gas	
8. Review Summaries 9. Print Facility Report		Residual Fuel Oil No. 6	
10. Report Submission		Digester Gas (Biogas)	
		Landfill Gas (Biogas)	
	AQMD we	Aviation Gasoline	question/comment   Report a Bug
		Gasoline	
		Distillate Fuel Oil No. 4	
		Distillate Fuel Oil No. 2 (Diesel)	
		Distillate Fuel Oil No. 1	
		Propane	
		Butane	
		LPG	
		Natural Gas	

11. The user can then open the processes from the '5. Report Processes/Emissions' option on the left-hand menu of the page and navigate to the 'External Combustion' category. If the facility has multiple heated booths there will be a process listing for each of them. Click the blue 'Open' text next to the AER Device ID that is being reported.

Facility ID: 999007	External Comb	ustion							
Facility Comments Abbreviated Reporting I. Facility Information 2. Status Update	emission factor an	d control e	fficiency menu or	(if any). Co	mbustion	iated with your external co fuels must be selected o re entering data on this p	n the combustion fu	els page (see	3.
3. Combustion Fuels 4. Emission Sources (ES)  Combustion  Combustion  Exercise Login Fuel Internation  Exercise Login Fuel Internat	As part of Abbreviate	of equipmen d Reporting, y g other than	nt code and you Must or AQMD Defi	nly use AQMD ault Emission	Default Em Factors yo	ou will be disqualified from Ab			
Internal Combustion Use of organics Spray Coating/Spray	External Comb	ustion P	rocess	List Over	view				
Use of organics Spray Coating/Spray Booth	External Comb		rocess	List Over	view			(	Print Preview
Use of organics Spray Coating/Spray Booth Other Use of Organics Storage Tanks		Permit	rocess	List Over	view <sub>Status</sub>	Equipment	Fuel	Fuel Usage	Print Preview
Use of organics Spray Coating/Spray Booth Other Use of Organics	Add New Process to	ES				Equipment Heater 10-100 MMBTU/HR	Fuel	Fuel Usage	1
Use of organics Spray Coating/Spray Booth Other Use of Organics Storage Tanks Fugitive Components Other Processes Process Upset	Add New Process to	Permit	A/N	Process ID	Status Work in		Fuel	Fuel Usage	1
Use of organics Spray Coating/Spray Booth Other Use of Organics Storage Tanks Fugitive Components Other Processes	Add New Process to AER Device ID Open EST	Permit	A/N 112233	Process ID P1	Status Work in Progress Work in	Heater 10-100 MMBTU/HR	Fuel Search:	Fuel Usage	1

12. The following page will open. Click the 'Open' link under Step 1: Process and fill out all required information as denoted by the red asterisks next to the fields. This will include the fuel and the applicable rule Number. The applicable rule is Rule 1147. Click on the orange Save button once all relevant information has been entered. A dialog box will pop up informing you that Default EFs have been assigned, click the orange OK button to dismiss this dialog box.

ity ID: 999007		Emission Source P										
y Comments	Externa	l Combustio	n									
iated Reporting iity Information us Update bustion Fuels	Please provide specific information for every process associated with your external combustion Emission Sources including usage, emission factor and control efficiency (if any). Combustion fuels must be selected on the combustion fuels page (see 3. Combustion Fuels link in the menu on the left-side) before entering data on this page. Detail instructions are available by clicking on Help icon in the tool bar.											
sion Sources (ES) sort Process/Emissions oustion ternal Combustion of organics	Certain con As part of A If you selec Click <u>here</u>	Abbreviated Report ct anything other to find out more d	pment code and ting, you Must on than AQMD Defa	fuel source may o ly use AQMD Defaul ult Emission Facto eviated Reporting a	It Emission Factors you will be d	ors. disqualified f	from Abbreviated Reporting.					
ay Coating/Spray oth	Step 1: Pro	ocess					Optio	onal: Mark as	Comp	leted		
						Rule #	Equipment	PERP	Fuel	SC		
ner Use of Organics	A	ER Device ID	Permit Device	ID A/N	Process ID	reare in	Equipment	1 6.10				
ge Tanks	A Open 57	ER Device ID	Permit Device	D A/N 112233	Process ID P1	Trate #	Heater 10-100 MMBTU/HR	No				
		ER Device ID	Permit Device			riale #	Heater 10-100 MMBTU/HR		this pro	ocess		
ge Tanks	Open S7		Permit Device I				Heater 10-100 MMBTU/HR	No	this pro	ocess		
ge Tanks ive Components			Permit Device I				Heater 10-100 MMBTU/HR	No	this pro	ocess		
ge Tanks ive Components r Processes iss Upset <b>tional Toxic</b>	Open S7	roughput		112233			Heater 10-100 MMBTU/HR Click h	No	this pro	ocess		
ge Tanks ive Components r Processes iss Upset	Open S7	roughput	Permit Device I	112233			Heater 10-100 MMBTU/HR	No	this pro	ocess		
ge Tanks ive Components r Processes iss Upset <b>tional Toxic</b>	Open Step 2: The Open	roughput	Annual Throughput	112233			Heater 10-100 MMBTU/HR Click h Criteria/Toxic Throughput	No ere to <u>delete</u>				
ge Tanks ive Components Processes uss Upset tional Toxic nees Production and orm Data Validation ew Summaries	Open Step 2: The Open	roughput	Annual Throughput	112233			Heater 10-100 MMBTU/HR Click h	No ere to <u>delete</u>				
ge Tanks ive Components • Processes so Upset tional Toxic acces Production and orm Data Validation ew Summaries t Facility Report	Open Step 2: The Open	roughput , teria Emissions	Annual Throughput : (Ibs)	112233			Heater 10-100 MMBTU/HR Click h Criteria/Toxic Throughput Use Default Em	No ere to <u>delete</u>	if avai			
ge Tanks ive Components Processes uss Upset tional Toxic nees Production and orm Data Validation ew Summaries	Open 357 Step 2: Thi Open Step 3: Cri	roughput / teria Emissions Pollutant	Annual Throughput	112233 Unit			Heater 10-100 MMBTU/HR Click h Criteria/Toxic Throughput	No ere to <u>delete</u>	if avai			
ge Tanks ive Components • Processes so Upset tional Toxic acces Production and orm Data Validation ew Summaries t Facility Report	Open 37 Step 2: Thi Open Step 3: Cri	roughput teria Emissions Pollutant VOC	Annual Throughput : (Ibs)	112233 Unit Ibs /			Heater 10-100 MMBTU/HR Click h Criteria/Toxic Throughput Use Default Em	No ere to <u>delete</u>	if avai			
ge Tanks ive Components • Processes so Upset tional Toxic acces Production and orm Data Validation ew Summaries t Facility Report	Open 37 Step 2: Thi Open Step 3: Cri Open Open	roughput / teria Emissions Pollutant Voc NOx	Annual Throughput : (Ibs)	112233 Unit Ubs / Ubs /			Heater 10-100 MMBTU/HR Click h Criteria/Toxic Throughput Use Default Em	No ere to <u>delete</u>	if avai			
ge Tanks ive Components • Processes so Upset tional Toxic acces Production and orm Data Validation ew Summaries t Facility Report	Open 37 Step 2: Thi Open Step 3: Cri Open Open Open	roughput teria Emissions Pollutant VOC NOX SOX	Annual Throughput : (Ibs)	Unit Ubs / Ubs /			Heater 10-100 MMBTU/HR Click h Criteria/Toxic Throughput Use Default Em	No ere to <u>delete</u>	if avai			
ge Tanks ive Components • Processes so Upset tional Toxic acces Production and orm Data Validation ew Summaries t Facility Report	Open 37 Step 2: Thr Open Step 3: Cri Open Open Open Open Open	roughput / teria Emissions Pollutant Voc NOx	Annual Throughput : (Ibs)	112233 Unit Ubs / Ubs /			Heater 10-100 MMBTU/HR Click h Criteria/Toxic Throughput Use Default Em	No ere to <u>delete</u>	if avai			
ge Tanks ive Components • Processes so Upset tional Toxic acces Production and orm Data Validation ew Summaries t Facility Report	Open     37       Step 2: Thi       Open       Step 3: Cri       Open	roughput teria Emissions Pollutant VOC NOX SOX CO PM	Annual Throughput (Ibs) EF	Unit Ubs / Ubs / Ubs / Ubs /			Heater 10-100 MMBTU/HR Click h Criteria/Toxic Throughput Use Default Em	No ere to <u>delete</u> <u>delete</u> <u>delete</u> <u>delete</u>	if avai	lable		
ge Tanks ive Components • Processes so Upset tional Toxic acces Production and orm Data Validation ew Summaries t Facility Report	Open     37       Step 2: Thi       Open       Step 3: Cri       Open	roughput teria Emissions Pollutant Voc Nox Sox CO	Annual Throughput (Ibs) EF Emissions (Ibs)	Unit Ubs / Ubs / Ubs / Ubs /		EF Dat	Heater 10-100 MMBTU/HR Click h Criteria/Toxic Throughput Use Default Em	No ere to <u>delete</u> ission Factors Emission	if avai	lable		

acility ID: 999007	Externa	al Combus	stion											
Facility Comments	Please p	rovide speci	fic information	on for ev	erv proces	s associ	ated with your ex	ternal o	ombi	Istio	n Emission Sour	ces incluc	ing usag	Je.
Abbreviated Reporting 1. Facility Information 2. Status Update	emission Combust	factor and tion Fuels li	control effici	ency (if a nu on th	any). Com	bustion	fuels must be se re entering data	lected	on th	e coi	mbustion fuels	page (see	e 3.	,~,
Combustion Fuels	Abbreviated Peporting													
Emission Sources (ES) . Report Process/Emissions	Certain o		sion Process	- Exterr	nal Combu	istion				×				
Combustion	As part o If you set	AER Device ID	Permit Device ID	e A/N	Process ID	Rule #	Equipment	PERP	Fuel	scc	Reporting.			
External Combustion	Click <u>her</u>	ES4		111111	P5		Heater 10-100 MMBTU/HR	No						
Use of organics	Step 1: P	AER Device	ID ES4		AER Devic	e Name	HEAT Rounds Au	thorized	I		Optio			
Spray Coating/Spray		PERMITTED	AN:	111111	Permit De	vice ID							-	
Booth		Process ID	P5		Process N	ame					pment D0 MMBTU/HR	PERP	Fuel	SC
Other Use of Organics Storage Tanks	Open ES4	Process Con	nment									re to <u>delete</u>	this prov	
		SCC								Click lie	Te to detette	tins prot	.03.	
	Step 2: T		Natural Gas											
Additional Toxic		Rule #	1147	_	Add Rule						ic Throughput			
bstances Production and	<u>Open</u>	Equipment	Heater 10-1	.00 MMB1	ru/hr			~	·					
age	Step 3: C							_		_	Use Default Emi	ssion Factor	s if availa	ble
Perform Data Validation	stop st s						Sav	e C	ancel		ope percent and		- IT GITGITG	
Review Summaries		Pollutan	t	EF	Unit		EF	Data Sour	ce		,	Emissio	ns	
Print Facility Report . Report Submission	Open	VOC		1	lbs /									
. Report submission	Open	NOx			lbs /									
	Open	SOx			lbs /									
	Open	CO		1	lbs /									

13. Click the Open link under 'Step 2: Throughput' and fill out all required information as denoted by the red asterisks next to the fields. This will include the throughput, unit, and how the throughput measurement was acquired or recorded. Enter this as your throughput and select 'Product or raw material records e.g. receipts/invoices/bills' as your throughput origin. Click on the orange Save button once all relevant information has been entered.

			_	ess · raci	ity ID: 999007	SOUTH CO	AST AIR QUALITY MGT DIST(S	CAQMD) · Reporting	5 period	
- « B	ack to Emission Sourc	e Process Reference	e							
Ext	ernal Combust	ion								
emi	ssion factor and co	ontrol efficiency k in the menu or	(if any). C	Combust	ion fuels mu	st be sele	ernal combustion Emissio cted on the combustior this page. Detail instru	n fuels page (see	e 3.	ige,
As p If yo	bbreviated Rep tain combination of e part of Abbreviated Rep bu select anything oth k here to find out more	quipment code and porting, you Must or her than AQMD Defa	ly use AQM ult Emission	AD Default	Emission Factors you will be d	isqualified	ated Reporting. from Abbreviated Reporting	g.		
			ernared ne	eporting a	nu its possible i	belletics.				
Step	1: Process			eporting a	nu its possible i	Jenencs.		Optional: Mark a	s Comp	eted
Step	1: Process AER Device ID	Permit Device		A/N	Process ID	Rule #	Equipment	Optional: Mark as	s Comp Fuel	
			ID				Equipment Heater 10-100 MMBTU/	PERP		
	AER Device ID		ID	A/N	Process ID		Heater 10-100 MMBTU/	PERP	Fuel	SCO
Open	AER Device ID ES7		ID	A/N	Process ID		Heater 10-100 MMBTU/	/HR No	Fuel	sco
Open	AER Device ID		ID	A/N	Process ID		Heater 10-100 MMBTU/	/HR No	Fuel	sco
Open	AER Device ID ES7		ID	A/N	Process ID		Heater 10-100 MMBTU/	/HR No Click here to <u>delete</u>	Fuel	sco
Open Step	AER Device ID ES7 2: Throughput	Permit Device	ID	A/N	Process ID		Heater 10-100 MMBTU/	/HR No Click here to <u>delete</u>	Fuel	sco
Open Step	AER Device ID ES7 2: Throughput	Permit Device	ID	A/N	Process ID		Heater 10-100 MMBTU/	PERP /HR No Click here to <u>delete</u> nput	Fuel this pro	sco
Open Step	AER Device ID ES7 2: Throughput	Permit Device	ID	A/N	Process ID		Heater 10-100 MMBTU/	/HR No Click here to <u>delete</u>	Fuel this pro	sco
Open Step	AER Device ID ES7 2: Throughput	Permit Device	ID t	A/N	Process ID	Rule #	Heater 10-100 MMBTU/	PERP /HR No Click here to <u>delete</u> nput	Fuel this pro	sco
Open Step	AER Device ID ES7 2: Throughput 3: Criteria Emissio	Permit Device Annual Throughpu	ID t	A/N 112233	Process ID	Rule #	Heater 10-100 MMBTU/ Criteria/Toxic Through Use Defa	PERP /HR No Click here to <u>delete</u> pput	Fuel this pro	sco

ility ID: 999007	External Combusti	on			
lity Comments	Diasso provido sposifis	information for every process associat	tod with vo	ur ovtornal combustion Emissio	on Courcos including usago
eviated Reporting cility Information atus Update	emission factor and cor	ntrol efficiency (if any). Combustion f in the menu on the left-side) before	uels must l	be selected on the combustion	n fuels page (see 3.
mbustion Fuels hission Sources (ES) eport Process/Emissions hbustion	As part of Abbreviated Repo	uipment code and fuel source may disqual orting, you Must only use AQMD Default Emis:		Abbreviated Reporting.	۹.
xternal Combustion	Edit Throughput Info	ormation - External Combustion		×	
	AER Device ID Permit D		Equipme		
of organics S	ES4		ater 10-100 M		Optional: Mark as Complete
pray Coating/Spray	Annual Thr	oughput	Criteria/Tox	xic Throughput	
looth	Fuel Usage (Annual Throug	ahput) 10,000.00000000 *	therms	× *	PERP Fuel
ther Use of Organics					No Natural Gas
	Throughput Type	Input V			lick here to <u>delete</u> this proce
	Throughput Origin	Product or raw material record	as e.g. rece	ipts/invoices/bills Y	
er Processes	Fuel Usage Comment				
ditional Toxic				Save Cancel	put
ances Production and					J
rform Data Validation	tep 3: Criteria Emission	ns (lbs)		Use Defa	ault Emission Factors if availab
	•				
view Summaries	Pollutant	EF	Unit	EF Data Source	Emissions
int Facility Report	Open VOC	7.0000000e+0	lbs /	AQMD default	
eport Submission	Open NOx	1.3000000e+2	lbs /	AQMD default	
	Open SOx	6.0000000e-1	lbs /	AOMD default	
				AQMD default	
	Open CO	3.5000000e+1	lbs /		

14. The AER WebTool will automatically calculate both criteria and toxic pollutant emissions based on your throughput entered previously. Once completed with this spray booth heater you can select another following the same process from step 11 and repeat the process for all heaters.

#### Reporting Emissions from Spray cleaning equipment and solvent use

1. Facilities must report their usage of solvents used in the cleaning of spray guns and other equipment. This use of solvents is unpermitted and thus will not be automatically added to the tool. Only one device will need to be added to cover the usage of all solvents, regardless of the number of booths used at a facility. Users can do this through the '4. Emission Sources' page and clicking the orange 'Add New Emission Source' button.

	Work In Progress - Facility ID: 999007 - SOUTH COAST AIR QUALITY MGT DIST(SCAQMD) - Reporting period: 20
Facility ID: 999007	Build Reporting Structure
Facility Comments	Emission Sources (ES) Classification
Abbreviated Reporting 1. Facility Information 2. Status Update 3. Combustion Fuels 4. Emission Sources (ES) 5. Report Process/Emissions 6. Additional Toxic	
	Summary: This section contains facility permit profile. Please make sure that every device has a specified Emission Source (ES). New emission sources can also be added.
	Instruction: Add Devices (emissions sources) by clicking "Add New Emission Source". Edit devices by clicking "Profile" under the Emission Source (ES) Column. Add emission data by clicking "Open" under the Emissions column. Upload storage tank data by clicking on link "Click here" below.
Ibstances Production and sage	Abbreviated Reporting
Perform Data Validation Review Summaries Print Facility Report	Starting in Reporting Year 2022 some facilities can qualify for Abbreviated Reporting Your eligibility to file Abbreviated Report depends in part on the types of Emission Sources used at your Facility. Click <u>here</u> to find out more details about Abbreviated Reporting and its possible benefits.
D. Report Submission	Storage Tank Emissions Batch File Import - <u>Click here</u> for more instructions.
	Add New Emission Source
	Displaying 1 emission sources.
	A/N Permit NO AER Device ID Permit Device ID
	AER Device ID
	Search Emission Sources

2. Fill out all required information as denoted by the red asterisk next to the field. Required fields including ES Name (the user should enter the name used at the facility for the device for easy reference, e.g., Gun Cleaner), and then select the Operating ES Status from the drop-down menu.

		Work In Progress - Facility ID: 999007 - SOUTH COAST AIR QUALITY MGT DIST(SCAQMD) - Reporting period: 2024					
Facility ID: 999007		анан такан така Такан такан так					
	Edit Emission Source						
Facility Comments							
Abbreviated Reporting 1. Facility Information 2. Status Update 3. Combustion Fuels	Instruction: Add new emissions sources using information found on permits, manufacturers specifications, or identifying placards. Select the Operating ES Status that best reflect the device's operation for this reporting period. All areas with a Red Asterisk (*) must be addressed. Note: Some devices have been pre-populated, verify that the information is correct						
4. Emission Sources (ES) 5. Report Process/Emissions	Abbreviated Repor	ting					
5. Report Process/Emissions 6. Additional Toxic Substances Production and Usage 7. Perform Data Validation	Starting in Reporting Year 202 Your eligibility to file Abbrev	2 some facilities can qualify for Abbreviated Reporting iated Report depends in part on the types of Emission Sources used at your Facility. tails about Abbreviated Reporting and its possible benefits.					
8. Review Summaries	Permitted						
9. Print Facility Report	A/N						
10. Report Submission	PERP Equipment(CARB's Portable Equipment Registration Program)						
	Permit No						
	Permit Device ID						
	Permit Equipment Description						
	AER Device ID	will be assigned upon saving					
	ES Name	Cleaning Solvents *					
	Operating ES Status	Normal Operation					
	Comment						
	Emission Source Category	Categorize Emission Source					
	Design Capacity	0					

3. Next, click on the orange Categorize Emission Source button. The pop-up window shown in the image below will appear. Select "Click Here" in Item '4. Other Use of Organics', then check the box for "Other Evaporative Sources". Then click the orange save button at the bottom of the dialog box.

-	Work In Progress · Facility ID: 999007 · SOUTH COAST AIR QUALITY MGT DIST(SCAQMD) · Reporting period: 2024
Facility ID:	999007 Edit Emission Source
Facility Commer	nts
Abbreviated Rep	orting Instruction: Add new emissions sources using information found on permits, manufacturers specifications, or identifying
1. Facility Inform	Categorize Emission Source
2. Status Update 3. Combustion F	
4. Emission Sou	All Emission Source with this icon \Lambda qualify for AER Abbreviated Reporting
5. Report Proce	Click here to find out more details about Abbreviated Reporting and its possible benefits.
6. Additional To Substances Proc Usage	1. External Combustion Equipment (e.g., boiler, dryer, oven, furnace, heater, afterburner, flare, kiln or incinerator) click here to select one the following Equipment:
7. Perform Data 8. Review Sumn	<ol> <li>Internal Combustion Equipment (e.g., internal combustion engine (excluding vehicles), turbine or micro turbine) <u>click here</u> to select one of the following Equipment:</li> </ol>
9. Print Facility 10. Report Subr	3. Spray Coating/Spray Booth (e.g., coatings, solvents, adhesives, etc.) click here to select one of the following Equipment:
	<ol> <li>Other Use of Organics (e.g., coatings, solvents, inks, adhesives, etc.) except in Spray Coating/Spray Boot , click here to following Equipment:</li> </ol>
	Degreaser Printing
	Coating (Flow / Dip / Roll / Hand Application)
	5. Liquid Storage Tank (e.g. Underground, Aboveground, Small Tanks, Dispensing Systems) click here to select one of the following Equipment:
	6. Fugitive Components (Emission Leaks from Process Components per Rule 462, 1173 and 1176), click here to select all applicable Equipment:
	7 Other Processes (does not fit in any of the groups mentioned above) click click here to mark "Other Process Equipment".
	Save Cancel
, i	Emission Source Category Categorize Emission Source
	Design Capacity 0

4. Once the source is categorized you can click the orange 'Save and Return to List of Emission Sources' button to return to the previous Emission Source page or click the 'Save and Proceed to Process Reporting' button to continue to emissions reporting for this device. For this example, user should click on 'Save and Proceed to Process Reporting' button.

Facility ID: 999007 Facility Comments	Edit Emission Source	Work In Progress · Facility ID: 999007 · SOUTH COAST AIR QUALITY MGT DIST(SCAQMD) · Reporting period: 2024						
Abbreviated Reporting 1. Facility Information 2. Status Update 3. Combustion Fuels	Instruction: Add new emissions sources using information found on permits, manufacturers specifications, or identifying placards. Select the Operating ES Status that best reflect the device's operation for this reporting period. All areas with a Red Asterisk (*) must be addressed. Note: Some devices have been pre-populated, verify that the information is correct							
4. Emission Sources (ES) 5. Report Process/Emissions 6. Additional Toxic Substances Production and Usage 7. Perform Data Validation	Your eligibility to file Abbrev	<b>ting</b> 2 some facilities can qualify for Abbreviated Reporting riated Report depends in part on the types of Emission Sources used at your Facility. etails about Abbreviated Reporting and its possible benefits.						
8. Review Summaries	Permitted							
9. Print Facility Report	A/N							
10. Report Submission	PERP Equipment(CARB's Portable Equipment Registration Program)							
	Permit No							
	Permit Device ID							
	Permit Equipment Description							
	AER Device ID	will be assigned upon saving						
	ES Name	Cleaning Solvents *						
	Operating ES Status	Normal Operation						
	Comment	h						
	Emission Source Category	Other Use of Organics Categorize Emission Source						
	Design Capacity	0 ~						
	Save or Save and ret	urn to List of Emission Sources or cess Reporting or <u>Cancel</u>						

5. The following window will then pop-up showing processes for solvents. Click the blue Open link next to the 'Other Use of Organics' option in the table. The user can also open the processes from the '5. Report Processes/Emissions' page on the left-hand menu of the page and navigating to the 'Other Use of Organics' category.

						Work Ir	Progress	Facility	( ID: 99900)	7 · SOUTH CC	DAST AIR QUAI	LITY MO	T DIST(SCAQMD)	• Reporting period: 2024
Facility ID: 999007	F	orm da	ata is suc	cessfully	v saved.									
Facility Comments Abbreviated Reporting 1. Facility Information				5	ructure									
<ol> <li>Status Update</li> <li>Combustion Fuels</li> <li>Emission Sources (ES)</li> <li>Report Process/Emissic</li> </ol>		ımma	n <b>ry:</b> Th				permit p	rofile.	Please m	ake sure th	at every de	vice h	as a specified I	Emission Source
6. Additional Toxic Substances Production an Usage	1100033	Nore	i cii ces	Permit	Permit	AFR		56					~	Profile" under the Jpload storage
7. Perform Data Validation 8. Review Summaries	Emissions	A/N	Permit No	Device ID	Device Description		ES Name	ES Group Name	Source Category	Emissions?	Equipment	PERP	Release Location Linked	
9. Print Facility Report 10. Report Submission	Open					ES5	Cleaning Solvents		Other Use of Organics	Y	Other evaporative sources	N	NR	
	_		Process I		Source Grou		Process	s/Mater	ial/Fuel Na		Status		Operation Type	
	Oper		P1		ther Use of Orga	anics					Work in progre	SS	routine	
			ng ? emis										ок	

		Work In	Progress	• Facility ID: 9	999007 · SOL	JTH COAST AIR QUALITY MGT DI	ST(SCAQMD) · Reporting perio	d: 2024
Facility ID: 999007	« Back to Emission Source	e Process Reference						
Facility Comments	Other Use of Orga	nics						
Abbreviated Reporting 1. Facility Information 2. Status Update 3. Combustion Fuels	booth) including usage,	, emission factor, ar	nd contr	ol efficiency	(if any). Y	other use of organics (exc fou must select Material/A clicking on Help icon in th	ctivity Code and through	
4 Emission Sources (ES)	Abbreviated Rep	orting						
5. Report Process/Emissions	Certain combination of eq					Abbreviated Reporting.		
Combustion	As part of Abbreviated Rep					alified from Abbreviated Repo	rting	
External Combustion	Click here to find out more						i cing.	
Internal Combustion								
Use of organics	Step 1: Process						Optional: Mark as Com	leted
Corry Conting/Corry								the second s
Spray Coating/Spray								
Booth	AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Material/Activity Code	Material Description	SCC
Booth Other Use of Organics	AER Device ID Open ES5	Permit Device ID	A/N	Process ID P1	Rule #	Material/Activity Code		SCC
Other Use of Organics Storage Tanks		Permit Device ID	A/N		Rule #	Material/Activity Code	Material Description Click here to <u>delete</u> this p	SCC
Booth Other Use of Organics Storage Tanks Fugitive Components	Open ES5	Permit Device ID	A/N		Rule #	Material/Activity Code		SCC
Booth Other Use of Organics Storage Tanks Fugitive Components Other Processes		Permit Device ID	A/N		Rule #	Material/Activity Code		SCC
Conth Other Use of Organics Storage Janks Fugitive Components Other Processes Process Upset	Open ES5	Permit Device ID	A/N	P1				SCC
Conthematics Content of Content o	Open ES5 Step 2: Throughput	Permit Device ID	A/N	P1	Rule #			SCC
Conth Other Use of Organics Storage Janks Fugitive Components Other Processes Process Upset	Open ES5	Permit Device ID	A/N	P1				SCC
Earth Other Use of Organics Storage Tanks Fugitive Components Other Processes Process Upset 6. Additional Toxic Substances Production and	Open ES5 Step 2: Throughput		A/N	P1				SCC

6. The following page will open. Click the 'Open' link under Step 1: Process and fill out all required information as denoted by the red asterisks next to the fields. Users should enter the information shown in the below screenshot into the Major Group, Type of Operation, Application Method, and Type of Material fields. Users should also enter the name of their facility's cleaning solvents into the material description and 'Process Name' fields. Once done click save to exit out of the window.

			Work In Pro	gress · F	acility ID: 9	999007 · SC	OUTH COAST AIR	QUALITY MGT DIS	T(SCAQMD) ·	Reporting perio	d: 2024
Facility ID: 999007	« Back to Emission Source F	rocess Refe	rence								
Facility Comments	Other Use of Organi	cs									
Abbreviated Reporting 1. Facility Information 2. Status Update	Please provide specific ir booth) including usage, e units before reporting e	mission fa	ctor, and c	ontrol e	efficiency	(if any).	You must sele	ect Material/Ac	tivity Code		
3. Combustion Fuels 4. Emission Sources (ES) 5. Report Process/Emissions Combustion External Combustion Internal Combustion	Abbreviated Report Certain combination of equit As part of Abbreviated Report If you select anything other Click <u>here</u> to find out more d	pment code ting, you Mu than AQMD	st only use Al Default Emis	QMD Def	tors you w	n Factors. rill be disq	ualified from Ab		ting.		
Use of organics	Step 1: Process								Optiona	I: Mark as Comp	leted
Spray Coating/Spray Booth Other Use of Organics	AER Device ID	Permit Dev	vice ID /	A/N F	Process ID P1	Rule #	Material/A	Activity Code	Materia	I Description	SCC
Storage Tanks Fugitive Components Other Processes	Step 2: Throughput								Click here	to <u>delete</u> this pr	ocess.
Process Upset 6. Additional Toxic Substances Production and	Open				An	inual Throu	ghput				
Usage 7. Perform Data Validation	Step 3: Criteria Emissions	(lbs)									
8. Review Summaries 9. Print Facility Report 10. Report Submission	Pollutant	EF	Unit		EF Da	ta Source		Overall CE		Emissions	
	Step 4: Toxic (TAC/ODC) E	missions (	lbs)								
	TAC/ODC Group		CAS #	EF	Unit	I	EF Data Source	Ov	erall CE	Emission	\$
	« Back to Emission Source	Process Re	ference								

AER Device ID	Permit Device ID	A/N	Proce		Rule #	Materi	al/Activity Code	Material Description	SCO
S5			P1		1171	Operations:	vent Cleaning Wipe Cleaning:Repair ance Cleaning	3M High Power Spray Gun Cleaner	
AER De	evice ID		ES5	AE	R Devic	e Name	Cleaning Solven	ts	
NON-PI	ERMITTED			Pe	rmit De	vice ID			
Process	s ID		P1	Pro	ocess Na	ame			
Process	s Comment								
SCC									
Equipm	nent	Ot	her ev	apo	rative	sources			$\sim$
Materia	al / Activity	-							
Major (	Group:	So	lvents						~
Type of	f Operation:	So	lvent (	Clea	aning (	Operations			~
Applica	ition Method	Wi	pe Cle	anir	ng				~
Type of	f Material:	Re	pair ar	nd N	Mainte	nance Clea	ning		~
Materia	al Description	Hig	h Pow	er S	Spray	Gun Cleane	er *		
Additio	nal Rules	Add	l Rule						

7. Click the Open link under 'Step 2: Throughput' and fill out all required information as denoted by the red asterisks next to the fields. This will include the throughput, unit, and how the throughput measurement was acquired or recorded.

					Work	In Dro	gress · Facility ID: 999007 · SOUTH COAST .		Peperting period	2024
Facility ID: 999007	« Bac	k to Emissio	n Source Proce	əss R	10100481		gress · Facility ID. 777007 · 300 TH COAST	AIR QUALITY MUT DIST (SCAQMD)	Reporting period.	2024
Facility Comments	Othe	r Use of	Organics							
Abbreviated Reporting 1. Facility Information 2. Status Update	booth	n) including	g usage, emis	sion	factor, a	and co	process associated with the other use ontrol efficiency (if any). <b>You must</b> structions are available by clicking o	elect Material/Activity Co		ıt
3. Combustion Fuels 4. Emission Sources (ES)	Abb	oreviate	d Reportin	ng						
5. Report Process/Emissions Combustion External Combustion	Certa As par If you	in combinat rt of Abbrevia select anyt	ion of equipme ated Reporting, hing other thar	you NAQ	Must only	use AC	Irce may disqualify you from Abbreviated QMD Default Emission Factors. sion Factors you will be disqualified from Reporting and its possible benefits.			
Internal Combustion Use of organics	Stop 1	Dragona						Ontion	al: Mark as Complet	bod
Spray Coating/Spray	step i	: Process						Ориог	al. Mark as complet	leu
Booth Other Use of Organics		AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Material/Activi	ty Code	Material Description	scc
Storage Tanks Fugitive Components	<u>Open</u>	ES5			P1	1171	Solvents:Solvent Cleaning Operations:Wipe Cl Cleaning	eaning:Repair and Maintenance	Spray Gun Cleaner	
Other Processes								Click her	e to <u>delete</u> this proce	ess.
Process Upset	Step 2	: Through	out							
6. Additional Toxic Substances Production and										_
Usage							Annual Throughput			
7. Perform Data Validation	<u>Open</u>									
8. Review Summaries	Step 3	: Criteria I	Emissions (lb	s)						
9. Print Facility Report 10. Report Submission		Pollu	4	EF	Uni		EF Data Source	Overall CE	Emissions	
	Add	New	canc	LI	UIII	L.		overall CL	LIIIISSIOIIS	
	Add	New								

AER Device ID	Permit Device ID	A/N	Process ID	Rule #	Material/Activity Code	Material Description	sco
ES5			P1	1171	Solvents:Solvent Cleaning Operations:Wipe Cleaning:Repair and Maintenance Cleaning	Spray Gun Cleaner	
					Annual Throughput		
					55.0000000 gal		
Usage (A	nnual Through	put)	55.000	00000	* [gal ~] *		
Throughp	out Type		Input	<ul> <li>*</li> </ul>			
Throughp	out Origin		Produc	t or ra	w material records e.g. receipts/invoices	/bills 🗸 🎽	
Lisado Co	mment						
Usage Cu							
Usage co							

8. Default emission factors are not available for solvents and must be entered based on information from the packaging, Safety Data Sheet (SDS), technical sheet, or the Rule limit. Select the orange 'Add New' button under 'Step 3: Criteria Emissions' then from the pollutant drop down select 'VOC' and under the 'Emission Factor (EF)' header enter your cleaning solvents VOC according to the SDS. Users should select 'Manufacturer Specification' as their data source then press Save when done.

					Work	In Prog	ress · Facility ID: 999007 · SOUTH COAST	AIR QUALITY MGT DIST(SCA	QMD) · Reporting period	: 2024
Facility ID: 999007	« Bac	ck to Emissio	n Source Proce	ss Re	eference					
Facility Comments	Othe	er Use of	Organics							
Abbreviated Reporting 1. Facility Information 2. Status Update	boot	h) including	g usage, emiss	sion	factor, a	and co	rocess associated with the other use introl efficiency (if any). <b>You must</b> : tructions are available by clicking c	select Material/Activit	y Code and throughp	out
3. Combustion Fuels 4. Emission Sources (ES) 5. Report Process/Emissions Combustion External Combustion Internal Combustion	Certa As par If you	in combination rt of Abbrevia select anyt	ated Reporting, hing other than	nt co you /	Must only	use AQ	rce may disqualify you from Abbreviater MD Default Emission Factors. Join Factors you will be disqualified from Reporting and its possible benefits.			
Use of organics	Step 1	: Process						C	Optional: Mark as Compl	eted
Spray Coating/Spray Booth Other Use of Organics		AER Device	Permit Device ID	A/N	Process ID	Rule #	Material/Activi	ty Code	Material Description	scc
Storage Tanks	<u>Open</u>	ES5			P1	1171	Solvents:Solvent Cleaning Operations:Wipe Cl Cleaning	eaning:Repair and Maintenand	ce Spray Gun Cleane	r
Fugitive Components Other Processes							Entrocation ●	Clie	ck here to <u>delete</u> this pro	cess.
Process Upset 6. Additional Toxic	Step 2	: Throughp	out							
Substances Production and							Annual Throughput			
Usage 7. Perform Data Validation	Open						55.0000000 lbs			
8. Review Summaries 9. Print Facility Report	Step 3	: Criteria E	Emissions (lbs	5)						
10. Report Submission		Pollu	tant	EF	Uni	it	EF Data Source	Overall CE	Emissions	
	Add	New								

evice ID	Permit Device ID	A/N	Process ID	Rule #	Material/Activity Code	Material Description	SC
S5			P1	1171	Solvents:Solvent Cleaning Operations:Wipe Cleaning:Repair and Maintenance Cleaning	3M High Power Spray Gun Cleaner	
					Annual Throughput		
					55.00000000 gal		
Pollutan	t		voc ~	*			
Emissior	n Factor (EF)		1.67000	000e-	1 * Ibs/gal		
Overall (	Control Efficier	псу					
Emissior	n Factor Comm	ient					
						1.	
			reference with the	es in t inform	<b>QMD default</b> emission factor please purches the Emission Factor Comment box about the provident of the prov	ve or upload file	
			SDS			× *	-
Emissior	n Factor Data S	Source					
Emissior		Source	9.18500	000e+	0 lbs		

9. A similar process will need to be followed to add toxic pollutants that may be present in the solvents as well. This information will also be listed in the SDS of the material and is presented as a density or percentage of the weight. Users should select the orange 'Add New' button under 'Step 4: Toxic (TAC/ODC) Emissions (lbs)' and the following window will appear. Search for the toxic pollutant you would like to add in the pollutant search bar and then report its density in lbs/gal. A unit conversion may be necessary for this and conversion factors are given in the technical appendix of this document. The reported 'Emission Factor Data Source' should be 'Manufacturer Specification' or 'SDS'.

Open     ES5     P1     1171     Solvents:Solvent Cleaning Operations:Wipe Cleaning:Repair and Maintenance     Spray Gun Cleaner       Click here to delete this proces       Step 2: Throughput       Maintenance     Spray Gun Cleaner       Click here to delete this proces       Step 2: Throughput       Step 2: Throughput       Step 3: Criteria Emissions (lbs)       Pollutant     EF     Unit     EF Data Source     Overall CE     Emissions       Open VOC     Ibs / gal       Add New       Step 4: Toxic (TAC/ODC) Emissions (lbs)		AER Device ID	Permit Device	A/N	Process ID	Rule #	Material/Activity C	Code	Material Description	sc
Step 2: Throughput         Open 55.0000000 gat         Step 3: Criteria Emissions (lbs)         Pollutant EF Unit EF Data Source Overall CE Emissions         Open VOC       lbs / gat         Add New         Step 4: Toxic (TAC/ODC) Emissions (lbs)	Oper	ES5			P1	1171	eaning Operations:Wipe Clean	ing:Repair and Maintenance	Spray Gun Cleaner	
Annual Throughput       Open     55.0000000 gal       Step 3: Criteria Emissions (lbs)       Pollutant     EF     Unit     EF Data Source     Overall CE     Emissions       Open     VOC     lbs / gal          Add New     Step 4: Toxic (TAC/ODC) Emissions (lbs)								Click h	nere to <u>delete</u> this proc	ess
Open     55.0000000 gat       Step 3: Criteria Emissions (lbs)     Unit     EF Data Source     Overall CE     Emissions       Open     VOC     Ibs / gat     Add New     Step 4: Toxic (TAC/ODC) Emissions (lbs)	Step	2: Through	out							
Open     55.0000000 gal       Step 3: Criteria Emissions (lbs)       Pollutant     EF     Unit       Open     VOC     Ibs / gal       Add New   Step 4: Toxic (TAC/ODC) Emissions (lbs)										
Pollutant     EF     Unit     EF Data Source     Overall CE     Emissions       Open     VOC     Ibs / gal     Ibs / gal     Ibs / gal     Ibs / gal										
Pollutant         EF         Unit         EF Data Source         Overall CE         Emissions           Open         Voc         Lbs / gat         Add New         Step 4: Toxic (TAC/ODC) Emissions (lbs)         Step 4: Toxic (TAC/ODC) Emissions (lbs) <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	0									
Open     VOC     lbs / gal       Add New   Step 4: Toxic (TAC/ODC) Emissions (lbs)	Oper									
Open     VOC     lbs / gal       Add New       Step 4: Toxic (TAC/ODC) Emissions (lbs)			Emissions (II	os)						
Add New Step 4: Toxic (TAC/ODC) Emissions (lbs)		3: Criteria I		,		Init	55.00000000 gal	Overall CF	Emissions	
	Step	3: Criteria I	ant	EF		Unit	55.00000000 gal	Overall CE	Emissions	
	Step	3: Criteria I Pollut VOC	ant	EF		Unit	55.00000000 gal	Overall CE	Emissions	
	Step	3: Criteria I Pollut VOC	ant	EF		Unit	55.00000000 gal	Overall CE	Emissions	
	Step Open Ac	3: Criteria I Pollut VOC d New	ant	EF	.bs / gal	Unit	55.00000000 gal	Overall CE	Emissions	

evice ID	Permit Device ID	A/N	Process ID	Rule #	Material/Activity Code	Material Description	SC
S5			P1	1171	Solvents:Solvent Cleaning Operations:Wipe Cleaning:Repair and Maintenance Cleaning	3M High Power Spray Gun Cleaner	
					Annual Throughput	our oculo	
					55.0000000 gal		
TAC/ODC	Toxic Polluta	nts / O	zone Deplet	tina Com	apounds		
Pollutant			41 - Gl	ycol et	hers and their acetates	* *	
			111762	2 - Eth	ylene glycol monobutyl ether	v	
TAC Grou	ip		41 - Gly	col eth	ers and their acetates		
CAS # (P	ollutant)		111762	- Ethyl	lene glycol monobutyl ether		
Emission	Factor (EF)		3.35000	000e-	1 * Ibs/gal		
Overall C	ontrol Efficier	псу					
Emission	Factor Comm	nent					
						1.	
			reference with the	es in t inform	<b>QMD default</b> emission factor please p he Emission Factor Comment box above nation. out this information are subject to auto	ve or upload file	
Emission	Factor Data S	Source	SDS			✓ *	
	5		1.84250	000e+	1 lbs		

10. If the facility uses more than one brand or type of cleaning solvent each one must be reported following these same steps by adding another process to the Solvent Cleaning device. Return to the 'Other use of Organics' tab of the '5. Report Processes/Emissions' page. Click the orange 'Add new Process to ES' button and the following screen will display. Then follow steps 6-9 again for the new material.

Facility ID: 999007	Othe	er Use of (	Organics				D: 999007 · SOUTH COAST AIR				
Facility Comments Abbreviated Reporting 1. Facility Information	booth	h) including u	usage, emiss	sion facto	or, and contro	ol efficier	ated with the other use o cy (if any). <b>You must sel</b> available by clicking on H	ect Material	Activity Coo		
<ol> <li>Status Update</li> <li>Combustion Fuels</li> <li>Emission Sources (ES)</li> <li>Report Process/Emissions Combustion</li> </ol>	Certai As par If you	rt of Abbreviate select anythin	n of equipmer ed Reporting, y ng other than	nt code an you Must o AQMD Def	nly use AQMD I fault Emission	Default Emi Factors yo	lify you from Abbreviated Re ssion Factors. u will be disqualified from Al s possible benefits.		oorting.		
External Combustion											
Use of organics Spray Coating/Spray Booth	_	er Use of ( New Process t	-	roces	s List Ove	rview				Print F	Preview
Other Use of Organics		AER Device ID	Permit Device ID	A/N	Process ID	Status	Material Description	Usage	Units -	ROG	SPO
0	Open	ES5			P1	Work in Progress	Spray Gun Cleaner	55	i gal	0	
Fugitive Components Other Processes											•

	65 ∽ or <u>Add new emission</u> urce	AER Device Name	Cleaning Solvents	
NON- PERMITTED		Permit Device ID		
Process ID		Process Name		
Process Comment				
SCC				
Equipment	Other evaporative source	S		$\sim$
Material / Activity *				
Major Group:				~
Type of Operation:				~
Application Method:				~
Type of Material:				~
Material Description			*	
Additional Rules	Add Rule			

# **Technical Appendix**

The following sections of this guidance document refer to procedures for using non default (product specific) emission factors. Any reporter electing to use product specific emission factors shall use material specifications provided in product Safety Data Sheet (SDS), technical sheets, or other manufacturer supplied documents for products used at the facility. Facilities shall include any relevant documentation that they used to determine these product-specific emission factors with their report using the 'Upload Supporting Documentation' option in the upper right-hand corner of the WebTool:



#### **Unit Conversions**

The AER WebTool requires the input of paint throughput to be in units of gallons, but many paint systems are measured in liters. The following conversion factors are used to convert from liters to gallons.

Expressions for converting grams to pounds<sup>2</sup>: 1 liter  $\cong$  0.2642 gallons; 1 gallon  $\cong$  3.7854 liters. Sample calculations below use both expressions and are equivalent.

Example to convert 25 liters to gallons:

$$25 \ liters \times \frac{0.2642 \ gallon}{1 \ liter} \cong 6.6 \ gallons$$

Alternate example to convert 25 liters to gallons:

$$25 \ liters \times \frac{1 \ gallon}{3.7854 \ liters} \cong 6.6 \ gallons$$

The density of a coating is necessary in determining specific emission factors for both VOC and TAC. Density is the weight of the coating for a given volume of the coating. However, some coatings SDS provide the specific gravity of a product rather than density. Specific gravity is a unitless ratio of the density of a substance compared to pure water (the density of pure water is approximately 8.34 lb/gallon). If only specific gravity is given use the following conversion to obtain density.

Example to convert specific gravity of 1.17 to pounds per gallon:

$$1.17 \times \frac{8.34 \, lb}{1 \, gallon} \cong 9.76 \, \frac{lb}{gal}$$

<sup>&</sup>lt;sup>2</sup> Note these are not exact but are close approximations

#### **VOC Emissions**

For annual emission reporting purposes, reporters are allowed three options. The first is to use a default emission factor, as described earlier in this document. The second is to use the highest VOC content for all coatings belonging in the coating category used at the facility. The third option is to use the VOC content from each of the specific coatings in the category.

Example using highest VOC content from product category: a facility applies 30 different color coatings (some are multiple component mixtures) during the year. The range of VOC is from 0.7 lb/gal for one product to 1.6 lb/gal for another. Report using the total gallons (throughput) for color coat and use a VOC emission factor of 1.6 lb/gal.

#### Toxic Air Contaminant Emissions

Content values in SDS or tech sheets are given as a percentage of the total weight of a product and often as a range. When determining emission factors, the highest value of the range shall be used. For example, if a given chemical component is given a range of 5-10% of the total weight, the estimated emission factor shall be based on 10% for that chemical component.

For annual emissions reporting purposes, reporters are allowed two options: the first is to use default emission factors, as described earlier in this document. The second is to use product-specific information from SDS to estimate emission factors for each toxic air contaminant. Estimating toxic air contaminants involves reviewing SDS for substance/mixtures with each substance typically provided in percent ranges. Not all listed substances in an SDS are necessarily required to be reported (refer to the Excel file on AER webpage for required TAC<sup>3</sup>). If a chemical component does not appear on the TAC list it does need to be reported in the AER WebTool. Note that many chemical compounds can go by different names, and so it is best to verify using the Chemical Abstract Service (CAS) number rather than name.

Example:

From the sample SDS, the clear coat contains mixed xylenes at a range of between 29 and 34 percent by weight. Xylenes is categorized as a VOC<sup>4</sup>, so reporter may not assume any control efficiency for standard paint spray booth filters.

Mixed Xylene Emission Factor = 
$$0.34 \times \frac{7.93 \ lb}{gallon} \approx 2.70 \ lb/gal$$

<sup>&</sup>lt;sup>3</sup> <u>https://www.aqmd.gov/docs/default-source/planning/annual-emission-reporting/tac-list-dy2024.xlsx</u>

<sup>&</sup>lt;sup>4</sup> For other TAC categorized as PM, standard filter control efficiency for is allowed as described in this guideline.

### Section 3. Composition/information on ingredients

Substance/mixture

Product name

: Mixture

: URETHANE CLEAR

Ingredient name	%	CAS number	
xylene	≥29 - <34	1330-20-7	
neptan-2-one	≥10 - <16	110-43-0	
ethylbenzene	≥5 - <6	100-41-4	
acrylic acid, monoester with propane-1,2-diol	≥0.3 - <1	25584-83-2	
styrene	≥0.3 - <1	100-42-5	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	≥0.1 - <0.3	41556-26-7	
methyl methacrylate	≥0.1 - <0.3	80-62-6	

# Section 9. Physical and chemical properties

Appearance		
Physical state	1	Liquid.
Color	1	Not available.
Odor	1	Not available.
Odor threshold	1	Not available.
pH	1	Not available.
Melting point	1	Not available.
Boiling point	1	92.78°C (199°F)
Flash point	1	Closed cup: 27.78°C (82°F)
Material supports combustion.	1	Yes.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	ł	Lower: 1.1%
Evaporation rate	1	0.56 (butyl acetate = 1)
Vapor pressure	1	0.87 kPa (6.5 mm Hg) [room temperature]
Vapor density	1	Not available.
Relative density	1	0.95
Density ( lbs / gal )	:	7.93
Solubility	1	Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	1	Not available.
Viscosity	1	Kinematic (40°C (104°F)): >0.21 cm <sup>2</sup> /s (>21 cSt)
Volatility	1	57% (v/v), 50.78% (w/w)
% Solid. (w/w)	1	49.22