GUIDELINES FOR REPORTING EMISSIONS FROM MULTIPLE IDENTICAL DEVICES/EQUIPMENT

The AER Reporting Tool (tool) is designed to collect emission data at device operation levels. Due to the repetition of data entry, the tool offers users with Emission Source Grouping feature (ESG wizard) as an option to group the identical devices/equipment and report their emissions in fewer key strokes. This document describes the restrictions of the grouping feature. It also provides instructions and examples of steps associated with building up a model and applying it to the group members, and how emissions are calculated and reported.

RESTRICTIONS

In order to be grouped, the device/equipment members must meet the following restrictions:

- Similar permitting and operating status
- Identical class of fuel combustion devices
- Burning the same primary fuel

STEPS TO FOLLOW

STEP #1. Pre-determine and select an emission source (ES) from one of the devices in the list below as the building block for grouping.

South Coas	st									Edit Pro	ofile
AQMD Air Quality	Manager	nent D	Distric	t							
AER Home Access Facility	Facility Home							F	∎ 🖨	F	0
						Facilit	y ID: 999	142 · ABC	· Reportin	g perio	d: 2014
Facility ID: 999142	Build Re	porting	g Struc	ture							
Facility Information	Emission S	urcer (F	S) Clare	ification							
Combustion Fuels	Emission 3	Juices (L	.5) Class	incation							
Emission Sources (ES) Report Process/Emissions	This section Source (ES)	. New emis	facility pe ssion sour	ermit profile. Pleas ces can also be ado	e make : ded.	sure th	at every	device ha	s a specifie	d Emis	sion
Summaries Data Validation	EPA TANKS	Software D	DATA IMPO	DRT - <u>Click here</u> for	r more ir	nstruct	ions.				
Print Facility Report Excel Reports											
Report Submission	Displaying	9 emissio	n sources	i-							
	A/N				Permit	NO					
	AER Device	D	ouroor		Permit	Device	e ID				
	Search	STITES STOLES	ources								
	Add New Em	ission Sour	ce								
	Search:									Print	t Preview
			Permit		AER		-				
	Action A/N	NO	Device ID	Description	Device ID	Name	Category	Emissions	Equipment	Status	Reference
	<u>Open</u> 34563	'8 G1234	DS	BOILER (>100 MMBTU/HR) NAT GAS ONLY	ES9						
	Open 98765	i4 C1234	D7	BOILER (>100 MMBTU/HR) NAT GAS ONLY	ES8						
	Open		E1	ICE diesel	ES7						
	Open 4444	H4 M123	D6	KW	ES6						
	<u>Open</u> 55555	5 G123	DS	INTERNAL COMBUSTION ENGINE, UNIT NO. 10,	ES5						
	<u>Open</u> 55558	5 G123	D4	INTERNAL COMBUSTION ENGINE, UNIT NO. 10,	ES4						
	<u>Open</u> 34567	8 B1234	D3	BOILER (<10 MMBTU/HR) NAT GAS ONLY	ES3						
	<u>Open</u> 23456	7 A1234	D2	BOILER (<10 MMBTU/HR) NAT GAS ONLY	ES2						
	Open 12348	6 D1234	D1	BOILER (<10 MMBTU/HR) NAT GAS ONLY	ES1						
	Showing 1 to	9 of 9 entr	ries								

STEP # 2. Click on "Open" hyperlink to edit that emission source. In this example, ES1 (device D1 with application number (A/N) 123456) is selected as shown. Define its operating status and classify it as an external combustion source (boiler rated < 10 MMBtu/hr). Continue with "Save and Proceed to Process Reporting".</p>

South Coa	ist v Management Distr	test 2014 Logout Edit Profile riCt
AER Home Access Facility	Facility Home	
5 11: 15 0004 (D		Facility ID: 999142 · ABC · Reporting period: 2014
Facility ID: 999142	Edit Emission Source	
Facility Information Build Reporting Structure Combustion Fuels	Providing correct information	on and proper selection categories would help to classify emission source.
Emission Sources (ES)	Permitted	~
Report Process/Emissions	A/N	123456
Summaries Data Validation	Permit No	D1234
Print Facility Report	A/N name (BCAT/CCAT)	BOILER (5-20 MMBTU/HR) NAT GAS ONLY
Excel Reports	Permit Device ID	D1
Report Submission	Permit Equipment Description	BOILER (<10 MMBTU/HR) NAT GAS ONLY
	AER Device ID	ES1
	ES Name	boiler 1
	Operating ES Status	Normal Operation *
	Comment	\bigcirc
	Emission Source Category	External Combustion Categorize Emission Source *
	Design Capacity	7.00 MILLION BTU PER HOUR
	Save and return to List of	f Emission Sources or Save and proceed to Process Reporting or <u>Cancel</u>

STEP # 3. The tool sets the first process (P1) based on the entered data and selection. Click on "<u>Open</u>" hyperlink to access emission reporting screen.

	Access Facilit	γΓαςιτις	y nome			Facility	y ID: 999142	• ABC • Reporti	ng period: 201
cility II	D: 999142	F	form data is succe	essfully save	ed.				
ility Infor Id Reporti	mation ing Structure	Bu	ild Reportin	g Struc	ture				
ombustion mission So	n Fuels ources (ES)	Emi	ssion Sources (ES) Classi	fication				
Proces	s References	;		_		_	_	_	×
1									
A/N	Permit NO	Permit Device ID	Permit Device Description	AER Device ID	ES Name	Source Group	Emissions?	Equipment	ES Status
123456	D1234	D1	BOILER (<10 MMBTU/HR) NAT GAS ONLY	ES1	boiler 1	External Combustion	Y	Boiler <10 MMBTU/HR	Work in progress
	Proce	ess ID	Source Group		Process Nar	ne	Process	Status Ope	eration Type
ŝ	Digend P	21	External Combustion				Work in p	rogress	routine
Add	Process								

STEP # 4. Define primary fuel type under "Process". At the minimum, fuel unit must be selected at Step 2: Throughput (therms in this case). The user can skip the throughput value because ESG wizard allows user to enter throughput data at later stage. Populate with either defaults or source specific emission factors as shown.

Combustion	Step 1	1: Process					Optio	onal: Mark a	s Complete
External Combustion		AER Device ID	Permit Device I	D A/N	Process ID	Rule #	Equip	ment	Fuel
Use of organics	<u>Open</u>	ES1	D1	12345	6 P1	474	Boiler <10 /	MMBTU/HR	Natural Gas
Spray Coating/Spray Booth							Click he	ere to <u>delete</u>	this proces
Other Use of Organics	Step 2	2: Throughput							
Storage Tanks		4 1 1			C 10 - 1 (T - 1-	71 1 .		CUC TI	
Fugitive Components		Annual II	rougnput		Criteria/Toxic	Inroughput	C IIII	GHG IT	rougnput
Other Processes	Open	the	rms						
Process Upset	Step 3	3: Criteria Em	issions (lbs)			Use	Default Emi	ission Factor	s if availab
mmaries	oup.		(122)			050	Dertaute Erin		<u>-</u> II aranab
ta Validation		Pollutant	EF		Unit	EF I	Data Source		Emissions
int Facility Report	Open	VOC		5.500000	0 lbs / AOMD d		D default		
cel Reports	Open	NOx	1	00.000000	lbs /	AQMD default			
port Submission	Open	SOx		0.600000	lbs /	AQMD defau	lt		
	Open	CO		84.000000	lbs /	AQMD defau	lt		
	Open	PM		7.600000	lbs /	AQMD defau	lt		
	Step 4	4: Toxic (TAC/	ODC) Emission	ns (lbs)	FF	Unit	EE Data	Source	Emission
	0000	Poprope	71	122	8,00000-	2 lbs /	AOMD dofau	a source	LINISSION
	Open	Formaldeb	/14	+32	1 70000	-3 LDS /	AQMD defau	ult.	
	Open	PAHs [PAH]	20M1 11	51	1.00000e	-4 lbs /	AOMD defau	ult	
	Open	PAHs [PAH, F	POM1 912	203	3.00000e	-4 lbs /	AOMD defau	ult	
	Open	Ammonia	7664	4417	1.80000e	+1 lbs /	AOMD defau	ult	
	Ado	l New	. ,						

STEP # 5. After the data is saved, user is sent "Back to Emission Source Process Reference". The next time user revisits process P1 of ES1, the tool will offer the ESG wizard for "Select as Grouping Model" for building a group of identical devices as shown.

South Coa	ast 7 Management District	test 2014 Logout Edit Profile
AER Home Access Facility	Facility Home	
		Facility ID: 999142 · ABC · Reporting period: 2014
Facility ID: 999142	Edit Emission Source	
Build Reporting Structure Combustion Fuels	Providing correct information and pro	per selection categories would help to classify emission source.
Emission Sources (ES) Report Process/Emissions Summaries Data Validation Print Facility Report	Permitted A/N Permit No A/N name (BCAT/CCAT)	I 23456 D1234 BOILER (5-20 MMBTU/HR) NAT GAS ONLY
Excel Reports Report Submission	Permit Device ID Permit Equipment Description AER Device ID ES Name	BOILER (<10 MMBTU/HR) NAT GAS ONLY ES1 boiler 1
	Operating ES Status	Normal Operation
	Comment	\bigcirc
	Emission Source Category	External Combustion Categorize Emission Source *
	Equipment Design Capacity	Boiler <10 MMBTU/HR 7 MILLION BTU PER HOUR
		Select as Grouping Model

STEP # 6. Upon "Select as Grouping Model", the wizard offers user with additional area with a model device (ES1) as shown, where user can "Remove the Group" or "Add Emission Source" to the group. Note that user can enter total amount of fuel burned here.

Facility ID: 999142	Edit Em	issior	n Soure	ce				Facility ID:	999142 • 7	авс • кероп	ing period: 20	/14		
Build Reporting Structure	Providi	ng cori	rect info	ormatio	on and p	oroper sele	lection categories would help to classify emission source.							
Emission Sources (ES)	Permitt	ed					\checkmark							
Support Process/Emissions	A/N						123456							
Data Validation	Permit	No					D1234							
rint Facility Report	A/N na	me (BC	CAT/CC/	AT)		1	BOILER (5-20	MMBTU/H	R) NAT GAS	5 ONLY				
xcel Reports	Permit	Device	e ID			1	D1							
Report Submission	Permit	Equipr	nent De	scriptio	on	1	BOILER (<10	MMBTU/HP	R) NAT GAS	ONLY				
	AER De	vice ID	•			1	ES1 (ESG mo	odel)						
	ES Nam	e					boiler 1							
	Operati	ng ES	Status			[Normal Operation *							
	Comme	nt					$\langle \rangle$							
	Emissio	n Sour	ce Cate	gory			External Combustion Categorize Emission Source							
	Equipm	ent					Boiler <10 MMBTU/HR							
	Design	Capaci	ity				7 MILLION BTU PER HOUR							
	Total E	5G Thr nembe	oughpu rs' throu	t Jghput	as	[Remove t	the group	therms *					
	Group members	ES Name	A/N	Permit No.	Permit Device ID	Permit Equipment Description	Equipment	Emergency Generator (for ICE only)	Part of Fire Suppresion (for ICE only)	% Throughput	Throughput Value	Thi		
	ES1	boiler 1	123456	D1234	D1	BOILER (<10 MMBTU/HR NAT GAS ONLY) Boiler <10 MMBTU/HR	No	No		0.00	the		
											0.00			
	Add Emis	sion So	urce							Apply G	rouping Mode			

STEP #7. Click on "Add Emission Source" hyperlink, the wizard presents the list of ES for user to "Add" to the group as shown in the next two screens.

								Facility ID: 9	999142 · AB	C · Reporting	period: 2	014			
Facility ID: 999142															
Facility Information	Edit	Emis	sion So	ource											
Build Reporting Structure Combustion Fuels	Pro	viding	correct	inform	ation ar	nd proper sel	ection catego	ories would he	elp to classi	fy emission so	ource.				
Emission Sources (ES)	Per	mitted	1				\checkmark								
Report Process/Emissions	A/1	4					123456								
Data Validation	Per	mit No	•				D1234								
Print Facility Report	A/N	l name	BCAT	CCAT)			BOILER (5-2	O MMBTU/HR) NAT GAS C	DNLY					
Excel Reports	Per	mit De	vice ID				D1								
Report Submission	Per	mit Eq	uipmen	t Descr	iption		BOILER (<10	MMBTU/HR)	NAT GAS O	NLY					
	AEF	R Devic	e ID				ES1 (ESG m	odel)							
	ES	Name					boiler 1								
	Ope	erating	ES Stat	us			Normal Ope	eration		✓ *					
	Cor	nment								$\langle \rangle$					
							External Co	mbustion							
	Em	ission 9	Source (Categor	У		Categori	Categorize Emission Source *							
	Equ	ipmen	t				Boiler <10 A	10 MMBTU/HR							
	ID	Name	A/N	Permit No.	Permit Device ID	Description		Equipment	Emergency Generator	Fire Suppression	~				
	ES2	boiler 2	234567	A1234	D2	BOILER («10 N GAS ONLY	MBTU/HR) NAT	Boiler <10 MMBTU/HR	false	false					
	ES3	boiler 3	345678	B1234	D3	BOILER (<10 M GAS ONLY	MBTU/HR) NAT	Boiler <10 MMBTU/HR	false	false					
	ES4		555555	G123	D4	INTERNAL COM ENGINE, UNIT FUEL, EMD, M WITH TURBOC WITH CSGENE	ABUSTION NO. 10, DIESEL DDEL 16-645-E1, HARGER, 1575 H RATOR, 1125 KW	iP /	false	false	oughput alue	Thro			
	ES5		555555	G123	D5	ENGINE, UNIT FUEL, EMD, M WITH TURBOC WITH CSGENE	NO. 10, DIESEL DDEL 16-645-E1, HARGER, 1575 H RATOR, 1125 KW	IP /	false	false					
	ES6		444444	M123	D6	GENERATOR,	125 KW		false	false	0.00	ther			
	ES8		987654	C1234	D7	BOILER (>100 GAS ONLY	MMBTU/HR) NAT	r	false	false					
	ES9		345678	G1234	D8	BOILER (>100	MMBTU/HR) NAT	г	false	false	0.00				
					Add Can	cel				Apply Grou	ping Mode	1			
	<											>			

	Edit Em	issio	Sour	ce									
Build Reporting Structure Combustion Fuels	Providi	ng cor	rect info	ormatio	n and p	oroper sele	ction catego	ries would	help to cla	ssify emissio	n source.		
Emission Sources (ES) Report Process/Emissions	Permit	ted					\checkmark						
Summaries	A/N						123456						
Data Validation	Permit	No					D1234						
Print Facility Report	A/N na	me (BC	CAT/CC/	4T)			BOILER (5-20	MMBTU/H	R) NAT GAS	ONLY			
Excel Reports	Permit	Device	e ID _				D1						
Report Submission	Permit	Equip	ment De	scriptio	on		BOILER (<10	MMBTU/HF	R) NAT GAS	ONLY			
	AER De	vice IL)				ES1 (ESG mo	odel)					
	ES Nam	le					boiler 1						
	Operat	ing ES	Status				Normal Ope	ration		✓ *			
	Comme	ent									$\langle \rangle$		
	Emissic	ion Source Category					External Combustion Categorize Emission Source						
	Equipm	ent					Boiler <10 MMBTU/HR						
	Design	Capac	ity				7 MILLION BTU PER HOUR						
							Remove the group						
	Total E	SG Thr	oughpu	t					therms *				
	Enter n	nembe	rs' throu	ghput	as		Percentage	of total 🗸					
	Group members	ES Name	A/N	Permit No.	Permit Device ID	Permit Equipmen Descriptio	t Equipment n	Emergency Generator (for ICE only)	Part of Fire Suppresion (for ICE only)	% Throughput	Throughput Value	Thro U	
	ES1	boiler 1	123456	D1234	D1	BOILER (<10 MMBTU/HI NAT GAS ONLY	R) Boiler <10 MMBTU/HR	No	No		0.00	ther	
	ES2	boiler 2	234567	A1234	D2	BOILER (<10 MMBTU/HI NAT GAS ONLY	Boiler <10 MMBTU/HR	No	No		0.00	ther	
											0.00		
	Add Emission Source Apply Grouping Model												
	<											>	

STEP # 8. In this example, user added two more devices to the group (ES2 and ES3). At this stage, user can enter total fuel for all 3 devices and specify either percentage (% Throughput) or actual throughput (Absolute Value in this example) for each member of the group as shown in the red boxes.

Facility ID: 999142	Edit Er	nissio	n Sour	ce										
Facility Information	Provde	ling cor	rect inf	ormation an	d proper se	alection cat	tegories w	uld help to	classify omissi					
Build Reporting Structure	110010	ing cor	rece ini	ormacion un	a proper se	steetion cu	cegories we	and help to	clussify chillssi	Jii Source.				
Emission Sources (ES)	Permi	tted				\checkmark								
Report Process/Emissions	A/N					123456								
Summaries	Permi	t No				D1234								
Data Validation	A/N n	ame (B	CAT/CO	AT)		BOILER ((5-20 MMBT	U/HR) NAT	GAS ONLY					
Print Facility Report	Permi	t Devic	e ID			D1								
Excel Reports	Permi	t Equip	ment D	escription		BOILER (<10 MMBTU/HR) NAT GAS ONLY								
Report Submission	AER D	evice II)			ES1 (ESG model)								
	ES Na	me				boiler 1								
	Opera	ting ES	Status			Normal	Operation		✓ *					
	~									~				
	Comm	ient				\sim								
		~				External Combustion								
	Emissi	on Sou	rce Cate	egory		Categorize Emission Source								
	Equip	ment				Boiler <10 MMBTU/HR								
	Design	n Capac	ity			7 MILLION BTU PER HOUR								
						Remove the group								
	Total	ESG Th	roughpu	ıt		15000 therms *								
	Enter	membe	rs' thro	ughput as		Absolut	e value	\sim						
	A/N	Permit No.	Permit Device ID	Permit Equipment Description	Equipment	Emergency Generator (for ICE only)	Part of Fire Suppresion (for ICE only)	% Throughput	Throughput Value	Throughput Units	Group Member			
	123456	D1234	D1	BOILER (<10 MMBTU/HR) NAT GAS ONLY	Boiler <10 MMBTU/HR	No	No	66.67	10,000.00	therms				
	234567	A1234	D2	BOILER (<10 MMBTU/HR) NAT GAS ONLY	Boiler <10 MMBTU/HR	No	No	13.33	2,000.00	therms	<u>Remove</u>			
	345678	B1234	D3	BOILER (<10 MMBTU/HR) NAT GAS ONLY	Boiler <10 MMBTU/HR	No	No	20.00	3,000.00	therms	<u>Remove</u>			

STEP # 9. As user select "Apply Grouping Model", the wizard acknowledges it with a message as shown.

-							_	Eacility ID:	0001/12	LPC Poport	ing period: 20	14			
Facility ID: 999142	Form	data i	s succe	ssfully	saved.										
Facility Information Build Reporting Structure Combustion Fuels Emission Sources (ES) Report Process/Emissions	Emis	sion so	ource g	rouping	g rules	have beer	n successfull	y applied t	o group m	embers.					
Data Validation	Edit Em	issior	Sour	ce											
Print Facility Report Excel Reports Report Submission	Providi	ng com	rect info	ormatio	n and p	oroper sele	ection catego	ries would	help to cla	ssify emissio	n source.				
	Permitt	ed.					>								
	A/N						123456								
	Permit	No					D1234								
	A/N nai	me (BC	AT/CC/	AT)			BOILER (5-20	0 ММВТU/Н	R) NAT GAS	5 ONLY					
	Permit	Device	ID				D1 BOILER (<10 MMBTU/HR) NAT GAS ONLY								
	AFR De	vice ID	nent be	scriptio	an .		ES1 (ESG model)								
	ES Nam	e					EST (ESG model)								
	Operati	ing ES	Status				Normal Operation								
		-					~								
	Comme	nt					~								
	Emissio	n Sour	ce Cate	gory			External Cor Categoriz	mbustion e Emissior	n Source	•					
	Equipm	ent					Boiler <10 MMBTU/HR								
	Design	Capaci	ity				7	MILLION BT	TU PER HO	UR	~				
							Remove the group								
	Total E	SG Thr	oughpu	t			15,000.00		therms *						
	Enter n	nembe	rs' throu	ghput	as		Absolute va	lue 🗸							
	Group members	ES Name	A/N	Permit No.	Permit Device ID	Permit Equipmen Descriptio	t Equipment	Emergency Generator (for ICE only)	Part of Fire Suppresion (for ICE only)	% Throughput	Throughput Value	Thre			
	ES1	boiler 1	123456	D1234	D1	BOILER (<10 MMBTU/HI NAT GAS ONLY	R) Boiler <10 MMBTU/HR	No	No	66.67	10,000.00	ther			
	ES2	boiler 2	234567	A1234	D2	BOILER (<10 MMBTU/HI NAT GAS ONLY	R) Boiler <10 MMBTU/HR	No	No	13.33	2,000.00	ther			
	ES3	boiler 3	345678	B1234	D3	BOILER (<10 MMBTU/HI NAT GAS ONLY	R) Boiler <10 MMBTU/HR	No	No	20.00	3,000.00	ther			
										100.00	15,000.00				
	Add Emis	sion So	urce							Apply G	rouping Mode	•			
	<											>			

The next 3 screens show that data from the model (ES1) are applied to the group members (ES2 and ES3). The tool also offers user an avenue to go back for adding/deleting group members or working in other areas.

AER Home	Access Facility	Facility H	lome					Ħ		1 2		
						E	acility ID: 9	99142 · ABC ·	Reporting	period: 2014		
Facility II): 999142	Fxte	rnal Comb	ustion			-					
Eacility Inform	nation	Disco								Fastasian		
Build Reportin Combustion	ng Structure Fuels	Source	es including usag ghput units bef	ge, emission factor a ore reporting emiss	ind contro ions. Det	ol efficier ail instru	ncy (if any) actions are a	. You must se available by c	elect Fuel a licking on h	and Help icon in		
Emission So	urces (ES)	the to	ool bar.									
Report Proc	ess/Emissions	This	process is manag	ed by emission sourc	e group.	Review	w the grou					
Combustion			5					_				
External Internal C	Combustion	Step 1	1: Process					Optio	nal: Mark a	s Completed		
Use of organ	nics		AEP Daudeo ID	Bermit Device ID	A /N	Drocorr	ID Pulo #	Eaulou	nont	Fuel		
Spray Coa	ting/Spray	0	EC1	Permit Device ID	122454	PTOCESS D1	474	Pailan a10 A		Natural Gas		
Booth	-6.0	Open	631	UT	123430	P1	4/4	Click be	re to delet	this process		
Storage Tag	or Organics							otientile				
Eugitive Cor	monents	Step 2	2: Throughput									
Other Proce	ISSAS											
Process Ups	et		Annua	l Throughput		Criteria/	Toxic Throu	ghput	GHG 1	Throughput		
Summaries		Open	10,000.0	0000000 therms		0.95 mmscf 952,000.00 scf						
Data Validatio	n	Step 3	3: Criteria Emi	issions (lbs)			Use	- Default Emi-	sion Facto	rs if available.		
Print Facility	Report			(,								
Excel Reports			Pollutant	EF		Unit		EF Data Sour	ce	Emissions		
Report Submi	ssion	Open	VOC	5.50000	0 lbs / mi	mscf	AQM	D default		5.23		
		Open	NOx	100.00000	0 lbs / m	mscf	AQM	D default		95.00		
		Open	SOx	0.60000	0 lbs / m	mscf	AQM	D default		0.57		
		Open	CO	84.00000	0 lbs / m	mscf	AQM	D default		79.80		
		Open	PM	7.60000	0 lbs / mi	mscf	AQM	D d e fault		7.22		
		Step 4	4: Toxic (TAC/	ODC) Emissions	(lbs)							
			TAC/ODC Gro	up CAS #	EF		Unit	EF Da	ita Source	Emissions		
		Open	Benzene	71432	8.0	0000e-3 l	bs / mmscf	AQMD de	fault	7.600e-3		
		Open	Formaldehyd	le 50000	1.70	0000e-2 l	bs / mmscf	AQMD de	fault	1.615e-2		
		Open	PAHs [PAH, PO	DM] 1151	1.00	0000e-4 l	bs / mmscf	AQMD de	fault	9.500e-5		
		Open	PAHs [PAH, PC	DM] 91203	3.00	0000e-4 l	bs / mmscf	AQMD de	fault	2.850e-4		
		Open	Ammonia	7664417	1.80	0000e+1 l	bs / mmscf	AQMD de	fault	1.710e+1		
		Add	New									

AER Home Access Facility	Facility H	ome							# 🖶		?
						Fa	acility ID:	999142 · AB	C · Reportin	g period:	: 2014
Facility ID: 999142	Exte	rnal Comb	ustion								
Facility Information Build Reporting Structure Combustion Fuels Emission Sources (ES) Report Process/Emissions	Please Source throu the to This p	e provide specifi es including usa ghput units bef ol bar. rocess is manag	ic information for ge, emission fac ore reporting e ed by emission s	or ever tor an missic	ry process a d control ef ons. Detail i group. R	associa fficier instru Reviev	ated with ncy (if any ictions are w the gro	your extern /). You mus e available b up	al combustio t select Fue y clicking on	n Emissic a nd Help ico	n n in
External Combustion											
Internal Combustion	Step 1	: Process						Ор	tional: Mark	as Comp	pleted
Use of organics		AFR Device ID	Permit Device	ID	A/N Pro	ocess I	D Rule 4	t Fa	uipment	F	uel
Spray Coating/Spray	Open	ES2	D2		234567	P1	474	Boiler <	IO MMBTU/HR	Natura	al Gas
Other Use of Organics								Click	here to dele	te this pr	rocess.
Storage Tanks											
Fugitive Components	Step 2	: Throughput									
Other Processes			T 1 1 1		<i>C</i>				CUC	TI 1	
Process Upset	0	2 000 00	Inroughput		Crit	ceria/ i	100.00	out			
Summaries	open	2,000.00	ooooo cherms			170	,400.00 50	-			
Data Validation	Step 3	: Criteria Em	issions (lbs)				U	se Default E	mission Fact	ors if ava	ilable.
Print Facility Report											
Excel Reports		Pollutant	EF		Ur	nit		EF Data S	ource	Emiss	ions
Report Submission	Open	VOC	5.5	00000	lbs / mmscf	f	AQ	MD default			1.05
	Open	NOx	100.0	00000	lbs / mmscf	F	AQ	MD default			19.00
	Open	SOx	0.6	00000	lbs / mmscf	F	AQ	MD default			0.11
	Open	CO	84.0	00000	lbs / mmscf	f	AQ	MD default			15.96
	Open	PM	7.6	00000	lbs / mmscf	f	AQ	MD default			1.44
	5444 A	Tavia (TAC)		(1)	h =)						
	Step 4	: TOXIC (TAC/	ODC) Emissio	ns (u	DS)						
		TAC/ODC Gro	CAS #	¥	EF		Unit	EF	Data Source	Emi	issions
	Open	Benzene	71432	2	8.00000	De-3 U	bs / mmsc	f AOME) default	1	1.520e-3
	Open	Formaldehyd	le 50000)	1.70000	De-2 U	bs / mmsc	f AQME) default	3	3.230e-3
	Open	PAHs [PAH, PO	DM] 1151		1.00000	De-4 l	bs / mmsc	f AQME) default	1	1.900e-5
	Open	PAHs [PAH, PO	DM] 91203	3	3.00000	De-4 U	bs / mmsc	f AQME) default		5.700e-5
	Open	Ammonia	766441	17	1.80000	le+1 l	bs / mmsc	f AQME) default	3	.420e+0
	Add	New									

AER Home	Access Facility	Facility Home										a ?	
		Facility ID: 999142 · ABC · Reporting period: 2014											
Facility I	ID: 999142	External Combustion											
Facility Information Build Reporting Structure Combustion Fuels Emission Sources (ES) Report Process/Emissions Combustion		Please provide specific information for every process associated with your external combustion Emission Sources including usage, emission factor and control efficiency (if any). You must select Fuel and throughput units before reporting emissions. Detail instructions are available by clicking on Help icon in the tool bar. This process is managed by emission source group. Review the group											
External Combustion		Step 1: Process								Optio	nal: Mark a	s Completed	
Use of organics													
Spray Coating/Spray		0	AER Device ID Perr		t Device ID	A/N Process ID		ID Rule	e#	Equipment		Fuel	
Booth		Upen	Upen ES3		D3	343676	PT		4 ВС	Click here to del		this process.	
Storage Tanks Fugitive Components Step 2: Throughput													
Other Processes			Annual Throughput			Criteria/Toxic Throughput					GHG Throughput		
Process Upset		<u>Open</u>	3,000.00000000 therms			0.29 mmscf					285,600.00 scf		
Data Validat	ion												
Print Facility	v Report	Step 5. Criteria Emissions (ibs)							use <u>Der</u>		SSION FACTO	s il avallable.	
Excel Repor	Excel Reports		Pollutant		EF	Unit			EF Data Source		ce	Emissions	
Report Submission		Open	VOC		5.500000	lbs / mmso	.bs / mmscf		AQMD default			1.60	
		Open	NOx		100.000000	lbs / mmscf		A	AQMD default			29.00	
		Open	SOx		0.600000	lbs / mmscf		A	AQMD default			0.17	
		Open	CO		84.000000	lbs / mmso	lbs / mmscf		AQMD default			24.36	
		<u>Open</u>	PM		7.600000	lbs / mmso	mmscf		AQMD default			2.20	
Step 4: Toxic (TAC/ODC) Emissions (lbs)													
			TAC/ODC Gro	up	CAS #	EF		Un	it	EF Da	ata Source	Emissions	
			Benzene		71432	8.00000e-3 lbs / r		lbs / mm	nmscf AQMD default		efault	2.320e-3	
			Formaldehyde		50000	1.7000	1.70000e-2 lbs / m		mscf AQMD default		efault	4.930e-3	
			PAHs [PAH, POM]		1151	1.0000	1.00000e-4 lbs / n		mmscf AQMD default		efault	2.900e-5	
			PAHs [PAH, PO	DM]	91203	3.00000e-4 lbs / m		lbs / mm	mmscf AQMD default		efault	8.700e-5	
		<u>Open</u>	Ammonia		7664417	1.80000e+1 lbs /		lbs / mm	/ mmscf AQMD def		efault	5.220e+0	
		Add	New										

Additional Notes

- ✤ An ES can not be a member of two groups.
- ES members can be added or removed from groups at any time before report is submitted.
- The wizard is applicable to the primary (first selected) fuel and its throughput. The secondary fuel or other processes and upsets/spills emissions data can be separately added for individual ES.
- Adjust throughput (percentage or absolute value) accordingly as members are added or removed from a group.
- Changes made to primary process in model device and re-applied to group will override all member's primary process data. Re-applying "Grouping Model" will not affect other added processes and upsets/spills emission data.