Division for Air Quality		V		DEP7	007AI		Additional Documentation		
Division		14111	, y	Admi	nistrativ	e Information			
300 So	wer Bouleva	rd		Sec	tion AI.1: S	ource Information		Additi	onal Documentation attached
Frankf	ort, KY 4060)1		Sec	tion AI.2: A	Applicant Information	L		
(502	2) 564-3999			Sect	tion AI.3: C	Owner Information			
					tion AI.4: T	ype of Application			
				Sect	tion AI.5: C	Other Required Inform	nation		
				Sect	tion AI.6: S	ignature Block			
				Sect	tion AI.7: N	lotes, Comments, and	l Explanatio	ons	
Source Name:			Kentucky	Municipal Energy Age	ncy (KYME	A) Energy Center I			
KY EIS (AFS) #:		21-	New Sourc	ce					
Permit #:			New Sourc	ce					
Agency Interest (AI)	ID:		New Sourc	e					
Date:			24-Feb-25						
Section AI.1: S	ource Info)rm	ation						
Physical Location	Street:		1757 AC S	laton Road					
Address:	City:		Madisonvil	le	County:	Hopkins		Zip Code:	42431
Mailing Address:	Street or P.O. Box:		1700 Eastp	oint Parkway, Suite 220					
in an	City:		Louisville		State:	Kentucky		Zip Code:	40223
				Standard Coo	rdinates fo	r Source Physical L	ocation		
Longitude:	8	7°33'	4.00"W	(decimal degrees)		Latitude:	37°19'11.	04"N	(decimal degrees)
Primary (NAICS) Ca	tegory:		22- Utilitie	S	_	Primary NAICS #:	221 Gen	112- Fossil Fu	uel Electric Power

Classification (SIC) C	ategory:	Electric Services		Primary SIC #:	4911						
Briefly discuss the typ conducted at this site:	e of business	Kentucky Municipal Energ the state of Kentucky.	gy Agency (KYMEA) is a	i joint public agency that serves th	e current and future electric	power and energy requirements of					
Description of Area Surrounding Source:	✓ Rural Area☐ Urban Area	Industrial ParkIndustrial Area	Residential AreaCommercial Area	Is any part of the source located on federal land?	☐ Yes ✓ No	Number of Employees: 15					
Approximate distance to nearest residence of commercial property:	r 0.15 m	iles	Property Area: 13	.5 Acres	Is this source portable?	☐ Yes ☑No					
	What other environmental permits or registrations does this source currently hold or need to obtain in Kentucky?										
NPDES/KPDES:	Currently Ho	ld 🗸 Need	N/A								
Solid Waste:	Currently Ho	ld 🗌 Need	☑ N/A								
RCRA:	Currently Ho	ld 🗌 Need	✓ N/A								
UST:	Currently Ho	ld 🗌 Need	✓ N/A								
Type of Regulated	Mixed Waste	Generator	Generator	Recycler	Other:	_					
Waste Activity:	U.S. Importe	r of Hazardous Waste	Transporter	Treatment/Storage/Disposal	Facility V/2	A					

Section AI.2: App	olicant Information								
Applicant Name:	Doug Buresh								
Title: (if individual)	President/CEO								
Mailing Address	Street or P.O. Box:	1700 Eastpoint Parkway							
Maning Address:	City: Louisville		State:	Kentucky	Zip Code:	40223			
Email: (if individual)	dburesh@kymea.org								
Phone:	502-242-5635								
Technical Contact									
Name:	Jeremy James								
Title:	Environmental Consultant								
Mailing Address:	Street or P.O. Box:	100 Court Ave STE 300							
	City: Des Moines		State:	Iowa	Zip Code:	50309			
Email:	jamesjeremy@stanleygroup.	com							
Phone:	515-447-4424								
Air Permit Contact for S	ource								
Name:	Doug Buresh								
Title:	President/CEO								
Mailing Address:	Street or P.O. Box:	1700 Eastpoint Parkway							
	City: Louisville		State:	Kentucky	Zip Code:	40223			
Email:	dburesh@kymea.org								
Phone:	502 242-5635								

Section AI.3: Ov	vner Information				EP7007AI
Owner same	as applicant				
Name:					
Title:					
Mailing Address:	Street or P.O. Box: City:		State:	Zip Code:	
Email:					
Phone:					
List names of owners a	nd officers of the company who h	ave an interest in the com	pany of 5% or more.		
	Name			Position	

Section AI.4: Type	e of Application					
Current Status:	Title V Condi	tional Major 🗌 State	-Origin	General Permit	🗌 Registra	tion 🗸 None
	Name Change	Initial Registration		Significant Revision	Adminis	strative Permit Amendment
	Renewal Permit	Revised Registration		Minor Revision	✓ Initial So	ource-wide OperatingPermit
(check all that apply) 502(b)(10)Change		Extension Request		Addition of New Facility	Portable	Plant Relocation Notice
	Revision	Off Permit Change		Landfill Alternate Compliance Submittal	Modifica	ation of Existing Facilities
	Ownership Change	Closure				
Requested Status:	✓ Title V 🗌 Condit	tional Major 🗌 State	-Origin	PSD NSR	Other	:
Is the source requesting	g a limitation of potenti	al emissions?	[✓ Yes □ No		
Pollutant:		Requested Limit:		Pollutant:		Requested Limit:
Particulate Matter				Single HAP		
Uolatile Organic C	Compounds (VOC)			Combined HAPs		
Carbon Monoxide		225 tons/yr		Air Toxics (40 CFR 68, S	ubpart F)	
✓ Nitrogen Oxides		225 tons/yr		Carbon Dioxide		
Sulfur Dioxide				Greenhouse Gases (GHG)	
🗌 Lead				Other		
For New Constructi	ion:					
Proposed Start (M	Date of Construction: (M/YYYY)	06/2025		Proposed Operation Start-Up Date: (MM/YYYY)	04/2027
For Modifications:						
Proposed Start (M			Proposed Operation Start-Up Date: ((MM/YYYY)		
Applicant is seeking	coverage under a permit	shield. 🗌 Yes	[Identify any non-applica✓Nosought on a sepa	ble requireme rate attachme	ents for which permit shield is ent to the application.

Indicate the documen	its attached as part of this application:			
DEP7007A Indirect Heat Exchangers and Turbines	DEP7007CC Compliance Certification			
] DEP7007B Manufacturing or Processing Operations	✓ DEP7007DD Insignificant Activities			
DEP7007C Incinerators and Waste Burners	✓ DEP7007EE Internal Combustion Engines			
DEP7007F Episode Standby Plan	DEP7007FF Secondary Aluminum Processing			
DEP7007J Volatile Liquid Storage	✓ DEP7007GG Control Equipment			
DEP7007K Surface Coating or Printing Operations	DEP7007HH Haul Roads			
DEP7007L Mineral Processes	Confidentiality Claim			
DEP7007M Metal Cleaning Degreasers	Ownership Change Form			
DEP7007N Source Emissions Profile	Secretary of State Certificate			
DEP7007P Perchloroethylene Dry Cleaning Systems	Flowcharts or diagrams depicting process			
DEP7007R Emission Offset Credit	Digital Line Graphs (DLG) files of buldings, roads, etc.			
DEP7007S Service Stations	Site Map			
DEP7007T Metal Plating and Surface Treatment Operations	Map or drawing depicting location of facility			
DEP7007V Applicable Requirements and Compliance Activities	Safety Data Sheet (SDS)			
DEP7007Y Good Engineering Practice and Stack Height Determination	Emergency Response Plan			
DEP7007AA Compliance Schedule for Non-complying Emission Units	Other:			
DEP7007BB Certified Progress Report				
ection AI.6: Signature Block				
I, the undersigned, hereby certify under penalty of law, that I am the information submitted in this document and all its attachmen	a responsible official*, and that I have personally examined, and am familiar with ts. Based on my inquiry of those individuals with primary responsibility for			
obtaining the information, I certify that the information is on kno	owledge and belief, true, accurate, and complete. I am aware that there are			
significant penalties for submitting false or incomplete information	on, including the possibility of fine or imprisonment.			
Russh	00/04/0005			
	02/24/2025			
- Alon				
Authorized Signature	Date			
Authorized Signature Doug Buresh	Date President/CEO			
Authorized Signature Doug Buresh Type or Printed Name of Signatory	Date President/CEO Title of Signatory			

			DEP7007DD					
D	ivision for Air Quality							
	300 Sower Boulevard		Insignificant Activities					
	Frankfort, KY 40601	x Section DD.1: Table of Insignificant Activities						
	(502) 564-3999	x Section DD.2: Signature Block						
		_ <u></u> Secti	on DD.3: Notes, Comments, and Explanations					
Source Name:		Kentucky Municipal Energy	y Agency (KYMEA) Energy Center I					
KY EIS (AFS) #:	21-	New Source						
Permit #:		New Source						
Agency Interest (AI) ID:	New Source						
Date:		10/25/2024						
~								
Section DD.1:	l'able of Insignificant Activities							
*Identify each acti	vity with a unique Insignificant Activity n	umber (IA #); for example:	1, 2, 3 etc.					
Insignificant	Description of Activity	Serial Number or Other	Applicable Regulation(s)	Calculated Emissions (ton/yr)				
Activity #	including Rated Capacity	Unique Identifier	Applicable Regulation(s)	Calculated Emissions (ton/yr)				
IA 1	Water Heater (20,000 Btu/hr)	Water Heater	Indirect heat exchangers or water heaters rated at 1 million BTU per hour or less actual heat input that use #2 fuel oil, wood, natural gas, LP gas or refinery fuel gas.	PM: 0.0007, PM10: 0.0007, PM2.5: 0.0007, SOx: 0.0001, NOx: 0.0086, VOC: 0.0005, CO: 0.0072, CO2: 10.512, CH4: 0.0002, Hexane: 0.0002				
IA 2	Circuit Breakers/Switchgear (200 lbs)	Circuit Breakers	N/A	Sulfur Hexafluouride: 11.4				
IA 3	Space Heaters (14 Heaters, 1.35 Total MMBtu/hr)	Space Heaters	Indirect heat exchangers or water heaters rated at 1 million BTU per hour or less actual heat input that use #2 fuel oil, wood, natural gas, LP gas or refinery fuel gas.	PM: 0.0441, PM10: 0.0441, PM2.5: 0.0441, SOx: 0.0035, NOx: 0.5795, VOC: 0.0319, CO: 0.4872, CO2: 709.56, CH4: 0.0136, N20: 0.0013, Formaldehyde: 0.0004, Hexane: 0.0002				
IA 4	Maintenance water (Water-glycol) Tank (2,700 Gallons)	Glycol Tank	Storage vessels having less than 10,567 gallons capacity that contain petroleum or organic liquids with a vapor pressure of 1.5 psia or less at storage temperature.	VOC: 0.0001				

	Section	DD.3 :	Notes,	Comments,	and	Explanations
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	Division for Air Qual	ity		DEP7007EE						
		-						Additional Document	ation	
	200 G D 1 1			Internal Combusti	on Engines			_x Complete DEP7007AI,	DEP7007N, DEP7007V,	and DEP7007GG
	300 Sower Boulevard			- Section FE 1: Com				Attack EDA antifaction	£41	
	Frankfort, KY 40601			<u>x</u> Section EE.1: Gene	rai information			Attach EPA certification (of the engine	
	(502) 564-3999			<u>x</u> Section EE.2: Ope	ion Information					
				x Section EE 4: Fue	Ign Information					
				x Section EE.5: Emi	ssion Factor Inform	ation				
				x Section EE.6: Not	es, Comments, and	Explanations				
	Source Name:	Kentucky Munic	ipal Energy Ag	ency (KYMEA) Energy	Center I					
	KY EIS (AFS) #:	New Source								
	Permit #:	New Source								
	Agency Interest (AI) ID: Date:	10/25/2024								
	Date.	10/25/2024								
E.1: Emis	ssion Summary									
							1	1		
Emission Unit #	Emission Unit Name	Control Device ID	Stack ID	Manufacturer	Model Number	Model Year	Date of Manufacture	Proposed/Actual Date of Construction Commencement (MM/YYYY)	Date Reconstructed/ Modified	List Applicable Regulations
EU 01	Reciprocating Internal	CD 01 CD 02	ED 01	Wortsile	1872080	2024	2025	06/2025	NI/A	40 CFR Part 63 Subpart ZZZZ, 40 CFR Part 60 Subpart JJJJ, 40 KAB (0)005 Section 2(2)(coor)
EU UI	Combustion Engine #1	CD 01, CD 02	EF 01	wartsha	1875050	2024	2023	00/2023	IV/A	401 KAR 63:002 Section 2(2)(eece) 401 KAR 63:002 Section 2(4)(eece)
EU 02	Reciprocating Internal Combustion Engine #2	CD 03, CD 04	EP 02	Wartsila	18V50SG	2024	2025	06/2025	N/A	40 CFR Part 63 Subpart ZZZZ, 40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee), 401 KAR 63:002 Section 2(4)(eeee)
EU 03	Reciprocating Internal Combustion Engine #3	CD 05, CD 06	EP 03	Wartsila	18V50SG	2024	2025	06/2025	N/A	40 CFR Part 63 Subpart ZZZZ, 40 CFR Part 60 Subpart JJJJ, 40 KAR 60:005 Section 2(2)(eece), 401 KAR 63:002 Section 2(4)(eece)
EU 04	Reciprocating Internal Combustion Engine #4	CD 07, CD 08	EP 04	Wartsila	18V50SG	2024	2025	06/2025	N/A	40 CFR Part 63 Subpart ZZZZ, 40 CFR Part 60 Subpart JJJJ, 40 KAR 60:005 Section 2(2)(eeee), 401 KAR 63:002 Section 2(4)(eeee)
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Section EE.2: Operating Information										
Emission Unit #	Engine Purpose (Identify if Non-Emergency, Emergency,Fire/Water Pump, Black-start engine for combustion turbine, Engine Testing)	Hours Operated	Is this engine a rental? (Yes/No)	Rental Time Period (hrs)	Alternate Operating Scenarios (Describe any operating scenarios in which the engine may be used in a different configuration)					
EU 01	Non-emergency	8760	No	N/A	N/A					
EU 02	Non-emergency	8760	No	N/A	N/A					
EU 03	Non-emergency	8760	No	N/A	N/A					
EU 04	Non-emergency	8760	No	N/A	N/A					

Section EE.3: Design Information										
	Engine Type	Ignition Type	Engine Family	Maximum Engine	Maximum	Total	Number of			
Emission Unit #	(Identify all that apply: Commercial,	(Identify if either Compression or	(Identify all that apply: 2-stroke, 4-	Power	Engine Speed	Displacement	Culindara			
	Institutional, Stationary, Non-Road)	Spark Ignition)	stroke, Rich Burn, Lean Burn)	(bhp)	(rpm)	(L)	Cynnuers			
EU 01	Stationary	Spark	4-stroke, Lean Burn	25,574	514	2049.9	18			
EU 02	Stationary	Spark	4-stroke, Lean Burn	25,574	514	2049.9	18			
EU 03	Stationary	Spark	4-stroke, Lean Burn	25,574	514	2049.9	18			
EU 04	Stationary	Spark	4-stroke, Lean Burn	25,574	514	2049.9	18			

Section EE.4:	Section EE.4: Fuel Information									
Emission Unit #	Identify if Primary, Secondary, or Tertiary Fuel	Fuel Type (Identify if Diesel, Gasoline, Natural Gas, Liquefied Petroleum Gas (LPG), Landfill/Digester Gas, or Other)	Fuel Grade	Percent Time Used (%)	Maximum Fuel Consumption (Btu/Hp-hr)	Heat Content (Btu/scf)	Sulfur Content (%)	SCC Code	SCC Units	
EU 01	Primary	Natural Gas	130	100	10,791	1,020	0.01	ICE EGU NatGas Recip	20100202	
EU 02	Primary	Natural Gas	130	100	10,791	1,020	0.01	ICE EGU NatGas Recip	20100202	
EU 03	Primary	Natural Gas	130	100	10,791	1,020	0.01	ICE EGU NatGas Recip	20100202	
EU 04	Primary	Natural Gas	130	100	10,791	1,020	0.01	ICE EGU NatGas Recip	20100202	

Section EE.5: Emission Factor Information

Emission factors expressed here are based on the potential to emit.

Emission Unit #	Fuel	Pollutant	Emission Factor	Emission Factor Units	Source of Emission Factor
		PM	3.32	lb/hr	Mass Balance
		PM10	0.00999	lb/MMBtu	AP-42 Table 3.2-2
		PM2.5	0.00999	lb/MMBtu	AP-42 Table 3.2-2
		SO2	0.000588	lb/MMBtu	AP-42 Table 3.2-2
		NOx	4.08	lb/MMBtu	AP-42 Table 3.2-2
ELLO1 ELLO2		VOC	0.118	lb/MMBtu	AP-42 Table 3.2-2
EU 01, EU 02, EU 03 EU 04	Natural Gas	СО	0.317	lb/MMBtu	AP-42 Table 3.2-2
EU 05, EU 04		Pb	0.00	lb/hr	Mass Balance
		NH ₃	3.18	lb/hr	Mass Balance
		Formaldehyde, CH2O	0.0528	lb/MMBtu	AP-42 Table 3.2-2
		CO2	116.9773717	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2
		Nitrous Oxide (N2O)	0.000220462	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2
		Methane (CH4)	0.002204624	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2

	Section E	E.6: Notes.	Comments,	and Ex	planations
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	Division for Air Q	uality		DEP7007GG												
								Additional	Documentatio	on		1				
				G . 15 .					<u></u>							
	300 Sower Boulevard			Control Equipm	ient			<u>x</u> Complete	e Sections GG.1 thro	ough GG.12, as	applicable					
							x Attach manufacturer's specifications for each control device									
	Frankfort, KY 40601								anunacturer s speen	leations for each	control device					
	(502) 564-3999															
								x Complete	e DEP7007AI							
			1									1				
	Source Name:	Kentucky Mu	nicipal Energy Ager	cy (KYMEA) Energy	Center I											
KY EIS (AFS) #: New Source																
	Permit #:	New Source									_					
	Agency Interest (AI) ID:	New Source									_					
	Date:	10/25/2024									-					
		G . 15 .														
Section GC	6.1: General Information -	- Control Equi	pment		1									1		
Control							Inlet Gas Stre	am Data For <u>All</u>	Control Devices		Inlet Gas Strea Afterburne	m Data For Condense rs, Incinerators, Oxid	ers, Adsorbers, lizers <u>Only</u>	Equipment O	perational Data For <u>All</u>	l Control Devices
Device ID #	Control Device Name	Cost	Manufacturer	Model Name/ Serial #	Date Installed	Temperature (°F)	Flowrate (scfm @ 68 °F)	Average Particle Diameter (µm)	Particle Density (<i>lb/ft³</i>) or Specific Gravity	Gas Density (<i>lb/ft</i> ³)	Gas Moisture Content (%)	Gas Composition	Fan Type	Pressure Drop Range (in. H ₂ O)	Pollutants Collected/Controlled	Pollutant Removal (%)
CD 01	Selective Catalytic Reduction (SCR)	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	NA	0.04717	N/A	N/A	N/A	max 16*	NOx	>90
CD 02	Oxidation (CO) Catalyst	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	NA	0.04717	N/A	N/A	N/A	max 16*	CO, VOC, CH2O	>90%**
CD 03	Selective Catalytic Reduction (SCR)	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	NA	0.04717	N/A	N/A	N/A	max 16*	NOx	>90
CD 04	Oxidation (CO) Catalyst	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	NA	0.04717	N/A	N/A	N/A	max 16*	CO, VOC, CH2O	>90%**
CD 05	Selective Catalytic Reduction (SCR)	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	NA	0.04717	N/A	N/A	N/A	max 16*	NOx	>90
CD 06	Oxidation (CO) Catalyst	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	NA	0.04717	N/A	N/A	N/A	max 16*	CO, VOC, CH2O	>90%**
CD 07	Selective Catalytic Reduction (SCR)	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	NA	0.04717	N/A	N/A	N/A	max 16*	NOx	>90
CD 08	Oxidation (CO) Catalyst	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	NA	0.04717	N/A	N/A	N/A	max 16*	CO, VOC, CH2O	>90%**
			ļ	* SCR and oxidation	catalyst elements are	installed in same re	actor. Given pre	ssure drop is ove	r whole SCR and ox	idation catalyst	system					ļ
				** >90% for CO and	CH2O. VOC reductio	on is depending on	feed gas compos	ition, since VOC	level before catalys	t system is propo	orsional of that					
-																

					Design Te	mperature		Reagent		-		SCR	<u>Only</u>		
Control	Identify all Emission Units	Туре		Injection Grid	Ra	nge		Injection Rate		Maximum Design		alyst			
Device ID #	Feed to SCR/SNCR	(SCR/SNCR)	Gas Composition	(e.g. honeycomb)	Min (°F)	Max (°F)	Туре	Min (lb/hr)	Max (lb/hr)	Ammonia Slip (ppm)	Composition	Volume (ft ³)	Weight (lb)	Replacement Schedule	
CD 01	EU 01	SCR	Note 3	TBD	540	885	40% Urea	TBD	152	10 ppm at 15 vol-% O2	NA	Note 1	Note 1	Note 1, 2	
CD 03	EU 02	SCR	Note 3	TBD	540	885	40% Urea	TBD	152	10 ppm at 15 vol-% O2	NA	Note 1	Note 1	Note 1, 2	
CD 05	EU 03	SCR	Note 3	TBD	540	885	40% Urea	TBD	152	10 ppm at 15 vol-% O2	NA	Note 1	Note 1	Note 1, 2	
CD 07	EU 04	SCR	Note 3	TBD	540	885	40% Urea	TBD	152	10 ppm at 15 vol-% O2	NA	Note 1	Note 1	Note 1, 2	
Note 1	TBD when data from catalyst su	pplier available												1	
Note 2	TBD Guarantee time is 12 month because that exact lifetime is hard	ns after commission d to estimate. Cata	oning, but catalyst lifetir alyst performance can b	ne is typically much l e followed e.g. by an	onger than tha	t. Many parame measurement a	eters are affecting nd catalyst replac	to catalyst ele ement designed	ment lifetime (e. I based on need.	g. possible catalyst poisons When data from catalyst su	in feed gas, engine pplier available	operation tempe	rature and prof	ile etc.) and	
Note 3	Exhaust gas compositions at 100	% engine load at	site design ambient con	ditions											
	Exhaust gas, vol%			10.0											
	N2		vol-%	73.0											
	Ar		vol-%	0,870											
	He		vol-%	0											
	CO2		vol-%	4,92											

Section GG.11: Other Control Equipment

	Identify all Emission Units and	
Control Device ID #	Control Devices that Feed to Control Equipment	Type of Control Equipment (provide description and a diagram with dimensions)
CD 02	EU 01	Oxidation (CO) Catalyst (SCR and oxidation catalyst elements are installed in same reactor. Details can be provided when available from supplier).
CD 04	EU 02	Oxidation (CO) Catalyst (SCR and oxidation catalyst elements are installed in same reactor. Details can be provided when available from supplier).
CD 06	EU 03	Oxidation (CO) Catalyst (SCR and oxidation catalyst elements are installed in same reactor. Details can be provided when available from supplier).
CD 08	EU 04	Oxidation (CO) Catalyst (SCR and oxidation catalyst elements are installed in same reactor. Details can be provided when available from supplier).

Section GG.12: Notes, Comments, and Explanations	

Division for Air Quality

300 Sower Boulevard Frankfort, KY 40601 (502) 564-3999

DEP7007N Source Emissions Profile

<u>X</u> Section N.1: Emission Summary
 <u>X</u> Section N.2: Stack Information
 <u>X</u> Section N.3: Fugitive Information
 <u>Section N.4: Notes, Comments, and Explanations
</u>

Additional Documentation

X Complete DEP7007AI

Source Name: Kentucky Munici KY EIS (AFS) #: New Source Permit #: New Source Agency Interest (AI) ID: New Source Date: 2018

Kentucky Municipal Energy Agency (KYMEA) Energy Center I New Source New Source New Source 2/18/2025

N.1: Emis	sion Summary																
Emission						Stack ID	Maximum Design Capacity (SCC Units/hour)		Uncontrolled	Uncontrolled	Emission Franke Supervision 10 (200-100)	Capture	Control	Hourly Emissions		Annual Emissions	
Emission Unit #	Emission Unit Name	Process ID	Process Name	Control Device Name	Control Device ID			Pollutant	Uncontrolled Emission Factor	Emission Factor Units	Emission Factor Source (e.g. AP-42, Stack Test, Mass Balance)	Efficiency CQ	Efficiency (%)	Uncontrolled Potential (lb/hr)	Controlled Potential (lb/hr)	Uncontrolled Potential (tons/yr)	Controlled Potential (tons/yr)
								PM	3.19	lb/hr	Manufacturer Data			3.1900	3.1900	14.2497	14.2497*
								PM10	0.00999	lb/MMBtu	Manufacturer Data	-	-	3.1900	3.1900	14.2497	14.2497*
								PM2.5 S02	0.000588	lb/MMBtu	AP-42 Table 3 2-2			0.0891	0.0891	14.2497	0.3903
								NOx	4.08	lb/MMBtu	Manufacturer Data	100.00%	99.60%	618.2832	2.4600	2708.0804	13.20*
								VOC	0.118	lb/MMBtu	Manufacturer Data	100.00%	72.32%	17.8817	4.9500	78.3219	21.78*
								CO	0.317	lb/MMBtu	Manufacturer Data	100.00%	89.61%	48.0382	4.9900	210.4072	23.93*
								NH ₃	2.02	lb/hr	Manufacturer Data	-	-	2.0200	2.0200	8.8476	8.8476
								Formaldehyde, CH2O	0.0528	lb/MMBtu	Manufacturer Data	100.00%	96.88%	8.0013	0.2500	35.0457	1.0950
								Acetaldehyde, C2H4O	0.00836	lb/MMBtu	Manufacturer Data	100.00%	62.11%	1.2669	0.4800	5.5489	2.1024
								Methanol, CH3OH	0.00514	lb/MMBtu	Manufacturer Data	100.00%	28.73%	0.3789	0.8700	1.6594	1.1826
								Carbon Tetrachloride	0.0000367	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0056	0.0056	0.0244	0.0244
								chloroform	0.0000285	lb/MMBtu	AP-42 Table 3.2-2			0.0043	0.0043	0.0189	0.0189
								virwl chloride	0.00044	Ib/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2	-	-	0.0667	0.0667	0.2920	0.2920
				0.1				dichloromethane	0.00002	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0030	0.0030	0.0133	0.0133
EU 01	Reciprocating Internal	Process 1	Engines	Reduction (SCR),	CD 01, CD 02	EP 01	151.54 MMBtu/hr	1,1,2-Trichloroethane	0.0000318	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0048	0.0048	0.0211	0.0211
	Compustion Engine #1			Oxidation (CO) Catalyst				1,1,2,2-Tetrachtoroethane Phenanthrene	0.00004	Ib/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2	-	-	0.0061	0.0061	0.0265	0.0265
								naphthalene	0.0000744	lb/MMBtu	AP-42 Table 3.2-2			0.0113	0.0113	0.0494	0.0494
								2-Methylnaphthalene	0.0000332	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0050	0.0050	0.0220	0.0220
						ı		Biphenyl ethyl benzene	0.000212	lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2			0.0321	0.0321	0.1407	0.1407
								styrene	0.0000236	lb/MMBtu	AP-42 Table 3.2-2			0.0036	0.0036	0.0157	0.0157
								Ethylene Dibromide	0.0000443	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0067	0.0067	0.0294	0.0294
								1,3-butadiene toluene	0.000267	lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2	-	-	0.0405	0.0405	0.1772	0.1772
								chlorobenzene	0.0000304	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0046	0.0046	0.0202	0.0202
								phenol	0.000024	lb/MMBtu	AP-42 Table 3.2-2			0.0036	0.0036	0.0159	0.0159
								hexane	0.00111	lb/MMBtu	AP-42 Table 3.2-2			0.1682	0.1682	0.7368	0.7368
								1,3-Dichloropropene	0.0000264	lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2			0.0040	0.0040	0.0175	0.0175
								xylenes	0.000184	lb/MMBtu	AP-42 Table 3.2-2			0.0279	0.0279	0.1221	0.1221
								CO2	116.9773717	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2			17726.7509	17726.7509	77643.1690	77643.1690
								CH4 N-O	0.002204624	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2			0.3341	0.3341	1.4633	1.4633
								PM	3.19	lb/hr	Manufacturer Data	-	-	3.1900	3.1900	14.2497	14.2497*
								PM10	0.00999	lb/MMBtu	Manufacturer Data	-	-	3.1900	3.1900	14.2497	14.2497*
								PM2.5	0.00999	lb/MMBtu	Manufacturer Data	-	-	3.1900	3.1900	14.2497	14.2497*
								NOx	4.08	lb/MMBtu	Manufacturer Data	100.00%	99.60%	618.2832	2.4600	2708.0804	13.20*
								VOC	0.118	lb/MMBtu	Manufacturer Data	100.00%	72.32%	17.8817	4.9500	78.3219	21.78*
								CO	0.317	lb/MMBtu	Manufacturer Data	100.00%	89.61%	48.0382	4.9900	210.4072	23.93*
								PB NH ₂	2.02	lb/hr	Manufacturer Data			2.0200	2 0200	8.8476	8.8476
								Formaldehyde, CH2O	0.0528	lb/MMBtu	Manufacturer Data	100.00%	96.88%	8.0013	0.2500	35.0457	1.0950
								Acetaldehyde, C2H4O	0.00836	lb/MMBtu	Manufacturer Data	100.00%	62.11%	1.2669	0.4800	5.5489	2.1024
								Acrolein, C3H8O Methanol, CH3OH	0.00514	lb/MMBtu lb/MMBtu	Manufacturer Data	100.00%	13.98%	0.7789	0.6700	3.4117	2.9346
								Carbon Tetrachloride	0.0000367	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0056	0.0056	0.0244	0.0244
								chloroform	0.0000285	lb/MMBtu	AP-42 Table 3.2-2			0.0043	0.0043	0.0189	0.0189
								benzene virvi chloride	0.00044	lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2			0.0667	0.0667	0.2920	0.2920
								dichloromethane	0.00002	lb/MMBtu	AP-42 Table 3.2-2			0.0030	0.0030	0.0133	0.0133
EU 02	Reciprocating Internal	Process 1	Engines	Selective Catalytic Reduction (SCR)	CD 03 CD 04	EP 02	151.54 MMBtu/hr	1,1,2-Trichloroethane	0.0000318	lb/MMBtu	AP-42 Table 3.2-2	•	•	0.0048	0.0048	0.0211	0.0211
	Combustion Engine #2		Ŭ.	Oxidation (CO) Catalyst				1,1,2,2-Tetrachloroethane Phenanthrene	0.00004	lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2			0.0061	0.0061	0.0265	0.0265
								naphthalene	0.0000744	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0113	0.0113	0.0494	0.0494
								2-Methylnaphthalene	0.0000332	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0050	0.0050	0.0220	0.0220
					1			sipnenyl ethyl benzene	0.000212	lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2			0.0321	0.0321	0.1407	0.1407
								styrene	0.0000236	lb/MMBtu	AP-42 Table 3.2-2			0.0036	0.0036	0.0157	0.0157
								Ethylene Dibromide	0.0000443	lb/MMBtu	AP-42 Table 3.2-2			0.0067	0.0067	0.0294	0.0294
								1,3-butadiene toluene	0.000267	lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2			0.0405	0.0405	0.1772	0.1772
		[chlorobenzene	0.0000304	lb/MMBtu	AP-42 Table 3.2-2			0.0046	0.0046	0.0202	0.0202
								phenol	0.000024	lb/MMBtu	AP-42 Table 3.2-2			0.0036	0.0036	0.0159	0.0159
								hexane 2.2.4-Trimethylpentane	0.00111	lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2			0.1682	0.1682	0.7368	0.7368
								1,3-Dichloropropene	0.00025	lb/MMBtu	AP-42 Table 3.2-2			0.0040	0.0040	0.0175	0.0175
								xylenes	0.000184	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0279	0.0279	0.1221	0.1221
								CO2	116.9773717	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2			17726.7509	17726.7509	77643.1690	77643.1690
								UR4 N-0	0.002204624	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2	-	-	0.3341	0.3341	1.4633	1.4633
								1479	0.000220462	LOV PIPIDIU	40 CFR 96, SUDP. C, Table C-1 and C-2			0.0334	0.0334	U.1463	0.1463

			1						014	2.10	lb/br	Manufacture Data			2 1000	2 1000	44.0407	44.04078
									PM	0.00000	IL/MAD:	Manufacturer Data			3.1900	3.1900	14.2497	14.2497
									PMI0	0.00000	tuv PiPiDtu	Manufacturer Data			3.1900	3.1900	14.2497	14.2497
									PM2.5	0.00999	ID/MMBtu	Manufacturer Data			3.1900	3.1900	14.249/	14.2497*
Next register Num Num Num Num <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>S02</td><td>0.000588</td><td>ID/MMBtu</td><td>AP-42 Table 3.2-2</td><td></td><td></td><td>0.0891</td><td>0.0891</td><td>0.3903</td><td>0.3903</td></t<>									S02	0.000588	ID/MMBtu	AP-42 Table 3.2-2			0.0891	0.0891	0.3903	0.3903
Normanne Number is a state of the state state of the state of the state state of the state of t									NOx	4.08	lb/MMBtu	Manufacturer Data	100.00%	99.60%	618.2832	2.4600	2708.0804	13.20*
									VOC	0.118	lb/MMBtu	Manufacturer Data	100.00%	72.32%	17.8817	4.9500	78.3219	21.78*
New operation of the set of the									co	0.317	lb/MMBtu	Manufacturer Data	100.00%	89.61%	48.0382	4.9900	210.4072	23.93*
									Pb	0.00	lb/hr	Manufacturer Data			0.0000	0.0000	0.0000	0.0000
Ex Resultation for 1 Resultatin for 1 Resultati									NH ₃	2.02	lb/hr	Manufacturer Data			2.0200	2.0200	8.8476	8.8476
									Formaldehude CH2O	0.0528	Ib/MMRbi	Manufacturer Data	100.00%	06.88%	8 0013	0.2500	35 0457	1 0950
Barbone Responder from Barbone									Acetaldebyde C2H4O	0.00926	Ib/MMBtu	Manufacturer Data	100.00%	62.11%	1 2669	0.4800	5 5489	2 1024
 									Acetaidenyde, C2H4O	0.00630	tuv PiPiblu	Manufacturer Data	100.00%	42.00%	0.7700	0.4000	3.3403	2.1024
November									Acrolein, C3H8O	0.00514	LOVPIMBLU Ib (MMDt)	Manufacturer Data	100.00%	13.90%	0.7769	0.6700	3.4117	2.9340
B01 Rescuence store									Methanol, CH3OH	0.0025	UVPIMBU	Manufacturer Data	100.00%	20.73%	0.3769	0.2700	1.6394	1.1020
101 Processing status Parts									Carbon Tetrachloride	0.0000367	lb/MMBtu	AP-42 Table 3.2-2			0.0056	0.0056	0.0244	0.0244
Dispensation Research (mar) Research									chloroform	0.0000285	lb/MMBtu	AP-42 Table 3.2-2			0.0043	0.0043	0.0189	0.0189
< <tr> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</tr>									benzene	0.00044	lb/MMBtu	AP-42 Table 3.2-2			0.0667	0.0667	0.2920	0.2920
Base Section Se									vinyl chloride	0.0000149	lb/MMBtu	AP-42 Table 3.2-2			0.0023	0.0023	0.0099	0.0099
< <tr> 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</tr>					Colorest or Control allo				dichloromethane	0.00002	lb/MMBtu	AP-42 Table 3.2-2			0.0030	0.0030	0.0133	0.0133
Dial Dial <thdial< th=""> Dial Dial <thd< td=""><td>511.00</td><td>Reciprocating Internal</td><td>0</td><td>Franks and</td><td>Selective Gatatylic</td><td></td><td>50.00</td><td>454 54 100 000</td><td>1,1,2-Trichloroethane</td><td>0.0000318</td><td>lb/MMBtu</td><td>AP-42 Table 3.2-2</td><td></td><td></td><td>0.0048</td><td>0.0048</td><td>0.0211</td><td>0.0211</td></thd<></thdial<>	511.00	Reciprocating Internal	0	Franks and	Selective Gatatylic		50.00	454 54 100 000	1,1,2-Trichloroethane	0.0000318	lb/MMBtu	AP-42 Table 3.2-2			0.0048	0.0048	0.0211	0.0211
Definition Definit	EUU3	Combustion Engine #3	Process 1	Engines	Reduction (SCR),	CD 05, CD 06	EP 03	151.54 MMBlu/III	1,1,2,2-Tetrachloroethane	0.00004	lb/MMBtu	AP-42 Table 3.2-2			0.0061	0.0061	0.0265	0.0265
Image: Provide the second se		-			Oxidation (CO) Catalyst				Phenanthrene	0.0000104	lb/MMBtu	AP-42 Table 3.2-2			0.0016	0.0016	0.0069	0.0069
Burkey Part Properties Part Properties <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>nanhthalene</td> <td>0.0000744</td> <td>Ib/MMBtu</td> <td>AP-42 Table 3 2-2</td> <td></td> <td></td> <td>0.0113</td> <td>0.0113</td> <td>0.0494</td> <td>0.0494</td>									nanhthalene	0.0000744	Ib/MMBtu	AP-42 Table 3 2-2			0.0113	0.0113	0.0494	0.0494
100 Result Part Provide State Part Provide State <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2-Methylnanhthalene</td><td>0.0000332</td><td>Ib/MMBtu</td><td>AP-42 Table 3 2-2</td><td></td><td></td><td>0.0050</td><td>0.0050</td><td>0.0220</td><td>0.0220</td></t<>									2-Methylnanhthalene	0.0000332	Ib/MMBtu	AP-42 Table 3 2-2			0.0050	0.0050	0.0220	0.0220
Representational representatinte representational representational representational r									Binhand	0.000212	Ib/MMBtu	AP.42 Table 3.2-2			0.0321	0.0321	0.1407	0.1407
Bits Result Result <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>othed hoppong</td> <td>0.0000202</td> <td>Ib/MMDbu</td> <td>AD 42 Table 3.2.2</td> <td></td> <td></td> <td>0.0060</td> <td>0.0060</td> <td>0.0264</td> <td>0.0264</td>									othed hoppong	0.0000202	Ib/MMDbu	AD 42 Table 3.2.2			0.0060	0.0060	0.0264	0.0264
Bits Properting Dispection Dispection </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>eutycbenzene</td> <td>0.0000357</td> <td>tuv PiPiblu</td> <td>AP-42 Table 3.2-2</td> <td></td> <td></td> <td>0.0000</td> <td>0.0000</td> <td>0.0204</td> <td>0.0204</td>									eutycbenzene	0.0000357	tuv PiPiblu	AP-42 Table 3.2-2			0.0000	0.0000	0.0204	0.0204
Internet Norma									styrene	0.0000236	UVPIPIBLU	AP-42 Table 3.2-2			0.0036	0.0036	0.015/	0.0157
10 Reprod 1000 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Ethylene Dibromide</td> <td>0.0000443</td> <td>lb/MMBtu</td> <td>AP-42 Table 3.2-2</td> <td></td> <td></td> <td>0.0067</td> <td>0.0067</td> <td>0.0294</td> <td>0.0294</td>									Ethylene Dibromide	0.0000443	lb/MMBtu	AP-42 Table 3.2-2			0.0067	0.0067	0.0294	0.0294
100 100 <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td> </td> <td></td> <td>1</td> <td> </td> <td>1,3-butadiene</td> <td>0.000267</td> <td>lb/MMBtu</td> <td>AP-42 Table 3.2-2</td> <td></td> <td></td> <td>0.0405</td> <td>0.0405</td> <td>0.1772</td> <td>0.1772</td>	1	1	1	1			1		1,3-butadiene	0.000267	lb/MMBtu	AP-42 Table 3.2-2			0.0405	0.0405	0.1772	0.1772
Bit of the second sec	1	1	1	1	1		1	1	toluene	0.000408	lb/MMBtu	AP-42 Table 3.2-2			0.0618	0.0618	0.2708	0.2708
Birth Proving Proving <t< td=""><td>1</td><td>1</td><td>1</td><td>1</td><td> </td><td></td><td>1</td><td> </td><td>chlorobenzene</td><td>0.0000304</td><td>lb/MMBtu</td><td>AP-42 Table 3.2-2</td><td>-</td><td></td><td>0.0046</td><td>0.0046</td><td>0.0202</td><td>0.0202</td></t<>	1	1	1	1			1		chlorobenzene	0.0000304	lb/MMBtu	AP-42 Table 3.2-2	-		0.0046	0.0046	0.0202	0.0202
Birther Result									phenol	0.000024	lb/MMBtu	AP-42 Table 3.2-2			0.0036	0.0036	0.0159	0.0159
Dispersion Partial Property Participant Partial Participant Partia Partia Participant Partial Participan									hexane	0.00111	lb/MMBtu	AP-42 Table 3.2-2			0.1682	0.1682	0.7368	0.7368
Line here Line here Line here Line here Auge A									2,2,4-Trimethylpentane	0.00025	lb/MMBtu	AP-42 Table 3.2-2			0.0379	0.0379	0.1659	0.1659
Burne Proven Proving Proven ProvenProven ProvenProven Proven ProvenProven Proven Proven Proven Prov									1,3-Dichloropropene	0.0000264	lb/MMBtu	AP-42 Table 3.2-2			0.0040	0.0040	0.0175	0.0175
Birthere Figure Process Proc									xvlenes	0.000184	Ib/MMBtu	AP-42 Table 3 2-2			0.0279	0.0279	0 1221	0.1221
Number Network Proving N									CO.	116 9773717	Ib/MMBbu	40 CER 98 subn C Table C-1 and C-2			17726 7509	17726 7509	77643 1690	77643 1690
Number Number Openant										110.5770717		40 of 100, subp. 0, func 0 1 and 0 2			11120.1000	11120.1000	11040.1000	
ND 0									CH4	0.002204624	ID/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2			0.3341	0.3341	1.4633	1.4633
Bit Bit </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>N₂O</td> <td>0.000220462</td> <td>lb/MMBtu</td> <td>40 CFR 98, subp. C, Table C-1 and C-2</td> <td></td> <td></td> <td>0.0334</td> <td>0.0334</td> <td>0.1463</td> <td>0.1463</td>									N ₂ O	0.000220462	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2			0.0334	0.0334	0.1463	0.1463
North Part Part Part Part Part Part Part Part									PM	3.19	lb/hr	Manufacturer Data			3.1900	3.1900	14.2497	14.2497*
									PM10	0.00999	lb/MMBtu	Manufacturer Data	-		3.1900	3.1900	14.2497	14.2497*
Burney Process 1 Process 1 Process 2 Image: Process 3 Process 3									PM2.5	0.00999	lb/MMBtu	Manufacturer Data			3.1900	3.1900	14.2497	14.2497*
Bits of the second									S02	0.000588	lb/MMBtu	AP-42 Table 3.2-2			0.0891	0.0891	0.3903	0.3903
Burney Process Factors Caldrife Corr Diff Diff <thdiff< th=""> <thdif< t<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>NOx</td><td>4.08</td><td>lb/MMBtu</td><td>Manufacturer Data</td><td>100.00%</td><td>99.60%</td><td>618 2832</td><td>2 4600</td><td>2708 0804</td><td>13 20*</td></thdif<></thdiff<>									NOx	4.08	lb/MMBtu	Manufacturer Data	100.00%	99.60%	618 2832	2 4600	2708 0804	13 20*
Burket Process <									VOC	0.118	lb/MMBtu	Manufacturer Data	100.00%	72 32%	17 8817	4 9500	78.3219	21.78*
Bit Pro 0.00 Durb Housdeater Data 0.0 0.00 0.000									60	0.217	Ib/MMBtu	Manufacturer Data	100.00%	90.619/	49.0292	4.0000	210.4072	22.02*
Burk Burk <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Db</td><td>0.00</td><td>lb/br</td><td>Manufacturer Data</td><td>100.00%</td><td>05.0176</td><td>0.0000</td><td>4.5500</td><td>0.0000</td><td>23.85</td></th<>									Db	0.00	lb/br	Manufacturer Data	100.00%	05.0176	0.0000	4.5500	0.0000	23.85
Reproteing iternal Process 1 Egines Berline Cathlylic Curve FPA FPA <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>PB</td> <td>0.00</td> <td>UE/nr</td> <td>Manufacturer Data</td> <td></td> <td></td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td>									PB	0.00	UE/nr	Manufacturer Data			0.0000	0.0000	0.0000	0.0000
Burney Process 1 Process 1 Engless Selection Caligner Residuation (C)C) Caligner Residuation (C)C)C) Caligner Residuation (C)C)C) Caligner Residuation (C)C)C) Caligner Residuation (C)C)C)C) Caligner									NH ₃	2.02	Lb/hr	Manufacturer Data			2.0200	2.0200	8.8476	8.8476
Burney Process 1 Engine En									Formaldehyde, CH2O	0.0528	lb/MMBtu	Manufacturer Data	100.00%	96.88%	8.0013	0.2500	35.0457	1.0950
Responsing internal Carbon Engres 4 Proces 1 Engres Engres <the< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Acetaldehyde, C2H4O</td><td>0.00836</td><td>lb/MMBtu</td><td>Manufacturer Data</td><td>100.00%</td><td>62.11%</td><td>1.2669</td><td>0.4800</td><td>5.5489</td><td>2.1024</td></the<>									Acetaldehyde, C2H4O	0.00836	lb/MMBtu	Manufacturer Data	100.00%	62.11%	1.2669	0.4800	5.5489	2.1024
Burney Process 1 Process 2 Process 2 No. Concess 2 Conces 2 Conces 2 Conces 2<									Acrolein, C3H8O	0.00514	lb/MMBtu	Manufacturer Data	100.00%	13.98%	0.7789	0.6700	3.4117	2.9346
Properties Process Figure Fi									Methanol, CH3OH	0.0025	lb/MMBtu	Manufacturer Data	100.00%	28.73%	0.3789	0.2700	1.6594	1.1826
Burner Burner Concording internal Concording int									Carbon Tetrachloride	0.0000367	lb/MMBtu	AP-42 Table 3.2-2			0.0056	0.0056	0.0244	0.0244
Burney Process 1 Fighers Selective Catalycic metaction (SOR), Condusion (SOR), Dadabon (OO) Catalyst CD 07, CD 00 Reduction (SOR), Dadabon (OO) Catalyst CD 07, CD 00 Reduction (SOR), Dadabon (OO) Catalyst FP 04									chloroform	0.0000285	lb/MMBtu	AP-42 Table 3.2-2			0.0043	0.0043	0.0189	0.0189
Burney Process 1 Eights Selection Caligney C 00000 C 000000 C 0000000 C 00000000 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>benzene</td> <td>0.00044</td> <td>Ib/MMBtu</td> <td>AP-42 Table 3 2-2</td> <td></td> <td></td> <td>0.0667</td> <td>0.0667</td> <td>0.2920</td> <td>0.2920</td>									benzene	0.00044	Ib/MMBtu	AP-42 Table 3 2-2			0.0667	0.0667	0.2920	0.2920
Build Process I Reduction (SCR), Conduction Figure 44 Process I Engines Selective Catalytic Reduction (SCR), Outsition (CO) Catalyst C 07, CD 00 EP 04 ISSA MMEUT ISSA MMEUT AP-42 Table 3-2.2 - - 0.0003 0.0003 0.0013 0.0033 0.0013 0.0033 0.0013 0.0033 0.0013 0.0033 0.0014 0.0015 0.0015 0.0021 0.0116 0.0016 0.0029 0.0021 0.0116 0.0016 0.0029 0.0221 0.0116 0.0016 0.0214 0.0214 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 0.0116 </td <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td> </td> <td></td> <td>1</td> <td> </td> <td>vinvt chloride</td> <td>0.0000149</td> <td>Lb/MMBtu</td> <td>AP-42 Table 3.2-2</td> <td></td> <td></td> <td>0.0023</td> <td>0.0023</td> <td>0.0099</td> <td>0.0099</td>	1	1	1	1			1		vinvt chloride	0.0000149	Lb/MMBtu	AP-42 Table 3.2-2			0.0023	0.0023	0.0099	0.0099
Bit Distribution Beschwarzubg internal Combustion Eigner A Process 1 Fighers Beschwarzubg internal Response (CO) Cataliyit Der CD (CD) BP A Fighers Beschwarzubg internal Combustion (CO) Cataliyit Der CD (CD) BP A Fighers Beschwarzubg internal Combustion (CO) Cataliyit Der CD (CD) BP A Fighers Combustion (CD) Combu	1	1	1	1	1		1	1	dichloromethane	0.00002	Ib/MMBt+	AP. 42 Table 3 2.2			0.0030	0.0030	0.0133	0.0133
EU64 Process of Engines Reduction (EOR), Outdation (EOR), Outdatio (EOR), Outdation (EOR), Outdation (EOR), Outdation (1	Posisrooting Interact	1	1	Selective Catalytic		1		1.1.2.Trichlomethane	0.00002	Ib/MMBt+	AP-42 Table 3.2-2 AD.42 Table 3.2-2			0.0030	0.0048	0.0133	0.0133
Build of CO (Cablyst Diddation (CO) Cablyst Diddation (CO) Cablyst<	EU 04	Combustion Engine 14	Process 1	Engines	Reduction (SCR),	CD 07, CD 08	EP 04	151.54 MMBtu/hr	1.1.2.2 Totrachlorooth	0.0000318	Ib/MMDt -	AP 42 Table 3.2.2			0.0040	0.0040	0.0211	0.0211
Burgen Burgen Production No. 5 mm Production 0.000104 UP/Medity Adv-41166.3.2.2 - - 0.0016 0.0016 0.0048 0.0044 2 Montpondential 0.000000 UP/Medity Adv-21166.3.2 - - 0.0016 0.0016 0.0044 0.0044 2 Montpondential 0.000000 UP/Medity Adv-21166.3.2 - - 0.0056 0.0000 0.0024 0.0044 2 Montpondential 0.000000 UP/Medity Adv-21166.3.2 - - 0.0056 0.0000 0.0024 0.0044 12 Montpondential 0.000000 UP/Medity Adv-21166.3.2 - - 0.0056 0.0000 0.0024 0.0046 <t< td=""><td>1</td><td>Compustion Engine #4</td><td>1</td><td>1</td><td>Oxidation (CO) Catalyst</td><td></td><td>1</td><td> </td><td>1,1,2,2-letrachtoroethane</td><td>0.00004</td><td>ID/MMBtu</td><td>AP-42 Table 3.2-2</td><td>-</td><td>-</td><td>0.0061</td><td>0.0061</td><td>0.0265</td><td>0.0265</td></t<>	1	Compustion Engine #4	1	1	Oxidation (CO) Catalyst		1		1,1,2,2-letrachtoroethane	0.00004	ID/MMBtu	AP-42 Table 3.2-2	-	-	0.0061	0.0061	0.0265	0.0265
Burght Barber Proces2 Mark Sources FP of PM OD0074 UMMRIN Ad-20 Table 3.2.2 - - - 0.0113 0.0148 0.0048 0.0021 Barberdy 0.00021 UDMRIN Ad-20 Table 3.2.2 - - 0.0013 0.0013 0.0014 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0014 0.0021 1.00148 0.0221 1.00148 0.0221 - - 0.0023 0.0013 0.0014 0.0024 1.00148 0.0221 - - 0.0023 0.0014	1	1	1	1	,	1	1	1	roenanunrene	0.0000104	UV MMBTU	AP-42 18018 3:2-2	-	-	0.0016	0.0016	0.0069	0.0069
Burker Process Process <th< td=""><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td></td><td>1</td><td>1</td><td>napnthälene</td><td>0.0000744</td><td>ID/MMBtu</td><td>AP-42 Table 3.2-2</td><td>•</td><td></td><td>0.0113</td><td>0.0113</td><td>0.0494</td><td>0.0494</td></th<>	1	1	1	1	1		1	1	napnthälene	0.0000744	ID/MMBtu	AP-42 Table 3.2-2	•		0.0113	0.0113	0.0494	0.0494
Bigherný 0.00021 UVMBID AA-2 Table 3.2 - - 0.021 0.021 0.024 0.024 0.021	1	1	1	1			1		2-Methylnaphthalene	0.0000332	lb/MMBtu	AP-42 Table 3.2-2			0.0050	0.0050	0.0220	0.0220
End Dem Point Healer Process	1	1	1	1			1		Biphenyl	0.000212	lb/MMBtu	AP-42 Table 3.2-2			0.0321	0.0321	0.1407	0.1407
Number Numbr	1	1	1	1	1	1	1	1	ethyl benzene	0.0000397	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0060	0.0060	0.0264	0.0264
Burger Process	1	1	1	1	1		1	1	styrene	0.0000236	lb/MMBtu	AP-42 Table 3.2-2			0.0036	0.0036	0.0157	0.0157
Base base base base base base base base b	1	1	1	1			1		Ethylene Dibromide	0.0000443	lb/MMBtu	AP-42 Table 3.2-2	-		0.0067	0.0067	0.0294	0.0294
Burney Process Process Mar. Sources - <t< td=""><td>1</td><td>1</td><td>1</td><td>1</td><td> </td><td></td><td>1</td><td> </td><td>1,3-butadiene</td><td>0.000267</td><td>lb/MMBtu</td><td>AP-42 Table 3.2-2</td><td></td><td></td><td>0.0405</td><td>0.0405</td><td>0.1772</td><td>0.1772</td></t<>	1	1	1	1			1		1,3-butadiene	0.000267	lb/MMBtu	AP-42 Table 3.2-2			0.0405	0.0405	0.1772	0.1772
End participant Process	1	1	1	1			1		toluene	0.000408	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0618	0.0618	0.2708	0.2708
Bernolis Occupant Process Marce Sources - ODDS ODDS <td>1</td> <td></td> <td>1</td> <td>1</td> <td> </td> <td></td> <td>1</td> <td> </td> <td>chlorobenzene</td> <td>0.0000304</td> <td>lb/MMBtu</td> <td>AP-42 Table 3.2-2</td> <td></td> <td></td> <td>0.0046</td> <td>0.0046</td> <td>0.0202</td> <td>0.0202</td>	1		1	1			1		chlorobenzene	0.0000304	lb/MMBtu	AP-42 Table 3.2-2			0.0046	0.0046	0.0202	0.0202
Bacade 0.0011 UNMBID AP-02 Table 3.2.2 - 0.0162 0.0169 0.0159 0.0169 0.0159 0.0169 2.2 ATmenthympetane 0.0007 UMMBID AP-02 Table 3.2.2 - - 0.0007 0.0007 0.0599 0.0589 0.1589 2.2 ATmenthympetane 0.0007 UMMBID AP-02 Table 3.2.2 - - 0.0007 0.0207 0.0279 0.0279 0.0279 0.0279 0.0279 0.0279 0.0279 0.0215 0.0169 1.27 0.004 0.0175 0.0176 0.0175 0.0176 0.0175 0.0279 0.0217 0.0217 0.0217 0.0217 0.0217 0.0217 0.0217 0.0217 0.0217 0.0217 0.0217 0.021 1.481 1.433 1.433 1.433 1.433 1.443 1.433 1.443 1.443 1.443 1.443 1.443 1.443 1.443 1.443 1.443 1.443 1.443 1.443 1.443 1.443 1.443 1.443 1.4433 </td <td>1</td> <td></td> <td rowspan="2"></td> <td>1</td> <td>1</td> <td></td> <td>1</td> <td> </td> <td>phenol</td> <td>0.000024</td> <td>lb/MMBtu</td> <td>AP-42 Table 3.2-2</td> <td></td> <td></td> <td>0.0036</td> <td>0.0036</td> <td>0.0159</td> <td>0.0159</td>	1			1	1		1		phenol	0.000024	lb/MMBtu	AP-42 Table 3.2-2			0.0036	0.0036	0.0159	0.0159
EUG Dem Point Heater Proces2 Max. Sources	1							1	hexane	0.00111	(b/MMRtu	AP-42 Table 3 2-2			0.1682	0.1682	0.7368	0.7368
EUG DeePointHeater Process2 Mic. Sources - Deep for Heater Process2 Mic. Sources - Deep for Heater - Desp for Heater Desp for Heater <thdesp for="" heater<="" th=""> <thdesp< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.00111</td><td>101101010</td><td>ALL THE HUDIL OLE &</td><td></td><td></td><td>0.0379</td><td>0.0379</td><td>0.1659</td><td>0.1659</td></thdesp<></thdesp>										0.00111	101101010	ALL THE HUDIL OLE &			0.0379	0.0379	0.1659	0.1659
Build in the start Process 2 Mac. Sources -									2.2.4-Trimethylpentane	0.00025	Ib/MMBt+	AP-42 Table 3 2-2	-		N.N.N.I.V		100.00	V. 1 V. V
Europe Process 2 Mic. Sources - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2,2,4-Trimethylpentane</td> <td>0.00025</td> <td>Ib/MMBtu</td> <td>AP-42 Table 3.2-2 AP-42 Table 3.2-2</td> <td></td> <td></td> <td>0.0040</td> <td>0.0040</td> <td>0.0175</td> <td>0.0175</td>									2,2,4-Trimethylpentane	0.00025	Ib/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2			0.0040	0.0040	0.0175	0.0175
EUG 116.977217 10.9988 40.0788 up.0 116.977217 10.9988 up.0 1728.1799									2,2,4-Trimethylpentane 1,3-Dichloropropene	0.00025	lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2	-	-	0.0040	0.0040	0.0175	0.0175
Philo CH, H-0 0.0022/0624 UMPMBu 40CFR8, sub_C, Tabe C-1 and C-2 - - 0.314 0.134 1.433 1.443 H-0 0.002764024 UMPMBu 40CFR8, sub_C, Tabe C-1 and C-2 - - 0.0314 0.1341 1.433 1.4433 1.									2,2,4-Trimethylpentane 1,3-Dichloropropene xylenes	0.00025 0.0000264 0.000184	Ib/MMBtu Ib/MMBtu Ib/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2	-	-	0.0040	0.0040	0.0175	0.0175
Image: Process 2 Process 2 Mac. Sources - PP Process 2 PP PP <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2,2,4-Trimethylpentane 1,3-Dichloropropene xylenes CO₂</td> <td>0.00025 0.0000264 0.000184 116.9773717</td> <td>Ib/MMBtu Ib/MMBtu Ib/MMBtu Ib/MMBtu</td> <td>AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 40 CFR 98, subp. C, Table C-1 and C-2</td> <td></td> <td>-</td> <td>0.0040 0.0279 17726.7509</td> <td>0.0040 0.0279 17726.7509</td> <td>0.0175 0.1221 77643.1690</td> <td>0.0175 0.1221 77643.1690</td>									2,2,4-Trimethylpentane 1,3-Dichloropropene xylenes CO ₂	0.00025 0.0000264 0.000184 116.9773717	Ib/MMBtu Ib/MMBtu Ib/MMBtu Ib/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 40 CFR 98, subp. C, Table C-1 and C-2		-	0.0040 0.0279 17726.7509	0.0040 0.0279 17726.7509	0.0175 0.1221 77643.1690	0.0175 0.1221 77643.1690
EU Dem Point Heater Process 2 Mic. Sources - EP 6 PM 0.0024508 UVMMEDID AP-421.4 - - 0.0075 0.00076 0.00075 0.00076 0.00075 0.00075 0.00076 0.00076 0.00076 0.00076 0.00076 0.00076 0.00076 0.00076 0.00076 0.00076 0.00076 0.00076 0.00076 0.00076 0.00076 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2,2,4-Trimethylpentane 1,3-Dichloropropene xylenes CO₂ CH₄</td> <td>0.00025 0.0000264 0.000184 116.9773717 0.002204624</td> <td>Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu</td> <td>AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 40 CFR 98, subp. C, Table C-1 and C-2 40 CFR 98, subp. C, Table C-1 and C-2</td> <td></td> <td>-</td> <td>0.0040 0.0279 17726.7509 0.3341</td> <td>0.0040 0.0279 17726.7509 0.3341</td> <td>0.0175 0.1221 77643.1690 1.4633</td> <td>0.0175 0.1221 77643.1690 1.4633</td>									2,2,4-Trimethylpentane 1,3-Dichloropropene xylenes CO ₂ CH ₄	0.00025 0.0000264 0.000184 116.9773717 0.002204624	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 40 CFR 98, subp. C, Table C-1 and C-2 40 CFR 98, subp. C, Table C-1 and C-2		-	0.0040 0.0279 17726.7509 0.3341	0.0040 0.0279 17726.7509 0.3341	0.0175 0.1221 77643.1690 1.4633	0.0175 0.1221 77643.1690 1.4633
EU 05 Dem Point Healter Process 2 Mac. Sources -									2,2,4-Trimethylpentane 1,3-Dichloropropene xylenes CO ₂ CH ₄ N ₂ O	0.00025 0.0000264 0.000184 116.9773717 0.002204624 0.000220462	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 40 CFR 98, subp. C, Table C-1 and C-2 40 CFR 98, subp. C, Table C-1 and C-2 40 CFR 98, subp. C, Table C-1 and C-2		•	0.0040 0.0279 17726.7509 0.3341 0.0334	0.0040 0.0279 17726.7509 0.3341 0.0334	0.0175 0.1221 77643.1690 1.4633 0.1463	0.0175 0.1221 77643.1690 1.4633 0.1463
EUG Dem Point Healer Process 2 Mac. Sources -									2,2,4-Trimethylpentane 1,3-Dichloropropene Xylenes CO ₂ CH ₄ N ₂ O PM	0.00025 0.0000264 0.000184 116.9773717 0.002204624 0.000220462 0.00745099	Ib/MMBtu Ib/MMBtu Ib/MMBtu Ib/MMBtu Ib/MMBtu Ib/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 40 CFR 98, subp. C, Table C-1 and C-2 40 CFR 98, subp. C, Table C-1 and C-2 40 CFR 98, subp. C, Table C-1 and C-2 AD CFR 98, subp. C, Table C-1 and C-2			0.0040 0.0279 17726.7509 0.3341 0.0334 0.0075	0.0040 0.0279 17726.7509 0.3341 0.0334 0.0075	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326
EU 05 Dew Point Heater Process 2 Max. Sources -									2,2,4-Trimethylpentane 1,3-Dichloropropene xylenes CO ₂ CH ₄ N ₂ O PM PM PM1	0.00025 0.0000264 0.000184 116.9773717 0.002204624 0.000220462 0.00745098 0.00745098	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 40 CFR 66, subp. C, Table C-1 and C-2 40 CFR 86, subp. C, Table C-1 and C-2 40 CFR 86, subp. C, Table C-1 and C-2 AC CFR 66, subp. C, Table C-1 and C-2 AP-42 1.4 AP-42 1.4	•	-	0.0040 0.0279 17726.7509 0.3341 0.0334 0.0075 0.0075	0.0040 0.0279 17726.7509 0.3341 0.0334 0.0075 0.0075	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326
EU Dew Point Heater Process 2 Mac. Sources - - - - - 0.008 0.0008									2,2,4-Trimethylpentane 1,3-Dichloropropene Xylenes CO ₂ CH ₄ N ₂ O PM PM10 PM10 DM25	0.00025 0.0000264 0.000184 116.9773717 0.002204624 0.000220462 0.00745098 0.00745098	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 40 CFR 86, subp. C, Table C-1 and C-2 40 CFR 86, subp. C, Table C-1 and C-2 40 CFR 86, subp. C, Table C-1 and C-2 AP-42 1.4 AP-42 1.4	-	•	0.0040 0.0279 17726.7509 0.3341 0.0334 0.0075 0.0075	0.0040 0.0279 17726.7509 0.3341 0.0334 0.0075 0.0075	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326 0.0326	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326 0.0326
EU 05 Dew Point Heater Process 2 Mac. Sources - - Dem Point Member AP-421.4 - - - Dobies Decision Dem Point Member AP-421.4 - - - Dobies Decision Dem Point Member AP-421.4 - - Dobies Decision Decision <thdecision< th=""> Decision <thdecision< th=""></thdecision<></thdecision<>									2,2.4-Trimethylpentane 1,3-Dichloropropene yylenes CO2 CH4 N2 PM PM PM10 PM2 5 PC2	0.00025 0.0000264 0.000184 116.9773717 0.002204624 0.000220462 0.00745098 0.00745098 0.00745098	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	AP-42 Table 3.2.2 AP-42 Table 3.2.2 AP-42 Table 3.2.2 40 CFR 86, subp. C, Table C-1 and C-2 40 CFR 86, subp. C, Table C-1 and C-2 40 CFR 86, subp. C, Table C-1 and C-2 AP-42.1.4 AP-42.1.4 AP-42.1.4 AP-42.1.4	-	-	0.0040 0.0279 17726.7509 0.3341 0.0334 0.0075 0.0075 0.0075	0.0040 0.0279 17726.7509 0.3341 0.0334 0.0075 0.0075 0.0075	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326 0.0326 0.0326	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326 0.0326 0.0326
Lew Volt Vertrom reset Process /									2.2.4-Trimethylpentane 1.3-Dichloropropene Xylenes CO ₂ CH ₄ N ₂ O PM PM10 PM10 PM2.5 SO2 V/	0.00025 0.0000264 0.000184 116.9773717 0.002204624 0.000220462 0.00745098 0.00745098 0.00745098 0.00745098	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	AP-42 Table 3-2.2 AP-42 Table 3-2.2 AP-42 Table 3-2.2 40 CFR 68, subp. C. Table C-1 and C-2 40 CFR 68, subp. C. Table C-1 and C-2 40 CFR 68, subp. C. Table C-1 and C-2 AP-42 1.4 AP-42 1.4 AP-42 1.4 AP-42 1.4 AP-42 1.4	-	-	0.0040 0.0279 17726.7509 0.3341 0.0334 0.0075 0.0075 0.0075 0.0075 0.0006	0.0040 0.0279 17726.7509 0.3341 0.0334 0.0075 0.0075 0.0075 0.0075 0.0075	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326 0.0326 0.0326 0.0326 0.0326 0.0326	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326 0.0326 0.0326 0.0326 0.0326 0.0326
CO 0.024 0.0098 ΔP-421.4 - - 0.024 0.0309 0.3090	FUIA	DestBolist Monte-	Brower 2	Mice Source				1 MMBnutr-	2.2.4.Trimethylpentane 1.3-Dichloropropene Xylenes CO ₂ CO ₄ N ₂ O PM PM10 PM2.5 SO2 NOX	0.00025 0.0000264 0.000184 116.9773717 0.002204624 0.00720462 0.00745098 0.00745098 0.00745098 0.00745098	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	AP-42 Table 3-22 AP-42 Table 3-22 AP-42 Table 3-22 AP-42 Table 3-22 40 CFR 86, usbp. C, Table C-1 and C-2 40 CFR 86, usbp. C, Table C-1 and C-2 40 CFR 86, usbp. C, Table C-1 and C-2 AP-42 1.4 AP-42 1.4 AP-42 1.4 AP-42 1.4 AP-42 1.4	•		0.0040 0.0279 17726.7509 0.3341 0.0334 0.0075 0.0075 0.0075 0.0006 0.0980	0.0040 0.0279 17726.7509 0.3341 0.0334 0.0075 0.0075 0.0075 0.0006 0.0980	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326 0.0326 0.0326 0.0326 0.0026 0.0028	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326 0.0326 0.0326 0.0326 0.0326 0.0026 0.4292
Pb 0 tb/MMBtu AP-421.4 0.0000 0.0000 0.0000 0.0000	EU 05	Dew Point Heater	Process 2	Misc. Sources	-		EP 05	1 MMBtw/hr	2,2,4-Trimethylpentane 1,3-Dichloropropene Xylenes CO ₂ CH ₄ N ₂ O PM PM10 PM10 PM2.5 SO2 NOx VOC	0.00025 0.000264 0.000184 118.9773717 0.002204624 0.00745098 0.00745098 0.00745098 0.00745098 0.00745098 0.000588235 0.098	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	AP-Q Table 3-2.2 AP-Q Table 3-2.2 AP-Q Table 3-2.2 AP-Q Table 3-2.2 AP Q Table 3-2.2 AP Q Table 3-2.2 AP Q Table 3-2.2 AP Q Table 3-2.1 AP Q Table 3-2.2 AP Q T	-	-	0.0040 0.0279 17726.7509 0.3341 0.0334 0.0075 0.0075 0.0075 0.0006 0.0980 0.0980	0.0040 0.0279 17726.7509 0.3341 0.0334 0.0075 0.0075 0.0075 0.0006 0.0980 0.0054	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326 0.0326 0.0326 0.0326 0.0326 0.0326 0.0026 0.4292 0.0238	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326 0.0326 0.0326 0.0326 0.0326 0.0326 0.0326 0.0326 0.0236
	EU 05	Dee Point Heater	Process 2	Misc. Sources			EP 05	1 MMBtw/hr	2.2.4.Timethylpentane 1.3.Dichlorogropene sylenes CO, CH, NJO PM PM PM PM0 PM2.5 SO2 NOX VOC CO	0.00025 0.0000264 0.000184 116.9773717 0.002204624 0.000220462 0.00745088 0.00745088 0.00745088 0.00745088 0.00588235 0.098 0.005892157 0.0824	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	AP-42 Table 3.2.2 AP-42 Table 3.2.2 AP-42 Table 3.2.2 40 CFR88, studp. C Table C 1 and C.2 40 CFR88, studp. C Table C 1 and C.2 40 CFR88, studp. C Table C 1 and C.2 AP-421.4 AP-421.4 AP-421.4 AP-421.4 AP-421.4 AP-421.4 AP-421.4 AP-421.4 AP-421.4	•		0.0040 0.0279 17726.7509 0.3341 0.0334 0.0075 0.0075 0.0075 0.0075 0.0075 0.0006 0.0980 0.0054 0.0824	0.0040 0.0279 17726.7509 0.3341 0.0034 0.0075 0.0075 0.0075 0.0075 0.0006 0.0980 0.0054 0.0824	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326 0.0326 0.0326 0.0028 0.0028 0.028 0.028 0.028 0.0236 0.0236	0.0175 0.1221 77643.1690 1.4633 0.1463 0.0326 0.0326 0.0326 0.0326 0.0026 0.0226 0.0226 0.0226 0.0236 0.3609

Section N.2: Stack Information

UTM Zone:

	Identify all Emission Units (with	Stack Physical Data							
Stack ID	Process ID) and Control Devices that Feed to Stack	Equivalent Diameter (ft)	Height (ft)	Base Elevation					
EP 01	EU 01, CD 01, CD 02	5.405	100	408					
EP 02	EU 02, CD 03, CD 04	5.405	100	408					
EP 03	EU 03, CD 05, CD 06	5.405	100	408					
EP 04	EU 04, CD 07, CD 08	5.405	100	408					
EP 05	EU 05	0.5*	10	408					
		*estimated, dat	a not yet avail	able					

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		-		
Stack UTM	Coordinates	Stack Gas Stream Data		
Northing (m)	Easting (m)	Flowrate (acfm)	Temperature (°F)	Exit Velocity (ft/sec)
4,130,572	451,158	68745	644	49.94
4,130,572	451,175	68745	644	49.94
4,130,572	451,191	68745	644	49.94
4,130,572	451,204	68745	644	49.94
4,130,514	451,239	500*	500*	40*

Section N.3: Fugitive Information

UTM Zone:

			Area Phy
Emission Unit #	Emission Unit Name	Process ID	Length of the X Side (fi)
6	l		

sical Data	Area UTM (Coordinates	Area Release Data				
Length of the Y Side (ft)	Northing (m)	Easting (m)	Release Temperature (°F)	Release Height			

Section N.4: Note	s, Comments,	and Explanations
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			Division f	or Air Quality]		DEP7007N			ľ		Additi	onal Do	cumentat	ion		
			300 Sower Bo Frankfort KY	oulevard 7 40601			Source Emissi	ons Profile				<u>_X</u> Co	omplete DE	P7007AI			
			(502) 564-399	99			X Section N.1: En X Section N.2: Sta X Section N.3: Fu Section N.4: Note	ission Summary ick Information gitive Information s, Comments, and Explanati	ons			<u> </u>					
	Source Name:	Kentucky Mu	unicipal Energy A	gency (KYMEA) Energy Cen	ter I												
	KY EIS (AFS) #:	New Source															
	Permit #:	New Source															
	Agency Interest (AI) ID: Data:	New Source												-	-		
	Date.	10/23/2024															
N.1: Emi	ission Summary																
Emission	Emission Unit Name	Process ID	Process Name	Control Device Name	Control Device ID	Stack ID	Maximum Design	Pollutant	Uncontrolled	Uncontrolled	Emission Factor Source (e.g. AP-42, Stack Test,	Capture	Control	Hourly H	imissions	Annual F	Emissions
Unit #							(SCC Units/hour)		Emission Factor	Units	Mass Balance)	<i>(%</i>	<i>09</i>	Potential (lb/hr)	Potential (lb/hr)	Potential (tons/yr)	Potential (tons/yr)
								PM	3.32	lb/hr	Mass Balance			3.3200	3.3200	14.5416	14.5416
								PM10	0.00999	lb/MMBtu	AP-42 Table 3.2-2	-	-	1.5139	1.5139	6.6308	6.6308
								PM2.5 SO2	0.00999	Ib/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2		-	1.5139	1.5139	0.3003	0.3903
								NOx	4.08	lb/MMBtu	AP-42 Table 3.2-2	100.00%	99.60%	618 2832	2 4891	2708 0804	10 9021
								VOC	0.118	lb/MMBtu	AP-42 Table 3.2-2	100.00%	72.16%	17.8817	4.9781	78.3219	21.8042
								CO	0.317	lb/MMBtu	AP-42 Table 3.2-2	100.00%	89.64%	48.0382	4.9781	210.4072	21.8042
								Pb	0.00	lb/hr	Mass Balance	-	-	0.0000	0.0000	0.0000	0.0000
								NH ₃	3.18	lb/hr	Mass Balance	-	-	3.1848	3.1848	13.9493	13.9493
								Acetaldehyde, CH2O	0.0528	lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2	100.00%	96.88% 58.16%	1 2669	0.2500	35.0457 5.5489	2 3214
								Acrolein, C3H8O	0.00514	lb/MMBtu	AP-42 Table 3.2-2	100.00%	7.56%	0.7789	0.7200	3.4117	3,1536
								Methanol, CH3OH	0.0025	lb/MMBtu	AP-42 Table 3.2-2	100.00%	28.73%	0.3789	0.2700	1.6594	1.1826
								Carbon Tetrachloride	0.0000367	lb/MMBtu	AP-42 Table 3.2-2		-	0.0056	0.0056	0.0244	0.0244
								chloroform	0.0000285	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0043	0.0043	0.0189	0.0189
								penzene vinvl chloride	0.00044	lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2		-	0.0003	0.00023	0.2920	0.2920
								dichloromethane	0.00002	lb/MMBtu	AP-42 Table 3.2-2			0.0020	0.0020	0.0133	0.0133
511.04	Reciprocating Internal	Deserves 4	Farlans	Selective Catalytic		50.04	454 54 14000	1,1,2-Trichloroethane	0.0000318	lb/MMBtu	AP-42 Table 3.2-2	-		0.0048	0.0048	0.0211	0.0211
EUUI	Combustion Engine #1	Process 1	Engines	Reduction (SCR), Ovidation (CO) Catalyst	CD 01, CD 02	EP 01	151.54 MMBlu/III	1,1,2,2-Tetrachloroethane	0.00004	lb/MMBtu	AP-42 Table 3.2-2		-	0.0061	0.0061	0.0265	0.0265
				Oxidation (CO) Catatyst				Phenanthrene	0.0000104	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0016	0.0016	0.0069	0.0069
								2-Methylnanhthalene	0.0000744	Ib/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2			0.0050	0.0050	0.0494	0.0494
								Biphenyl	0.000212	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0321	0.0321	0.1407	0.1407
								ethyl benzene	0.0000397	lb/MMBtu	AP-42 Table 3.2-2			0.0060	0.0060	0.0264	0.0264
								styrene	0.0000236	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0036	0.0036	0.0157	0.0157
								Ethylene Dibromide	0.0000443	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0067	0.0067	0.0294	0.0294
								1,3-butadiene toluene	0.000267	Ib/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2			0.0405	0.0405	0.1772	0.1772
								chlorobenzene	0.0000304	lb/MMBtu	AP-42 Table 3.2-2		-	0.0046	0.0046	0.0202	0.0202
				1				phenol	0.000024	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0036	0.0036	0.0159	0.0159
1								hexane	0.00111	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.1682	0.1682	0.7368	0.7368
								2,2,4-Irimethylpentane	0.00025	ID/MMBtu	AP-42 Table 3.2-2			0.03/9	0.0040	0.0175	0.0175
1								xvlenes	0.000184	lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2	-	-	0.0040	0.0040	0.0173	0.1221
								CO ₂	116.9773717	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2	-	-	17726.7509	17726.7509	77643.1690	77643.1690
				1				CH ₄	0.002204624	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2	-	-	0.3341	0.3341	1.4633	1.4633
								N ₂ O	0.000220462	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2	-		0.0334	0.0334	0.1463	0.1463

								PM	3.32	lb/hr	Mass Balance		-	3.3200	3.3200	14.5416	14.5416
								PM10	0.00999	lb/MMBtu	AP-42 Table 3.2-2	-		1.5139	1.5139	6.6308	6.6308
								PM2 5	0 00999	Ib/MMBtu	AP-42 Table 3 2-2			1 5139	1 5139	6.6308	6 6308
								000	0.000500	IL /MADE				0.0004	0.0004	0.0000	0.0000
								S02	0.000588	ID/MMBtu	AP-42 Table 3.2-2			0.0891	0.0891	0.3903	0.3903
								NOx	4.08	lb/MMBtu	AP-42 Table 3.2-2	100.00%	99.60%	618.2832	2.4891	2708.0804	10.9021
								VOC	0.118	lb/MMBtu	AP-42 Table 3.2-2	100.00%	72 16%	17 8817	4 9781	78 3219	21.8042
								<u>co</u>	0.217	Ib/MMBtu	AP. 42 Table 2 2-2	100 00%	90 6 4 94	48.0382	/ 0781	210.4072	21.80//2
								00	0.00	lle de a	Mars Delegas	100.0070	00.0470	0.0000	0.0000	0.0000	0.0000
								PD	0.00	ub/nr	Mass Batance		-	0.0000	0.0000	0.0000	0.0000
								NH ₃	3.18	lb/hr	Mass Balance	-	-	3.1848	3.1848	13.9493	13.9493
								Formaldehvde, CH2O	0.0528	lb/MMBtu	AP-42 Table 3.2-2	100.00%	96.88%	8.0013	0.2500	35.0457	1.0950
								Acetaldehyde C2H4O	0.00836	lb/MMBtu	AP-42 Table 3 2-2	100.00%	58 16%	1 2660	0.5300	5 5489	2 3214
								A LL COURCE	0.00000	0.000		100.00%	30.10%	0.22003	0.3300	0.4447	2.0214
								Acrolein, C3H8O	0.00514	ID/MMBtu	AP-42 Table 3.2-2	100.00%	7.56%	0.7789	0.7200	3.4117	3.1536
								Methanol, CH3OH	0.0025	lb/MMBtu	AP-42 Table 3.2-2	100.00%	28.73%	0.3789	0.2700	1.6594	1.1826
								Carbon Tetrachloride	0.0000367	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0056	0.0056	0.0244	0.0244
								chloroform	0.0000285	lb/MMBtu	AP-42 Table 3.2-2			0.0043	0.0043	0.0189	0.0189
								benzene	0.00044	Ib/MMRtu	AP-42 Table 2.2-2			0.0667	0.0667	0.2020	0.2020
								Delizene	0.00044	tb/hihibtu	AI -42 Table 3.2-2	-	-	0.0007	0.0007	0.2320	0.2320
								vinyi chioride	0.0000149	ID/MMBLU	AP-42 Table 3.2-2		-	0.0023	0.0023	0.0099	0.0099
				Colorative Control ale				dichloromethane	0.00002	lb/MMBtu	AP-42 Table 3.2-2	-		0.0030	0.0030	0.0133	0.0133
	Reciprocating Internal			Selective Catalytic				1,1,2-Trichloroethane	0.0000318	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0048	0.0048	0.0211	0.0211
EU 02	Combustion Engine #2	Process 1	Engines	Reduction (SCR),	CD 03, CD 04	EP 02	151.54 MMBtu/nr	1.1.2.2-Tetrachloroethane	0.00004	lb/MMBtu	AP-42 Table 3.2-2			0.0061	0.0061	0.0265	0.0265
	Combustion Engine #2			Oxidation (CO) Catalyst				Phononthrono	0.0000104	lb/MMPtu	AD 42 Table 3.2.2			0.00016	0.0001	0.0060	0.0060
								Filenanunene	0.0000104	LU/IHHHBLU	AF-42 Table 3.2-2			0.0010	0.0010	0.0009	0.0009
								naphthalene	0.0000744	lb/MMBtu	AP-42 Table 3.2-2		-	0.0113	0.0113	0.0494	0.0494
								2-Methylnaphthalene	0.0000332	lb/MMBtu	AP-42 Table 3.2-2		-	0.0050	0.0050	0.0220	0.0220
								Biphenyl	0.000212	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0321	0.0321	0.1407	0.1407
								ethyl benzene	0.0000397	lb/MMBtu	AP-42 Table 3.2-2			0.0060	0.0060	0.0264	0.0264
		1					1	etirana	0.0000226	Ib/MMBtu	AP. 42 Table 2.2.2			0.0036	0.0036	0.0157	0.0157
								styrelle	0.0000238	LU/IHHHBLU	AF-42 Table 3.2-2			0.0030	0.0030	0.0137	0.0137
								Ethylene Dibromide	0.0000443	ID/MMBLU	AP-42 Table 3.2-2	-		0.0007	0.0007	0.0294	0.0294
								1,3-butadiene	0.000267	lb/MMBtu	AP-42 Table 3.2-2	-		0.0405	0.0405	0.1772	0.1772
								toluene	0.000408	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0618	0.0618	0.2708	0.2708
								chlorobenzene	0.0000304	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0046	0.0046	0.0202	0.0202
								phenol	0.000024	lb/MMBtu	AP-42 Table 3.2-2			0.0036	0.0036	0.0159	0.0159
								herane	0.00111	Ib/MMRtu	AP. 42 Table 2 2-2			0.1682	0.1682	0.7368	0.7368
								2.2.4 Trimothylapatona	0.000111	lb/MMDtu	AD 42 Table 3.2-2	-		0.002	0.1002	0.1000	0.1000
1								z,z,4-mineurytpentane	0.00023	LU/I*II*IBLU	AF-42 Table 3.2-2	•		0.0379	0.0379	0.1059	0.1659
1								1,3-Dichloropropene	0.0000264	lb/MMBtu	AP-42 Table 3.2-2			0.0040	0.0040	0.01/5	0.01/5
1								xylenes	0.000184	lb/MMBtu	AP-42 Table 3.2-2			0.0279	0.0279	0.1221	0.1221
								CO ₂	116.9773717	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2	-		17726.7509	17726.7509	77643.1690	77643.1690
								CH	0.002204624	lb/MMBtu	40 CER 98, subp. C. Table C-1 and C-2		-	0.3341	0.3341	1 4633	1 4633
								NO	0.000220462	Ib/MMRtu	40 CER 08 outpa C Table C 1 and C 2			0.0224	0.0224	0.1460	0.1402
								1120	0.000220402	torrinota	40 CI 1130, 300p. C, Table C-1 and C-2	•		0.0334	0.0334	0.1403	0.1403
								DM	2 22	lb/hr	Maga Balanga			2 2 2 2 0 0	3 3200	14.5416	14.5416
								FIN	3.32	as m	MdSS bdtdllCe	-	-	3.3200	0.0200		
								PM10	0.00999	lb/MMBtu	AP-42 Table 3.2-2		-	1.5139	1.5139	6.6308	6.6308
								PM10 PM2.5	0.00999	lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2	-	-	1.5139	1.5139	6.6308 6.6308	6.6308 6.6308
								PM10 PM2.5 SO2	0.00999 0.00999 0.000588	lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2	-	-	1.5139 1.5139 0.0891	1.5139 1.5139 0.0891	6.6308 6.6308 0.3903	6.6308 6.6308 0.3903
								PM10 PM2.5 SO2	0.00999 0.00999 0.000588 4.08	lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2	- - - 100.00%	-	1.5139 1.5139 0.0891 618.2832	1.5139 1.5139 0.0891 2.4891	6.6308 6.6308 0.3903 2708.0804	6.6308 6.6308 0.3903 10.9021
								PM10 PM2.5 SO2 NOX	0.00999 0.00999 0.000588 4.08	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2			1.5139 1.5139 0.0891 618.2832	1.5139 1.5139 0.0891 2.4891	6.6308 6.6308 0.3903 2708.0804	6.6308 6.6308 0.3903 10.9021
								PM10 PM2.5 SO2 NOX VOC	3.32 0.00999 0.00999 0.000588 4.08 0.118	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	PHass Badalice AP-42 Table 3.2-2	100.00%	- - - 99.60% 72.16%	1.5139 1.5139 0.0891 618.2832 17.8817	1.5139 1.5139 0.0891 2.4891 4.9781	6.6308 6.6308 0.3903 2708.0804 78.3219	6.6308 6.6308 0.3903 10.9021 21.8042
								PM10 PM2.5 SO2 NOX VOC CO	0.00999 0.00999 0.000588 4.08 0.118 0.317	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	Prass Bodalitie AP-42 Table 3.2-2	- - - 100.00% 100.00%	- - 99.60% 72.16% 89.64%	1.5139 1.5139 0.0891 618.2832 17.8817 48.0382	1.5139 1.5139 0.0891 2.4891 4.9781 4.9781	6.6308 6.6308 0.3903 2708.0804 78.3219 210.4072	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042
								PM10 PM2.5 SO2 NOX VOC CO Pb	3.32 0.00999 0.00999 0.000588 4.08 0.118 0.317 0.00	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr	AP-42 Table 3.2 AP-42 Table 3.2 Mass Balance	- - 100.00% 100.00% -	- - 99.60% 72.16% 89.64% -	1.5139 1.5139 0.0891 618.2832 17.8817 48.0382 0.0000	1.5139 1.5139 0.0891 2.4891 4.9781 4.9781 0.0000	6.6308 6.6308 0.3903 2708.0804 78.3219 210.4072 0.0000	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 0.0000
								PM10 PM2.5 SO2 NOX VOC CO Pb NH ₃	0.00999 0.000999 0.000588 4.08 0.118 0.317 0.00 3.18	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/hr	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 Mass Balance Mass Balance	- - 100.00% 100.00% - -	- - 99.60% 72.16% 89.64% -	1.5139 1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848	1.5139 1.5139 0.0891 2.4891 4.9781 4.9781 0.0000 3.1848	6.6308 6.6308 0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493
								PM10 PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O	3.32 0.00999 0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/hr Lb/hr	AP-42 Table 32 AP-42 Table 32 AP-42 Table 32 AP-42 Table 32 AP-42 Table 32 AP-42 Table 32 AP-42 Table 32 Mass Balance Mass Balance AP-42 Table 32	- - 100.00% 100.00% - - 100.00%	- - 99.60% 72.16% 89.64% - -	1.5139 1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013	1.5139 1.5139 0.0891 2.4891 4.9781 4.9781 0.0000 3.1848 0.2500	6.6308 6.6308 0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950
								PM10 PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH20 Acataldehyde, CH20	3.32 0.00999 0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 Mass Balance AP-42 Table 3.2-2 BP-42 Table 3.2-2 AP-42 Table 3.2-2	- - 100.00% 100.00% - - - 100.00%	- - - 99.60% 72.16% 89.64% - - - 96.88% 58.16%	1.5139 1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669	1.5139 1.5139 0.0891 2.4891 4.9781 4.9781 0.0000 3.1848 0.2500 0.5300	6.6308 6.6308 0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214
								PM10 PM2.5 SO2 NOX VOC CO PD NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acetaldehyde, C2H4O	3.32 0.00999 0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MBtu lb/MMBtu	AP-42 Table 3.2 AP-42 Table 3.2 AP-42 Table 3.2 AP-42 Table 3.2 AP-42 Table 3.2 AP-42 Table 3.2 AP-42 Table 3.2 Mass Balance Mass Balance AP-42 Table 3.2 AP-42 Table 3.2	- - 100.00% 100.00% - - - 100.00% 100.00%	- - - - - - - - - - - - - - - - - - -	1.5139 1.5139 1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7290	1.5139 1.5139 0.0891 2.4891 4.9781 4.9781 0.0000 3.1848 0.2500 0.5300 0.7300	6.6308 6.6308 0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 2.4117	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 2.156
								PM10 PM2,5 SO2 NOX VOC CO CO Pb Formaldehyde,CH2O Acrotelichyde,CH2O Acrotelichyde,CH2O Acrotelichyde,CH2O Acrotelichyde,CH2O	3.52 0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.00514	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/hr Lb/hr Lb/hr Lb/MMBtu Lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2	- - - 100.00% 100.00% - - - 100.00% 100.00%	- - - - - - - - - - - - - - - - - - -	1.5139 1.5139 1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.2700	1.5139 1.5139 0.0891 2.4891 4.9781 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700	6.6308 6.6308 0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 4.6664	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 4.4900
								PM10 PM2,5 SO2 NOx VOC CO Pb Formaldehyde, CH20 Formaldehyde, CH20 Acetaldehyde, CH20 Acetaldehyde, CH20 Methanol, CH30H	3.32 0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00528 0.00534 0.00514 0.0025	Lb/MBtu Lb/MBtu Lb/MBtu Lb/MBtu Lb/MBtu Lb/MBtu Lb/hr Lb/hr Lb/hr Lb/hr Lb/hr Lb/MBtu Lb/MBtu Lb/MBtu	APA2 Table 3.22 AP.42 Table 3.22	- - - 100.00% 100.00% - - - 100.00% 100.00%	- - - - - - - - - - - - - - - - - - -	1.5139 1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789	1.5139 1.5139 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700	6.6308 6.6308 0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826
								PM10 PM2.5 SO2 NOX VOC CO Pb NH ₃ Formaldehyde, CH2O Acrolein, C2H8O Acrolein, C2H8O Methanol, CH3OH Carbon Fortachioride	3.32 0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.00514 0.000367	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/hr Lb/hr Lb/hr Lb/hr Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	AP-42 Table 3.2-2 Mass Balance AP-42 Table 3.2-2	- - - - - - - - - - - - - - - - - - -	- - 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73%	3.3200 1.5139 1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056	1.5139 1.5139 0.0891 2.4891 4.9781 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.0056	6.6308 6.6308 0.3003 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244
								PM10 PM2.5 S02 N0x V0C C0 Pb Smaltelyde, CH20 Acetatoleyde, CH20 Acetatoleyde, CH20 Acetatoleyde, CH20 Acetatoleyde, CH20 Methanol, CH30H Carbon Fetrachionde Chloroform	3.32 0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.0000367	Lb/MBtu Lb/MBtu Lb/MBtu Lb/MBtu Lb/MBtu Lb/MBtu Lb/hr Lb/hr Lb/hr Lb/MBtu Lb/MBtu Lb/MBtu Lb/MBtu Lb/MBtu	APA2 Table 3.22 AP.42 Table 3.22	- - - - - - - - - - - - - - - - - - -	99.60% 72.16% 89.64% - - - - - - - - -	3.3200 1.5139 1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.3789 0.0056 0.0043	1.5139 1.5139 0.0891 2.4891 4.9781 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043	6.6308 6.6308 0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0224 0.0189	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189
								PM10 PM2.5 SO2 NOX VOC CO Pb Pb Pb Pb Pormaldehyde, CH2O Acrolein, C2H8O Acrolein, C2H8O Methanol, CH3OH Carbon Förtachioride Chloroform Benzene	3.32 0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00836 0.00514 0.0025 0.0000367 0.0000285	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/hr Lb/hr Lb/hr Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	AP-42 Table 3.2-2	- - - - - - - - - - - - - - - - - - -		3.3200 1.5139 1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.3789 0.0056 0.0043 0.00667	1.5139 1.5139 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.0056 0.00667	6.6308 6.6308 0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920
								PM10 PM25 SO2 NOX VOC CO Pb NH ₃ Formaldehyde, CH20 Acetaldehyde, CH20 Acetaldehyde, CH20 Acetaldehyde, CH20 Acetaldehyde, CH20 Methanol, CH30H Carbon Tetrachtoride choroform benzene wnyc chorode	3.32 0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00528 0.00514 0.0025 0.0000285 0.0000449	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	APA2Table 3.22 AP.42Table 3.22	- - - - - - - - - - - - - - - - - - -	- 99.60% 72.16% 89.64% - - - - - - - - - - - - - - - - - - -	3.3200 1.5139 1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0023	0.0000 1.5139 0.0891 2.4891 4.9781 4.9781 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.05300 0.7200 0.0056 0.0043 0.0667 0.0023	6.6308 6.6308 0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 21.8042 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099
								PM10 PM2.5 SO2 NOX VOC CO Pb Pb NH ₃ Formaldehyde, CH2O Acrolein, C2H8O Acrolein, C2H8O Methanol, CH3OH Carbon Tétrachioride Chioroform Benzene Winyt chioride dichloromethane	3.32 0.00999 0.00958 4.08 0.118 0.317 0.00 3.18 0.0528 0.00514 0.00514 0.00514 0.000025 0.0000285 0.0000285	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/hr Lb/hr Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	AP-42 Table 3.2-2	- - - - - - - - - - - - - - - - - - -		3.350 1.5139 1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.7789 0.0056 0.0043 0.0067 0.0043	0.000 1.5139 1.5139 0.0991 2.4891 4.9781 4.9781 4.9781 0.0000 0.2500 0.2500 0.2500 0.2500 0.0250 0.0004 0.0004 0.0067 0.0043 0.0067	6.6308 6.6308 0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133	6.6308 6.6308 0.3903 10.9021 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 2.3214 3.1536 1.1826 0.0244 0.0189 0.2820 0.0099 0.0013
	Paciprocetion Internet			Selective Catalytic				PM10 PM2.5 SO2 NOX VOC CO Pb NH, Formaldehyde, CH20 Acetaldehyde, CH20	3.32 0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00514 0.00554 0.00054 0.000554 0.00025 0.000028 0.000028 0.000024 0.000024 0.000024 0.000024	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	APA2T Table 3.22	- - - - - - - - - - - - - - - - - - -	- 99.60% 72.16% 89.64% - - - - 58.16% 7.56% 28.73% - - -	3.320 3.15139 1.5139 1.5139 0.0991 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.0789 0.0056 0.0025 0.0067 0.0023 0.0067 0.0023 0.0067	0.000 1.5139 1.5139 0.0891 4.9781 4.9781 4.9781 0.000 0.2500 0.2500 0.2500 0.2200 0.0056 0.00056 0.00056 0.00056 0.00023 0.0067 0.0023 0.0023 0.0054	6.6308 6.6308 0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 0.0000 0.0000 1.3.9493 1.0950 2.3214 3.1536 0.0244 0.0189 0.0244 0.0189 0.2820 0.0099 0.0133 0.0211
EU 03	Reciprocating Internal	Process 1	Engines	Selective Catalytic Reduction (SCR),	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM10 PM2.5 SO2 NOX VOC CO Pb NH ₃ Formaldehyde, CH2O Acrolein, C3H8O Methanol, CH3OH Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachioride Chioroform Benzene Winyt Chiorde dichoromethane 1.1.2.7 (inclinomethane	3.32 0.00999 0.00958 4.08 0.118 0.317 0.00 3.18 0.0528 0.00514 0.0025 0.00036 0.00036 0.00004 0.000285 0.00044 0.00028 0.0000285 0.00004 0.0000285 0.00000285 0.0000000000000000000000000000	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	APA2 Table 3.22 AP42 Table 3.22	- - - 100.00% 100.00% - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	3.3209 1.5139 1.5269 1.5139 1.5139 1.5139 1.5139 1.5159	0.000 1.5139 0.0891 4.9781 4.9781 4.9781 0.0000 3.1848 0.2500 0.7200 0.7200 0.0720 0.00530 0.0043 0.0067 0.0043 0.0067 0.0030 0.0043 0.0067 0.0030 0.0043 0.0067 0.0030 0.0030 0.0055 0.0030 0.0055	6.6308 6.6308 0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0244 0.0189 0.2220 0.0099 0.2220 0.0133 0.0215 0.0133 0.0215 0.0133 0.0215 0.00555 0.00555 0.00555 0.00555 0.	6.6308 6.6308 0.3903 0.9021 21.8042 21
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CC) Catalyset	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PH10 PH25 SO2 NOX VOC CO Pb Pb Formaldehyde, CH20 Acrolein, C3H80 Acrolein, C3H80 Methanol, CH30H Carbon Fetrachtoride chhordorm benzene umy chloride dichloromethane 1.1,2-Trichloroethane	3.32 0.00999 0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00836 0.00836 0.000514 0.00025 0.0000449 0.0000285 0.0000449 0.0000149 0.0000218	Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MBtu Lb/MBtu Lb/MBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu Lb/MMBtu	AP-42 Table 3.22 AP-42 Table 3.22 AP-42 Table 3.22 AP-42 Table 3.2.2 Mass Balance Mass Balance AP-42 Table 3.2.2	- - - 100.00% 100.00% 100.00% - - - - - - - - - - - - - - - - -	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% - - - - -	3.320 1.5139 1.5159	0.000 1.5139 0.0891 4.9781 4.9781 0.0000 3.1848 0.2500 0.7200 0.2700 0.0056 0.0056 0.0063 0.0063 0.0023 0.0064 0.00061 0.0061	6.6308 6.6308 6.6309 2708.0804 773.219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6574 0.0244 0.0189 0.0244 0.0189 0.0244 0.0189 0.0299 0.0099 0.0133 0.0215 0.0215 0.0215 0.0215 0.0215 0.0215 0.0255 0.0215 0.0255 0.0215 0.0255 0.0215 0.02555 0.02555 0.02555 0.02555 0.	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 2.3214 3.1536 1.1826 0.0244 0.0189 0.0244 0.0189 0.0244 0.0199 0.0133 0.0211
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM10 PM2.5 SO2 NOX VOC CO CO Pb Pb Pb Pb Pb Pb Pb Pb Pb Pb Pb Pb Pb	3.32 0.00999 0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.00514 0.0025 0.00025 0.00025 0.000028 0.000028 0.000024 0.000024 0.000024 0.0000218 0.00004	LD/MMBtu LD/MMBtu LD/MMBtu LD/MMBtu LD/MMBtu LD/MMBtu LD/MMBtu LD/MMBtu LD/MMBtu LD/MMBtu LD/MMBtu LD/MMBtu LD/MMBtu LD/MMBtu LD/MMBtu	AP-42 Table 3.2-2	- - - 100.00% 100.00% 100.00% - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	3.320 3.15139 1.5139 0.0891 1.5139 0.0812 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.7789 0.0056 0.0043 0.0043 0.0043 0.0023 0.0030 0.0048 0.0048 0.0016	0.000 1.5139 0.0891 4.9781 4.9781 4.9781 4.9781 0.0000 0.0000 0.0000 0.5300 0.7200 0.2700 0.0043 0.0067 0.0043 0.0048 0.0048 0.0048	6.6308 6.6308 0.3903 2708.0804 78.3219 210.4072 210.4072 210.4072 210.4072 210.4072 33.0457 5.5489 33.0457 5.5489 33.0457 5.5489 0.0244 0.0244 0.0189 0.0189 0.0099	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 0.0000 0.0231 0.0244 0.0099 0.0133 0.0211 0.0265
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/tvr	PH10 PH25 SO2 NOX VOC CO Pb Pb Formaldehyde, CH20 Acrolein, C3H80 Acrolein, C3H80 Acrolein, C3H80 Methanol, CH30H Carbon Fetrachloride chloroform benzene wind chloride dichloromethane 1.1,2-Trichloroethane 1.1,2-Trichloroethane 1.1,2-Trichloroethane Phenanthroen maphthalene	3.32 0.00999 0.00999 0.00999 0.000989 0.00058 0.00058 0.317 0.00 0.317 0.00 0.317 0.00 0.318 0.025 0.00036 0.00025 0.000028 0.000024 0.000024 0.000024 0.000024	ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MBtu ID/MBtu ID/MBtu ID/MBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MBtu	AP-42 Table 3.22 AP-42 Table 3.22 AP-42 Table 3.22 AP-42 Table 3.2.2 Mass Balance Mass Balance AP-42 Table 3.2.2 AP-42 Table 3.2.2 <	- - - - - - - - - - - - - - - - - - -	99.60% 72.16% 89.64% - - - - - - - - - - - - - - - - - - -	3.320 3.15139 1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.07789 0.0056 0.0043 0.0056 0.0043 0.0056 0.0023 0.0005 0.0023 0.0001 0.0011 0	0.000 1.5139 1.5139 0.0891 2.4891 2.4891 0.0000 3.1848 0.0000 0.5300 0.5300 0.5300 0.7200 0.056 0.0056 0.0023 0.0061 0.0023 0.0061 0.0061 0.0061 0.00113 0.0113	6 6308 6 6308 6 6308 0 3903 2708.0804 77.3.219 210.4072 0.0000 13.9493 36.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.0244 0.0189 0.0242 0.0099 0.0133 0.0241 0.0265 0.0099	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 21.8042 21.8042 2.3214 0.0000 2.3214 3.1536 1.1826 0.0244 0.0189 0.0211 0.0282 0.0099 0.0131 0.0211
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CC) Catalyst	CD 05, CD 06	EP03	151.54 MMBtu/hr	PM10 PM2.5 SO2 NOX VOC CO CO Pb Pb Pb Pb Pb Pb Pb Pb Pb Pb Pb Pb Pb	3.22 0.00999 0.00999 0.000999 0.000582 0.00528 0.001 0.001 0.00317 0.00 0.317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00 3.18 0.00528 0.00034 0.0000357 0.0000285 0.000049 0.000049 0.0000318 0.000048 0.000049	ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu	AP-42 Table 3.2-2	- - - 100.00% 100.00% - - - 100.00% - - - - - - - - - - - - - - - - - -	99.60% 72.16% 89.64% - - 96.88% 58.16% - 28.73% - - - - - - - - - -	3.3203 3.15139 1.5139 0.0891 618.2832 17.8617 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.3789 0.0056 0.0055 0	0.000 1.5139 1.5139 0.0891 2.4891 4.9781 4.9781 4.9781 0.0000 0.2500 0.2500 0.2200 0.2200 0.2200 0.0045 0.0045 0.0048 0.0067 0.0026 0.0048 0.0061 0.0016 0.0016 0.0056	6 6308 6 6308 6 6308 0 3903 2708.0804 78 3219 210.4072 2 10.4072 2 10.4072 2 10.4072 0 0000 13 9493 5 0457 5 5489 3 5.0457 5 5489 0 3.4117 1 6594 0 0.220 0 0.0133 0 0.211 0 0.0265 0 0.0269	6.6308 6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 1.0950 2.3214 3.1536 1.1826 0.0244 0.0133 0.0133 0.0211 0.0265 0.0069 0.0069 0.0494 0.0220
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/tvr	PH10 PH25 SO2 NOX VOC CO Pb Formaldehyde, CH20 Accidalehyde, CH20 Accidalehyde, CH20 Accidalehyde, CH20 Accidalehyde, CH30H Carbon Tetrachloride chloroform benzene unit chloride dichloromethane 1.1.2-Tichloroethane Phenanthrene Phenanthrene Phenanthrene Phenanthrene Biphenyt	3.22 0.00999 0.00999 0.00999 0.000999 0.000999 0.000999 0.00009 0.000 0.000 0.000 0.0002 0.00024 0.000024 0.000024 0.000024 0.000024 0.000024 0.000024 0.000024 0.000024 0.000024 0.000024 0.000024	ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu	AP-42 Table 3.22 AP-42 Table 3.22 AP-42 Table 3.2.2 Mass Balance Mass Balance AP-42 Table 3.2.2	- - - - - - - - - - - - - - - - - - -	- 99.60% 72.16% 89.64% - - - - - - - - - - - - - - - - - - -	3.3203 1.5139 1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.0789 0.0056 0.0056 0.0063 0.0063 0.0064 0.0061 0.0001 0.0061 0.00113 0.0051 0.0051 0.0051 0.0051 0.0051 0.0051 0.0051 0.0051 0.0051 0.0051 0.0051 0.0051 0.0051 0.0051 0.0051 0.0051 0.0051 0.00555 0.00555 0.00555 0.00555 0.00555 0.00555 0.00555 0.	0.0001 1.5139 1.5139 0.0891 2.4891 2.4891 2.4891 0.0000 3.1844 0.0000 0.5300 0.2500 0.2500 0.2500 0.2500 0.0203 0.0005	6 6308 6 6308 6 6308 0 3903 2708.0804 773.219 210.4072 0.0000 13.9493 36.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.0244 0.0189 0.0299 0.0133 0.0245 0.0099 0.0133 0.0241 0.0265 0.0099 0.0133 0.0215 0.0265 0.0099 0.0211 0.0265 0.0044 0.0220 0.0494 0.0249 0.0494 0.0249 0.0494 0.0249 0.0494 0.0249 0.0494 0.0249 0.0494 0.0249 0.0494 0.0249 0.0494 0.0249 0.0494	6.6308 6.6308 0.3903 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 0.0000 0.2314 0.0250 0.0211 0.0265 0.0211 0.0265 0.0069 0.0494 0.0220 0.0494
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CC) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PH10 PH25 SO2 NOX SO2 CO CO CO Pb H Formaldehyde, CH2O Acrolein, C3H8O Acrolein, C3H8O Acrolei	3.22 0.00999 0.00999 0.00999 0.000999 0.000999 0.000999 0.000999 0.000999 0.00037 0.000 0.000357 0.000285 0.000149 0.0000357 0.0000285 0.0000149 0.00000000000000000000000000000000000	ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu	APA2 Table 3.22	- - - - - - - - - - - - - - - - - - -		3.3609 1.5139 1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.3789 0.3789 0.3789 0.3789 0.0056 0.0056 0.0056 0.0056 0.0056 0.0030 0.00667 0.0030 0.00667 0.0056 0.0030 0.0048 0.0056 0.0056 0.0056 0.0056 0.0030 0.0048 0.0056 0.0056 0.0056 0.0056 0.0030 0.0048 0.0056 0.0056 0.0030 0.0056	0.000 1.5139 1.5139 0.0891 2.4891 2.4891 2.4891 0.0000 3.1848 0.2500 0.2500 0.22700 0.22700 0.22700 0.22700 0.0065 0.0026 0.0030 0.00667 0.0030 0.00667 0.0030 0.00667 0.0030 0.0048 0.0001 0.0016 0.0050 0.0055 0.0050 0.0055 0.0055 0.0050 0.0055	6 6308 6 6308 6 6308 0.3903 2708.0804 773.219 210.4072 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0001 0.0244 0.0284 0.0284 0.0220 0.0099 0.0211 0.0265 0.0069 0.0220 0.0069 0.0444 0.0220 0.0069 0.0220 0.0069 0.0220 0.0205 0.0220 0.0265 0.0220 0.0265 0.0220 0.0265 0.0220 0.0255 0.0220 0.0255	6.6308 6.6308 6.6308 0.3803 10.9021 21.8042
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PH10 PH20 PH20 PH20 PH20 SQ2 NOX VOC CO Pb Formaldehyde, CH20 Acctaidehyde, CH20 Acctaidehyde, CH30H Carbon Fetrachtoride dichloromm Denzene wingl chloride dichloromthane 1.1.2.7 incloridenkare Phenanthrene Daphthalene Z-Methynaphthalene Biphenyl	3.22 0.00999 0.00999 0.00999 0.000999 0.000999 0.000999 0.0000 3.18 0.002 0.000 3.18 0.0028 0.000314 0.0028 0.000514 0.00028 0.000044 0.000044 0.000040 0.000014 0.0000014 0.0000014 0.0000000000	ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu	AP-42 Table 3.22 Mass Balance Mass Balance AP-42 Table 3.22 AP-42 Table 3.22<	- - - - - - - - - - - - - - - - - - -		3.3209 1.5139 1.5139 0.0891 618.2832 17.8317 48.0342 48.043 48.0015 48.0015 48.0055	0.000 1.5139 1.5139 0.0891 4.9781 4.9781 4.9781 0.0000 0.5300 0.5300 0.05300 0.0056 0.0043 0.0061 0.0061 0.0061 0.0061 0.0061 0.0061 0.0055 0.0055	6 6308 6 6308 6 6308 0 3903 2708.0604 773.219 210.4072 0 0.0000 13.9493 35.0457 5.5489 3.4117 1.6574 0.0244 0.0244 0.0244 0.0244 0.0255 0.0669 0.0133 0.0255 0.0669 0.0255 0.0669 0.0255 0.0669 0.0255 0.0669 0.0255 0.0669 0.0265 0.0265 0.02	6 6308 6 6308 6 6308 0.3803 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 2.18042 2.3214 0.0000 1.1826 0.0029 0.0133 0.0295 0.00494 0.0202 0.0494 0.0202 0.0494 0.0265 1.100 0.0494 0.0265 1.100 0.0494 0.0265 1.100 0.0494 0.0265 1.100 0.0494 0.0265 1.100 0.0494 0.0265 1.100 0.0494 0.0265 1.100 0.0494 0.0265 1.100 0.0494 0.0265 1.100 0.0265 1.100 0.0265 1.100 0.0265 1.100 0.0265 1.100 0.0265 0.0255 0
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PH10 PH25 SO2 NOX SO2 CO CO CO Pb NH ₃ Formaldehyde, CH2O Acrolein, C3H8O Acrolein, C3H8O Acr	3.32 0.00999 0.00999 0.000999 0.000999 0.000999 0.000999 0.000999 0.000999 0.00031 0.000357 0.000357 0.000285 0.000149 0.0000357 0.0000285 0.0000149 0.00000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.00000000000000000000000000000000000	ID/MMBtu ID/MMBtu	APA2 Table 3.22 AP.42 Table 3.2 AP.42 Table 3.2 AP.42 Table 3.2.2 AP.42 Table 3.2.2 <td>- - - - - - - - - - - - - - - - - - -</td> <td></td> <td>3.3509 1.5139 1.5139 0.0891 48.0382 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0056 0.0043 0.0016 0.0013 0.0016 0.0013 0.0016 0.0013 0.0056 0.0023 0.0016 0.0056 0.00</td> <td>1.5139 1.5139 0.0891 2.4891 4.9781 4.9781 0.0004 0.5300 0.7200 0.2700 0.0056 0.0056 0.0023 0.0043 0.0066 0.0036 0.0043 0.0048 0.0016 0.0013 0.0056 0.0023 0.0056 0.0023 0.0056 0.0023 0.0056 0.0023 0.0056 0.00321 0.0056 0.005</td> <td>6 6308 6 6308 0.3903 2706.0804 78.3219 210.4072 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0004 0.0244 0.0244 0.0244 0.0244 0.0220 0.0099 0.0220 0.0099 0.0494 0.0221 0.0069 0.0220 0.0069 0.0220 0.0069 0.0220 0.0069 0.0220 0.0069 0.0220 0.0264 0.0220 0.0057 0.0220 0.0264 0.0257 0.0264 0.0257 0.0264 0.0257 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0258 0.0257 0.0258</td> <td>6 6308 6 6308 6 6308 0.3903 0.3903 10.9021 21.8042 21.8042 21.8042 0.0000 0.0000 0.0000 0.0000 0.0000 0.0220 0.0221 0.0244 0.0133 0.0211 0.0265 0.0099 0.0099 0.0099 0.0099 0.0069 0.0069 0.0069 0.0021 0.0069 0.0021 0.0069 0.0021 0.0069 0.0021 0.0025 0.0055 0.</td>	- - - - - - - - - - - - - - - - - - -		3.3509 1.5139 1.5139 0.0891 48.0382 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0056 0.0043 0.0016 0.0013 0.0016 0.0013 0.0016 0.0013 0.0056 0.0023 0.0016 0.0056 0.00	1.5139 1.5139 0.0891 2.4891 4.9781 4.9781 0.0004 0.5300 0.7200 0.2700 0.0056 0.0056 0.0023 0.0043 0.0066 0.0036 0.0043 0.0048 0.0016 0.0013 0.0056 0.0023 0.0056 0.0023 0.0056 0.0023 0.0056 0.0023 0.0056 0.00321 0.0056 0.005	6 6308 6 6308 0.3903 2706.0804 78.3219 210.4072 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0004 0.0244 0.0244 0.0244 0.0244 0.0220 0.0099 0.0220 0.0099 0.0494 0.0221 0.0069 0.0220 0.0069 0.0220 0.0069 0.0220 0.0069 0.0220 0.0069 0.0220 0.0264 0.0220 0.0057 0.0220 0.0264 0.0257 0.0264 0.0257 0.0264 0.0257 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0257 0.0258 0.0258 0.0257 0.0258	6 6308 6 6308 6 6308 0.3903 0.3903 10.9021 21.8042 21.8042 21.8042 0.0000 0.0000 0.0000 0.0000 0.0000 0.0220 0.0221 0.0244 0.0133 0.0211 0.0265 0.0099 0.0099 0.0099 0.0099 0.0069 0.0069 0.0069 0.0021 0.0069 0.0021 0.0069 0.0021 0.0069 0.0021 0.0025 0.0055 0.
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PH10 PH20 PH20 PH20 PM25 SQ2 N0X VOC CO Pb Formatdehyde, CH20 Acctaidehyde, CH20 Acctaidehyde, CH30H Carbon Fetrachtoride dichtoromm Denzene wingl chloride dichtoromm Depthtalene Phnenhtrene Paphthalene Syteme Styteme	3.22 0.00999 0.00999 0.000999 0.000999 0.000099 0.0000 3.18 0.000 3.18 0.0028 0.00031 0.00028 0.00031 0.00028 0.00044 0.0000149 0.000031 0.000031 0.000031 0.000031 0.000031 0.000032	Ib/MMBtu Ib/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2	- - - - - - - - - - - - - - - - - - -		3.360 3.5139 1.5139 0.0891 618.2832 17.817 17.81	0.000 1.5139 1.5139 0.0891 4.9781 4.9781 0.0000 0.5300 0.5300 0.0053 0.0053 0.0061 0.0061 0.0055 0.0051 0.0055 0.0051 0.0055	6 6308 6 6308 0 3903 2708.0604 773.219 210.4072 0.0000 13.9493 35.0457 5.5489 0.0244 0.0244 0.0183 0.0215 0.0669 0.0254	6 6308 6 6308 6 6308 0.3803 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 2.18042 2.18042 2.18042 0.0000 1.9950 2.3214 0.0284 0.0285 0.0099 0.0133 0.0285 0.0099 0.0133 0.0221 0.0285 0.0494 0.0220 0.0494 0.0494 0.0294 0
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PH10 PH25 SO2 NOX SO2 CO CO CO Pb NH, Formaldehyde, CH2O Acrolen, C2H8O Acrolen,	3.32 0.00999 0.00999 0.00999 0.00058 0.00558 0.00558 0.317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00 3.18 0.00528 0.00514 0.000357 0.000285 0.000049 0.000014 0.000014 0.000014 0.000014 0.000014 0.000014 0.000014 0.000014 0.000014 0.000014 0.000014 0.000014 0.000014 0.000025 0.000024 0.000024 0.000022 0.000024 0.0000024 0.000024 0.000024 0.000024 0.000024 0.000004 0.000000000 0.0000000000	ID/MMBtu ID/MMBtu	APA2 Table 3.22 AP.42 Table 3.2 AP.42 Table 3.2.2 AP.42 Table 3.2.2 </td <td>- - - - - - - - - - - - - - - - - - -</td> <td></td> <td>3.3509 1.5139 1.5139 0.0891 48.0382 0.0000 17.8817 48.0382 0.0000 0.7789 0.7789 0.7789 0.7789 0.0056 0.0043 0.0056 0.0043 0.0011 0.0056 0.0056 0.0056 0.0067 0.0066 0.0067 0.0405</td> <td>1.5139 1.5139 0.0891 2.4891 4.9781 4.9781 0.0004 0.5300 0.7200 0.7200 0.7200 0.0056 0.0056 0.0023 0.0066 0.0030 0.0043 0.0066 0.0030 0.0048 0.0016 0.0016 0.0056</td> <td>6 6308 6 6308 6 6308 0.3903 2706.0804 78.3219 210.4072 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0001 0.0244 0.0211 0.0284 0.0211 0.0269 0.0099 0.0494 0.0220 0.0099 0.0494 0.0221 0.0264 0.0157 0.0224 0.0157 0.0224 0.0157 0.0224 0.0177 0.0224 0.0225 0.0225 0.0225 0.0225 0.0225 0.0225 0.0225 0.0225</td> <td>6.6308 6.6308 6.6308 0.3903 0.3903 10.9021 21.8042 21.8042 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0244 0.0183 0.0211 0.0265 0.0099 0.0099 0.0099 0.0099 0.0099 0.0005 0.0069 0.0021 0.0069 0.0020 0.0021 0.0025 0.0055 0.0</td>	- - - - - - - - - - - - - - - - - - -		3.3509 1.5139 1.5139 0.0891 48.0382 0.0000 17.8817 48.0382 0.0000 0.7789 0.7789 0.7789 0.7789 0.0056 0.0043 0.0056 0.0043 0.0011 0.0056 0.0056 0.0056 0.0067 0.0066 0.0067 0.0405	1.5139 1.5139 0.0891 2.4891 4.9781 4.9781 0.0004 0.5300 0.7200 0.7200 0.7200 0.0056 0.0056 0.0023 0.0066 0.0030 0.0043 0.0066 0.0030 0.0048 0.0016 0.0016 0.0056	6 6308 6 6308 6 6308 0.3903 2706.0804 78.3219 210.4072 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0001 0.0244 0.0211 0.0284 0.0211 0.0269 0.0099 0.0494 0.0220 0.0099 0.0494 0.0221 0.0264 0.0157 0.0224 0.0157 0.0224 0.0157 0.0224 0.0177 0.0224 0.0225 0.0225 0.0225 0.0225 0.0225 0.0225 0.0225 0.0225	6.6308 6.6308 6.6308 0.3903 0.3903 10.9021 21.8042 21.8042 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0244 0.0183 0.0211 0.0265 0.0099 0.0099 0.0099 0.0099 0.0099 0.0005 0.0069 0.0021 0.0069 0.0020 0.0021 0.0025 0.0055 0.0
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PH10 PH25 SO2 NOX SO2 CO CO Pb Formaldehyde, CH20 Actaldehyde, CH20 Actaldehydd, CH2	3.32 0.00999 0.00999 0.000999 0.000999 0.000999 0.000999 0.000999 0.000999 0.000317 0.000 0.0025 0.000351 0.000351 0.000351 0.000044 0.0000319 0.000044 0.0000149 0.0000319 0.0000149 0.0000219 0.0000221 0.0000221 0.0000221 0.0000221 0.0000221 0.0000221 0.0000221 0.0000221 0.0000221 0.0000221 0.0000221 0.0000221 0.0000221 0.0000221 0.0000222 0.0000222 0.0000222 0.0000222 0.0000222 0.0000222 0.0000222 0.0000222 0.00002 0.00002 0.00002 0.00002 0.00002 0.00002 0.00002 0.00002 0.00002 0.00002 0.00000000	bMMBtu bMMBtu	APA2 Table 3.22 Mass Balance Mass Balance APA2 Table 3.22 A	- - - - - - - - - - - - - - - - - - -		3.3609 1.5139 0.0891 48.332 0.0000 0.0000 0.0005 0.0056 0.0055	1.5139 1.5139 2.4991 2.4991 4.9781 0.0000 3.1848 0.2500 0.0200 0.0006 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.005	6 6308 6 6308 0 3903 2708.0604 778.3219 210.4072 0.0000 13.9493 35.0457 5.5489 0.0244 0.0284 0.0284 0.0211 0.0059 0.0059 0.0284 0.028	6.5308 6.5308 6.5308 0.3903 0.9021 21.8042 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 2.3214 2.3214 2.3214 0.2324 0.0244 0.0133 0.2011 0.0069 0.0069 0.0264 0.
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PH10 PH25 SO2 NOX SO2 CO CO CO Pb Pb Pb Pb Pb Pb Pb Pb Pb Pb Pb Pb Pb	3.32 0.00999 0.00999 0.00999 0.00098 0.00058 0.317 0.00 0.317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00054 0.00054 0.000037 0.000028 0.000014 0.000014 0.000014 0.000014 0.000014 0.000014 0.000014 0.000028 0.000024 0.000022 0.000024 0.000022 0.000024 0.000022 0.0000020 0.00000000	ID/MMBtu ID/MMBtu	APA2 Table 3.2-2 AP-42 Table 3.2-2			3.3609 1.5139 1.5139 0.0891 48.0382 0.0000 17.817 48.0382 0.7789 0.7789 0.7789 0.7789 0.7789 0.0056 0.0043 0.0066 0.0043 0.0061 0.0056 0.00	1.5139 1.5139 1.5139 0.0891 4.9781 4.9781 4.9781 4.9781 0.0000 0.5300 0.7200 0.7200 0.2700 0.0056 0.0056 0.0065 0.0043 0.0066 0.00321 0.0066 0.0036 0.0066 0.0036 0.0067 0.0066 0.0036 0.0067 0.0066 0.0036 0.0067 0.0067 0.0067 0.0067 0.0067 0.0066 0.0067 0.0066 0.0067 0.0066 0.0067 0.0066 0.0067 0.0066 0.0067 0.0066 0.0067 0.0066 0.0067 0.0066 0.0067 0.0066 0.0067 0.0066 0.0067 0.0066 0.0067 0.0066 0.0067 0.0066 0.0067 0.0066 0.006	6.6308 6.6308 6.6308 6.6308 0.8003 2708.0804 78.3219 210.4072 0.0000 3.9493 35.0457 5.5489 3.4117 1.6594 0.0029 0.0183 0.0029 0.0133 0.0211 0.0069 0.0244 0.0265 0.0059 0.4944 0.0220 0.4077 0.1407 0.0549 0.1407 0.0574 0.0157 0.0274 0.0724 0.7778	6 6308 6 6308 0 3803 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 0.0000 2.3214 3.1536 0.0224 0.0133 0.0221 0.0065 0.0494 0.0220 0.0494 0.0220 0.0494 0.0220 0.0157 0.0294 0.0157 0.0294 0.0177 0.2708 0.0021 0.0728 0.0021 0.0057 0.0294 0.0177 0.2708 0.0021 0.0728 0.0021 0.0057 0.0294 0.0177 0.2708 0.0021 0.0024 0.0177 0.0294 0.0177 0.0294 0.0021 0.0021 0.0021 0.0057 0.0021 0.0057 0.0024 0.0157 0.0294 0.0177 0.0294 0.0021 0.0021 0.0021 0.0057 0.0057 0.0021 0.0057 0.0
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PH10 PH25 SO2 NOX SO2 CO CO Pb Formaldehyde, CH20 Actaldehyde, CH20 Actaldehyde, CH20 Actaldehyde, CH20 Actaldehyde, CH20 Actaldehyde, CH20 Actaldehyde, CH20 Carbon Fetrachioride Chloroform benzene winy chloride dicharomethane 1.1.2.7 incluroethane 1.1.2.2 incluroethane 1.1.2.2 incluroethane 1.1.2.2 incluroethane Biphenyl ethyl benzene stytene Ethylene Diromide 1.3.3 hudiene Usuane	3.32 0.00999 0.00999 0.000999 0.000999 0.000999 0.000999 0.000999 0.000999 0.000317 0.000 0.0025 0.000351 0.000351 0.000351 0.0000351 0.000044 0.0000351 0.000044 0.000031 0.000031 0.000031 0.000032 0.0000032 0.0000032 0.0000032 0.0000032 0.0000032 0.0000032 0.0000032 0.0000032 0.0000032 0.0000032 0.0000032 0.0000032 0.0000032 0.0000032 0.000003 0.00000003 0.00000000	IDMMBLU IDMMBLU IDMMBLU IDMMBLU IDMMBLU IDMMBLU IDMMBLU IDMMBLU IDMMBLU IDMMBLU IDMMBLU IDMMBLU IDMMBLU IDMMBLU IDMMBLU IDMMBLU IDMMBLU IDMMBLU IDMMBLU	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2			3.3609 1.5139 0.0891 48.0382 48.0382 0.0000 0.0000 0.0005 0.0056 0.00	1.5139 1.5139 2.4991 2.4991 4.9781 0.0000 3.1848 0.2500 0.7200 0.0530 0.7200 0.0056 0.0023 0.0667 0.0033 0.0667 0.0030 0.0066 0.0030 0.0061 0.0050	6 6308 6 6308 0 3903 2708.0604 773.219 210.4072 0.0000 13.9493 35.0457 5.5489 0.0244 0.0284 0.0244 0.0211 0.0059 0.0059 0.0059 0.0264 0.0284 0.0284 0.0284 0.0284 0.0294	6 6308 6 6308 6 6308 0.3903 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 2.3214 2.3214 2.3214 2.3214 2.3214 2.3214 0.0244 0.0133 0.0211 0.0069 0.0069 0.0069 0.0264 0.0264 0.0294 0.02
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PH10 PH25 SO2 NOX SO2 CO CO CO Pb NH, Formaldehyde, CH2O Acrolen, C2H80 Acrolen,	3.32 0.00999 0.00999 0.00999 0.000999 0.000999 0.000999 0.317 0.00 0.317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00 3.18 0.00528 0.00054 0.000037 0.0000285 0.0000149 0.0000245 0.0000149 0.0000245 0.000024 0.000024 0.0000236	ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu ID/MMBtu	APA2 Table 3.2-2 AP-42 Table 3.2-2	- - - - - - - - - - - - - - - - - - -		3.3509 1.5139 1.5139 0.0891 48.0382 0.0000 17.817 48.0382 0.7789 0.7789 0.7789 0.7789 0.7789 0.0056 0.0043 0.0066 0.0043 0.0066 0.0023 0.0066 0.00113 0.0066 0.0021 0.0066 0.0036 0.0067 0.0048 0.0066 0.0046 0.0056 0.0056 0.0048 0.0056 0.0	2.5139 1.5139 1.5139 0.0891 4.9781 4.9781 4.9781 4.9781 0.0000 0.5300 0.7200 0.7200 0.7200 0.7200 0.0056 0.0056 0.0063 0.0066 0.0023 0.0066 0.0030 0.0016 0.0016 0.0016 0.0036 0.0067 0.0036 0.0067 0.0036 0.0067 0.0048 0.0067	6 6308 6 6308 6 6308 2708 0804 778 3219 210 4072 0.0000 13.9493 35.0457 5.5499 3.4117 1.6594 0.0224 0.0035 0.0099 0.0133 0.0211 0.0055 0.0099 0.0133 0.0221 0.0055 0.0220 0.0157 0.0224 0.0157 0.0254 0.0157 0.0254 0.0157 0.0254 0.0157 0.0254 0.0157 0.0254 0.0157 0.0254 0.0157 0.0254 0.0157 0.0254 0.0157 0.0254 0.0255 0.0257 0.0254 0.0255 0.0257 0.0254 0.0255 0.0257 0.0254 0.0255 0.0257 0.0254 0.0255 0.0257 0.0254 0.0157 0.0255 0.0254 0.0157 0.0157 0.0254 0.0157 0.0157 0.0157 0.0157 0.0157 0.0157 0.0157 0.0157 0.0157 0.0157 0.0157 0.0157 0.0157 0.0157 0.0157 0.0255 0.0157 0.0157 0.0157 0.0255 0.0157 0.0157 0.0157 0.0255 0.0157 0.0157 0.0157 0.0255 0.0157 0.0256 0.0157 0.0157 0.0256 0.0257 0.0157 0.0256 0.0257 0.0257 0.0254 0.0157 0.0254 0.0257 0.0254 0.0257 0.0254 0.0257 0.0254 0.0257 0.0254 0.0257 0.0254 0.0257 0.0254 0.0257 0.0254 0.0257 0.0254 0.0257 0.0254 0.0257 0.0254 0.0257 0.0254 0.0257 0.0254 0.0257 0.0254 0.0257 0.0254 0.0257 0.0257 0.0254 0.0257 0.0257 0.0254 0.0257 0.025	6 6308 6 6308 6 6308 10.9021 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 2.3044 3.1536 0.0224 0.0224 0.0224 0.0224 0.0224 0.0224 0.0224 0.0225 0.0221 0.0265 0.0221 0.0265 0.0227 0.0265 0.0227 0.0265 0.0227 0.0265 0.0227 0.0265 0.0270 0.0270 0.0270 0.0159 0.0270 0.0758 0.0021 0.0224 0.0159 0.0055 0.0021 0.0758 0.0021 0.0055 0.0021 0.0758 0.0021 0.0025 0.0021 0.0055 0.0021 0.0055 0.0055 0.0055 0.0021 0.0055 0.005
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PH10 PH25 SO2 NOX SO2 CO CO Pb Formaldehyde, CH20 Actaldehyde, CH20 Actaldehyde, CH20 Actaldehyde, CH20 Actaldehyde, CH20 Actaldehyde, CH20 Actaldehyde, CH20 Actaldehyde, CH20 Actaldehyde, CH20 Actaldehyde, CH20 Carbon Fatrachioride Chioroform benzene winy Chiorofetane 1,1,2-7 frachioroethane 1,1,2,2-7 frachioroethane 1,1,2,2-7 frachioroethane Denpthilaene Biphenyl ethyl benzene styfene Ethylene Diromide 1,3-butaldiene Usuane Styfene Chiorobenzene Phenol	3.32 0.00999 0.00999 0.00999 0.000999 0.000999 0.000999 0.000999 0.000999 0.000514 0.0025 0.000357 0.000357 0.000044 0.0000357 0.000044 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000218 0.0000218 0.0000218 0.000025 0.0000005 0.000005 0.000005 0.000005 0.000005 0.00005 0.000005 0.0000005 0.00005 0.00005 0.000005 0.000005 0.000005 0.000	bMMBtu bMMBtu	APA2 Table 3.22 Mass Balance Mass Balance APA2 Table 3.22 A	- - 100.00% 100.00% 100.00% - - - - - - - - - - - - -	99.60% 99.60% 72.15% 96.85% 58.16% 7.56% 28.73% - - - - - - - - - - - - - - - - - - -	3.3609 1.5139 1.5139 0.0891 48.0382 0.0000 0.0001 0.0005 0.0056 0.005	1.5139 1.5139 2.4991 2.4991 4.9781 0.0000 3.1848 0.2500 0.0200 0.0200 0.0056 0.02700 0.0056 0.005	6 6308 6 6308 0 3903 2708.0604 773.219 210.4072 0.0000 13.9493 35.0457 5.5489 0.0244 0.0284 0.0284 0.0211 0.0059 0.0059 0.0284 0.0220 0.0294 0.0220 0.0284 0.0284 0.0295 0.0294 0.0294 0.0295 0.0294 0.0295 0.0294 0.0295 0.0294 0.0295 0.0255 0.05555 0.05555 0.05555 0.05555 0.	6 6308 6 6308 6 6308 0.3903 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 2.3214 2.3214 2.3214 2.3214 2.3214 2.3214 0.0244 0.0133 0.0211 0.0069 0.0069 0.0069 0.0264 0.0264 0.0295 0.0295 0.02555 0.02555 0.02555 0.025555 0.02555 0.02555 0.025555 0.02555 0.
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PH10 PH25 SO2 NOX SO2 NOX CO CO CO Pb NH, Formaldehyde, CH20 Acrolen, C3H80 Methanol, CH30H Acrolen, C3H80 Methanol, CH30H Acrolen, C3H80 Acrolen, C3H80 Acrolen, C3H80 Acrolen, CH30H Acrolen, CH30H Acrolen, CH30H Methanol,	3.32 0.00999 0.00999 0.00999 0.000999 0.000999 0.000999 0.000999 0.317 0.00 0.317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.0013 3.18 0.0528 0.00514 0.000357 0.000285 0.000049 0.0000149 0.0000245 0.0000245 0.000024 0.000024 0.000024 0.0000228	b/MMBtu b/MMBtu	APA2 Table 3.22 AP.42 Table 3.2 AP.42 Table 3.2.2 AP.42 Table 3.2.2 </td <td></td> <td>99.60% 99.60% 89.64% 96.83% 7.56% 28.73% - - - - - - - - - - - - - - - - - - -</td> <td>3.3509 1.5139 1.5139 0.0891 48.0382 0.0800 17.817 48.0382 0.0000 0.7789 0.7789 0.7789 0.7789 0.7789 0.0056 0.0043 0.0056 0.0043 0.0066 0.0023 0.0011 0.0016 0.0016 0.0013 0.0066 0.0024 0.0056 0.00</td> <td>1.5139 1.5139 1.5139 0.0891 4.9781 4.9781 4.9781 4.9781 0.0006 0.5300 0.7200 0.7200 0.7200 0.0056 0.0056 0.0056 0.0066 0.0023 0.0066 0.00321 0.0066 0.00321 0.0066 0.0036 0.0066 0.0036 0.0066 0.0036 0.0066 0.0036 0.0066 0.0036 0.0066 0.0036 0.0066 0.0036 0.0066 0.06</td> <td>6 6308 6 6308 6 6308 7 8 6308 7 8 3219 210 4072 0 0000 1 3 9493 3 6457 5 5489 3 4417 1 6594 0 0224 0 0189 0 0133 0 0285 0 0099 0 0133 0 0285 0 0099 0 0133 0 0285 0 0099 0 0133 0 0299 0 0133 0 0299 0 0133 0 0299 0 0133 0 0299 0 0133 0 0299 0 0133 0 0299 0 0157 0 0294 0 0157 0 0099 0 0090 0 0090 0 0090 0 00000000</td> <td>6 6308 6 6308 6 6308 10.9021 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 2.18042 0.0000 10.950 2.3214 3.1536 0.0284 0.0284 0.0285 0.0294 0.0294 0.0265 0.0294 0.0265 0.0294 0.0265 0.0294 0.0270 0.0159 0.0494 0.0270 0.0159 0.0214 0.0255 0.0294 0.0270 0.0159 0.0159 0.0215 0.0294 0.0159 0.0215 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0159 0.0159 0.0159 0.0294 0.0159 0.0159 0.0159 0.0159 0.0159 0.0215 0.0215 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0294 0.0294 0.0295 0.0294 0.0295 0.0294 0.0297 0.0355 0.0294 0.0355 0.0354 0.0559 0.0354 0.0559 0.05</td>		99.60% 99.60% 89.64% 96.83% 7.56% 28.73% - - - - - - - - - - - - - - - - - - -	3.3509 1.5139 1.5139 0.0891 48.0382 0.0800 17.817 48.0382 0.0000 0.7789 0.7789 0.7789 0.7789 0.7789 0.0056 0.0043 0.0056 0.0043 0.0066 0.0023 0.0011 0.0016 0.0016 0.0013 0.0066 0.0024 0.0056 0.00	1.5139 1.5139 1.5139 0.0891 4.9781 4.9781 4.9781 4.9781 0.0006 0.5300 0.7200 0.7200 0.7200 0.0056 0.0056 0.0056 0.0066 0.0023 0.0066 0.00321 0.0066 0.00321 0.0066 0.0036 0.0066 0.0036 0.0066 0.0036 0.0066 0.0036 0.0066 0.0036 0.0066 0.0036 0.0066 0.0036 0.0066 0.06	6 6308 6 6308 6 6308 7 8 6308 7 8 3219 210 4072 0 0000 1 3 9493 3 6457 5 5489 3 4417 1 6594 0 0224 0 0189 0 0133 0 0285 0 0099 0 0133 0 0285 0 0099 0 0133 0 0285 0 0099 0 0133 0 0299 0 0133 0 0299 0 0133 0 0299 0 0133 0 0299 0 0133 0 0299 0 0133 0 0299 0 0157 0 0294 0 0157 0 0099 0 0090 0 0090 0 0090 0 00000000	6 6308 6 6308 6 6308 10.9021 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 2.18042 0.0000 10.950 2.3214 3.1536 0.0284 0.0284 0.0285 0.0294 0.0294 0.0265 0.0294 0.0265 0.0294 0.0265 0.0294 0.0270 0.0159 0.0494 0.0270 0.0159 0.0214 0.0255 0.0294 0.0270 0.0159 0.0159 0.0215 0.0294 0.0159 0.0215 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0294 0.0159 0.0159 0.0159 0.0159 0.0294 0.0159 0.0159 0.0159 0.0159 0.0159 0.0215 0.0215 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0294 0.0294 0.0295 0.0294 0.0295 0.0294 0.0297 0.0355 0.0294 0.0355 0.0354 0.0559 0.0354 0.0559 0.05
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PH10 PH25 SO2 NOX SO2 CO CO Pb Formaldehyde, CH20 Actaidehyde, CH20 Actaidehyde, CH20 Actaidehyde, CH20 Actaidehyde, CH40 Actoelin, C3H80 Methanol, CH30H Carbon Fatrachioride chioroform benzane winyl Chioride dichioromethane 1,1,2-1richloroethane 1,1,2-2 fichloroethane 1,1,2-2 fichloroethane 1,1,2-2 fichloroethane Biphenyl ethyl benzane Stytene Ethylene Diromide 1,3-butaldiene toluene Chiorobenzene phenol hexane 2,2-4. Firmethylpentane 1,3-butaldiene	3.32 0.00999 0.00999 0.00999 0.000999 0.000999 0.118 0.00054 0.00054 0.000514 0.00254 0.000357 0.000024 0.000025 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.000023 0.000023 0.000023 0.000024 0.000024 0.000024 0.000024	IDMMBIU IDMMBIU	APA2 Table 3.22 Mass Balance Mass Balance APA2 Table 3.22 A		99.0% 99.0% 89.04% 90.88% 7.56% 28.73% 	3.3039 1.5139 1.5139 0.0891 48.0382 0.0000 17.8817 48.0382 0.0005 0.07789 0.07789 0.0056 0.0048 0.00667 0.0023 0.00667 0.0023 0.00667 0.0023 0.00667 0.0023 0.0061 0.0050 0.005	1.5139 1.5139 1.5139 0.0891 2.4891 4.9781 0.0000 0.0000 0.0000 0.2700 0.0056 0.2700 0.0056 0.2700 0.0056 0.0023 0.0067 0.0056 0.0033 0.0067 0.0056 0.0033 0.0061 0.0050	6 6308 6 6308 0 3903 2708.0604 773.219 210.4072 0.0000 13.9493 35.0457 5.5489 0.0244 0.0244 0.0189 0.0282 0.0099 0.0099 0.0099 0.0284 0.0221 0.0284 0.0224 0.0285 0.0388 0.0494 0.0494 0.0494 0.0494 0.0594 0.0594 0.0594 0.0595 0.0588 0.05555 0.05555 0.05555 0.055555 0.0555555	6 6308 6 6308 6 6308 0.3903 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 2.3214 1.0950 2.3214 0.23214 0.0244 0.0133 0.0211 0.0264 0.0069 0.0264 0.0264 0.0264 0.0264 0.0264 0.0264 0.0264 0.0264 0.02708 0.0264 0.02708 0.0264 0.02708 0.02788 0.02788 0.02788 0.02788 0.02788 0.027
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CC) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PH10 PH25 SO2 NOX SO2 NOX CO CO CO Pb NH, Formaldehyde, CH20 Acrolen, C3H80 Methanol, CH30H Acrolen, C3H80 Acrolen, C3H80 Acro	3.32 0.00999 0.00999 0.00999 0.000999 0.000999 0.000999 0.000999 0.317 0.00 0.317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00037 0.00037 0.000357 0.0000285 0.0000149 0.0000149 0.0000149 0.0000149 0.0000149 0.0000285 0.0000149 0.000024 0.000024 0.000024 0.000024 0.000024 0.000024 0.000024 0.000024 0.000024 0.000024	LD/MMBtu LD/MMBtu	APA2 Table 3.22 AP.42 Table 3.2 AP.42 Table 3.2 AP.42 Table 3.2.2 AP.42 Table 3.2.2 <td></td> <td>99.60% 99.60% 89.64% 96.83% 7.56% 28.73% - - - - - - - - - - - - - - - - - - -</td> <td>3.3203 3.5139 1.5139 0.0891 48.0382 48.0382 0.0000 17.8817 48.0382 0.7789 0.7789 0.7789 0.7789 0.7789 0.7789 0.0056 0.0043 0.0056 0.0043 0.0066 0.0023 0.0011 0.0016 0.0016 0.0013 0.0066 0.0023 0.0066 0.0023 0.0066 0.0056 0.0066 0.0079 0.0066 0.0079 0.0066 0.0079 0.0066 0.0066 0.0066 0.0076 0.0076 0.0076 0.0076 0.</td> <td>1.5139 1.5139 2.4991 4.9781 0.0001 4.9781 0.2500 0.0000 0.5300 0.02500 0.0045 0.0045 0.0045 0.0045 0.0045 0.0045 0.0045 0.0056 0</td> <td>6.6308 6.6308 6.6308 6.6308 0.3003 2708.0604 778.3219 210.4072 0.0000 3.9493 35.0457 5.5489 3.4117 1.6594 1.6594 0.0284 0.0290 0.0133 0.0211 0.0265 0.0265 0.0494 0.0220 0.1547 0.0157 0.2294 0.0157 0.2294 0.0159 0.7368 0.7368 0.0159 0.7368 0.1727 0.7175 0.1725</td> <td>6 6308 6 6308 6 6308 10.9021 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 2.8042 2.8042 2.8042 2.8042 0.0000 1.950 2.3214 3.1536 0.0284 0.0285 0.0294 0.0265 0.0294 0.0205 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0215 0.0294 0.0255 0.0294 0.0215 0.0294 0.0215 0.0294 0.0159 0.0294 0.0215 0.0294 0.0159 0.0294 0.0215 0.0294 0.0159 0.0294 0.0215 0.0294 0.0215 0.0294 0.0159 0.0294 0.0215 0.0294 0.0215 0.0294 0.0215 0.0294 0.0159 0.0215 0.0294 0.0215 0.0294 0.0159 0.0215 0.0294 0.0215 0.0294 0.0055 0.0294 0.0159 0.0159 0.0755 0.0155 0.0155 0.0155 0.0155 0.0155 0.0155 0.0215 0.0255 0.0215 0.0215 0.0255 0.0215 0.0255 0.0215 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0275</td>		99.60% 99.60% 89.64% 96.83% 7.56% 28.73% - - - - - - - - - - - - - - - - - - -	3.3203 3.5139 1.5139 0.0891 48.0382 48.0382 0.0000 17.8817 48.0382 0.7789 0.7789 0.7789 0.7789 0.7789 0.7789 0.0056 0.0043 0.0056 0.0043 0.0066 0.0023 0.0011 0.0016 0.0016 0.0013 0.0066 0.0023 0.0066 0.0023 0.0066 0.0056 0.0066 0.0079 0.0066 0.0079 0.0066 0.0079 0.0066 0.0066 0.0066 0.0076 0.0076 0.0076 0.0076 0.	1.5139 1.5139 2.4991 4.9781 0.0001 4.9781 0.2500 0.0000 0.5300 0.02500 0.0045 0.0045 0.0045 0.0045 0.0045 0.0045 0.0045 0.0056 0	6.6308 6.6308 6.6308 6.6308 0.3003 2708.0604 778.3219 210.4072 0.0000 3.9493 35.0457 5.5489 3.4117 1.6594 1.6594 0.0284 0.0290 0.0133 0.0211 0.0265 0.0265 0.0494 0.0220 0.1547 0.0157 0.2294 0.0157 0.2294 0.0159 0.7368 0.7368 0.0159 0.7368 0.1727 0.7175 0.1725	6 6308 6 6308 6 6308 10.9021 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 2.8042 2.8042 2.8042 2.8042 0.0000 1.950 2.3214 3.1536 0.0284 0.0285 0.0294 0.0265 0.0294 0.0205 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0255 0.0294 0.0215 0.0294 0.0255 0.0294 0.0215 0.0294 0.0215 0.0294 0.0159 0.0294 0.0215 0.0294 0.0159 0.0294 0.0215 0.0294 0.0159 0.0294 0.0215 0.0294 0.0215 0.0294 0.0159 0.0294 0.0215 0.0294 0.0215 0.0294 0.0215 0.0294 0.0159 0.0215 0.0294 0.0215 0.0294 0.0159 0.0215 0.0294 0.0215 0.0294 0.0055 0.0294 0.0159 0.0159 0.0755 0.0155 0.0155 0.0155 0.0155 0.0155 0.0155 0.0215 0.0255 0.0215 0.0215 0.0255 0.0215 0.0255 0.0215 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0255 0.0275
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 ММВішЛіг	PH10 PH25 SO2 NOX SO2 CO CO Pb Formaldehyde, CH20 Accialen, C3H80 Methanol, CH30H Carbon Fatrachioride dichoromethane 1,1,2-Tichloroethane 1,1,2-2-fichloroethane 1,1,2,2-47tichloroethane 1,1,2,2-47tichloroethane Biphenyl ethyl benzene Biphenyl ethyl benzene Styfene Li-1,3-buttoroethane 1,3-buttoroethane 1,3-buttoroethane 1,3-buttoroethane 1,3-buttoroethane 1,3-buttoroethane 1,3-buttoroethane 1,3-buttoroethane 1,3-buttoroethane 1,3-buttoroethane 1,3-buttoroethane 1,3-buttoroethane 1,3-buttoroethane 1,3-buttoroethane 1,3-buttoroethane 1,3-buttoroethane CO ₂	3.32 0.00999 0.00999 0.00999 0.000999 0.000999 0.000599 0.00059 0.000514 0.00251 0.000357 0.000357 0.000357 0.000357 0.00000357 0.0000557 0.000055	bMMBtu bMMBtu bMMBtu bMMBtu bMBtu bMBtu bMBtu bMBtu bMBtu bMBtu bMBtu bMBtu bMMBtu bDMMBtu bDMMBtu bDMMBtu bDMMBtu bDMMBtu bDMMBtu bDDMBtu DDD	APA2 Table 3.22 Mass Balance Mass Balance APA2 Table 3.22 A		99.0% 99.0% 89.04% 96.8% 7.56% 28.7% 	3.3639 1.5139 1.5139 0.0891 48.0382 0.0000 0.0001 0.0005 0.0056 0.0057 0.0056 0.005	1.5139 1.5139 1.5139 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.0000 0.2700 0.0056 0.0023 0.00667 0.0056 0.0033 0.00667 0.0033 0.00667 0.0033 0.00667 0.0033 0.00667 0.0033 0.00667 0.0050 0.0056 0.0033 0.00667 0.0050	6 6308 6 6308 0 3903 2708.0604 773.219 210.4072 0.0000 13.9493 35.0457 5.5489 0.0244 0.0139 0.0264 0.0133 0.0211 0.0269 0.0099 0.0099 0.0099 0.0284 0.0221 0.0284 0.0224 0.0294 0.0295 0.0059 0.0284 0.0284 0.0284 0.0294 0.0295 0.0284 0.0295 0.0284 0.0295 0.0275 0.0255	6 6308 6 6308 6 6308 0 3903 10 9021 21 8042 21 8042 21 8042 21 8042 21 8042 21 8042 21 8042 21 8042 21 8042 21 8042 20 000 13 9493 1.0950 2.3214 2.3214 2.3214 0.0244 0.0133 0.0211 0.0069 0.0133 0.0211 0.0264 0.0264 0.0264 0.0264 0.0264 0.0264 0.0264 0.0264 0.0264 0.0264 0.0264 0.0264 0.0264 0.0264 0.02708 0.0264 0.02763 0.0275 0.7588 0.0175 0.7543.1690 0.0175 0.7643.1690 0.01291 0.01291 0.0175 0.0175 0.0175 0.0175 0.0175 0.0175 0.0175 0.0175 0.0212 0.0175 0.0180 0.0175 0.0175 0.0175 0.0175 0.0175 0.0180 0.0175 0.01
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CC) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PH10 PH2.5 SO2 NOX SO2 NOX CO CO CO Pb NH ₃ Formaldehyde, CH2O Acrolein, C3H8O Methanol, CH3OH Acrolein, C3H8O Acrolein, C3H8	3.32 0.00999 0.00999 0.00999 0.000999 0.000999 0.000999 0.000999 0.000999 0.317 0.00 0.317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00 3.18 0.0317 0.00 0.0034 0.000357 0.000285 0.000149 0.0000285 0.0000149 0.0000285 0.0000149 0.0000285 0.0000149 0.0000285 0.0000149 0.0000285 0.000024 0.0000000000	Ib/MMBU Ib/MMBU Ib/MBU	APA2 Table 3.22 AP.42 Table 3.2.2		99.00% 99.00% 89.04% 89.04% 58.16% 7.56% 28.73% - - - - - - - - - - - - - - - - - - -	3.3509 1.5139 1.5139 0.0891 48.0382 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.7789 0.7789 0.7789 0.0056 0.0043 0.0057 0.0043 0.0064 0.0061 0.0023 0.00113 0.0056 0.0013 0.0066 0.0023 0.0066 0.0023 0.0066 0.0023 0.0066 0.0056 0.0056 0.0065 0.0046 0.0056 0.0066 0.0056 0.0066 0.0056 0.0066 0.0056 0.0066 0.0057 0.0056 0.0	1.5139 1.5139 1.5139 0.0891 4.9781 0.0200 3.1848 0.2500 0.0200 0.0005	6.6308 6.6308 6.6308 6.6308 0.38030 2708.0804 778.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 1.6594 0.0286 0.0020 0.0133 0.0211 0.0265 0.0244 0.0265 0.0265 0.0494 0.0220 0.159 0.0494 0.0224 0.055 0.0494 0.0220 0.159 0.7368 0.0759 0.7388 0.0157 0.7384 0.1211 77843.1890 1.221 77843.1890 1.221	6 6308 6 6308 6 6308 10.9021 10.9021 21.8042 21.8042 21.8042 21.8042 21.8042 21.8042 2.8042 2.8042 2.8042 2.8042 2.314 3.1536 1.826 1.826 0.0244 0.0224 0.0244 0.0285 0.0021 0.0055 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0025 0.0044 0.0220 0.0159 0.0245 0.0244 0.0220 0.0159 0.0245 0.0244 0.0220 0.0159 0.0055 0.0055 0.0244 0.0255 0.0055 0
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP03	151.54 ММВцилт	PH10 PH25 SO2 NOX SO2 NOX CO CO Pb Ho Ho Ho Acrolen, C3H80 Methanol, C490H Carbon Fatcathoride chloroform benzane winyl chloride dichoromethane 1,1,2-1fichloroethane 1,1,2-2 fichloroethane 1,1,2-2 fichloroethane Diphthalene 2,4-6 firmethylpentane 2,2,4-firmethylpentane 1,3-bitchoropopene wylenes CO ₂ CO ₂	3.32 0.00999 0.00999 0.00999 0.000999 0.000999 0.118 0.317 0.00 0.317 0.00 0.317 0.00 0.003 0.003 0.00314 0.000351 0.0000355 0.00000555 0.00000555 0.0000555 0.0000555 0.0000555 0.0000555 0.0000555	b/MMBtu b/MMBtu	APA2T Table 3.22 Mass Balance Mass Balance APA2T Table 3.22 APA2T Table 3.22<		99.0% 99.0% 89.04% 89.04% 7.56% 28.73% 	3.3509 1.5139 1.5139 0.0891 48.0382 0.0001 17.8817 48.0382 0.0005 0.07789 0.07789 0.0056 0.0048 0.00667 0.0048 0.00667 0.0023 0.00667 0.0023 0.00667 0.0023 0.0048 0.00667 0.0023 0.00667 0.0023 0.00667 0.0023 0.0061 0.00667 0.0050 0.0061 0.0050 0	1.5139 1.5139 1.5139 0.0891 4.9781 0.0000 0.0000 0.0000 0.2700 0.0056 0.2700 0.0056 0.2700 0.0056 0.0023 0.0048 0.00667 0.0023 0.0048 0.00667 0.0023 0.0048 0.0061 0.0050 0.00	6 6308 6 6308 0 3903 2708.0804 773.219 210.4072 0.0000 13.9493 35.0457 5.5489 0.0244 0.0244 0.0189 0.0282 0.0099 0.0099 0.0099 0.0284 0.0221 0.0284 0.0226 0.0059 0.0284 0.0285 0.0284	6 6308 6 6308 6 6308 0 3903 10 9021 21 8042 21 8042 21 8042 21 8042 21 8042 21 8042 21 8042 21 8042 21 8042 21 8042 20 000 13 9943 1 0950 2 3214 0 0264 0 0133 0 0211 0 0264 0 0059 0 0069 0 0069 0 0069 0 00264 0 00264 0 00264 0 00264 0 00264 0 00270 0 00264 0 00777 0 0026 0 00264 0 00777 0 0026 0 00264 0 00777 0 0026 0 00264 0 00777 0 0026 0 0026 0 00264 0 00777 0 0026 0 00777 0 00776 0 0026 0 00776 0 00776 0 00769 0 00776 0 00769 0 00776 0 00769 0 00776 0 00769 0 00776 0 00764 0 00776 0 00768 0 00768

								PM	3.32	lb/hr	Mass Balance	-	-	3.3200	3.3200	14.5416	14.5416
								PM10	0.00999	lb/MMBtu	AP-42 Table 3.2-2	-	-	1.5139	1.5139	6.6308	6.6308
								PM2.5	0.00999	lb/MMBtu	AP-42 Table 3.2-2	-	-	1.5139	1.5139	6.6308	6.6308
								S02	0.000588	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0891	0.0891	0.3903	0.3903
								NOx	4.08	lb/MMBtu	AP-42 Table 3.2-2	100.00%	99.60%	618.2832	2.4891	2708.0804	10.9021
								VOC	0.118	lb/MMBtu	AP-42 Table 3.2-2	100.00%	72.16%	17.8817	4.9781	78.3219	21.8042
								CO	0.317	lb/MMBtu	AP-42 Table 3.2-2	100.00%	89.64%	48.0382	4.9781	210.4072	21.8042
								Pb	0.00	lb/hr	Mass Balance			0.0000	0.0000	0.0000	0.0000
								NH ₃	3.18	lb/hr	Mass Balance	-		3.1848	3.1848	13.9493	13.9493
								Formaldehyde, CH2O	0.0528	lb/MMBtu	AP-42 Table 3.2-2	100.00%	96.88%	8.0013	0.2500	35.0457	1.0950
								Acetaldehyde, C2H4O	0.00836	lb/MMBtu	AP-42 Table 3.2-2	100.00%	58.16%	1.2669	0.5300	5.5489	2.3214
								Acrolein, C3H8O	0.00514	lb/MMBtu	AP-42 Table 3.2-2	100.00%	7.56%	0.7789	0.7200	3.4117	3.1536
								Methanol, CH3OH	0.0025	lb/MMBtu	AP-42 Table 3.2-2	100.00%	28.73%	0.3789	0.2700	1.6594	1.1826
								Carbon Tetrachloride	0.0000367	lb/MMBtu	AP-42 Table 3.2-2			0.0056	0.0056	0.0244	0.0244
								chloroform	0.0000285	lb/MMBtu	AP-42 Table 3.2-2	-		0.0043	0.0043	0.0189	0.0189
								benzene	0.00044	lb/MMBtu	AP-42 Table 3.2-2			0.0667	0.0667	0.2920	0.2920
								vinyl chloride	0.0000149	lb/MMBtu	AP-42 Table 3.2-2			0.0023	0.0023	0.0099	0.0099
								dichloromethane	0.00002	lb/MMBtu	AP-42 Table 3.2-2			0.0030	0.0030	0.0133	0.0133
FUIDA	Reciprocating Internal	D	Fadace	Selective Catalytic		50.04	454 54 4400	1,1,2-Trichloroethane	0.0000318	lb/MMBtu	AP-42 Table 3.2-2			0.0048	0.0048	0.0211	0.0211
EU 04	Combustion Engine #4	Process 1	Engines	Reduction (SCR),	CD 07, CD 08	EP 04	151.54 MMBtu/fir	1,1,2,2-Tetrachloroethane	0.00004	lb/MMBtu	AP-42 Table 3.2-2			0.0061	0.0061	0.0265	0.0265
	_			Oxidation (CO) Catalyst				Phenanthrene	0.0000104	lb/MMBtu	AP-42 Table 3.2-2			0.0016	0.0016	0.0069	0.0069
								naphthalene	0.0000744	lb/MMBtu	AP-42 Table 3.2-2			0.0113	0.0113	0.0494	0.0494
								2-Methylnaphthalene	0.0000332	lb/MMBtu	AP-42 Table 3.2-2			0.0050	0.0050	0.0220	0.0220
								Biphenyl	0.000212	lb/MMBtu	AP-42 Table 3.2-2			0.0321	0.0321	0.1407	0.1407
								ethyl benzene	0.0000397	lb/MMBtu	AP-42 Table 3.2-2			0.0060	0.0060	0.0264	0.0264
								styrene	0.0000236	lb/MMBtu	AP-42 Table 3.2-2			0.0036	0.0036	0.0157	0.0157
								Ethylene Dibromide	0.0000443	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0067	0.0067	0.0294	0.0294
								1,3-butadiene	0.000267	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0405	0.0405	0.1772	0.1772
								toluene	0.000408	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0618	0.0618	0.2708	0.2708
								chlorobenzene	0.0000304	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0046	0.0046	0.0202	0.0202
								phenol	0.000024	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0036	0.0036	0.0159	0.0159
								hexane	0.00111	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.1682	0.1682	0.7368	0.7368
								2,2,4-Trimethylpentane	0.00025	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0379	0.0379	0.1659	0.1659
								1,3-Dichloropropene	0.0000264	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0040	0.0040	0.0175	0.0175
								xylenes	0.000184	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0279	0.0279	0.1221	0.1221
								CO ₂	116.9773717	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2	-	-	17726.7509	17726.7509	77643.1690	77643.1690
								CH ₄	0.002204624	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2	-	-	0.3341	0.3341	1.4633	1.4633
								N ₂ O	0.000220462	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2	-	-	0.0334	0.0334	0.1463	0.1463
								NOx	0.098	lb/MMBtu	AP-42 1.4	-	-	0.0001	0.0001	0.0004	0.0004
EU 05	Dew Point Heater	Process 2	Misc. Sources	-		EP 05	0.001 MMBtu/hr	CO	0.0824	lb/MMBtu	AP-42 1.4	-	-	0.0001	0.0001	0.0004	0.0004
								C02	120	lb/MMBtu	AP-42 1.4	-	-	0.1200	0.1200	0.5256	0.5256
														_	_		
	1		1			1	1	1	1		1	1					

Section N.2:	Stack Information								
UTM Zone:									
	Identify all Emission Units (with	Sta	ick Physical D	ata	Stack UTM	Coordinates	St	ack Gas Stream D	ata
Stack ID	Process ID) and Control Devices that Feed to Stack	Equivalent Diameter (ft)	Height	Base Elevation (ft)	Northing (m)	Easting (m)	Flowrate (acfm)	Temperature (°F)	Exit Velocity (ft/sec)
EP 01	EU 01, CD 01, CD 02	5.405	100	408	4,130,572	451,158	68745	644	49.94
EP 02	EU 02, CD 03, CD 04	5.405	100	408	4,130,572	451,175	68745	644	49.94
EP 03	EU 03, CD 05, CD 06	5.405	100	408	4,130,572	451,191	68745	644	49.94
EP 04	EU 04, CD 07, CD 08	5.405	100	408	4,130,572	451,204	68745	644	49.94
EP 05	EU 05	0.5*	10	408	4,130,514	451,239	500*	500*	40*
		*estimated, dat	a not yet avai	lable					

Section N.3: Fugitive Information

UTM Zone:

			Area Phy
Emission Unit #	Emission Unit Name	Process ID	Length of the X Side (fi)
6	l		

sical Data	Area UTM (Coordinates	Area Release Data			
Length of the Y Side (ft)	Northing (m)	Easting (m)	Release Temperature (°F)	Release Height		

Section N.4: Note	s, Comments,	and Explanations
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Division for Air (Quality	DEP7007V		
300 Sower Boulevard Frankfort, KY 40601 (502) 564-3999		Applicable Requirements and Compliance Activities <u>x</u> _Section V.1: Emission and Operating Limitation(s) <u>x</u> _Section V.2: Monitoring Requirements <u>x</u> _Section V.3: RecordReeping Requirements <u>x</u> _Section V.4: Reporting Requirements	Additional Documentation Complete DEP7007AI	
		x Section V.5: Testing Requirements		
Source Name:	Kentucky Municipal Energy Ag	ncv (KYMEA) Energy Center I		
KY EIS (AFS) #:	New Source	(
Permit #:	New Source			
Agency Interest (AI) ID:	New Source			
Date:	10/25/2024			

Section V.1: Emission and Operating Limitation(s)

	Emission Unit #	Emission Unit Description	Applicable Regulation or Requirement	Pollutant	Emission Limit (if applicable)	Voluntary Emission Limit or Exemption (if applicable)	Operating Requirement or Limitation (if applicable)	Method of Determining Compliance with the Emission and Operating Requirement(s)								
			40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Formaldehyde	Limit concentration of formaldehyde to 14 ppmvd or less at 15 percent O2.	N/A	N/A	According to 40 CFR 63 6600, Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.								
			40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	N/A	N/A	N/A	Pressure drop	Maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test.								
			40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	N/A	N/A	N/A	Catalyst inlet temperature	Maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1,350 °F.								
	EU 01	Reciprocating Internal Combustion Engine #1	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	NOx	82 ppmvd at 15% O2	N/A	N/A	Purchasing a non-certified engine and demonstrating compliance with the emission standards. You must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and								
											40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eece)	со	270 ppmvd at 15% O2	N/A	N/A	operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test and conduct subsequent performance testing every 8 760
			40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eece)	VOC	60 ppmvd at 15% O2	N/A	N/A	hours or 3 years, whichever comes first, thereafter to demonstrate compliance in accordance with 40 CFR 60.4244.								
			40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	All	N/A	N/A	Minimize engine idle	Must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission standards apply.								
			40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Formaldehyde	Limit concentration of formaldehyde to 14 ppmvd or less at 15 percent O2.	N/A	N/A	According to 40 CFR 63.6600, Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.								
			40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	N/A	N/A	N/A	Pressure drop	Maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test.								
			40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	N/A	N/A	N/A	Catalyst inlet temperature	Maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1,350 °F.								
	EU 02	Reciprocating Internal Combustion Engine #2	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	NOx	82 ppmvd at 15% O2	N/A	N/A	Purchasing a non-certified engine and demonstrating compliance with the emission standards. You must keep a maintenance plan and records of								
			40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	со	270 ppmvd at 15% O2	N/A	N/A	conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control								
			40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eee)	VOC	60 ppmvd at 15% O2	N/A	N/A	practice for minimizing emissions. In addition, you must conduct an mitial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance in accordance with 40 CFR 60.4244.								

		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	All	N/A	N/A	Minimize engine idle	Must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission standards apply.
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		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Formaldehyde	Limit concentration of formaldehyde to 14 ppmvd or less at 15 percent O2.	N/A	N/A	According to 40 CFR 63.6600, Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.
		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	N/A	N/A	N/A	Pressure drop	Maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test.
		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	N/A	N/A	N/A	Catalyst inlet temperature	Maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1,350 °F.
EU 03	Reciprocating Internal Combustion Engine #3	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	NOx	82 ppmvd at 15% O2	N/A	N/A	Purchasing a non-certified engine and demonstrating compliance with the emission standards. You must keep a maintenance plan and records of
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	СО	270 ppmvd at 15% O2	N/A	N/A	conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	VOC	60 ppmvd at 15% O2	N/A	N/A	performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance in accordance with 40 CFR 60.4244.
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	All	N/A	N/A	Minimize engine idle	Must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission standards apply.
	Reciprocating Internal Combustion Engine #4	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Formaldehyde	Limit concentration of formaldehyde to 14 ppmvd or less at 15 percent O2.	N/A	N/A	According to 40 CFR 63.6600, Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.
		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	N/A	N/A	N/A	Pressure drop	Maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test.
		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	N/A	N/A	N/A	Catalyst inlet temperature	Maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1,350 °F.
EU 04		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	NOx	82 ppmvd at 15% O2	N/A	N/A	Purchasing a non-certified engine and demonstrating compliance with the emission standards. You must keep a maintenance plan and records of conducted maintenance and must to the extent practicable maintain and
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	со	270 ppmvd at 15% O2	N/A	N/A	operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test and conduct subsequent performance testing every 8,760
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	VOC	60 ppmvd at 15% O2	N/A	N/A	hours or 3 years, whichever comes first, thereafter to demonstrate compliance in accordance with 40 CFR 60.4244.
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	All	N/A	N/A	Minimize engine idle	Must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission standards apply.
EU 05	Dew Point Heater	40 CFR Part 63 Subpart DDDDD	N/A	N/A	N/A	Work Practice Standards	At all times, you must operate and maintain any affected source (as defined in § 63.7490), in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
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Section V.2: Monitoring Requirements

Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Monitored	Description of Monitoring
Reciprocating Internal Combustion Engine #1	N/A	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Catalyst inlet temperature.	Installation of a CPMS to continuously monitor catalyst inlet temperature according to the requirements in § 63.6625(b).
Reciprocating Internal Combustion Engine #2	N/A	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Catalyst inlet temperature.	Installation of a CPMS to continuously monitor catalyst inlet temperature according to the requirements in § 63.6625(b).
Reciprocating Internal Combustion Engine #3	N/A	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Catalyst inlet temperature.	Installation of a CPMS to continuously monitor catalyst inlet temperature according to the requirements in § 63.6625(b).
Reciprocating Internal Combustion Engine #4	N/A	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Catalyst inlet temperature.	Installation of a CPMS to continuously monitor catalyst inlet temperature according to the requirements in § 63.6625(b).
Dew Point Heater	N/A	N/A	N/A	N/A
	Emission Unit Description eciprocating Internal Combustion Engine #1 eciprocating Internal Combustion Engine #2 eciprocating Internal Combustion Engine #3 eciprocating Internal Combustion Engine #4 Dew Point Heater	Emission Unit Description Pollutant eciprocating Internal Combustion Engine #1 N/A eciprocating Internal Combustion Engine #2 N/A eciprocating Internal Combustion Engine #3 N/A eciprocating Internal Combustion Engine #3 N/A eciprocating Internal Combustion Engine #4 N/A Pow Point Heater N/A Image: Point Heater N/A Image: Point Heater N/A Image: Point Heater Image: Point Heater Image: Point Heater Image: Point Heater <tr< td=""><td>Emission Unit DescriptionPollutantApplicable Regulation or Requirementeciprocating Internal Combustion Engine #1N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)eciprocating Internal Combustion Engine #2N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)eciprocating Internal Combustion Engine #3N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)eciprocating Internal Combustion Engine #3N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)eciprocating Internal Combustion Engine #4N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)Dew Point HeaterN/AN/AImage: Compute Compute</td><td>Emission Unit DescriptionPollutantApplicable Regulation or RequirementParameter Monitoredeciprocating Internal Combustion Engine #1N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)Catalyst inlet temperature.eciprocating Internal Combustion Engine #2N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)Catalyst inlet temperature.eciprocating Internal Combustion Engine #3N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)Catalyst inlet temperature.eciprocating Internal Combustion Engine #4N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)Catalyst inlet temperature.eciprocating Internal Combustion Engine #4N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)Catalyst inlet temperature.Dew Point HeaterN/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)Catalyst inlet temperature.Dew Point HeaterN/AN/AN/AImage: Comparison of the part of the part</br></td></tr<>	Emission Unit DescriptionPollutantApplicable Regulation or Requirementeciprocating Internal Combustion Engine #1N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)eciprocating Internal Combustion Engine #2N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)eciprocating Internal Combustion Engine #3N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)eciprocating Internal Combustion Engine #3N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)eciprocating Internal Combustion Engine #4N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)Dew Point HeaterN/AN/AImage: Compute	Emission Unit DescriptionPollutantApplicable Regulation or RequirementParameter Monitoredeciprocating Internal Combustion Engine #1N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)Catalyst inlet temperature.eciprocating Internal Combustion Engine #2N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)Catalyst inlet temperature.eciprocating Internal Combustion Engine #3N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)Catalyst inlet temperature.eciprocating Internal Combustion Engine #4N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)Catalyst inlet temperature.eciprocating Internal Combustion Engine #4N/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)Catalyst inlet temperature.Dew Point HeaterN/A40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)Catalyst inlet

Section V.3: Recordkeeping Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Recorded	Description of Recordkeeping
		Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Emission standard.	Must comply with the applicable recordkeeping requirements in 40 CFR 63.6655(a), (b), and (d), and 40 CFR 63.6660, including keeping records for at least 5 years.
EU 01	Reciprocating Internal Combustion Engine #1	N/A	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eee)	Maintenance.	Maintenance conducted on the engine.
		NOx, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	The engine is not a certified engine, facility must keep documentation that the engine meets the emission standards. 40 CFR 60.4245(a)(4).
		Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Emission standard.	Must comply with the applicable recordkeeping requirements in 40 CFR 63.6655(a), (b), and (d), and 40 CFR 63.6660, including keeping records for at least 5 years.
EU 02	Reciprocating Internal Combustion Engine #2	N/A	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Maintenance.	Maintenance conducted on the engine.
		NOx, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	The engine is not a certified engine, facility must keep documentation that the engine meets the emission standards. 40 CFR 60.4245(a)(4).
	Reciprocating Internal Combustion Engine #3	Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Emission standard.	Must comply with the applicable recordkeeping requirements in 40 CFR 63.6655(a), (b), and (d), and 40 CFR 63.6660, including keeping records for at least 5 years.
EU 03		N/A	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Maintenance.	Maintenance conducted on the engine.
		NOx, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	The engine is not a certified engine, facility must keep documentation that the engine meets the emission standards. 40 CFR 60.4245(a)(4).
		Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Emission standard.	Must comply with the applicable recordkeeping requirements in 40 CFR 63.6655(a), (b), and (d), and 40 CFR 63.6660, including keeping records for at least 5 years.
EU 04	Reciprocating Internal Combustion Engine #4	N/A	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Maintenance.	Maintenance conducted on the engine.
		NOx, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	The engine is not a certified engine, facility must keep documentation that the engine meets the emission standards. 40 CFR 60.4245(a)(4).
EU 05	Dew Point Heater	N/A	40 CFR Part 63 Subpart DDDDD	Reporting	A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in § 63.10(b)(2)(xiv).
				Testing	Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in § 63.10(b)(2)(viii).

Section V.4: Reporting Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Reporting	Description of Reporting
EU 01	Reciprocating Internal Combustion Engine #1	Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Operating and emission limitations	A compliance report must be submitted semiannually according to the requirements in § $63.6650(b)$. If there are no deviations from any emission limitations or operating limitations that apply to you, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CMS was out-of-control, as specified in § $63.8(c)(7)$, a statement that there were not periods during which the CMS was out-of-control geriod; or there is a deviation from any emission limitation in § $63.6650(d)$. If there were periods during which the CMS was out-of-control, as specified in § $63.8(c)(7)$, the information in § $63.6650(d)$. If there were deviation from any emission limitation in § $63.6650(d)$. If there were periods during which the CMS was out-of-control, as specified in § $63.8(c)(7)$, the information in § $63.6650(e)$; or if there is a malfunction during the reporting period, the information in § $63.6650(c)(4)$.
EU 02	Reciprocating Internal Combustion Engine #2	Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Operating and emission limitations	A compliance report must be submitted semiannually according to the requirements in § $63.6650(b)$. If there are no deviations from any emission limitations or operating limitations that apply to you, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CMS was out-of-control, as specified in § $63.8(c)(7)$, a statement that there were not periods during which the CMS was out-of-control during the reporting period; or there is a deviation from any emission limitation or operating limitation during the reporting limitation during the reporting beriod; or there is a deviation from any emission limitation in § $63.6650(d)$. If there were periods during which the CMS was out-of-control, as specified in § $63.8(c)(7)$, the information in § $63.6650(e)$; or if there is a malfunction during the reporting period, the information in § $63.6650(c)(4)$.

EU 03	Reciprocating Internal Combustion Engine #3	Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Operating and emission limitations	A compliance report must be submitted semiannually according to the requirements in § $63.6650(b)$. If there are no deviations from any emission limitations or operating limitations that apply to you, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CMS was out-of-control, as specified in § $63.8(c)(7)$, a statement that there were not periods during which the CMS was out-of-control during the reporting period; or there is a deviation from any emission limitation or operating limitation during the reporting period, the information in § $63.6650(d)$. If there were periods during which the CMS was out-of-control, as specified in § $63.8(c)(7)$, the information in § $63.6650(c)$; or if there is a malfunction during the reporting period, the information in § $63.6650(c)(4)$.
EU 04	Reciprocating Internal Combustion Engine #4	Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Operating and emission limitations	A compliance report must be submitted semiannually according to the requirements in § $63.6650(b)$. If there are no deviations from any emission limitations or operating limitations that apply to you, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CMS was out-of-control, as specified in § $63.8(c)(7)$, a statement that there were not periods during which the CMS was out-of-control during the reporting period; or there is a deviation from any emission limitation or operating limitation during the reporting period, the information in § $63.6650(d)$. If there were periods during which the CMS was out-of-control, as specified in § $63.8(c)(7)$, the information in § $63.6650(e)$; or if there is a malfunction during the reporting period, the information in § $63.6650(c)(4)$.
EU 05	Dew Point Heater	N/A	40 CFR Part 63 Subpart DDDDD	Tune up	If the facility is subject to the requirements of a tune up you must submit a compliance report with the information in paragraphs (c)(5)(i) through (iii) of this section. (\S 63.7550)
		1			

Section V.5: Testing Requirements					
Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Testing	Description of Testing
EU 01	Reciprocating Internal Combustion Engine #1	Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(ecce)	Emission standard.	According to 40 CFR 63.6600, Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.
					According to 40 CFR 63.6610(a), you must conduct the initial performance tests or other applicable initial compliance demonstrations in Table 4 to subpart ZZZZ within 180 days after the compliance date.
					According to 40 CFR 63.6615 and Table 3 to subpart ZZZZ, you must conduct the subsequent performance tests semiannually if you are complying with the requirement to limit the concentration of formaldehyde.
					Must conduct the performance tests in accordance with 40 CFR 63.6620 to demonstrate compliance with applicable emission standards. You are required to notify the Administrator 60 days prior to the test date and are required to submit a statek test report to the Administrator within 60 days after the completion of the testing.
					According to 40 CFR 63.6625(b) and Table 5 to subpart ZZZZ, if you are required to install a continuous parameter monitoring system (CPMS), you must install, operate, and maintain each CPMS according to the requirements in 40 CFR 63.6625(b)(1) through (6).
					Must demonstrate initial compliance with applicable emission limitations, operating limitations, and other requirements in 40 CFR 63.6630(a), and (b).
					Must demonstrate continuous compliance with applicable emission limitations, operating limitations, and other requirements in pursuant to 40 CFR 63.6605, 6635, 6640(a), (b), (d), and (e).
		NOx, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	Must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance in accordance with 40 CFR 60.4244.
EU 02	Reciprocating Internal Combustion Engine #2	Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(ecce)	Emission standard.	According to 40 CFR 63.6600, Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.
					According to 40 CFR 63.6610(a), you must conduct the initial performance tests or other applicable initial compliance demonstrations in Table 4 to subpart ZZZZ within 180 days after the compliance date.
					According to 40 CFR 63.6615 and Table 3 to subpart ZZZZ, you must conduct the subsequent performance tests semiannually if you are complying with the requirement to limit the concentration of formaldehyde.
					Must conduct the performance tests in accordance with 40 CFR 63.6620 to demonstrate compliance with applicable emission standards. You are required to notify the Administrator 60 days prior to the test date and are required to submit a stack test report to the Administrator within 60 days after the completion of the testing.
					According to 40 CFR 63.6625(b) and Table 5 to subpart ZZZZ, if you are required to install a continuous parameter monitoring system (CPMS), you must install, operate, and maintain each CPMS according to the requirements in 40 CFR 63.6625(b)(1) through (6).
					Must demonstrate initial compliance with applicable emission limitations, operating limitations, and other requirements in 40 CFR 63.6630(a), and (b).
					Must demonstrate continuous compliance with applicable emission limitations, operating limitations, and other requirements in pursuant to 40 CFR 63.6605, 6635, 6640(a), (b), (d), and (e).
NOx, CO, VOC 40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eece) Emission standard. Must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first thereafter to demonstrate compliance in accordance with 40 CFR 60.42		NOX, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	Must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance in accordance with 40 CFR 60.424
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EU 03	Reciprocating Internal Combustion Engine #3	Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eece)	Emission standard.	According to 40 CFR 63.6600, Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart. According to 40 CFR 63.6610(a), you must conduct the initial performance tests or other applicable initial compliance demonstrations in Table 4 to subpart ZZZZ within 180 days after the compliance date. According to 40 CFR 63.6615 and Table 3 to subpart ZZZZ, you must conduct the subsequent performance tests semiannually if you are complying with the requirement to limit the concentration of formaldehyde. Must conduct the performance tests in accordance with 40 CFR 63.6620 to demonstrate compliance with applicable emission standards. You are required to notify the Administrator 60 days prior to the test date and are required to submit a stack test report to the Administrator 60 days after the completion of the testing. According to 40 CFR 63.6625(b) and Table 5 to subpart ZZZZ, if you are required to notify the Administrator 60 days prior to the test date and are required to notify the Administrator 60 days prior to the test date and are required to notify the Administrator 60 days prior to the test date and are required to notify the CABC2(b) and Table 5 to subpart ZZZZ, if you are required to CFR 63.6625(b) and Table 5 to subpart ZZZZ, if you are required to CFR 63.6625(b) (1) through (6). Must demonstrate initial compliance with applicable emission limitations, operating limitations, and other requirements in 40 CFR 63.6630(a), and (b). Must demonstrate continuous compliance with applicable emission limitations, operating limitations, and other requirements in pursuant to 40 CFR 63.6605, 6645, 6640(a), (b), (d), and (c).
		NOx, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	Must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance in accordance with 40 CFR 60.4244.
EU 04	Reciprocating Internal Combustion Engine #4	Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Emission standard.	According to 40 CFR 63.6600, Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart. According to 40 CFR 63.6610(a), you must conduct the initial performance tests or other applicable initial compliance demonstrations in Table 4 to subpart ZZZZ, within 180 days after the compliance date. According to 40 CFR 63.6615 and Table 3 to subpart ZZZZ, you must conduct the subsequent performance tests semiannually if you are complying with the requirement to limit the concentration of formaldehyde. Must conduct the performance tests in accordance with 40 CFR 63.6620 to demonstrate compliance with applicable emission standards. You are required to submit a stack test report to the Administrator Within 60 days after the completion of the testing. According to 40 CFR 63.6625(b) and Table 5 to subpart ZZZZ, if you are required to install a continuous parameter monitoring system (CPMS), you must install, operate, and maintain each CPMS according to the requirements in 40 CFR 63.6625(b)(1) through (6). Must demonstrate initial compliance with applicable emission limitations, operating limitations, and other requirements in pursuant to 40
		NOx, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	Must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance in accordance with 40 CFR 60.4244.
EU 05	Dew Point Heater	N/A	40 CFR Part 63 Subpart DDDDD	Performance Testing	Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity of less than or equal to 5 million Btu per hour must complete a tune-up every 5 years as specified in § 63.7540.

Section V.6: Notes, Comments, and Explanations

Gas Engine Emission Summary

Maximum Total Annual Engine Operating Hours, Per Engine Approximate Startup, Shutdown, Maintenance Hours, Per Engine (1) 8760 197.5

Dollutant	Routine Emissions	Startup/Shutdown	Max Annual
Pottutailt	(lb/hr)	Emissions (lb/hr)	Emissions (ton/yr)
PM/PM ₁₀ /PM _{2.5}	3.32	6	14.81
NOx	2.49	27	13.33
VOC	4.98	6	21.91
СО	4.98	26	23.89
SO2	0.19	*	0.39
Lead	0.00	*	0.00
Ammonia	3.18	*	13.95
Formaldehyde, CH2O	0.25	*	1.10
Acetaldehyde, C2H4O	0.53	*	2.32
Acrolein, C3H8O	0.72	*	3.15
Methanol, CH3OH	0.27	*	1.18

Notes:

(1) The approximate number of annual operating hours and hours in startup/shutdown are estimates for a basis of calculation and are not intended to be annual limits for compliance purposes.

(2) The maximum annual emissions per engine are the emissions from one engine if it operates continuously all year long (8,760 hrs). * Startup/Shutdown emission data not available at this time.



Doc. Name	Expected startup and unloading emissions 18V50SG		
Doc. ID	DETA00003582	Revision	4
Doc. Туре	Data Sheet	Pages	1 (2)
Author	Lövholm, Markus - Energy Business	Status	Draft
Reviewed by Approved by	-		

Expected start up and unloading emissions after catalyst system

This document provides engineering estimates on the start-up and unloading emissions for one Wärtsilä[®] 18V50SG-B/D engine equipped with an efficient emission control system. The system includes a selective catalytic reduction system and an oxidation catalyst. The figures are best estimates only and shall not be considered as guarantee data.

The fast start-up of the engine results in varying exhaust gas flow, nonstable temperature, high and low range emission and oxygen levels which make accurate measurement and prediction of emissions very challenging. The flue gas emission estimates herein are based on emission measurement for steady conditions at different loads together with limited measurements performed during startup. A standard catalyst volume loading has been selected and more accurate start up values can be estimated when final project specific catalyst design is known. The emission control performance in a startup situation is based on supplier estimates and laboratory data. The data assumes that the engines will reach full load within 5 minutes and continue operating at full engine load. The unloading time is assumed to be 60 seconds.

Furthermore, to calculate the emissions the following assumptions have been made:

Ambient conditions: 25 °C (77 °F), relative humidity:30%

Insulation: 100mm for exhaust gas duct up until reactor (and after reactor to silencer), reactor 200mm

Layout: exhaust gas ducting is assumed to be normal without extra ducting and silencer before mixing duct



The estimated cumulative start up flue gas emissions with optimized reagent injection are expressed as lb per a start period (30 min) of one (1) Wärtsilä[®] 18V50SG-B/D engine are given for 3 different conditions (see figure 1 above) in the tables 1 and 2 below. The warm startup numbers are given for a restart after 6 and 12 h engine down time. If the engine is expected to have shorter stops the expected emissions will be even lower.

A cold catalyst start is when the temperature of the catalyst material inside the reactor is close to ambient temperature. Cold catalyst starts are expected after overhaul periods or when the engine has not been operated during the last 2-3 days.

The emission control system will reach its full abatement efficiency within 10-30 minutes from the start.

Table 1. Expected flue gas emissions during start up to gas mode:

18V50SG-B/D					
Typical standby time before engine start	unit	NOx (as NO2)	CO	VOC** (as CH4)	PM 10
> 2 days	lb / 30 min	13.5	13	3	3.0
6 hours	lb / 30 min	7	8.5	2.7	3.0
12 hours	lb / 30 min	11	11	2.5	3.0

**The VOC (volatile organic compounds) emissions depend on the composition of the fuel gas. The VOC emissions in table 1 above are based on max 0.5 vol-% VOC components in the feed fuel gas and are NOT including CH2O.

Table 2. Expected unloading emissions:

Components	Unit	18V50SG-B/D
NOx (as NO2)	lb/min	0.045
СО	lb/min	0.085
VOC (as CH4)	lb/min	0.085

Stack emission measurements during start up sequences or heavy transient loads are challenging and the repeatability of startup emission measurement on site is low. The analyzer response time for the gaseous emissions needs special attention. Moreover, the particulate emissions will stay on a theoretical level since the particulates cannot be determinate by an isokinetic sampling reference method.



Doc. Name	Emission data sheet		
	6/6/2024		
Doc. ID	DESA00025696	Revision	а
Doc. Type	Data Sheet	Pages	1 (4)
Author	Raudaskoski, Riitta - Energy Business	Status	Finalized
Opportunity	KYMEA 75MW_4x18V50SG (OP845811) Raudaskoski, Riitta		

This document provides flue gas emissions, i.e. maximum average values for emissions measured over a period of minimum 60 minutes. The emissions are based on the site conditions, gas composition and measurement methods specified in this document.

Engine: Wärtsilä[®] 18V50SG-D, 514 rpm (constant speed), CR 11.5

Site conditions:

Altitude above sea level	400 ft
Ambient temperature	-23/+105 °F
Average relative humidity	71-81 %

Gas composition:

The emissions are valid for following gas composition. It is understood that variations in the gas composition inside this specification will occur and are permitted; however sudden extreme changes in gas temperature, pressure or composition are not allowed.

Methane number:		92		
Methane, min	CH_4	95.700	mol-%	
Ethane, max	C_2H_6	2.268	mol-%	
Propane, max	C_3H_8	0.101	mol-%	Note 1)
i-Butane, max	C_4H_{10}	0.013	mol-%	Note 1)
n-Butane, max	C_4H_{10}	0.010	mol-%	Note 1)
i-Pentane, max	C_5H_{12}	0.004	mol-%	Note 1)
n-Pentane, max	C_5H_{12}	0.002	mol-%	Note 1)
Hexane, max	C_6H_{14}	0.000	mol-%	Note 1)
Heptane and higher hydro carbons,	max	0.005	mol-%	
Nitrogen	N ₂	0.273	mol-%	
Carbon dioxide	CO_2	1.624	mol-%	
Total sulphur, max S		5	mg/kg	

^{Note 1)} VOC emissions in gas operation depend on the composition of the pipeline natural gas. This document includes a table with corrected VOC emissions after the emission control system for natural gas with concentrations of C_3 to C_6 hydrocarbons in excess of the values specified above.



Doc. Name	Emission data sheet		
	6/6/2024		
Doc. ID	DESA00025696	Revision	а
Doc. Туре	Data Sheet	Pages	2 (4)
Author	Raudaskoski, Riitta - Energy Business	Status	Finalized
Opportunity	KYMEA 75MW_4x18V50SG (OP845811) Raudaskoski, Riitta		

Other gas parameters according to Wärtsilä's specification. Aromatic hydrocarbons, silicon based compounds or impurities resulting from the operating and maintenance of the gas delivery systems are not allowed.

Lubricating oil quality according to Wärtsilä specifications for gas engines

SCR reducing agent according to Wärtsilä's specification DBAC197648 (rev d)

Engine load	%	100
NO _X as NO ₂	ppm-v at 15% O ₂ , dry	4.5
СО	ppm-v at 15% O ₂ , dry	15
VOC (NMNEHC) as CH ₄ Note 1)	ppm-v at 15% O ₂ , dry	26
NH ₃	ppm-v at 15% O ₂ , dry	10
CH_2O , formaldehyde	ppm-v at 15% O ₂ , dry	0.7
C_2H_4O , acetaldehyde	ppm-v at 15% O ₂ , dry	1.0
C_3H_8O , acrolein	ppm-v at 15% O ₂ , dry	1.0
CH₃OH, methanol	ppm-v at 15% O ₂ , dry	0.7
PM ₁₀ (total)	mg/Nm ^{3*} at 15 $\%$ O ₂ , dry	12

Flue gas emissions after emission control system² at steady load as 60 min averages:

*mg/Nm³ defined at 0°C and 101.325 kPa (abs.)

Correction based upon the influence of gas composition on VOC emissions:

The VOC concentration of the flue gas in the stack is dependent on the composition of the natural gas. If the concentration = sum of propane + butane + pentane + hexane ($C_3H_8 + C_4H_{10} + C_5H_{12} + C_6H_{14}$) in the pipeline natural gas deviate the values specified in paragraph *"Gas composition"* in this document the VOC emissions shall be corrected according to the table below. In the table the sum of propane + butane + pentane + hexane is denoted C_{GasVOC} .

	VOC guarantee * factor
Concentration of VOC components in feed	Factor for VOC correction
natural gas	
$0 \text{ mol-}\% \leq C_{GasVOC} < 0.50 \text{ mol-}\%$	1
$0.50 \text{ mol-}\% \le C_{GasVOC} < 1.00 \text{ mol-}\%$	1.3
$1.00 \text{ mol-}\% \le C_{GasVOC} < 1.50 \text{ mol-}\%$	1.6

² Minimum allowed engine load equipped with emission control system is 10%



Doc. Name	Emission data sheet		
	6/6/2024		
Doc. ID	DESA00025696	Revision	а
Doc. Туре	Data Sheet	Pages	3 (4)
Author	Raudaskoski, Riitta - Energy Business	Status	Finalized
Opportunity	KYMEA 75MW_4x18V50SG (OP845811) Raudaskoski, Riitta		

Time to reach compliance

The time required to reach compliance with the emission levels specified in this document will depend on operating conditions and on the temperature of the catalyst system at start. Compliance with emission data in this document will for a normal start sequence and under normal conditions be reached within 10 to 30 minutes from start signal.

Measurement methods

Emission data provided in this document is based upon the emission measurement methods listed below.

Emission data assumes that individual compounds identified above the sensitivity limit, but at concentrations below the lower limit of detection are reported as maximum one-half of the daily lower-limit of calibration. Measurements shall be performed so that minimum feasible detection limits are achieved if this is required for determining compliance with emission guarantees.

The flue gas stack emission measurements will be performed at steady operating condition of the engine. Prior to the start of the flue gas emission (stack) measurements, the engine shall have reached steady state operating conditions and the flue gas temperature measured after the emission control system shall be allowed to reach normal operating temperature.

Sufficiently long measurement sampling periods and number of samples shall be taken in order to get statistically representative results. To ensure accurate particulate matter (PM10) emission results of 3 samples are to be collected with a minimum sampling time of 1 hour per sample. Based on the judgement of the measurement consultant, the results of individual samples with abnormally high deviation shall be excluded.

Oxygen (O₂): EPA Method 3A: Determination of Oxygen and Carbon Dioxide Emissions from Stationary Sources.

Nitrogen oxides (NOx): EPA Method 7E: Determination of nitrogen oxides from stationary sources.

Carbon monoxide (CO): EPA Method 10: Determination of carbon monoxide emissions from stationary sources.

Volatile organic compounds (VOC defined as Non Methane Non Ethane Hydrocarbons): EPA Method 18: Measurement of gaseous organic compound emissions by gas chromatography. VOC is calculated as the sum of relevant components, which for a gas engine equipped with a high efficiency catalyst are considered to be: propane, n-butane, n-pentane and n-hexane (only if existing in NG fuel).

PM10 (total): Total PM_{10} is defined as the sum of the particulate matter measured with a combination of EPA 5 and 202 methods

EPA Method 5 (front half): Determination of particulate emissions from stationary sources

EPA Method 202 Determination of condensable particulate matter from stationary sources.





Doc. Name	Emission data sheet		
	6/6/2024		
Doc. ID	DESA00025696	Revision	а
Doc. Туре	Data Sheet	Pages	4 (4)
Author	Raudaskoski, Riitta - Energy Business	Status	Finalized
Opportunity	KYMEA 75MW_4x18V50SG (OP845811) Raudaskoski, Riitta		

Ammonia (NH₃): Bay Area Air Quality Management District (BAAQMD) test Method ST-1B: Ammonia integrated sampling.

Formaldehyde (HCHO): EPA Method 323: Measurement of formaldehyde emissions from natural gas-fired stationary sources-acetyl acetone derivatization method. In case formaldehyde guarantee is exceeded or if significant interference from acetaldehyde is suspected CARB Method 430: Determination of Formaldehyde and Acetaldehyde in Emissions from stationary sources shall be used.

HAP: Measurements shall be performed using method suitable for measuring low levels of specified HAP components. Methods include EPA Method 323: Measurement of formaldehyde emissions from natural gas-fired stationary sources-acetyl acetone derivatization method plus EPA Method 18: Measurement of gaseous organic compound emissions by gas chromatography, adsorption tube procedure only.

Speciated HAPs include formaldehyde, acetaldehyde, acrolein and methanol as identified in USA EPA "National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines: Signed Final Rule" February 2004.

Based upon mutual written consent, evaluation of emission levels can be made using alternative methods.

18V50SG Engine PTE

Parameter	Units	100%	75%
Genset Power Output	kW	18,817	14,113
Genset Heat Rate	Btu/kW-hr (HHV)	8,053	8,263
Exhaust Gas Temperature	°F	757	820
Exhaust Gas Flowrate	scf/min	120,060	99,000
Fuel Burn Rate	Btu/hr	151,535,183	116,618,542
Fuel Burn Rate	MMBtu/hr	151.54	116.62

NAAQS	Emission Factor	EF Units	Hours
PM	0.08	g/kWh	8760.0
PM10	0.08	g/kWh	8760.0
PM2.5	0.08	g/kWh	8760.0
SO2	0.000588	lb/MMBtu	8760.0
NOx	0.06	g/kWh	8760.0
VOC	0.12	g/kWh	8760.0
СО	0.12	g/kWh	8760.0
Pb	0.00	lb/hr	8760.0
Ammonia (NH ₃)	3.18	lb/hr	8760.0
GHG's			
CO ₂	116.9773717	lb/MMBtu	8760.0
CH ₄	0.002204624	lb/MMBtu	8760.0
N ₂ O	0.000220462	lb/MMBtu	8760.0
HAPs	Emission Factor	EF Units	Hours
HAPs Formaldehyde, CH2O	Emission Factor 0.25	EF Units lb/hr	Hours 8760.0
HAPs Formaldehyde, CH2O Acetaldehyde, C2H4O	Emission Factor 0.25 0.53	EF Units lb/hr lb/hr	Hours 8760.0 8760.0
HAPs Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O	Emission Factor 0.25 0.53 0.72	EF Units lb/hr lb/hr lb/hr	Hours 8760.0 8760.0 8760.0
HAPs Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH	Emission Factor 0.25 0.53 0.72 0.27	EF Units lb/hr lb/hr lb/hr lb/hr	Hours 8760.0 8760.0 8760.0 8760.0
HAPs Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride	Emission Factor 0.25 0.53 0.72 0.27 0.0000367	EF Units lb/hr lb/hr lb/hr lb/hr lb/MBtu	Hours 8760.0 8760.0 8760.0 8760.0 8760.0
HAPs Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform	Emission Factor 0.25 0.53 0.72 0.27 0.0000367 0.0000285	EF Units lb/hr lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu	Hours 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0
HAPs Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene	Emission Factor 0.25 0.53 0.72 0.27 0.0000367 0.0000285 0.00044	EF Units lb/hr lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu	Hours 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0
HAPs Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride	Emission Factor 0.25 0.53 0.72 0.27 0.0000367 0.0000285 0.000044 0.0000149	EF Units lb/hr lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	Hours 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0
HAPs Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane (methylene o	Emission Factor 0.25 0.53 0.72 0.27 0.0000367 0.0000285 0.000044 0.0000149 0.00002	EF Units lb/hr lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	Hours 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0
HAPs Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane (methylene o 1,1,2-Trichloroethane	Emission Factor 0.25 0.53 0.72 0.27 0.0000367 0.0000285 0.0000149 0.00002 0.0000318	EF Units lb/hr lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	Hours 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0
HAPs Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane (methylene of 1,1,2-Trichloroethane 1,1,2,2-Tetrachloroethane	Emission Factor 0.25 0.53 0.72 0.27 0.0000367 0.0000285 0.0000149 0.00002 0.0000318 0.00004	EF Units lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	Hours 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0 8760.0
HAPs Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane (methylene of 1,1,2-Trichloroethane 1,1,2,2-Tetrachloroethane Phenanthrene	Emission Factor 0.25 0.53 0.72 0.27 0.0000367 0.0000285 0.0000149 0.0000318 0.00004 0.00004	EF Units lb/hr lb/hr lb/hr lb/hr lb/MMBtu	Hours 8760.0
HAPs Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane (methylene of 1,1,2-Trichloroethane 1,1,2,2-Tetrachloroethane Phenanthrene naphthalene	Emission Factor 0.25 0.53 0.72 0.27 0.0000367 0.0000285 0.000044 0.0000149 0.00002 0.0000318 0.00004 0.00004 0.000044 0.0000744	EF Units lb/hr lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu	Hours 8760.0
HAPs Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane (methylene of 1,1,2-Trichloroethane 1,1,2,2-Tetrachloroethane Phenanthrene naphthalene 2-Methylnaphthalene	Emission Factor 0.25 0.53 0.72 0.27 0.0000367 0.0000285 0.0000149 0.0000318 0.0000318 0.0000104 0.0000144	EF Units lb/hr lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	Hours 8760.0

ethyl benzene	0.0000397	lb/MMBtu	8760.0
styrene	0.0000236	lb/MMBtu	8760.0
Ethylene Dibromide	0.0000443	lb/MMBtu	8760.0
1,3-butadiene	0.000267	lb/MMBtu	8760.0
toluene	0.000408	lb/MMBtu	8760.0
chlorobenzene	0.0000304	lb/MMBtu	8760.0
phenol	0.000024	lb/MMBtu	8760.0
hexane	0.00111	lb/MMBtu	8760.0
2,2,4-Trimethylpentane	0.00025	lb/MMBtu	8760.0
1,3-Dichloropropene	0.0000264	lb/MMBtu	8760.0
xylenes	0.000184	lb/MMBtu	8760.0

* Per Engine. Does not include startup, shutdown emissions.

50 %	40 %	Notes/Source
9,409	7,527	From OEM (Wartsila ISO conditions for 18V50SG)
8,847	8,280	From OEM (Wartsila ISO conditions for 18V50SG)
824	821	From OEM (Wartsila ISO conditions for 18V50SG)
76,380	64,320	From OEM (Wartsila ISO conditions for 18V50SG)
83,244,246	62,321,302	From OEM (Wartsila ISO conditions for 18V50SG)
83.24	62.32	From OEM (Wartsila ISO conditions for 18V50SG)

lb/hr	ton/yr*	Notes/Source
3.32	14.54	PM=PM10=PM2.5
3.32	14.54	From OEM (Wartsila ISO conditions for 18V50SG)
3.32	14.54	PM=PM10=PM2.5
0.09	0.39	AP-42 Table 3.2-2
2.49	10.90	From OEM (Wartsila ISO conditions for 18V50SG)
4.98	21.80	From OEM (Wartsila ISO conditions for 18V50SG)
4.98	21.80	From OEM (Wartsila ISO conditions for 18V50SG)
0.00	0.00	AP-42 Table 3.2-2
3.18	13.95	From OEM (Wartsila ISO conditions for 18V50SG)
17726.2	77640.70	40 CFR 98, subp. C, Table C-1 and C-2
0.3	1.46	40 CFR 98, subp. C, Table C-1 and C-2
0.0	0.15	40 CFR 98, subp. C, Table C-1 and C-2
lb/hr	ton/yr*	Notes/Source
0.25	1.10	From OEM (Wartsila ISO conditions for 18V50SG)
0.53	2.32	From OEM (Wartsila ISO conditions for 18V50SG)
0.72	3.15	From OEM (Wartsila ISO conditions for 18V50SG)
0.27	1.18	From OEM (Wartsila ISO conditions for 18V50SG)
0.006	0.024	AP-42 Table 3.2-2
0.004	0.019	AP-42 Table 3.2-2
0.067	0.292	AP-42 Table 3.2-2
0.002	0.010	AP-42 Table 3.2-2
0.003	0.013	AP-42 Table 3.2-2
0.005	0.021	AP-42 Table 3.2-2
0.006	0.027	AP-42 Table 3.2-2
0.002	0.007	AP-42 Table 3.2-2
0.011	0 0 10	AP-42 Table 3.2-2
0.005	0.045	
0.000	0.043	AP-42 Table 3.2-2

From OEM

NOx	
CO	
VOC	
PM10	

molar volume of air,

hrs. c

calcula

calculate

4 eng

0.006	0.026	AP-42 Table 3.2-2
0.004	0.016	AP-42 Table 3.2-2
0.007	0.029	AP-42 Table 3.2-2
0.040	0.177	AP-42 Table 3.2-2
0.062	0.271	AP-42 Table 3.2-2
0.005	0.020	AP-42 Table 3.2-2
0.004	0.016	AP-42 Table 3.2-2
0.168	0.737	AP-42 Table 3.2-2
0.038	0.166	AP-42 Table 3.2-2
0.004	0.018	AP-42 Table 3.2-2
0.028	0.122	AP-42 Table 3.2-2

g/kWh	g/hr	lb/hr
0.06	1129.02	2.489065
0.12	2258.04	4.97813
0.12	2258.04	4.97813
0.08	1505.36	3.318753

HAP emissions from OEM after catalyst syste

	ppm-v, 15% O2, dry	lb/hr
Formaldehyde	0.7	0.25
Acetaldehyde	1	0.53
Acrolein	1	0.72
Methanol	0.7	0.27

ppmv to lb/hr

constants:

ft ³ /lbmole	385.2 at 68 F, 1 atm

min/hour: 60

	NH3	
ppmv	10.0	From OEM
MW	17.03	
<u>s</u> cfm	120,060	
perated/yr	8760.0	
ited lb/hr =	3.184769	
ed ton/yr =	13.94929	
ines ton/yr	55.79716	

Gas Engine Emission Summary

Maximum Total Annual Engine Operating Hours, Per Engine Approximate Startup, Shutdown, Maintenance Hours, Per Engine (1) 8760 197.5

Bollutant	Routine Emissions	Startup/Shutdown	Max Annual Emissions
Fottutant	(lb/hr)	Emissions (lb/hr)	(ton/yr)**
PM/PM ₁₀ /PM _{2.5}	3.32	6	14.81
NOx	2.49	27	13.33
VOC	4.98	6	21.91
со	4.98	26	23.89
SO2	0.09	*	0.39
Lead	0.00	*	0.00
Ammonia	3.18	*	13.95
Formaldehyde, CH2O	0.25	*	1.10
Acetaldehyde, C2H4O	0.53	*	2.32
Acrolein, C3H8O	0.72	*	3.15
Methanol, CH3OH	0.27	*	1.18

Notes:

(1) The approximate number of annual operating hours and hours in startup/shutdown are estimates for a basis of calculativare not intended to be annual limits for compliance purposes.

(2) The maximum annual emissions per engine are the emissions from one engine if it operates continuously all year long (* Startup/Shutdown emission data not available at this time.

** per engine.



Doc. Name	Emission data sheet - Kymea 18V50SG		
	8/2/2024		
	DES 400025606	Povision	f
DOC. ID	DESA00025090	Revision	1
Doc. Type	Data Sheet	Pages	1 (4)
Author	Linde, Eirik - Energy Business	Status	Finalized
Opportunity			

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This document provides flue gas emissions, i.e. maximum average values for emissions measured over a period of minimum 60 minutes. The emissions are based on the site conditions, gas composition and measurement methods specified in this document.

Engine: Wärtsilä[®] 18V50SG-D, 514 rpm (constant speed), CR 11.5

Site conditions:

Altitude above sea level	400 ft
Ambient temperature	-23/+105 °F
Average relative humidity	71-81 %

Gas composition:

The emissions are valid for following gas composition. It is understood that variations in the gas composition inside this specification will occur and are permitted; however sudden extreme changes in gas temperature, pressure or composition are not allowed.

Methane number:		92		
Methane, min	CH_4	95.700	mol-%	
Ethane, max	C_2H_6	2.268	mol-%	
Propane, max	C_3H_8	0.101	mol-%	Note 1)
i-Butane, max	C_4H_{10}	0.013	mol-%	Note 1)
n-Butane, max	C_4H_{10}	0.010	mol-%	Note 1)
i-Pentane, max	C_5H_{12}	0.004	mol-%	Note 1)
n-Pentane, max	C_5H_{12}	0.002	mol-%	Note 1)
Hexane, max	C_6H_{14}	0.000	mol-%	Note 1)
Heptane and higher hydro carbons, r	max	0.005	mol-%	
Nitrogen	N ₂	0.273	mol-%	
Carbon dioxide	CO_2	1.624	mol-%	
Total sulphur, max S		5	mg/kg	

Other gas parameters according to Wärtsilä's specification. Aromatic hydrocarbons, silicon based compounds or impurities resulting from the operating and maintenance of the gas delivery systems are not allowed.

^{Note 1)} VOC emissions in gas operation depend on the composition of the pipeline natural gas. This document includes a table with corrected VOC emissions after the emission control system for natural gas with concentrations of C_3 to C_6 hydrocarbons in excess of the values specified above.



Doc. Name Emission data sheet - Kymea 18V50SG

8/2/2024

Doc. ID	DESA00025696	Revision	f
Doc. Туре	Data Sheet	Pages	2 (4)
Author	Linde, Eirik - Energy Business	Status	Finalized
Opportunity	KYMEA 75MW_4x18V50SG (OP845811) Lövholm, Markus		

Lubricating oil quality according to Wärtsilä specifications for gas engines

SCR reducing agent according to Wärtsilä's specification DBAC197648 (rev d)

Flue gas emissions after emission control system² at steady load as 60 min averages:

Engine load	100 %	10 % - 100%
NO _X as NO ₂	4.5 ppm-v at 15% O ₂ , dry	2.46 lb/h
СО	15 ppm-v at 15% O ₂ , dry	4.99 lb/h
VOC (NMNEHC) as CH ₄ ^{Note 1)}	26 ppm-v at 15% O_2 , dry	4.95 lb/h
NH ₃	10 ppm-v at 15% O ₂ , dry	2.02 lb/h
CH ₂ O, formaldehyde	0.7 ppm-v at 15% O ₂ , dry	0.25 lb/h
C ₂ H ₄ O, acetaldehyde	1.0 ppm-v at 15% O ₂ , dry	0.48 lb/h
C_3H_8O , acrolein	1.0 ppm-v at 15% O ₂ , dry	0.67 lb/h
CH ₃ OH, methanol	0.7 ppm-v at 15% O ₂ , dry	0.27 lb/h
PM ₁₀ (total)	12 mg/Nm ^{3*} at 15% O ₂ , dry	3.19 lb/h

*mg/Nm³ defined at 0°C and 101.325 kPa (abs.)

Indicative** emissions after emission control system at steady load as 60 min averages:

Engine load	75	50	30	10 %	Unit
NO _X as NO ₂	4.5	6	6	10	ppm-v at 15% O ₂ , dry
СО	15	15	15	15	ppm-v at 15% O ₂ , dry
VOC (NMNEHC) as CH ₄ ^{Note 1)}	26	40	50	140	ppm-v at 15% O ₂ , dry
NH ₃	10	10	10	10	ppm-v at 15% O ₂ , dry
CH ₂ O, formaldehyde	0.9	1.4	2.0	4.2	ppm-v at 15% O ₂ , dry
PM ₁₀ (total)	12	20	24	25	mg/Nm ^{3*} at 15% O ₂ , dry

*mg/Nm³ defined at 0°C and 101.325 kPa (abs.)

**not guaranteed

² Minimum allowed engine load equipped with emission control system is 10%



c. Name	Emission data sheet - Kymea 18V50SG
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8/2/2024

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Doc. ID	DESA00025696	Revision	f
Doc. Туре	Data Sheet	Pages	3 (4)
Author	Linde, Eirik - Energy Business	Status	Finalized
Opportunity	KYMEA 75MW_4x18V50SG (OP845811) Lövholm, Markus		

Correction based upon the influence of gas composition on VOC emissions:

The VOC concentration of the flue gas in the stack is dependent on the composition of the natural gas. If the concentration = sum of propane + butane + pentane + hexane ($C_3H_8 + C_4H_{10} + C_5H_{12} + C_6H_{14}$) in the pipeline natural gas deviate the values specified in paragraph *"Gas composition"* in this document the VOC emissions shall be corrected according to the table below. In the table the sum of propane + butane + pentane + hexane is denoted C_{GasVOC} .

	VOC guarantee * factor
Concentration of VOC components in feed natural gas	Factor for VOC correction
$0 \text{ mol-}\% \leq C_{GasVOC} < 0.50 \text{ mol-}\%$	1
$0.50 \text{ mol-}\% \le C_{GasVOC} < 1.00 \text{ mol-}\%$	1.3
$1.00 \text{ mol-}\% \le C_{GasVOC} < 1.50 \text{ mol-}\%$	1.6

Time to reach compliance

The time required to reach compliance with the emission levels specified in this document will depend on operating conditions and on the temperature of the catalyst system at start. Compliance with emission data in this document will for a normal start sequence and under normal conditions be reached within 10 to 30 minutes from start signal.

Measurement methods

Emission data provided in this document is based upon the emission measurement methods listed below.

Emission data assumes that individual compounds identified above the sensitivity limit, but at concentrations below the lower limit of detection are reported as maximum one-half of the daily lower-limit of calibration. Measurements shall be performed so that minimum feasible detection limits are achieved if this is required for determining compliance with emission guarantees.

The flue gas stack emission measurements will be performed at steady operating condition of the engine. Prior to the start of the flue gas emission (stack) measurements, the engine shall have reached steady state operating conditions and the flue gas temperature measured after the emission control system shall be allowed to reach normal operating temperature.

Sufficiently long measurement sampling periods and number of samples shall be taken in order to get statistically representative results. To ensure accurate particulate matter (PM10) emission results of 3 samples are to be collected with a minimum sampling time of 1 hour per sample. Based on the judgement of the measurement consultant, the results of individual samples with abnormally high deviation shall be excluded.



Doc. Name	Emission data sheet - Kymea 18V50SG		
	8/2/2024		
Doc. ID	DESA00025696	Revision	f
Doc. Type	Data Sheet	Pages	4 (4)
Author	Linde, Eirik - Energy Business	Status	Finalized
Opportunity	KYMEA 75MW_4x18V50SG (OP845811) Lövholm, Markus		

Oxygen (O₂): EPA Method 3A: Determination of Oxygen and Carbon Dioxide Emissions from Stationary Sources.

Nitrogen oxides (NOx): EPA Method 7E: Determination of nitrogen oxides from stationary sources.

Carbon monoxide (CO): EPA Method 10: Determination of carbon monoxide emissions from stationary sources.

Volatile organic compounds (VOC defined as Non Methane Non Ethane Hydrocarbons): EPA Method 18: Measurement of gaseous organic compound emissions by gas chromatography. VOC is calculated as the sum of relevant components, which for a gas engine equipped with a high efficiency catalyst are considered to be: propane, n-butane, n-pentane and n-hexane (only if existing in NG fuel).

PM10 (total): Total PM_{10} is defined as the sum of the particulate matter measured with a combination of EPA 5 and 202 methods

EPA Method 5 (front half): Determination of particulate emissions from stationary sources

EPA Method 202 Determination of condensable particulate matter from stationary sources.

Ammonia (NH₃): Bay Area Air Quality Management District (BAAQMD) test Method ST-1B: Ammonia integrated sampling.

Formaldehyde (HCHO): EPA Method 323: Measurement of formaldehyde emissions from natural gas-fired stationary sources-acetyl acetone derivatization method. In case formaldehyde guarantee is exceeded or if significant interference from acetaldehyde is suspected CARB Method 430: Determination of Formaldehyde and Acetaldehyde in Emissions from stationary sources shall be used.

HAP: Measurements shall be performed using method suitable for measuring low levels of specified HAP components. Methods include EPA Method 323: Measurement of formaldehyde emissions from natural gas-fired stationary sources-acetyl acetone derivatization method plus EPA Method 18: Measurement of gaseous organic compound emissions by gas chromatography, adsorption tube procedure only.

Speciated HAPs include formaldehyde, acetaldehyde, acrolein and methanol as identified in USA EPA "National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines: Signed Final Rule" February 2004.

Based upon mutual written consent, evaluation of emission levels can be made using alternative methods.

Thurman, Kayla (EEC)

From:	James, Jeremy < JamesJeremy@stanleygroup.com>
Sent:	Monday, February 17, 2025 11:05 AM
То:	Thurman, Kayla (EEC)
Subject:	RE: KYMEA Air Permit Calculations Questions
Attachments:	Wartsila 18V50SG Emissions Data.pdf

CAUTION PDF attachments may contain links to malicious sites. Please contact the COT Service Desk ServiceCorrespondence@ky.gov for any assistance.

This Message Originated from Outside the Organization

This Message Is From an External Sender.

Report Suspicious

Hi Kayla,

See attached for the updated emissions data sheet for the engines.

Thanks,



Jeremy James, CHMM, Senior Environmental Scientist STANLEYCONSULTANTS, 100 Court Ave STE 300, Des Moines, IA 50309 T: 515.447.4424 | stanleyconsultants.com

From: Thurman, Kayla (EEC) <kayla.thurman@ky.gov>
Sent: Friday, February 14, 2025 1:12 PM
To: James, Jeremy <JamesJeremy@stanleygroup.com>
Cc: Daniels, Stacie (EEC) <stacie.daniels@ky.gov>
Subject: KYMEA Air Permit Calculations Questions

*** EXTERNAL EMAIL - Use caution and verify authenticity before trusting any contents. ***

Good afternoon,

I am reviewing the provided calculations and have some additional questions:

 When applying the sample calculation provided to convert ammonia's emission rate from ppm-v to lb/hr to other pollutants, the emission rates I obtained is different from those provided in the table. I've attached a screenshot where I included "my" values for each pollutant to show this difference. Was this the same calculation utilized to convert formaldehyde, acetaldehyde, acrolein, and methanol? I ensured that I updated the ppm-v from the manufacturer's data sheet and the molecular weight as appropriate.

			1					
	NH3	C	CH2O	С	2H4O	С	3H40	CH30H
ppmv	10.0		0.7		1.0		1.0	0.7
MW	17.03	3	30.0256	4	44.0522	Ę	56.0632	32.0412
<u>s</u> cfm	120,060	1	120,060	:	120,060		120,060	120,060
ited/yr	8760.0		8760.0		8760.0		8760.0	8760.0
b/hr =	3.184769	0.	393055	0.	823817	1.	048434	0.41944027
n/yr =	13.94929	1	1.72158	;	3.60832	4.	592142	1.837148381
ton/yr	55.79716	6.	886319	14	4.43328	18	3.36857	7.348593522
ppm-v.	15% O2, d	ry	lb/hr		lb/hr			
	0.7	-	0.25		0.3930	55		
	1		0.53		0.	82		
	1		0.72		1.	05		
	0.7		0.27		0.419	44		
	ppmv MW <u>s</u> cfm ted/yr b/hr = n/yr = ton/yr	NH3 ppmv 10.0 MW 17.03 scfm 120,060 ted/yr 8760.0 b/hr 3.184769 n/yr 13.94929 ton/yr 55.79716 ppm-v, 15% O2, d 0.7 1 1 0.7 1	NH3 O ppmv 10.0 MW 17.03 C scfm 120,060 C ted/yr 8760.0 C b/hr 3.184769 0. n/yr 13.94929 C ton/yr 55.79716 6. ppm-v, 15% O2, dry 0.7 1 1 0.7 1	NH3 CH2O ppmv 10.0 0.7 MW 17.03 30.0256 scfm 120,060 120,060 ted/yr 8760.0 8760.0 b/hr 3.184769 0.393055 n/yr 13.94929 1.72158 ton/yr 55.79716 6.886319 ppm-v, 15% O2, dry lb/hr 0.7 0.25 1 0.53 1 0.72 0.7 0.27	NH3 CH20 C ppmv 10.0 0.7 MW 17.03 30.0256 4 scfm 120,060 120,060 120,060 120,060 ted/yr 8760.0 8760.0 3 3 b/hr 3.184769 0.393055 0 3 n/yr 13.94929 1.72158 3 3 ton/yr 55.79716 6.886319 14 ppm-v, 15% O2, dry lb/hr 0.7 0.25 1 0.53 1 0.72 0.7 0.27 0.27	NH3 CH20 C2H40 ppmv 10.0 0.7 1.0 MW 17.03 30.0256 44.0522 scfm 120,060 120,060 120,060 ted/yr 8760.0 8760.0 8760.0 b/hr 3.184769 0.393055 0.823817 n/yr 13.94929 1.72158 3.60832 ton/yr 55.79716 6.886319 14.43328 ppm-v, 15% O2, dry lb/hr lb/hr 0.7 0.25 0.3930 1 0.53 0. 1 0.72 1. 0.7 0.27 0.419	NH3 CH20 C2H40 C ppmv 10.0 0.7 1.0 0 MW 17.03 30.0256 44.0522 9 scfm 120,060 120,060 120,060 120,060 120,060 ted/yr 8760.0 8760.0 8760.0 8760.0 10 b/hr 3.184769 0.393055 0.823817 1. n/yr 13.94929 1.72158 3.60832 4. ton/yr 55.79716 6.886319 14.43328 18 ppm-v, 15% O2, dry lb/hr lb/hr 10/hr 0.7 0.25 0.393055 0.823 1 0.53 0.82 1.05 0.7 0.27 0.41944 1.05	NH3 CH20 C2H40 C3H40 ppmv 10.0 0.7 1.0 1.0 MW 17.03 30.0256 44.0522 56.0632 scfm 120,060 120,060 120,060 120,060 ted/yr 8760.0 8760.0 8760.0 8760.0 b/hr 3.184769 0.393055 0.823817 1.048434 n/yr 13.94929 1.72158 3.60832 4.592142 ton/yr 55.79716 6.886319 14.4328 18.36857 ppm-v, 15% O2, dry lb/hr lb/hr 0.393055 1 0.53 0.82 1 0.53 0.82 1 0.72 1.05 0.7 0.27 0.41944

- 2. On the spreadsheet there is a conversion from g/kWh to lb/hr for NOx, CO, VOC, and PM10. What is the source for the values in g/kWh? The manufacturer sheet provides values for NOx, CO and VOC in ppm-v and PM10 in mg/Nm³. It also appears that utilizing the sample calculation to convert the manufacturer's CO value in ppm-v to lb/hr gives a higher emission rate than the g/kWh provided (7.9 lb/hr compared to 4.98 lb/hr).
- 3. It appears that the g/kWh values for CO, NOx, and VOC were utilized to determine a yearly emission rate in tons/year and with the AP-42 emission factor to calculate a control efficiency for these pollutants. Is that correct?

Thanks, Kayla

Kayla Thurman

Environmental Engineer Technologist II (502)564-5203

Combustion Section Division for Air Quality 300 Sower Blvd Frankfort, KY 40601

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KYMEA Title V Operating Permit Application

Kentucky Municipal Energy Agency (KYMEA) Energy Center I

Madisonville, Kentucky 31825.01

October, 2024

KENTUCKY MUNICIPAL ENERGY AGENCY 1700 EASTPOINT PKWY, SUITE 220 LOUISVILLE, KY 40223



PHONE: (502) 242-5635 FAX: (502) 242-5640 EMAIL: CONTACT@KYMEA.ORG

October 25, 2024

Zachary Bittner Branch Manager Division for Air Quality 300 Sower Boulevard, Second Floor Frankfort, KY 40601

Subject: Initial Title V Operating Permit Application Kentucky Municipal Energy Agency (KYMEA) Energy Center I 1757 AC Slaton Road Madisonville, KY 42431

Dear Mr. Bittner,

The Kentucky Municipal Energy Agency (KYMEA) is a Kentucky Interlocal agency which provides all requirements power to ten participating municipal utilities in Kentucky including Frankfort, Madisonville, Corbin, Providence, Bardwell, Barbourville, Paris, Berea, Falmouth and Benham.

KYMEA desires to construct a natural gas electric generating facility in Madisonville, Kentucky with a capacity of approximately 75 net megawatts. The plant site will be located at 1757 AC Slaton Road in Madisonville, Kentucky.

The project will install a new electric generating unit comprised of four Wärtsilä 18V50SG reciprocating internal combustion engine (RICE) generators. Each RICE generator would have nominal capacity of 18.8 MW. The Project will be designed for both continuous and peaking service with the capability of multiple quick starts and stops per day. Site development is expected to begin in June 2025 with a proposed in-service date for the Project of June 2027. The Project is expected to have an operating life of not less than 30 years.

The enclosed application package contains all required supporting documentation, including:

DEP Forms

- PTE Calculations
- Emission Factor Basis
- Flow Diagram
- Topographic Map

- Equipment Specification Sheets
- Certification of Authority
- Facility Layout Map

DISCOVER THE POWER

KENTUCKY MUNICIPAL ENERGY AGENCY 1700 EASTPOINT PKWY, SUITE 220 LOUISVILLE, KY 40223



PHONE: (502) 242-5635 FAX: (502) 242-5640 EMAIL: CONTACT@KYMEA.ORG

If you have questions relating to this submittal or require additional information, please contact me at (502) 242-5635 or dburesh@kymea.org.

Sincerely,

Buresh

Doug Buresh President/CEO

Kentucky Municipal Energy Agency (KYMEA) Energy Center I KYMEA Title V Operating Permit Application 31825.01

Application Forms



11/2018 DEP7007AI **DEP7007AI Additional Documentation** Division for Air Quality Administrative Information Section AI.1: Source Information 300 Sower Boulevard Additional Documentation attached Section AI.2: Applicant Information Frankfort, KY 40601 (502) 564-3999 Section AI.3: Owner Information Section AI.4: Type of Application Section AI.5: Other Required Information Section AI.6: Signature Block Section AI.7: Notes, Comments, and Explanations Kentucky Municipal Energy Agency (KYMEA) Energy Center I Source Name: KY EIS (AFS) #: 21- New Source **New Source** Permit #: Agency Interest (AI) ID: **New Source** Date: 25-Oct-24 Section AI.1: Source Information 1757 AC Slaton Road Street: **Physical Location** Madisonville Address: County: Hopkins Zip Code: 42431 City: Street or 1700 Eastpoint Parkway, Suite 220 P.O. Box: **Mailing Address:** Louisville City: State: Kentucky Zip Code: 40223 **Standard Coordinates for Source Physical Location** Longitude: (decimal degrees) 87°33'4.00"W Latitude: 37°19'11.04"N (decimal degrees) 221112- Fossil Fuel Electric Power 22- Utilities Primary (NAICS) Category: **Primary NAICS #:** Generation

							Ĩ
Classification (SIC) C	Category:	Electric Services		Primary SIC #:	4911		
Briefly discuss the typ conducted at this site:	pe of business :	Kentucky Municipal Energethers the state of Kentucky.	gy Agency (KYMEA) is a	a joint public agency that serves	the current and future electri	c power and energy rea	quirements of
Description of Area Surrounding Source:	✓ Rural Area☐ Urban Area	Industrial ParkIndustrial Area	Residential AreaCommercial Area	Is any part of the source located on federal land?	☐ Yes ✓ No	Number of Employees:	15
Approximate distance to nearest residence o commercial property	e or : 0.15 m	iles	Property Area:13.	5 Acres	Is this source portable?	☐Yes ☑No	
	What othe	r environmental permit	s or registrations doe	s this source currently hold	or need to obtain in Ken	itucky?	
NPDES/KPDES:	Currently Ho	ld 🗸 Need	N/A				
Solid Waste:	Currently Ho	ld 🗌 Need	☑ N/A				
RCRA:	Currently Ho	old 🗌 Need	✓ N/A				
UST:	Currently Ho	ld 🗌 Need	☑ N/A				
Type of Regulated	Mixed Waste	Generator	Generator		Other:	_	
Waste Activity:	U.S. Importe	r of Hazardous Waste	Transporter	Treatment/Storage/Disposa	l Facility 🗹 N/A	A	

Section AI.2: App	olicant Information						
Applicant Name:	Doug Buresh						
Title: (if individual)	President/CEO						
Mailing Address	Street or P.O. Box:	1700 Eastpoint Parkway					
Maning Address:	City: Louisville		State:	Kentucky	Zip Code:	40223	
Email: (if individual)	dburesh@kymea.org						
Phone:	502-242-5635						
Technical Contact							
Name:	Jeremy James						
Title:	Environmental Consultant						
Mailing Address:	Street or P.O. Box:	100 Court Ave STE 300					
	City: Des Moines		State:	Iowa	Zip Code:	50309	
Email:	jamesjeremy@stanleygroup.	com					
Phone:	515-447-4424						
Air Permit Contact for S	Source						
Name:	Doug Buresh						
Title:	President/CEO						
Mailing Address:	Street or P.O. Box:	1700 Eastpoint Parkway					
	City: Louisville		State:	Kentucky	Zip Code:	40223	
Email:	dburesh@kymea.org						
Phone:	502 242-5635						

Section AI.3: Ov	vner Information				EP7007AI
Owner same	as applicant				
Name:					
Title:					
Mailing Address:	Street or P.O. Box: City:		State:	Zip Code:	
Email:					
Phone:					
List names of owners a	nd officers of the company who h	ave an interest in the com	pany of 5% or more.		
	Name			Position	

Section AI.4: Type	e of Application						
Current Status:	🗌 Title V 🗌 Conditi	ional Major	State-O	rigin	General Permit	Registrat	tion 🗸 None
	Name Change	Initial Reg	istration		Significant Revision	Adminis	trative Permit Amendment
Degregated Actions	Renewal Permit	Revised Registration			Minor Revision	✓ Initial So	ource-wide OperatingPermit
(check all that apply)	502(b)(10)Change	Extension Request			Addition of New Facility	Dertable	Plant Relocation Notice
	Revision	Off Permit	Change		Landfill Alternate Compliance Submittal	Modifica	ation of Existing Facilities
	Ownership Change	Closure					
Requested Status:	J Title V 🗌 Conditi	onal Major	State-O	rigin	PSD NSR	Other	:
Is the source requesting	g a limitation of potentia	l emissions?		[Yes 🗹 No		
Pollutant:		Requested Li	imit:		Pollutant:		Requested Limit:
Particulate Matter					Single HAP		
Uolatile Organic C	Compounds (VOC)				Combined HAPs		
Carbon Monoxide					Air Toxics (40 CFR 68, S	ubpart F)	
Nitrogen Oxides					Carbon Dioxide		
Sulfur Dioxide					Greenhouse Gases (GHG))	
🗌 Lead					Other		
For New Constructi	ion:						
Proposed Start (M	Date of Construction: <i>M/YYYY)</i>	06	6/2025		Proposed Operation Start-Up Date: ((MM/YYYY)	04/2027
For Modifications:							
Proposed Start (M	Date of Modification: (M/YYYY)				Proposed Operation Start-Up Date: ((MM/YYYY)	
Applicant is seeking	coverage under a permit s	hield.	Ves	[Identify any non-applica✓Nosought on a sepa	ble requireme rate attachme	ents for which permit shield is ent to the application.

Indicate the documents attached as part of this application:							
] DEP7007A Indirect Heat Exchangers and Turbines	DEP7007CC Compliance Certification						
DEP7007B Manufacturing or Processing Operations	✓ DEP7007DD Insignificant Activities						
DEP7007C Incinerators and Waste Burners	✓ DEP7007EE Internal Combustion Engines						
DEP7007F Episode Standby Plan	DEP7007FF Secondary Aluminum Processing						
DEP7007J Volatile Liquid Storage	✓ DEP7007GG Control Equipment						
DEP7007K Surface Coating or Printing Operations	DEP7007HH Haul Roads						
DEP7007L Mineral Processes	Confidentiality Claim						
DEP7007M Metal Cleaning Degreasers	Ownership Change Form						
DEP7007N Source Emissions Profile	Secretary of State Certificate						
DEP7007P Perchloroethylene Dry Cleaning Systems	Flowcharts or diagrams depicting process						
DEP7007R Emission Offset Credit	Digital Line Graphs (DLG) files of buldings, roads, etc.						
DEP7007S Service Stations	Site Map						
DEP7007T Metal Plating and Surface Treatment Operations	Map or drawing depicting location of facility						
DEP7007V Applicable Requirements and Compliance Activities	Safety Data Sheet (SDS)						
DEP7007Y Good Engineering Practice and Stack Height Determination	Emergency Response Plan						
DEP7007AA Compliance Schedule for Non-complying Emission Units	Other:						
DEP /00/BB Certified Progress Report							
ection AI.6: Signature Block I, the undersigned, hereby certify under penalty of law, that I am the information submitted in this document and all its attachmen obtaining the information, I certify that the information is on kno significant penalties for submitting false or incomplete information	a responsible official*, and that I have personally examined, and am familiar with ts. Based on my inquiry of those individuals with primary responsibility for owledge and belief, true, accurate, and complete. I am aware that there are on, including the possibility of fine or imprisonment.						
- Dane	10/23/2024						
Authorized Signature	Date						
	President/CEO						
Doug Buresh							
Doug Buresh Type or Printed Name of Signatory	Title of Signatory						

		DEP7007DD					
D	ivision for Air Quality						
	300 Sower Boulevard		Insignificant Activities				
	Frankfort, KY 40601	x Secti	on DD.1: Table of Insignificant Activities				
	(502) 564-3999	x Secti	on DD.2: Signature Block				
		_ <u></u> Secti	on DD.3: Notes, Comments, and Explanations				
Source Name:		Kentucky Municipal Energy	y Agency (KYMEA) Energy Center I				
KY EIS (AFS) #:	21-	New Source					
Permit #:		New Source					
Agency Interest (AI) ID:	New Source					
Date:		10/25/2024					
Section DD 1.	Table of Insignificant Activities						
Section DD.1.	Table of Insignificant Activities						
4T1	· · · · · · · · · · · · · · · · · · ·	1 (74.0) 0 1 1					
*Identify each act	Description of Activity	umber (IA #); for example:	1, 2, 3 etc.				
Activity #	including Rated Canacity	Unique Identifier	Applicable Regulation(s)	Calculated Emissions (ton/yr)			
	menuting Rateu Capacity						
IA 1	Water Heater (20,000 Btu/hr)	Water Heater	Indirect heat exchangers or water heaters rated at 1 million BTU per hour or less actual heat input that use #2 fuel oil, wood, natural gas, LP gas or refinery fuel gas.	PM: 0.0007, PM10: 0.0007, PM2.5: 0.0007, SOx: 0.0001, NOx: 0.0086, VOC: 0.0005, CO: 0.0072, CO2: 10.512, CH4: 0.0002, Hexane: 0.0002			
IA 2	Circuit Breakers/Switchgear (200 lbs)	Circuit Breakers	N/A	Sulfur Hexafluouride: 11.4			
IA 3	Space Heaters (14 Heaters, 1.35 Total MMBtu/hr)	Space Heaters	Indirect heat exchangers or water heaters rated at 1 million BTU per hour or less actual heat input that use #2 fuel oil, wood, natural gas, LP gas or refinery fuel gas.	PM: 0.0441, PM10: 0.0441, PM2.5: 0.0441, SOx: 0.0035, NOx: 0.5795, VOC: 0.0319, CO: 0.4872, CO2: 709.56, CH4: 0.0136, N20: 0.0013, Formaldehyde: 0.0004, Hexane: 0.0002			
IA 4	Maintenance water (Water-glycol) Tank (2,700 Gallons)	Glycol Tank	Storage vessels having less than 10,567 gallons capacity that contain petroleum or organic liquids with a vapor pressure of 1.5 psia or less at storage temperature.	VOC: 0.0001			

	Division for Air Qual]	DED7007EE]				
	UNISION FOR AIR QUAN	ity		DET /VV/EE				Additional Document	ation		
	200 Source Doutoverd	Internal Combustion Engines					_x Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG				
	Sou Sower Boulevard			x Section EE.1: Gene	ral Information			Attach EPA certification of the engine			
	(502) 564-3999			x Section EE.2: Operating Information							
				<u>x</u> Section EE.3: Des	ign Information						
				<u>x</u> Section EE.4: Fue x Section EE.5: Emi	l Information ission Factor Inform	ation					
				\underline{x} Section EE.6: Not	es, Comments, and	Explanations					
	Source Name:	Kentucky Munic	ipal Energy Ag	gency (KYMEA) Energy	Center I						
	RY EIS (AFS) #: Permit #:	New Source									
	Agency Interest (AI) ID:	New Source									
	Date:	10/25/2024									
E.1: Emis	sion Summary										
					I						
Emission Unit #	Emission Unit Name	Control Device ID	Stack ID	Manufacturer	Model Number	Model Year	Date of Manufacture	Proposed/Actual Date of Construction Commencement (MM/YYYY)	Date Reconstructed/ Modified	List Applicable Regulations	
EU 01	Reciprocating Internal Combustion Engine #1	CD 01, CD 02	EP 01	Wartsila	18V50SG	2024	2025	06/2025	N/A	40 CFR Part 63 Subpart ZZZZ, 40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee), 401 KAR 63:002 Section 2(4)(eeee)	
EU 02	Reciprocating Internal Combustion Engine #2	CD 03, CD 04	EP 02	Wartsila	18V50SG	2024	2025	06/2025	N/A	40 CFR Part 63 Subpart ZZZZ, 40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee), 401 KAR 63:002 Section 2(4)(eeee)	
EU 03	Reciprocating Internal Combustion Engine #3	CD 05, CD 06	EP 03	Wartsila	18V50SG	2024	2025	06/2025	N/A	40 CFR Part 63 Subpart ZZZZ, 40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee), 401 KAR 63:002 Section 2(4)(eeee)	
EU 04	Reciprocating Internal Combustion Engine #4	CD 07, CD 08	EP 04	Wartsila	18V50SG	2024	2025	06/2025	N/A	40 CFR Part 63 Subpart ZZZZ, 40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee), 401 KAR 63:002 Section 2(4)(eeee)	
										┨─────┤	
					1						
Section EE.2	2: Operating Information										
--------------------	---	-------------------	--	--------------------------------	---						
Emission Unit #	Engine Purpose (Identify if Non-Emergency, Emergency,Fire/Water Pump, Black-start engine for combustion turbine, Engine Testing)	Hours Operated	Is this engine a rental? <i>(Yes/No)</i>	Rental Time Period (hrs)	Alternate Operating Scenarios (Describe any operating scenarios in which the engine may be used in a different configuration)						
EU 01	Non-emergency	8760	No	N/A	N/A						
EU 02	Non-emergency	8760	No	N/A	N/A						
EU 03	Non-emergency	8760	No	N/A	N/A						
EU 04	Non-emergency	8760	No	N/A	N/A						

Section EE.3: De	sign Information						
Emission Unit #	Engine Type (Identify all that apply: Commercial,	Ignition Type (Identify if either Compression or	Engine Family (Identify all that apply: 2-stroke,	Maximum Engine Power	Maximum Engine Speed	Total Displacement	Number of Cylinders
	Institutional, Stationary, Non-Road)	Spark Ignition)	4-stroke, Rich Burn, Lean Burn)	(bhp)	(rpm)	(L)	Cymruers
EU 01	Stationary	Spark	4-stroke, Lean Burn	25,574	514	2049.9	18
EU 02	Stationary	Spark	4-stroke, Lean Burn	25,574	514	2049.9	18
EU 03	Stationary	Spark	4-stroke, Lean Burn	25,574	514	2049.9	18
EU 04	Stationary	Spark	4-stroke, Lean Burn	25,574	514	2049.9	18

Section EE.4:	Fuel Information								
Emission Unit #	Identify if Primary, Secondary, or Tertiary Fuel	Fuel Type (Identify if Diesel, Gasoline, Natural Gas, Liquefied Petroleum Gas (LPG), Landfill/Digester Gas, or Other)	Fuel Grade	Percent Time Used (%)	Maximum Fuel Consumption (Btu/Hp-hr)	Heat Content (Btu/scf)	Sulfur Content (%)	SCC Code	SCC Units
EU 01	Primary	Natural Gas	130	100	10,791	1,020	0.01	ICE EGU NatGas Recip	20100202
EU 02	Primary	Natural Gas	130	100	10,791	1,020	0.01	ICE EGU NatGas Recip	20100202
EU 03	Primary	Natural Gas	130	100	10,791	1,020	0.01	ICE EGU NatGas Recip	20100202
EU 04	Primary	Natural Gas	130	100	10,791	1,020	0.01	ICE EGU NatGas Recip	20100202

Section EE.5: Emission Factor Information

Emission factors expressed here are based on the potential to emit.

Emission Unit #	Fuel	Pollutant	Emission Factor	Emission Factor Units	Source of Emission Factor
		PM	3.32	lb/hr	Mass Balance
		PM10	0.00999	lb/MMBtu	AP-42 Table 3.2-2
		PM2.5	0.00999	lb/MMBtu	AP-42 Table 3.2-2
		SO2	0.000588	lb/MMBtu	AP-42 Table 3.2-2
		NOx	4.08	lb/MMBtu	AP-42 Table 3.2-2
		VOC	0.118	lb/MMBtu	AP-42 Table 3.2-2
EU 01, EU 02,	Natural Gas	CO	0.317	lb/MMBtu	AP-42 Table 3.2-2
EU 03, EU 04		Pb	0.00	lb/hr	Mass Balance
		NH ₃	3.18	lb/hr	Mass Balance
		Formaldehyde, CH2O	0.0528	lb/MMBtu	AP-42 Table 3.2-2
		CO2	116.9773717	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2
		Nitrous Oxide (N2O)	0.000220462	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2
		Methane (CH4)	0.002204624	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2

	Division for Air Q	uality		DEP7007GG					
								Additiona	
	300 Sower Boulevard			Control Equipm	ient			<u>x</u> Comple	
	Frankfort, KY 40601							<u>x</u> Attach	
	(302) 304-3999							<u>_x</u> Comple	
	Source Name:	Kentucky Mun	icipal Energy Agen	Lucy (KYMEA) Energy (Center I				
	KY EIS (AFS) #:	New Source							
	Permit #:	New Source							
	Agency Interest (AI) ID:	New Source							
	Date:	10/25/2024							
Section GG	G.1: General Information -	Control Equip	oment	T					
Control							Inlet Gas Stream Data Fo		
Device ID #	Control Device Name	Cost	Manufacturer	Model Name/ Serial #	Date Installed	Inlet Gas STemperatureFlowrat(°F)(scfm (a))68 °F)		Average Particle Diameter (µm)	
CD 01	Selective Catalytic Reduction (SCR)	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	
CD 02	Oxidation (CO) Catalyst	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	
CD 03	Selective Catalytic Reduction (SCR)	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	
CD 04	Oxidation (CO) Catalyst	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	
CD 05	Selective Catalytic Reduction (SCR)	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	
CD 06	Oxidation (CO) Catalyst	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	
CD 07	Selective Catalytic Reduction (SCR)	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	
CD 08	Oxidation (CO) Catalyst	Not available	HUG	Not available	Jun-25	1300 +/- 60°F	877	NA	
				* SCR and oxidation	catalyst elements are	installed in same re	eactor. Given pr	essure drop is o	
				**>90% for CO and	CH2O, VOC reduction	on is depending on	feed gas compo	sition. since VC	
							8		

al Documentation

blete Sections GG.1 through GG.12, as applicable

h manufacturer's specifications for each control device

plete DEP7007AI

Inlet Gas Stream Data For Condensers, Adsorbers, <u>All</u>Control Devices Equipment Operational Data For <u>All</u> Control Devices Afterburners, Incinerators, Oxidizers Only **Particle Density Gas Moisture** Pressure Pollutant Gas Density Pollutants *(lb/ft* ³) or **Gas Composition** Fan Type **Drop Range** Content Removal (lb/ft^3) **Collected/Controlled** Specific Gravity (in. H ₂ O) (%) (%) 0.04717 max 16* NOx >90 NA N/A N/A N/A CO, VOC, CH2O 0.04717 NA N/A N/A N/A max 16* >90%** NA max 16* NOx 0.04717 N/A N/A >90 N/A CO, VOC, CH2O 0.04717 >90%** NA N/A N/A N/A max 16* max 16* NA 0.04717 N/A N/A >90 NOx N/A max 16* CO, VOC, CH2O 0.04717 >90%** NA N/A N/A N/A 0.04717 NOx NA N/A N/A N/A max 16* >90 CO, VOC, CH2O max 16* 0.04717 NA N/A >90%** N/A N/A over whole SCR and oxidation catalyst system OC level before catalyst system is proporsional of that

Section GG	.10: Selective Catalytic	Reduction (S	CR) / Selective N	on-catalytic Re	duction (S	SNCR)								
					Design Te	emperature		Reagent				SCR	Only	
Control	Identify all Emission Units	Type		Injection Grid	ື R <i>ຄ</i>	Range		Iniceti	ion Poto	Maximum Design		Cata	alyst	
Device ID #	and Control Devices that	(SCR/SNCR)	Gas Composition	(e.g.	Min	Max	Type	Inject		Ammonia Slip		Volume	Weight	Replacement
	Feed to SCR/SNCR	,		honeycomb)	(°F)	(°F)	- 5 6 -	Min (lb/hr)	Max (lb/hr)	(ppm)	Composition	(ft ³)	(lb)	Schedule
CD 01	EU 01	SCR	Note 3	TBD	540	885	40% Urea	TBD	152	10 ppm at 15 vol-% O ₂	NA	Note 1	Note 1	Note 1, 2
CD 03	EU 02	SCR	Note 3	TBD	540	885	40% Urea	TBD	152	10 ppm at 15 vol-% O ₂	NA	Note 1	Note 1	Note 1, 2
CD 05	EU 03	SCR	Note 3	TBD	540	885	40% Urea	TBD	152	10 ppm at 15 vol-% O ₂	NA	Note 1	Note 1	Note 1, 2
CD 07	EU 04	SCR	Note 3	TBD	540	885	40% Urea	TBD	152	10 ppm at 15 vol-% O ₂	NA	Note 1	Note 1	Note 1, 2
														
Note 1	TBD when data from catalyst su	upplier available											<u> </u>	
Note 2	TBD Guarantee time is 12 mont because that exact lifetime is har	ths after commissi rd to estimate. Ca	ioning, but catalyst lifet talyst performance can	ime is typically much be followed e.g. by a	longer than th nnual emissio	hat. Many parar	neters are affecti and catalyst repl	ing to catalyst of lacement design	element lifetime ned based on ne	(e.g. possible catalyst poisc ed. When data from catalys	ons in feed gas, eng t supplier available	ine operation ter	nperature and	profile etc.) and
Note 3	Exhaust gas compositions at 10	0% engine load at	t site design ambient con	nditions										
	Exhaust day, yol%	1		I _										
	02		vol-%	10.0										<u> </u>
	N2		vol-%	73,0										
	Ar		vol-%	0,870										<u> </u>
	He		vol-%	0									<u> </u>	
	H2O		VOI-%	4,92										
	1120		VOI-70											

Section GG.11: Other Control Equipment

Control Device ID #	Identify all Emission Units and Control Devices that Feed to Control Equipment	Type of Control Equipment (provide description and a diagram with dimensions)
CD 02	EU 01	Oxidation (CO) Catalyst (SCR and oxidation catalyst elements are installed in same reactor. Details can be provided when available from supplier).
CD 04	EU 02	Oxidation (CO) Catalyst (SCR and oxidation catalyst elements are installed in same reactor. Details can be provided when available from supplier).
CD 06	EU 03	Oxidation (CO) Catalyst (SCR and oxidation catalyst elements are installed in same reactor. Details can be provided when available from supplier).
CD 08	EU 04	Oxidation (CO) Catalyst (SCR and oxidation catalyst elements are installed in same reactor. Details can be provided when available from supplier).

			Division fo	or Air Quality]		DEP7007N	
			300 Sower Bo Frankfort, KY	ulevard 40601			Source Emissio	ons
			(502) 564-399	9			<u>X</u> Section N.1: Em	issic
					J		<u>X</u> Section N.2: Sta	ck Ir
							<u>X</u> Section N.3: Fug Section N.4: Notes	gitivo s. Co
	Source Name:	Kentucky Mu	nicipal Energy Ag	gency (KYMEA) Energy Cente	er l			
	Permit #:	New Source						
	Agency Interest (AI) ID:	New Source						
	Date:	10/25/2024						
N.1: Emi	ssion Summary							
		1					Γ	
Emission Unit #	Emission Unit Name	Process ID	Process Name	Control Device Name	Control Device ID	Stack ID	Maximum Design Capacity (SCC Units/hour)	
EU 01	Reciprocating Internal Combustion Engine #1	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 01, CD 02	EP 01	151.54 MMBtu/hr	PMPMPMPMPMPMSOVOCPbNForCCDNForCCDCNCCDCDCDDCDDCDCDDDCDDDDDCDD

s Profile

ion Summary Information ve Information

Comments, and Explanations

Additional Documentation

<u>X</u> Complete DEP7007AI

	Uncontrolled	Uncontrolled	Emission Factor Servers (Capture	Control	Hourly F	Emissions	Annual E	Emissions
Pollutant	Emission Factor	Emission Factor Units	Emission Factor Source (e.g. AP-42, Stack Test, Mass Balance)	Efficiency (%)	Efficiency (%)	Uncontrolled Potential (lb/hr)	Controlled Potential (lb/hr)	Uncontrolled Potential (tons/vr)	Controlled Potential (tons/vr)
	3.32	lb/hr	Mass Balance	-	-	3.3200	3.3200	14.5416	14.5416
0	0.00999	lb/MMBtu	AP-42 Table 3.2-2	-	-	1.5139	1.5139	6.6308	6.6308
2.5	0.00999	lb/MMBtu	AP-42 Table 3.2-2	-	-	1.5139	1.5139	6.6308	6.6308
···-	0.000588	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0891	0.0891	0.3903	0.3903
	4.08	lb/MMBtu	AP-42 Table 3.2-2	100.00%	99.60%	618.2832	2.4891	2708.0804	10.9021
))	0.118	lb/MMBtu	AP-42 Table 3.2-2	100.00%	72.16%	17.8817	4.9781	78.3219	21.8042
	0.317	lb/MMBtu	AP-42 Table 3.2-2	100.00%	89.64%	48.0382	4.9781	210.4072	21.8042
	0.00	lb/hr	Mass Balance	-	-	0.0000	0.0000	0.0000	0.0000
	3.18	lb/hr	Mass Balance	-	-	3.1848	3.1848	13.9493	13.9493
maldehyde, CH2O	0.0528	lb/MMBtu	AP-42 Table 3.2-2	100.00%	96.88%	8.0013	0.2500	35.0457	1.0950
taldehyde, C2H4O	0.00836	lb/MMBtu	AP-42 Table 3.2-2	100.00%	58.16%	1.2669	0.5300	5.5489	2.3214
olein. C3H8O	0.00514	lb/MMBtu	AP-42 Table 3.2-2	100.00%	7.56%	0.7789	0.7200	3.4117	3.1536
hanol. CH3OH	0.0025	lb/MMBtu	AP-42 Table 3.2-2	100.00%	28.73%	0.3789	0.2700	1.6594	1.1826
oon Tetrachloride	0.0000367	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0056	0.0056	0.0244	0.0244
proform	0.0000285	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0043	0.0043	0.0189	0.0189
zene	0.00044	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0667	0.0667	0.2920	0.2920
l chloride	0.0000149	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0023	0.0023	0.0099	0.0099
loromethane	0.00002	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0030	0.0030	0.0133	0.0133
2-Trichloroethane	0.0000318	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0048	0.0048	0.0211	0.0211
2.2-Tetrachloroethane	0.00004	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0061	0.0061	0.0265	0.0265
nanthrene	0.0000104	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0016	0.0016	0.0069	0.0069
hthalene	0.0000744	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0113	0.0113	0.0494	0.0494
ethylnaphthalene	0.0000332	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0050	0.0050	0.0220	0.0220
nenyl	0.000212	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0321	0.0321	0.1407	0.1407
l benzene	0.0000397	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0060	0.0060	0.0264	0.0264
ene	0.0000236	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0036	0.0036	0.0157	0.0157
lene Dibromide	0.0000443	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0067	0.0067	0.0294	0.0294
butadiene	0.000267	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0405	0.0405	0.1772	0.1772
ene	0.000408	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0618	0.0618	0.2708	0.2708
orobenzene	0.0000304	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0046	0.0046	0.0202	0.0202
nol	0.000024	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0036	0.0036	0.0159	0.0159
ane	0.00111	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.1682	0.1682	0.7368	0.7368
4-Trimethylpentane	0.00025	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0379	0.0379	0.1659	0.1659
Dichloropropene	0.0000264	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0040	0.0040	0.0175	0.0175
nes	0.000184	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0279	0.0279	0.1221	0.1221
	116.9773717	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2	-	-	17726.7509	17726.7509	77643.1690	77643.1690
	0.002204624	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2	-	-	0.3341	0.3341	1.4633	1.4633
	0.000220462	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2	-	-	0.0334	0.0334	0.1463	0.1463
	-	-							

								D14						0.0000	0.0000	11 5110	44 5440
								РМ	3.32	lb/hr	Mass Balance	-	-	3.3200	3.3200	14.5416	14.5416
								PM10	0.00999	lb/MMBtu	AP-42 Table 3.2-2	-	-	1.5139	1.5139	6.6308	6.6308
								PM2.5	0.00999	lb/MMBtu	AP-42 Table 3.2-2	-	-	1.5139	1.5139	6.6308	6.6308
								SO2	0.000588	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0891	0.0891	0.3903	0.3903
								NOx	4.08	lb/MMBtu	AP-42 Table 3.2-2	100.00%	99.60%	618.2832	2.4891	2708.0804	10.9021
								VOC	0.118	lb/MMBtu	AP-42 Table 3.2-2	100.00%	72.16%	17.8817	4.9781	78.3219	21.8042
								со	0.317	lb/MMBtu	AP-42 Table 3.2-2	100.00%	89.64%	48.0382	4.9781	210.4072	21.8042
								Pb	0.00	lb/hr	Mass Balance	_	-	0.0000	0.0000	0.0000	0.0000
								NH ₂	3 18	lb/hr	Mass Balance	-	-	3 1848	3 1848	13 9493	13 9493
								Formaldabuda OU2O	0.10			100.000/	00.000/	8 0013	0.2500	35.0457	1 0050
								Formaldenyde, CH2O	0.0528		AP-42 Table 3.2-2	100.00%	96.88%	8.0013	0.2500	35.0457	1.0900
								Acetaldehyde, C2H4O	0.00836	lb/MMBtu	AP-42 Table 3.2-2	100.00%	58.16%	1.2669	0.5300	5.5489	2.3214
								Acrolein, C3H8O	0.00514	lb/MMBtu	AP-42 Table 3.2-2	100.00%	7.56%	0.7789	0.7200	3.4117	3.1536
								Methanol, CH3OH	0.0025	lb/MMBtu	AP-42 Table 3.2-2	100.00%	28.73%	0.3789	0.2700	1.6594	1.1826
								Carbon Tetrachloride	0.0000367	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0056	0.0056	0.0244	0.0244
								chloroform	0.0000285	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0043	0.0043	0.0189	0.0189
								benzene	0.00044	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0667	0.0667	0.2920	0.2920
								vinyl chloride	0.0000149	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0023	0.0023	0.0099	0.0099
								dichloromethane	0.00002	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0030	0.0030	0.0133	0.0133
	Beciprocating Internal			Selective Catalytic				1.1.2-Trichloroethane	0.0000318	lb/MMBtu	AP-42 Table 3 2-2	-	-	0.0048	0.0048	0.0211	0.0211
EU 02	Compustion Engine #2	Process 1	Engines	Reduction (SCR),	CD 03, CD 04	EP 02	151.54 MMBtu/hr	1 1 2 2-Tetrachloroethane	0.00004	Ib/MMBtu	AP-42 Table 3 2-2	_		0.0061	0.0061	0.0265	0.0265
	Combustion Engine #2			Oxidation (CO) Catalyst				Phononthrone	0.00004	lb/MMBtu	AP-42 Table 3.2-2	_		0.0016	0.0016	0.0069	0.0200
									0.0000104			-	-	0.0010	0.0010	0.0009	0.0003
									0.0000744		AP-42 Table 3.2-2	-	-	0.0113	0.0113	0.0494	0.0494
								2-Methylnaphthalene	0.0000332	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0050	0.0050	0.0220	0.0220
								Biphenyl	0.000212	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0321	0.0321	0.1407	0.1407
								ethyl benzene	0.0000397	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0060	0.0060	0.0264	0.0264
								styrene	0.0000236	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0036	0.0036	0.0157	0.0157
								Ethylene Dibromide	0.0000443	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0067	0.0067	0.0294	0.0294
								1,3-butadiene	0.000267	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0405	0.0405	0.1772	0.1772
								toluene	0.000408	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0618	0.0618	0.2708	0.2708
								chlorobenzene	0.0000304	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0046	0.0046	0.0202	0.0202
								phenol	0.000024	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0036	0.0036	0.0159	0.0159
								hevane	0.00111	Ib/MMBtu	AP-42 Table 3 2-2	_		0 1682	0 1682	0 7368	0.7368
								2.2.4 Trimothylpontano	0.00111	tb/MMBtu				0.0379	0.0379	0.1659	0.1659
									0.00025		AP-42 Table 3.2-2	-	-	0.0379	0.0379	0.1059	0.1039
								1,3-Dichloropropene	0.0000264	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0040	0.0040	0.0175	0.0175
								xylenes	0.000184	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0279	0.0279	0.1221	0.1221
								CO ₂	116.9773717	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2	-	-	17726.7509	17726.7509	77643.1690	77643.1690
								CH_4	0.002204624	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2	-	-	0.3341	0.3341	1.4633	1.4633
								N ₂ O	0.000220462	lb/MMBtu	40 CFR 98, subp. C, Table C-1 and C-2	-	-	0.0334	0.0334	0.1463	0.1463
								PM	3.32	lb/hr	Mass Balance	-	-	3.3200	3.3200	14.5416	14.5416
								PM10	0.00999	lb/MMBtu	AP-42 Table 3 2-2	-	-	1.5139	1,5139	6,6308	6,6308
								DM2 E	0.00000	lb/MMBtu	AP 42 Table 3.2-2			1.0100	1.5139	6 6308	6.6308
									n nnuuu i			_	_	1 61 30		0.0000	
								PM2.5	0.00999			-	-	1.5139	0.0901	0.2002	0.0000
								SO2	0.000588	lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2	-	-	0.0891	0.0891	0.3903	0.3903
								SO2 NOx	0.00999 0.000588 4.08	lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2	- - 100.00%	- - 99.60%	0.0891 618.2832	0.0891	0.3903 2708.0804	0.3903
								NOx VOC	0.00999 0.000588 4.08 0.118	lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2	- - 100.00% 100.00%	- - 99.60% 72.16%	1.5139 0.0891 618.2832 17.8817	0.0891 2.4891 4.9781	0.3903 2708.0804 78.3219	0.3903 10.9021 21.8042
								NOX VOC CO	0.00999 0.000588 4.08 0.118 0.317	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2	- - 100.00% 100.00%	- 99.60% 72.16% 89.64%	1.5139 0.0891 618.2832 17.8817 48.0382	0.0891 2.4891 4.9781 4.9781	0.3903 2708.0804 78.3219 210.4072	0.3903 10.9021 21.8042 21.8042
								NOX VOC CO Pb	0.00999 0.000588 4.08 0.118 0.317 0.00	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 Mass Balance	- - 100.00% 100.00% -	- 99.60% 72.16% 89.64% -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000	0.0891 2.4891 4.9781 4.9781 0.0000	0.3903 2708.0804 78.3219 210.4072 0.0000	0.3903 10.9021 21.8042 21.8042 0.0000
								NOX VOC CO Pb NH ₃	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 Mass Balance Mass Balance	- 100.00% 100.00% - - -	- 99.60% 72.16% 89.64% -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848	0.0891 2.4891 4.9781 4.9781 0.0000 3.1848	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493	0.3903 10.9021 21.8042 21.8042 0.0000 13.9493
								SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2	- 100.00% 100.00% - - 100.00%	- 99.60% 72.16% 89.64% - - 96.88%	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013	0.0891 2.4891 4.9781 4.9781 0.0000 3.1848 0.2500	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457	0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950
								SO2 NOX VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/MBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 AP-42 Table 3.2-2	- 100.00% 100.00% - - - 100.00%	- 99.60% 72.16% 89.64% - - 96.88% 58.16%	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669	0.0891 2.4891 4.9781 4.9781 0.0000 3.1848 0.2500 0.5300	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489	0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214
								SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2	- 100.00% 100.00% 100.00% - - 100.00% 100.00%	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56%	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789	0.0891 2.4891 4.9781 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117	0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536
								SO2 NOX VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2	- 100.00% 100.00% 100.00% - - 100.00% 100.00% 100.00%	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73%	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789	0.0891 2.4891 4.9781 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594	0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826
								PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.000367	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2	- 100.00% 100.00% 100.00% - - 100.00% 100.00% 100.00%	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 58.16% 28.73%	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056	0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244	0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244
								SO2 SO2 NOX VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.0000367	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2	- 100.00% 100.00% 100.00% - - 100.00% 100.00% 100.00% - -	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043	0.0891 2.4891 4.9781 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189	0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189
								PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzono	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.0000285 0.00044	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 AP-42 Table 3.2-2	- 100.00% 100.00% 100.00% - - 100.00% 100.00% 100.00% - - -	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667	0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.0667	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2020	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920
								PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinul oblarida	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.0000285 0.00044	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2	- 100.00% 100.00% 100.00% - - 100.00% 100.00% 100.00% - - - - -	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0023	0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.0667 0.0023	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0000	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0000
								PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.0000285 0.000044 0.0000149	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2	- 100.00% 100.00% 100.00% - - 100.00% 100.00% 100.00% 100.00% - - - - -	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0023 0.0023	0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.0667 0.0023	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0122	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0422
				Selective Catalytic				PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.0000285 0.000044 0.0000149 0.00002	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2	- 100.00% 100.00% 100.00% - - 100.00% 100.00% 100.00% 100.00% - - - - - -	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0023 0.0030	1.3133 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.0667 0.0023 0.0030	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.2011
FU 03	Reciprocating Internal	Process 1	Engines	Selective Catalytic Reduction (SCR).	CD 05. CD 06	EP 03	151.54 MMBtu/hr	PM2.5SO2NOxVOCCOPbNH3Formaldehyde, CH2OAcetaldehyde, C2H4OAcrolein, C3H8OMethanol, CH3OHCarbon Tetrachloridechloroformbenzenevinyl chloridedichloromethane1,1,2-Trichloroethane	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.0000285 0.000044 0.0000149 0.00002 0.0000318	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2	- 100.00% 100.00% 100.00% - - 100.00% 100.00% 100.00% - - - - - - - - - - -	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0023 0.0030 0.0048	0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.0667 0.0030 0.0048	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5SO2NOxVOCCOPbNH3Formaldehyde, CH2OAcetaldehyde, C2H4OAcrolein, C3H8OMethanol, CH3OHCarbon Tetrachloridechloroformbenzenevinyl chloridedichloromethane1,1,2-Trichloroethane1,1,2,2-Tetrachloroethane	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.0000285 0.000044 0.0000149 0.00002 0.0000318 0.00004	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance Mass Balance AP-42 Table 3.2-2	- 100.00% 100.00% 100.00% - - 100.00% 100.00% 100.00% 100.00% - - - - - - - - - - - - - - - - - -	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 58.16% 28.73% 28.73% - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0023 0.0048 0.0061	0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.0023 0.0030 0.0048 0.0061	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5SO2NOxVOCCOPbNH3Formaldehyde, CH2OAcetaldehyde, C2H4OAcrolein, C3H8OMethanol, CH3OHCarbon Tetrachloridechloroformbenzenevinyl chloridedichloromethane1,1,2-Trichloroethane1,1,2,2-TetrachloroethanePhenanthrene	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.0000285 0.000044 0.0000149 0.00002 0.0000318 0.00004 0.00004 0.0000104	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance Mass Balance AP-42 Table 3.2-2	- 100.00% 100.00% 100.00% - 100.00% 100.00% 100.00% 100.00% -	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0030 0.0048 0.0061 0.0016	1.3133 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.0667 0.0030 0.0048 0.0061 0.0016	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane 1,1,2.7-Trichloroethane 1,1,2,2-Tetrachloroethane Phenanthrene naphthalene	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.0000285 0.000044 0.0000149 0.00002 0.0000318 0.00004 0.00004 0.0000744	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance Mass Balance AP-42 Table 3.2-2	- 100.00% 100.00% 100.00% - - 100.00% 100.00% 100.00% 100.00% - - - - - - - - - - - - - - - - - -	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 58.16% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0023 0.0030 0.0048 0.0061 0.0016 0.0113	1.3133 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.00667 0.0023 0.0048 0.0061 0.0016 0.0113	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5SO2NOxVOCCOPbNH3Formaldehyde, CH2OAcetaldehyde, C2H4OAcrolein, C3H8OMethanol, CH3OHCarbon Tetrachloridechloroformbenzenevinyl chloridedichloromethane1,1,2-Trichloroethane1,1,2,2-TetrachloroethanePhenanthrenenaphthalene2-Methylnaphthalene	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.0000285 0.000044 0.0000149 0.00002 0.0000318 0.00004 0.00004 0.0000744 0.0000332	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 AP-42 Table 3.2-2 <td>- 100.00% 100.00% 100.00% - - 100.00% 100.00% 100.00% 100.00% - - - - - - - - - - - - - - - - - -</td> <td>- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% - - - - - - - - - - - - - - - - - - -</td> <td>1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0030 0.0048 0.0061 0.0016 0.0113 0.0050</td> <td>1.3133 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.0667 0.0023 0.0048 0.0061 0.0016 0.0113 0.0050</td> <td>0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220</td> <td>0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220</td>	- 100.00% 100.00% 100.00% - - 100.00% 100.00% 100.00% 100.00% - - - - - - - - - - - - - - - - - -	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0030 0.0048 0.0061 0.0016 0.0113 0.0050	1.3133 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.0667 0.0023 0.0048 0.0061 0.0016 0.0113 0.0050	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane 1,1,2.7-Trichloroethane 1,1,2,2-Tetrachloroethane Phenanthrene naphthalene 2-Methylnaphthalene Biphenyl	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.0000285 0.000044 0.0000149 0.00002 0.0000318 0.0000104 0.0000744 0.0000332 0.000212	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance Mass Balance AP-42 Table 3.2-2	- 100.00% 100.00% 100.00% - - 100.00% 100.00% 100.00% 100.00% - - - - - - - - - - - - - - - - - -	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 58.16% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0023 0.0030 0.0048 0.0061 0.0016 0.0113 0.0050 0.0321	1.3133 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.00667 0.0030 0.0048 0.0061 0.0016 0.0113 0.0050 0.0321	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane 1,1,2-Trichloroethane 1,1,2,2-Tetrachloroethane Phenanthrene naphthalene 2-Methylnaphthalene Biphenyl ethyl benzene	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.0000285 0.000044 0.0000285 0.000044 0.0000285 0.0000318 0.0000318 0.0000318 0.00004 0.0000318 0.0000312 0.0000397	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance Mass Balance AP-42 Table 3.2-2 AP	- 100.00% 100.00% 100.00% - 100.00% 100.00% 100.00% 100.00% -	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0023 0.0030 0.0048 0.0061 0.0016 0.0113 0.0050 0.0321 0.0060	0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.0056 0.0043 0.00667 0.0030 0.0048 0.0061 0.0016 0.0113 0.0050 0.0321 0.0060	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264	0.0300 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane 1,1,2,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Phenanthrene naphthalene 2-Methylnaphthalene Biphenyl ethyl benzene styrene	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.0000285 0.000044 0.0000149 0.0000285 0.0000149 0.00002 0.0000318 0.0000318 0.00004 0.0000744 0.0000744 0.0000322 0.0000212 0.0000397 0.0000236	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance Mass Balance AP-42 Table 3.2-2 AP	- 100.00% 100.00% 100.00% - 100.00% 10	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 58.16% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0023 0.0030 0.0048 0.0061 0.0016 0.0113 0.0050 0.0321 0.0060	1.0100 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.0056 0.0043 0.00667 0.0023 0.0048 0.0061 0.0016 0.0113 0.0050 0.0321 0.0036	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157	0.0300 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0264 0.0157
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acetaldehyde, C2H4O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane 1,1,2-Trichloroethane 1,1,2,2-Tetrachloroethane Phenanthrene naphthalene 2-Methylnaphthalene Biphenyl ethyl benzene styrene Ethylene Dibromide	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.000367 0.0000367 0.0000285 0.000044 0.0000149 0.00002 0.0000318 0.000044 0.0000318 0.000044 0.0000332 0.0000212 0.0000397 0.0000236 0.0000243	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 <	- 100.00% 100.00% 100.00% - 100.00% 100.00% 100.00% 100.00% -	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% - 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0023 0.0030 0.0048 0.0061 0.0016 0.0113 0.0050 0.0321 0.0060 0.0036 0.0036	1.3133 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.0056 0.0043 0.0667 0.0023 0.0048 0.0016 0.0016 0.0050 0.0321 0.0036 0.0036	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294	0.0300 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane 1,1,2-Trichloroethane 1,1,2,2-Tetrachloroethane Phenanthrene naphthalene 2-Methylnaphthalene Biphenyl ethyl benzene styrene Ethylene Dibromide 1, 3-butadiene	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.00025 0.0000367 0.0000285 0.000044 0.0000149 0.0000285 0.0000149 0.0000212 0.0000318 0.000044 0.0000744 0.0000744 0.0000744 0.0000332 0.0000212 0.0000236 0.0000243 0.0000243	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu	AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 AP-42 Table 3.2-2 Mass Balance Mass Balance Mass Balance AP-42 Table 3.2-2 AP	- 100.00% 100.00% 100.00% - 100.00%	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0023 0.0030 0.0048 0.0016 0.0013 0.0050 0.0050 0.0050 0.0050 0.00321 0.0067 0.0036 0.0036 0.0067	1.0103 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.0056 0.0043 0.00667 0.0023 0.0048 0.0048 0.0050 0.0016 0.0050 0.0321 0.0067 0.0036 0.0036 0.0067	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294 0.1772	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294 0.1772
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane 1,1,2-Trichloroethane 1,1,2,2-Tetrachloroethane Phenanthrene naphthalene 2-Methylnaphthalene Biphenyl ethyl benzene styrene Ethylene Dibromide 1,3-butadiene tolueno	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.000367 0.0000285 0.000044 0.0000149 0.00002 0.0000212 0.0000318 0.0000318 0.000044 0.000032 0.0000212 0.0000397 0.0000236 0.0000267	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 <	- 100.00%	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.00667 0.0023 0.0030 0.0048 0.0061 0.0016 0.00131 0.0050 0.00321 0.0060 0.0036 0.0067 0.00405	1.0100 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.0056 0.0043 0.0667 0.0023 0.0048 0.0061 0.0016 0.001321 0.0050 0.0036 0.0036 0.0036 0.00405	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294 0.1772 0.2709	0.0300 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294 0.1772 0.2709
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane 1,1,2.7Trichloroethane 1,1,2.2-Tetrachloroethane Phenanthrene naphthalene 2-Methylnaphthalene Biphenyl ethyl benzene styrene Ethylene Dibromide 1,3-butadiene toluene ablers here and	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.000514 0.00025 0.0000367 0.0000285 0.000044 0.0000149 0.0000285 0.0000285 0.0000212 0.0000318 0.000044 0.0000744 0.0000744 0.0000744 0.0000744 0.0000332 0.0000212 0.0000236 0.0000267 0.0000408 0.0000408	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 <	- 100.00% 100.00% 100.00% - 100.00%	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.00667 0.0030 0.0048 0.0016 0.0013 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0067 0.0067 0.0067 0.0050 0.0050 0.0061 0.0067 0.00405 0.0618	1.0103 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.00667 0.0023 0.0048 0.0016 0.001321 0.0050 0.0036 0.0067 0.0050 0.0050	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.0494 0.0220 0.1407 0.0264 0.0220 0.1407 0.0264 0.0294 0.0294 0.0294 0.1772 0.2708 0.0202	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0220 0.1407 0.0264 0.0220 0.1407 0.0264 0.0220 0.1407 0.0264 0.0220 0.1407 0.0264 0.0294 0.0157 0.0294 0.1772 0.2708 0.0202
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5 SO2 NOx VOC CO Pb NH ₃ Formaldehyde, CH2O Acetaldehyde, C2H4O Acrolein, C3H8O Methanol, CH3OH Carbon Tetrachloride chloroform benzene vinyl chloride dichloromethane 1,1,2.7-Trichloroethane 1,1,2.2-Tetrachloroethane Phenanthrene naphthalene 2-Methylnaphthalene Biphenyl ethyl benzene styrene Ethylene Dibromide 1,3-butadiene toluene chlorobenzene	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00514 0.00514 0.0025 0.0000367 0.0000285 0.000044 0.0000149 0.00002 0.0000318 0.00004 0.0000318 0.00004 0.0000744 0.0000744 0.0000744 0.0000744 0.000032 0.0000212 0.0000397 0.0000236 0.0000267 0.0000267 0.0000304	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance Mass Balance AP-42 Table 3.2-2 AP	- 100.00% 100.00% 100.00% - 100.00%	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 58.16% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.00667 0.0023 0.0043 0.0043 0.0043 0.0056 0.0030 0.0043 0.0056 0.0050 0.0030 0.0048 0.0050 0.0050 0.0050 0.0050 0.00321 0.0060 0.0067 0.00405 0.00405 0.0046	1.0100 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.0056 0.0043 0.00667 0.0030 0.0043 0.0056 0.0030 0.0056 0.0030 0.0056 0.0030 0.0050 0.0048 0.0061 0.0050 0.00321 0.0050 0.0036 0.0067 0.00405 0.0048	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0291 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0264 0.0157 0.0294 0.1772 0.2708 0.0202	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294 0.1772 0.2708 0.0202 0.0202
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5SO2NOxVOCCOPbNH3Formaldehyde, CH2OAcetaldehyde, C2H4OAcrolein, C3H8OMethanol, CH3OHCarbon Tetrachloridechloroformbenzenevinyl chloridedichloromethane1,1,2,2-Tetrachloroethane1,1,2,2-TetrachloroethanePhenanthrenenaphthalene2-MethylnaphthaleneBiphenylethyl benzenestyreneEthylene Dibromide1,3-butadienetoluenechlorobenzenephenol	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.000367 0.0000367 0.0000285 0.000044 0.0000149 0.00002 0.0000212 0.0000318 0.0000318 0.000044 0.0000744 0.0000744 0.0000332 0.0000397 0.0000236 0.0000267 0.000024	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance MAP-42 Table 3.2-2 AP-42 Table 3.2-2	- 100.00% 100.00% 100.00% - 100.00%	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0023 0.0048 0.0048 0.0016 0.0013 0.0050 0.0050 0.0050 0.0050 0.0050 0.0036 0.0067 0.00405 0.0061	1.0103 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.00667 0.0023 0.0048 0.0016 0.0013 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0067 0.0060 0.0050 0.0050 0.00405 0.00405 0.0046 0.0036	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.0494 0.0255 0.00294 0.0257 0.0294 0.0257 0.0294 0.0257 0.0294 0.0257 0.0294 0.0257 0.0294 0.0257 0.025	0.0300 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.0494 0.0220 0.1407 0.0264 0.0220 0.1407 0.0264 0.0220 0.1407 0.0264 0.0220 0.1407 0.0264 0.0220 0.1407 0.0264 0.0220 0.1772 0.2708 0.0202 0.0159
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5SO2NOxVOCCOPbNH3Formaldehyde, CH2OAcetaldehyde, C2H4OAcrolein, C3H8OMethanol, CH3OHCarbon Tetrachloridechloroformbenzenevinyl chloridedichloromethane1,1,2,2-Tetrachloroethane1,1,2,2-TetrachloroethanePhenanthrenenaphthalene2-MethylnaphthaleneBiphenylethyl benzenestyreneEthylene Dibromide1,3-butadienetoluenechlorobenzenephenolhexane	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.0000285 0.000044 0.0000149 0.0000285 0.0000149 0.0000285 0.0000149 0.0000212 0.0000318 0.0000744 0.0000744 0.0000744 0.0000744 0.0000212 0.0000397 0.0000236 0.0000267 0.000024 0.000024 0.000024 0.000024 0.000111	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance MAP-42 Table 3.2-2 AP-42 Table 3.2-2	- 100.00% 100.00% 100.00% - 100.00%	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 58.16% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.00667 0.0023 0.0043 0.0043 0.0061 0.0048 0.0048 0.0050 0.0048 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.00321 0.0060 0.0036 0.00405 0.0046 0.0036 0.0036	1.3133 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.00667 0.0030 0.0043 0.0056 0.0030 0.0043 0.0056 0.0030 0.0043 0.0050 0.0048 0.0050 0.0016 0.001321 0.0060 0.0036 0.00405 0.0046 0.0036 0.0036 0.0036	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294 0.1772 0.2708 0.0202 0.0159 0.7368	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294 0.1772 0.2708 0.0202 0.0159 0.7368
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5SO2NOxVOCCOPbNH3Formaldehyde, CH2OAcetaldehyde, C2H4OAcrolein, C3H8OMethanol, CH3OHCarbon Tetrachloridechloroformbenzenevinyl chloridedichloromethane1,1,2,2-Tetrachloroethane1,1,2,2-TetrachloroethanePhenanthrenenaphthalene2-MethylnaphthaleneBiphenylethyl benzenestyreneEthylene Dibromide1,3-butadienetoluenechlorobenzenephenolhexane2,2,4-Trimethylpentane	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.000367 0.0000285 0.0000149 0.00002 0.0000318 0.00004 0.000032 0.0000318 0.000032 0.000034 0.0000397 0.0000267 0.0000267 0.0000304 0.0000304 0.000024 0.000111 0.00025	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 <	- 100.00% 100.00% 100.00% - 100.00%	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.0667 0.0023 0.0048 0.0048 0.0061 0.0050 0.0321 0.0060 0.0036 0.00405 0.00405 0.00405 0.00405 0.00405 0.00405 0.0036 0.0036 0.0036 0.0036 0.0036 0.0036 0.0036	1.0103 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.00667 0.0023 0.0043 0.0043 0.0050 0.0030 0.0048 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0061 0.0067 0.0067 0.00405 0.00405 0.00405 0.0046 0.0036 0.1682 0.0379	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.0494 0.0255 0.00294 0.0257 0.0294 0.02708 0.02708 0.0202 0.0159 0.7368 0.1659	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294 0.1772 0.2708 0.0202 0.0159 0.7368 0.1659
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5SO2NOxVOCCOPbNH3Formaldehyde, CH2OAcetaldehyde, C2H4OAcrolein, C3H8OMethanol, CH3OHCarbon Tetrachloridechloroformbenzenevinyl chloridedichloromethane1,1,2,2-Tetrachloroethane1,1,2,2-TetrachloroethanePhenanthrenenaphthalene2-MethylnaphthaleneBiphenylethyl benzenestyreneEthylene Dibromide1,3-butadienetoluenechlorobenzenephenolhexane2,2,4-Trimethylpentane1,3-Dichloropropene	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000367 0.000044 0.0000149 0.0000149 0.0000318 0.000032 0.0000318 0.000032 0.000034 0.000032 0.000034 0.000034 0.0000236 0.000024 0.000024 0.000024 0.000024 0.000111 0.00025 0.000264	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 <	- 100.00% 100.	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 58.16% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.00667 0.0023 0.0030 0.0048 0.0043 0.0050 0.0048 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0040 0.0040 0.0040	1.0100 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.0056 0.0043 0.00667 0.0030 0.0043 0.0056 0.0030 0.0043 0.0056 0.0030 0.0043 0.0050 0.0031 0.0050 0.0050 0.0050 0.0050 0.0050 0.0048 0.0050 0.0050 0.0050 0.0046 0.00405 0.0046 0.0036 0.0036 0.1682 0.0379 0.0040	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294 0.1772 0.2708 0.0202 0.0159 0.7368 0.1659 0.0175	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294 0.1772 0.2708 0.0202 0.0159 0.7368 0.1659 0.0175
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5SO2NOxVOCCOPbNH3Formaldehyde, CH2OAcetaldehyde, C2H4OAcrolein, C3H8OMethanol, CH3OHCarbon Tetrachloridechloroformbenzenevinyl chloridedichloromethane1,1,2-Trichloroethane1,1,2,2-Tetrachloroethane1,1,2,2-TetrachloroethanePhenanthrenenaphthalene2-MethylnaphthaleneBiphenylethyl benzenestyreneEthylene Dibromide1,3-butadienetoluenechlorobenzenephenolhexane2,2,4-Trimethylpentane1,3-Dichloropropenexylenes	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.00025 0.0000285 0.0000149 0.00002 0.0000149 0.00002 0.0000318 0.0000104 0.000032 0.0000318 0.000032 0.0000318 0.000032 0.0000332 0.000024 0.0000257 0.0000267 0.0000304 0.0000304 0.000025 0.000111 0.00025 0.0000264 0.000184	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 <	- 100.00% 100.	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.00667 0.0023 0.0048 0.0048 0.0050 0.0016 0.0017 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0040 0.00405 0.00405 0.00405 0.0036 0.00379 0.0040 0.0279	1.3133 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.00667 0.0023 0.0048 0.0016 0.00130 0.0048 0.0050 0.0048 0.0050 0.0048 0.0050 0.0050 0.0050 0.0050 0.0050 0.0036 0.00405 0.00405 0.00405 0.0036 0.1682 0.0040 0.0279	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.02920 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.0494 0.0220 0.1407 0.0264 0.0220 0.1407 0.0264 0.0157 0.0294 0.1772 0.2708 0.0202 0.0159 0.7368 0.1659 0.0175 0.1221	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294 0.1772 0.2708 0.0202 0.0159 0.7368 0.1659 0.0175
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5SO2NOxVOCCOPbNH3Formaldehyde, CH2OAcetaldehyde, C2H4OAcrolein, C3H8OMethanol, CH3OHCarbon Tetrachloridechloroformbenzenevinyl chloridedichloromethane1,1,2,2-Tetrachloroethane1,1,2,2-TetrachloroethanePhenanthrenenaphthalene2-MethylnaphthaleneBiphenylethyl benzenestyreneEthylene Dibromide1,3-butadienetoluenechlorobenzenephenolhexane2,2,4-Trimethylpentane1,3-DichloropropenexylenesCO2	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.00025 0.0000367 0.000044 0.0000149 0.0000318 0.0000318 0.0000318 0.0000318 0.0000318 0.0000318 0.000034 0.000034 0.0000397 0.0000236 0.000024 0.000024 0.000024 0.000024 0.000111 0.00025 0.0000264 0.000184 116.9773717	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 <	- 100.00% 100.	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 58.16% 28.73% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.00667 0.0023 0.0043 0.0048 0.00050 0.0016 0.001321 0.0050 0.0321 0.0067 0.0050 0.0321 0.0050 0.0036 0.00405 0.00405 0.00405 0.0036 0.00379 0.0040 0.0279 17726.7509	1.3133 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.0067 0.0030 0.0043 0.0056 0.0043 0.0056 0.0023 0.0050 0.0043 0.0050 0.0048 0.0050 0.0048 0.0050 0.0048 0.0050 0.0040 0.0050 0.00321 0.0067 0.00405 0.00405 0.00405 0.00405 0.0036 0.1682 0.0379 0.0040 0.0279 17726.7509	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294 0.1772 0.2708 0.0202 0.0159 0.7368 0.1659 0.0175 0.1221	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294 0.1772 0.2708 0.0202 0.0159 0.7368 0.1659 0.0175 0.1221 77643.1690
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5SO2NOxVOCCOPbNH3Formaldehyde, CH2OAcetaldehyde, C2H4OAcrolein, C3H8OMethanol, CH3OHCarbon Tetrachloridechloroformbenzenevinyl chloridedichloromethane1,1,2-Trichloroethane1,1,2,2-TetrachloroethanePhenanthrenenaphthalene2-MethylnaphthaleneBiphenylethyl benzenestyreneEthylene Dibromide1,3-butadienetoluenechlorobenzenephenolhexane2,2,4-Trimethylpentane1,3-DichloropropenexylenesCO2CH4	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.0025 0.0000285 0.0000149 0.0000149 0.0000149 0.0000144 0.0000318 0.000032 0.000032 0.0000332 0.0000332 0.000034 0.0000397 0.0000267 0.0000304 0.0000304 0.0000267 0.0000304 0.0000304 0.000111 0.00025 0.0000264 0.000184 116.9773717 0.002204624	lb/MMBtu lb/MMBtu lb/MMBtu lb/MMBtu lb/hr lb/hr lb/hr lb/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 <	- 100.00%	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.00667 0.0023 0.0048 0.0048 0.0050 0.0016 0.0017 0.0050 0.00321 0.00607 0.00405 0.00405 0.00405 0.00405 0.00405 0.00405 0.00405 0.00405 0.0036 0.00379 0.0040 0.0279 17726.7509 0.3341	1.3133 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.2700 0.0056 0.0043 0.0067 0.0030 0.0048 0.0050 0.0043 0.0061 0.0030 0.0048 0.0050 0.0048 0.0050 0.0050 0.00321 0.0060 0.0036 0.0036 0.00405 0.00405 0.00405 0.0036 0.00379 0.0040 0.0279 17726.7509 0.3341	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.02920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.0494 0.0220 0.1407 0.0264 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0294 0.1772 0.2708 0.0294 0.1772 0.2708 0.0202 0.0159 0.7368 0.1659 0.0175 0.1221 77643.1690 1.4633	0.0300 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0265 0.0069 0.0494 0.0220 0.0494 0.0220 0.1407 0.0264 0.0294 0.0294 0.0157 0.0294 0.0157 0.0294 0.1772 0.2708 0.0294 0.1772 0.2708 0.0294 0.1772 0.2708 0.0294 0.1775 0.2708 0.0294 0.1755 0.1221 77643.1690 1 4633
EU 03	Reciprocating Internal Combustion Engine #3	Process 1	Engines	Selective Catalytic Reduction (SCR), Oxidation (CO) Catalyst	CD 05, CD 06	EP 03	151.54 MMBtu/hr	PM2.5SO2NOxVOCCOPbNH3Formaldehyde, CH2OAcetaldehyde, C2H4OAcrolein, C3H8OMethanol, CH3OHCarbon Tetrachloridechloroformbenzenevinyl chloridedichloromethane1,1,2-Trichloroethane1,1,2-Trichloroethane1,1,2,2-TetrachloroethanePhenanthrenenaphthalene2-MethylnaphthaleneBiphenylethyl benzenestyreneEthylene Dibromide1,3-butadienetoluenechlorobenzenephenolhexane2,2,4-Trimethylpentane1,3-DichloropropenexylenesCO2CH4NxO	0.00999 0.000588 4.08 0.118 0.317 0.00 3.18 0.0528 0.00836 0.00514 0.00025 0.000367 0.000285 0.000149 0.0000149 0.000014 0.0000318 0.000032 0.0000318 0.000034 0.000032 0.000034 0.0000397 0.0000267 0.0000304 0.000024 0.000024 0.000111 0.00025 0.000264 0.00025 0.000264 0.000264 0.000264 0.0002204624	Ib/MMBtu Ib/MMBtu	AP-42 Table 3.2-2 Mass Balance Mass Balance AP-42 Table 3.2-2 <	- 100.00% 100.	- 99.60% 72.16% 89.64% - - 96.88% 58.16% 7.56% 28.73% 28.73% - - - - - - - - - - - - - - - - - - -	1.5139 0.0891 618.2832 17.8817 48.0382 0.0000 3.1848 8.0013 1.2669 0.7789 0.3789 0.0056 0.0043 0.00667 0.0023 0.0043 0.0048 0.0016 0.00131 0.0050 0.0048 0.0050 0.0048 0.0050 0.0048 0.0050 0.0321 0.0067 0.0060 0.0036 0.00405 0.00405 0.00405 0.0379 0.0040 0.0279 17726.7509 0.3341	1.0100 0.0891 2.4891 4.9781 0.0000 3.1848 0.2500 0.5300 0.7200 0.0056 0.0043 0.0067 0.0030 0.0043 0.0056 0.0043 0.0056 0.0043 0.0056 0.0043 0.0050 0.0043 0.0050 0.0048 0.0050 0.0048 0.0050 0.0040 0.0050 0.0321 0.0067 0.00405 0.00405 0.00405 0.00405 0.0036 0.1682 0.0379 0.03341 0.0224	0.3903 2708.0804 78.3219 210.4072 0.0000 13.9493 35.0457 5.5489 3.4117 1.6594 0.0244 0.0189 0.2920 0.0099 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0220 0.1407 0.0264 0.0220 0.1407 0.0264 0.0157 0.0294 0.0294 0.1772 0.2708 0.0294 0.1772 0.2708 0.0294 0.1772 0.2708 0.0294 0.1772 0.2708 0.0294 0.1772 0.2708 0.0294 0.1772 0.2708 0.0294 0.1772 0.2708 0.0294 0.1772 0.2708 0.0294 0.1772 0.2708 0.0202 0.0159 0.7368 0.1659 0.0175 0.1221 77643.1690 1.4633 0.1462	0.0000 0.3903 10.9021 21.8042 21.8042 0.0000 13.9493 1.0950 2.3214 3.1536 1.1826 0.0244 0.0189 0.2920 0.0099 0.0133 0.0211 0.0265 0.0069 0.0494 0.0220 0.0494 0.0220 0.0494 0.0220 0.0494 0.0220 0.1407 0.0264 0.0265 0.0069 0.0494 0.0220 0.1407 0.0264 0.0157 0.0294 0.0157 0.0294 0.1772 0.2708 0.0202 0.0159 0.7368 0.1659 0.0175 0.1221 77643.1690 1.4633 0.4462

		1															
								PM	3.32	lb/hr	Mass Balance	-	-	3.3200	3.3200	14.5416	14.5416
								PM10	0.00999	lb/MMBtu	AP-42 Table 3.2-2	-	-	1.5139	1.5139	6.6308	6.6308
								PM2.5	0.00999	lb/MMBtu	AP-42 Table 3.2-2	-	-	1.5139	1.5139	6.6308	6.6308
								SO2	0.000588	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0891	0.0891	0.3903	0.3903
								NOx	4.08	lb/MMBtu	AP-42 Table 3.2-2	100.00%	99.60%	618.2832	2.4891	2708.0804	10.9021
								VOC	0.118	lb/MMBtu	AP-42 Table 3.2-2	100.00%	72.16%	17.8817	4.9781	78.3219	21.8042
								СО	0.317	lb/MMBtu	AP-42 Table 3.2-2	100.00%	89.64%	48.0382	4.9781	210.4072	21.8042
								Pb	0.00	lb/hr	Mass Balance	-	-	0.0000	0.0000	0.0000	0.0000
								NH ₃	3.18	lb/hr	Mass Balance	-	-	3.1848	3.1848	13.9493	13.9493
								Formaldehyde, CH2O	0.0528	lb/MMBtu	AP-42 Table 3.2-2	100.00%	96.88%	8.0013	0.2500	35.0457	1.0950
								Acetaldehyde, C2H4O	0.00836	lb/MMBtu	AP-42 Table 3.2-2	100.00%	58.16%	1.2669	0.5300	5.5489	2.3214
								Acrolein, C3H8O	0.00514	lb/MMBtu	AP-42 Table 3.2-2	100.00%	7.56%	0.7789	0.7200	3.4117	3.1536
								Methanol, CH3OH	0.0025	lb/MMBtu	AP-42 Table 3.2-2	100.00%	28.73%	0.3789	0.2700	1.6594	1.1826
								Carbon Tetrachloride	0.0000367	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0056	0.0056	0.0244	0.0244
								chloroform	0.0000285	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0043	0.0043	0.0189	0.0189
								benzene	0.00044	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0667	0.0667	0.2920	0.2920
								vinyl chloride	0.0000149	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0023	0.0023	0.0099	0.0099
				Selective Catalytic				dichloromethane	0.00002	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0030	0.0030	0.0133	0.0133
EU 04	Reciprocating Internal	Process 1	Engines	Reduction (SCR).	CD 07. CD 08	EP 04	151.54 MMBtu/hr	1,1,2-Trichloroethane	0.0000318	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0048	0.0048	0.0211	0.0211
	Combustion Engine #4			Oxidation (CO) Catalyst				1,1,2,2-Tetrachloroethane	0.00004	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0061	0.0061	0.0265	0.0265
								Phenanthrene	0.0000104	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0016	0.0016	0.0069	0.0069
								naphthalene	0.0000744	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0113	0.0113	0.0494	0.0494
								2-Methylnaphthalene	0.0000332	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0050	0.0050	0.0220	0.0220
								Biphenyl	0.000212	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0321	0.0321	0.1407	0.1407
								ethyl benzene	0.0000397	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0060	0.0060	0.0264	0.0264
								styrene	0.0000236	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0036	0.0036	0.0157	0.0157
								Ethylene Dibromide	0.0000443	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0067	0.0067	0.0294	0.0294
								1,3-butadiene	0.000267	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0405	0.0405	0.1772	0.1772
								toluene	0.000408	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0618	0.0618	0.2708	0.2708
								chlorobenzene	0.0000304	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0046	0.0046	0.0202	0.0202
								phenol	0.000024	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.0036	0.0036	0.0159	0.0159
								hexane	0.00111	lb/MMBtu	AP-42 Table 3.2-2	-	-	0.1682	0.1682	0.7368	0.7368
								2,2,4-Trimetnytpentane	0.00025		AP-42 Table 3.2-2	-	-	0.0379	0.03/9	0.1659	0.1659
									0.0000284	lb/MMBtu	ΔP-42 Table 3.2-2	-	-	0.0040	0.0040	0.0175	0.0175
								CO	116 9773717	lb/MMBtu	40 CER 98 subp. C. Table C-1 and C-2			17726 7509	17726 7509	776/3 1690	776/13 1690
									0.000004604		40 CFR 00, subp. C, Table C 1 and C 2	_	_	0.2241	0.2241	1 4622	1 4622
									0.002204024			-	-	0.00041	0.00041	1.4033	1.4033
				ļ					0.000220462		40 CFK 98, subp. C, Table C-1 and C-2	-	-	0.0334	0.0334	0.1463	0.1463
FLLOS		Decesso	Ming Course			ED 05	0.004 MMDta //	NOX	0.098	lb/MMBtu	AP-42 1.4	-	-	0.0001	0.0001	0.0004	0.0004
EU 05	Dew Point Heater	Process 2	MISC. Sources	-	-	EP 05	0.001 MMBtu/hr	00	0.0824	LD/MMBtu	AP-421.4	-	-	0.0001	0.0001	0.0004	0.0004
									IZU	ເມ/™າຫຍືເປ	AT-42 1.4	-	-	0.1200	0.1200	0.5256	0.5256
						1					1						

Section N.2: Stack Information

UTM Zone:

	Identify all Emission Units (with	Sta	ck Physical Da	ata	Stack UTM	Coordinates	Stack Gas Stream Data			
Stack ID	Process ID) and Control Devices that Feed to Stack	Equivalent Diameter (ft)	Height	Base Elevation (ft)	Northing (m)	Easting (m)	Flowrate (acfm)	Temperature (°F)	Exit Velocity (ft/sec)	
EP 01	EU 01, CD 01, CD 02	5.405	100	408	4,130,572	451,158	68745	644	49.94	
EP 02	EU 02, CD 03, CD 04	5.405	100	408	4,130,572	451,175	68745	644	49.94	
EP 03	EU 03, CD 05, CD 06	5.405	100	408	4,130,572	451,191	68745	644	49.94	
EP 04	EU 04, CD 07, CD 08	5.405	100	408	4,130,572	451,204	68745	644	49.94	
EP 05	EU 05	0.5*	10	408	4,130,514	451,239	500*	500*	40*	
		*estimated, dat	ta not yet avai	able						

Division for Air	Quality	DEP7007V
		Applicable Requirements and Compliance
300 Sower Boulevard		Activities
Frankfort, KY 40601		<u>x</u> Section V.1: Emission and Operating Limitation(s)
(502) 564-3999		<u>x</u> Section V.2: Monitoring Requirements
		<u>x</u> Section V.3: Recordkeeping Requirements
		<u>x</u> Section V.4: Reporting Requirements
		<u>x</u> Section V.5: Testing Requirements
		<u>x</u> Section V.6: Notes, Comments, and Explanations
Source Name:	Kentucky Municipal Ener	rgy Agency (KYMEA) Energy Center I
KY EIS (AFS) #:	New Source	
Permit #:	New Source	
Agency Interest (AI) I	D: New Source	
Date	10/25/2024	

Section V.1: Emission and Operating Limitation(s)

Emission Unit #	Emission Unit Description	Applicable Regulation or Requirement	Pollutant	Emission Limit (if applicable)	Voluntary Emission Limit or Exemption (if applicable)	Operating Requirement or Limitation (if applicable)	Method of Determining Compliance with the Emission and Operating Requirement(s)
		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Formaldehyde	Limit concentration of formaldehyde to 14 ppmvd or less at 15 percent O2.	N/A	N/A	According to 40 CFR 63.6600, Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.
		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	63 Subpart ZZZZ, 401 D2 Section 2(4)(eeee)N/AN/A	N/A	Pressure drop	Maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test.	
		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	N/A	N/A	N/A	Catalyst inlet temperature	Maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1,350 °F.
EU 01	Reciprocating Internal Combustion Engine #1	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	NOx	82 ppmvd at 15% O2	N/A	N/A	Purchasing a non-certified engine and demonstrating compliance with the emission standards. You must keep a maintenance plan and records of conducted maintenance and must to the extent practicable maintain and
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	СО	270 ppmvd at 15% O2	N/A	N/A	operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	VOC	60 ppmvd at 15% O2	N/A	N/A	hours or 3 years, whichever comes first, thereafter to demonstrate compliance in accordance with 40 CFR 60.4244.
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	All	N/A	N/A	Minimize engine idle	Must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission standards apply.
		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Formaldehyde	Limit concentration of formaldehyde to 14 ppmvd or less at 15 percent O2.	N/A	N/A	According to 40 CFR 63.6600, Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.
		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	N/A	N/A	N/A	Pressure drop	Maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test.
		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	N/A	N/A	N/A	Catalyst inlet temperature	Maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1,350 °F.
EU 02	Reciprocating Internal Combustion Engine #2	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	NOx	82 ppmvd at 15% O2	N/A	N/A	Purchasing a non-certified engine and demonstrating compliance with the
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	СО	270 ppmvd at 15% O2	N/A	N/A	conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	VOC	60 ppmvd at 15% O2	N/A	N/A	practice for minimizing emissions. In addition, you must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance in accordance with 40 CFR 60.4244.
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	All	N/A	N/A	Minimize engine idle	Must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission standards apply.

Additional Documentation

<u>x</u> Complete DEP7007AI

		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Formaldehyde	Limit concentration of formaldehyde to 14 ppmvd or less at 15 percent O2.	N/A	N/A	According to 40 CFR 63.6600, Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.
		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	N/A	N/A	N/A	Pressure drop	Maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test.
		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	N/A	N/A	N/A	Catalyst inlet temperature	Maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1,350 °F.
EU 03	EU 03 Reciprocating Internal Combustion Engine #3	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	NOx	82 ppmvd at 15% O2	N/A	N/A	Purchasing a non-certified engine and demonstrating compliance with the emission standards. You must keep a maintenance plan and records of
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	СО	270 ppmvd at 15% O2	N/A	N/A	conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	VOC	60 ppmvd at 15% O2	N/A	N/A	performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance in accordance with 40 CFR 60.4244.
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)		N/A	N/A	Minimize engine idle	Must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission standards apply.
		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Formaldehyde	Limit concentration of formaldehyde to 14 ppmvd or less at 15 percent O2.	N/A	N/A	According to 40 CFR 63.6600, Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.
		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	N/A	N/A	N/A	Pressure drop	Maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test.
		40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	N/A	N/A	N/A	Catalyst inlet temperature	Maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1,350 °F.
EU 04	Reciprocating Internal Combustion Engine #4	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	NOx	82 ppmvd at 15% O2	N/A	N/A	Purchasing a non-certified engine and demonstrating compliance with the emission standards. You must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	СО	270 ppmvd at 15% O2	N/A	N/A	operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test and conduct subsequent performance testing every 8,760
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	VOC	60 ppmvd at 15% O2	N/A	N/A	hours or 3 years, whichever comes first, thereafter to demonstrate compliance in accordance with 40 CFR 60.4244.
		40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	All	N/A	N/A	Minimize engine idle	Must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission standards apply.
EU 05	Dew Point Heater	40 CFR Part 63 Subpart DDDDD	N/A	N/A	N/A	Work Practice Standards	At all times, you must operate and maintain any affected source (as defined in § 63.7490), in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance
P			-				

Section V.2: Monitoring Requirements

Emission Unit #	nission Unit # Emission Unit Description Poll		Applicable Regulation or Requirement	Parameter Monitored	De
EU 01	Reciprocating Internal Combustion Engine #1	N/A	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Catalyst inlet temperature.	Installation of a CPMS temperature according
EU 02	Reciprocating Internal Combustion Engine #2	N/A	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Catalyst inlet temperature.	Installation of a CPMS temperature according
EU 03	Reciprocating Internal Combustion Engine #3	N/A	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Catalyst inlet temperature.	Installation of a CPMS temperature according
EU 04	Reciprocating Internal Combustion Engine #4	N/A	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Catalyst inlet temperature.	Installation of a CPMS temperature according
EU 05	Dew Point Heater	N/A	N/A	N/A	

escription of Monitoring

to continuously monitor catalyst inlet to the requirements in § 63.6625(b).

to continuously monitor catalyst inlet to the requirements in § 63.6625(b).

to continuously monitor catalyst inlet to the requirements in § 63.6625(b).

to continuously monitor catalyst inlet to the requirements in § 63.6625(b).

N/A

Section V.3: Recordkeeping Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Recorded	Descrip
		Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Emission standard.	Must comply with the appl CFR 63.6655(a), (b), and (records for at least 5 years.
EU 01	Reciprocating Internal Combustion Engine #1	N/A	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Maintenance.	Maintenance conducted on
		NOx, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	The engine is not a certifie documentation that the eng 60.4245(a)(4).
		Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Emission standard.	Must comply with the appl CFR 63.6655(a), (b), and (records for at least 5 years.
EU 02	Reciprocating Internal Combustion Engine #2	N/A	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Maintenance.	Maintenance conducted on
		NOx, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	The engine is not a certifie documentation that the eng $60.4245(a)(4)$.
	Reciprocating Internal Combustion Engine #3	Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Emission standard.	Must comply with the appl CFR 63.6655(a), (b), and (records for at least 5 years.
EU 03		N/A	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Maintenance.	Maintenance conducted or
		NOx, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	The engine is not a certifie documentation that the eng 60.4245(a)(4).
		Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Emission standard.	Must comply with the appl CFR 63.6655(a), (b), and (records for at least 5 years.
EU 04	Reciprocating Internal Combustion Engine #4	N/A	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Maintenance.	Maintenance conducted on
		NOx, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	The engine is not a certifie documentation that the eng $60.4245(a)(4)$.
EU 05	Dew Point Heater	N/A	40 CFR Part 63 Subpart DDDDD	Reporting	A copy of each notificati comply with this subpart supporting any Initial Notification or No semiannual compliance r the requirements in § 63.
				Testing	Records of performance demonstrations and perfo 63.10(b)(2)(viii).

tion of Recordkeeping

licable recordkeeping requirements in 40 d), and 40 CFR 63.6660, including keeping

the engine.

ed engine, facility must keep gine meets the emission standards. 40 CFR

licable recordkeeping requirements in 40 d), and 40 CFR 63.6660, including keeping

the engine.

ed engine, facility must keep gine meets the emission standards. 40 CFR

icable recordkeeping requirements in 40 d), and 40 CFR 63.6660, including keeping

the engine.

ed engine, facility must keep gine meets the emission standards. 40 CFR

icable recordkeeping requirements in 40 d), and 40 CFR 63.6660, including keeping

the engine.

ed engine, facility must keep gine meets the emission standards. 40 CFR

on and report that you submitted to , including all documentation

tification of Compliance Status or report that you submitted, according to .10(b)(2)(xiv).

tests, fuel analyses, or other compliance ormance evaluations as required in §

Section V.4: Reporting Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Reporting	
EU 01	Reciprocating Internal Combustion Engine #1	Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Operating and emission limitations	A compliance report of requirements in § 63.4 emission limitations of statement that there we or operating limitation periods during which 63.8(c)(7), a statement CMS was out-of-content deviation from any en- the reporting period, to periods during which 63.8(c)(7), the inform during the reporting period
EU 02	Reciprocating Internal Combustion Engine #2	Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Operating and emission limitations	A compliance report requirements in § 63. emission limitations of statement that there w or operating limitation periods during which 63.8(c)(7), a statement CMS was out-of-cont deviation from any ent the reporting period, the periods during which 63.8(c)(7), the inform during the reporting p

Description of Reporting

must be submitted semiannually according to the .6650(b). If there are no deviations from any or operating limitations that apply to you, a were no deviations from the emission limitations ons during the reporting period. If there were no a the CMS was out-of-control, as specified in § nt that there were not periods during which the trol during the reporting period; or there is a mission limitation or operating limitation during the information in § 63.6650(d). If there were a the CMS was out-of-control, as specified in § nation in § 63.6650(e); or if there is a malfunction period, the information in § 63.6650(c)(4).

must be submitted semiannually according to the .6650(b). If there are no deviations from any or operating limitations that apply to you, a were no deviations from the emission limitations ons during the reporting period. If there were no a the CMS was out-of-control, as specified in § nt that there were not periods during which the trol during the reporting period; or there is a mission limitation or operating limitation during the information in § 63.6650(d). If there were a the CMS was out-of-control, as specified in § nation in § 63.6650(e); or if there is a malfunction period, the information in § 63.6650(c)(4).

EU 03	Reciprocating Internal Combustion Engine #3	Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Operating and emission limitations	A compliance report requirements in § 63 emission limitations statement that there or operating limitation periods during which 63.8(c)(7), a stateme CMS was out-of-com deviation from any e the reporting period, periods during which 63.8(c)(7), the inforr during the reporting
EU 04	Reciprocating Internal Combustion Engine #4	Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Operating and emission limitations	A compliance report requirements in § 63 emission limitations statement that there vor or operating limitation periods during which 63.8(c)(7), a stateme CMS was out-of-com deviation from any e the reporting period, periods during which 63.8(c)(7), the inforr during the reporting
EU 05	Dew Point Heater	N/A	40 CFR Part 63 Subpart DDDDD	Tune up	If the facility is subject must submit a complete (c)(5)(i) through (iii)

t must be submitted semiannually according to the 8.6650(b). If there are no deviations from any 6 or operating limitations that apply to you, a were no deviations from the emission limitations ons during the reporting period. If there were no h the CMS was out-of-control, as specified in § ent that there were not periods during which the ntrol during the reporting period; or there is a emission limitation or operating limitation during , the information in § 63.6650(d). If there were h the CMS was out-of-control, as specified in § mation in § 63.6650(e); or if there is a malfunction period, the information in § 63.6650(c)(4).

t must be submitted semiannually according to the 3.6650(b). If there are no deviations from any or operating limitations that apply to you, a were no deviations from the emission limitations ons during the reporting period. If there were no h the CMS was out-of-control, as specified in § ent that there were not periods during which the ntrol during the reporting period; or there is a emission limitation or operating limitation during , the information in § 63.6650(d). If there were h the CMS was out-of-control, as specified in § mation in § 63.6650(e); or if there is a malfunction period, the information in § 63.6650(c)(4).

ect to the requirements of a tune up you liance report with the information in paragraphs) of this section. (§ 63.7550)

Section V.5: T	ection V.5: Testing Requirements									
Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Testing	Description of Testing					
					According to 40 CFR 63.6600, Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.					
) Emission standard.	According to 40 CFR 63.6610(a), you must conduct the initial performance tests or other applicable initial compliance demonstrations in Table 4 to subpart ZZZZ within 180 days after the compliance date.					
					According to 40 CFR 63.6615 and Table 3 to subpart ZZZZ, you must conduct the subsequent performance tests semiannually if you are complying with the requirement to limit the concentration of formaldehyde.					
EU 01	Reciprocating Internal Combustion Engine #1	Formaldehyde	40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)		Must conduct the performance tests in accordance with 40 CFR 63.6620 to demonstrate compliance with applicable emission standards. You are required to notify the Administrator 60 days prior to the test date and are required to submit a stack test report to the Administrator within 60 days after the completion of the testing.					
					According to 40 CFR 63.6625(b) and Table 5 to subpart ZZZZ, if you are required to install a continuous parameter monitoring system (CPMS), you must install, operate, and maintain each CPMS according to the requirements in 40 CFR 63.6625(b)(1) through (6).					
					Must demonstrate initial compliance with applicable emission limitations, operating limitations, and other requirements in 40 CFR 63.6630(a), and (b).					
					Must demonstrate continuous compliance with applicable emission limitations, operating limitations, and other requirements in pursuant to 40 CFR 63.6605, 6635, 6640(a), (b), (d), and (e).					
		NOx, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	Must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance in accordance with 40 CFR 60.4244.					
			40 CFR Part 63 Subpart ZZZZ, 401 KAR 63:002 Section 2(4)(eeee)		According to 40 CFR 63.6600, Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.					
				Emission standard.	According to 40 CFR 63.6610(a), you must conduct the initial performance tests or other applicable initial compliance demonstrations in Table 4 to subpart ZZZZ within 180 days after the compliance date.					
					According to 40 CFR 63.6615 and Table 3 to subpart ZZZZ, you must conduct the subsequent performance tests semiannually if you are complying with the requirement to limit the concentration of formaldehyde.					
EU 02	Reciprocating Internal Combustion Engine #2	Formaldehyde			Must conduct the performance tests in accordance with 40 CFR 63.6620 to demonstrate compliance with applicable emission standards. You are required to notify the Administrator 60 days prior to the test date and are required to submit a stack test report to the Administrator within 60 days after the completion of the testing.					
					According to 40 CFR 63.6625(b) and Table 5 to subpart ZZZZ, if you are required to install a continuous parameter monitoring system (CPMS), you must install, operate, and maintain each CPMS according to the requirements in 40 CFR 63.6625(b)(1) through (6).					
					Must demonstrate initial compliance with applicable emission limitations, operating limitations, and other requirements in 40 CFR 63.6630(a), and (b).					
					Must demonstrate continuous compliance with applicable emission limitations, operating limitations, and other requirements in pursuant to 40 CFR 63.6605, 6635, 6640(a), (b), (d), and (e).					
		NOx, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	Must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance in accordance with 40 CFR 60.4244.					

EU 03	Reciprocating Internal Combustion Engine #3	Formaldehyde	40 CFR Part 63 Subpart ZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Emission standard.	According to limitations e average of th in § 63.6620 According to tests or other subpart ZZZ According to conduct the s with the requ Must conduct demonstrate required to m required to m after the con According to required to must install, requirements Must demon operating lim Must demon limitations, o CFR 63.660
		NOx, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	Must conduct performance thereafter to
EU 04	Reciprocating Internal Combustion Engine #4	Formaldehyde	40 CFR Part 63 Subpart ZZZ, 401 KAR 63:002 Section 2(4)(eeee)	Emission standard.	According to limitations e average of th in § 63.6620 According to tests or other subpart ZZZ According to conduct the s with the requ Must conduct demonstrate required to r required to r required to r after the con According to required to must install, requirements Must demon operating lim Must demon limitations, of CFR 63.660
		NOx, CO, VOC	40 CFR Part 60 Subpart JJJJ, 401 KAR 60:005 Section 2(2)(eeee)	Emission standard.	Must conduct performance thereafter to
EU 05	Dew Point Heater	N/A	40 CFR Part 63 Subpart DDDDD	Performance Testing	Boilers and p subcategory per hour mu

to 40 CFR 63.6600, Compliance with the numerical emission established in this subpart is based on the results of testing the three 1-hour runs using the testing requirements and procedures and Table 4 to this subpart. to 40 CFR 63.6610(a), you must conduct the initial performance r applicable initial compliance demonstrations in Table 4 to ZZ within 180 days after the compliance date. to 40 CFR 63.6615 and Table 3 to subpart ZZZZ, you must subsequent performance tests semiannually if you are complying uirement to limit the concentration of formaldehyde. act the performance tests in accordance with 40 CFR 63.6620 to compliance with applicable emission standards. You are notify the Administrator 60 days prior to the test date and are submit a stack test report to the Administrator within 60 days npletion of the testing. o 40 CFR 63.6625(b) and Table 5 to subpart ZZZZ, if you are install a continuous parameter monitoring system (CPMS), you operate, and maintain each CPMS according to the s in 40 CFR 63.6625(b)(1) through (6). nstrate initial compliance with applicable emission limitations, nitations, and other requirements in 40 CFR 63.6630(a), and (b). nstrate continuous compliance with applicable emission operating limitations, and other requirements in pursuant to 40 05, 6635, 6640(a), (b), (d), and (e). ict an initial performance test and conduct subsequent testing every 8,760 hours or 3 years, whichever comes first, demonstrate compliance in accordance with 40 CFR 60.4244. to 40 CFR 63.6600, Compliance with the numerical emission established in this subpart is based on the results of testing the hree 1-hour runs using the testing requirements and procedures and Table 4 to this subpart. to 40 CFR 63.6610(a), you must conduct the initial performance r applicable initial compliance demonstrations in Table 4 to ZZ within 180 days after the compliance date. to 40 CFR 63.6615 and Table 3 to subpart ZZZZ, you must subsequent performance tests semiannually if you are complying uirement to limit the concentration of formaldehyde. ict the performance tests in accordance with 40 CFR 63.6620 to compliance with applicable emission standards. You are notify the Administrator 60 days prior to the test date and are submit a stack test report to the Administrator within 60 days npletion of the testing. o 40 CFR 63.6625(b) and Table 5 to subpart ZZZZ, if you are install a continuous parameter monitoring system (CPMS), you operate, and maintain each CPMS according to the s in 40 CFR 63.6625(b)(1) through (6). nstrate initial compliance with applicable emission limitations, nitations, and other requirements in 40 CFR 63.6630(a), and (b). nstrate continuous compliance with applicable emission operating limitations, and other requirements in pursuant to 40 05, 6635, 6640(a), (b), (d), and (e). ct an initial performance test and conduct subsequent testing every 8,760 hours or 3 years, whichever comes first, demonstrate compliance in accordance with 40 CFR 60.4244. process heaters in the units designed to burn gas 1 fuels with a heat input capacity of less than or equal to 5 million Btu ust complete a tune-up every 5 years as specified in \S 63.7540.



Attachments





Facility Layout Map

Kentucky Municipal Energy Agency (KYMEA) Energy Center I

1757 AC Slaton Road

Madisonville, KY 42431





Topographical Map

Kentucky Municipal Energy Agency (KYMEA) Energy Center I

1757 AC Slaton Road

Madisonville, KY 42431

		Provincina -
NOFTM	2	STACK (TYP)
*	3	SCR (TYP)
T	4	ENGINE-GENERATOR (TYP)
	5	MV SMITCHGEAR
	6	AUXILIARY TRANSFORMER
	7	CSU
	8	SWITCHYARD
	9	OIL-WATER SEPARATOR
	10	ENGINE HALL
	11	INTAKE AIR FILTER
	12	GAS YARD
	LE	GEND
		× × FENCE

PARVATOPS



Facility PTE Summary Kentucky Municipal Energy Agency (KYMEA)

Steel: ID	Emission Unit #	Emission Unit Name				Potential or	Permitted E	nission Rate (to	ns/yr)			
Stack ID	Emission Unit #	Emission Unit Name	PM	PM10	PM2.5	SO2	NOX	VOC	CO	Pb	HAP	THAP
EP 01	EU 01	Reciprocating Internal Combustion Engine #1	14.54	6.63	6.63	0.39	10.90	21.80	21.80	0.00	3.15	0.00
EP 02	EU 02	Reciprocating Internal Combustion Engine #2	14.54	6.63	6.63	0.39	10.90	21.80	21.80	0.00	3.15	0.00
EP 03	EU 03	Reciprocating Internal Combustion Engine #3	14.54	6.63	6.63	0.39	10.90	21.80	21.80	0.00	3.15	0.00
EP 04	EU 04	Reciprocating Internal Combustion Engine #4	14.54	6.63	6.63	0.39	10.90	21.80	21.80	0.00	3.15	0.00
EP 05	EU 05	Dew Point Heater	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			58.14	26.52	26.52	1.56	43.61	87.22	87.22	0.00	12.61	0.00

Wartsila Engines PTE

Parameter	Units	100%	75%	50%	40%		Notes/Source
Genset Power Output	kW	18,817	14,113	9,409	7,527		At ISO conditions for 18V50SG
Genset Heat Rate	Btu/kW-hr (HHV)	8,053	8,263	8,847	8,280		At ISO conditions for 18V50SG
Exhaust Gas Temperature	٩F	757	820	824	821		
Exhaust Gas Flowrate	scf/min	120,060	99,000	76,380	64,320		
Fuel Burn Rate	Btu/hr	151,535,183	116,618,542	83,244,246	62,321,302		18V50SG
Fuel Burn Rate	MMBtu/hr	151.54					18V50SG

NAAQS	Emission Factor	EF Units	Mol. Weight	Hours	lb/hr	ton/yr	4 engines ton/yr	Notes/Source
PM	3.32	lb/hr		8760.0	3.32	14.54	58.14	18V50SG
PM10	0.00999	lb/MMBtu		8760.0	1.51	6.63	26.52	AP-42 Table 3.2-2
PM2.5	0.00999	lb/MMBtu		8760.0	1.51	6.63	26.52	AP-42 Table 3.2-2
SO2	0.000588	lb/MMBtu		8760.0	0.09	0.39	1.56	AP-42 Table 3.2-2
NOx	2.49	lb/hr		8760.0	2.49	10.90	43.61	18V50SG
VOC	4.98	lb/hr		8760.0	4.98	21.80	87.22	18V50SG
CO	4.98	lb/hr		8760.0	4.98	21.80	87.22	18V50SG
Pb	0.00	lb/hr		8760.0	0.00	0.00	0.00	AP-42 Table 3.2-2
Ammonia (NH ₃)	3.18	lb/hr	17.03	8760.0	3.18	13.95	55.80	18V50SG
GHG's								
CO ₂	116.9773717	lb/MMBtu		8760.0	17726.2	77640.70	310562.80	40 CFR 98, subp. C, Table C-1 and C-2
CH ₄	0.002204624	lb/MMBtu		8760.0	0.3	1.46	5.85	40 CFR 98, subp. C, Table C-1 and C-2
N ₂ O	0.000220462	lb/MMBtu		8760.0	0.0	0.15	0.59	40 CFR 98, subp. C, Table C-1 and C-2
								· · · · ·
HAPs	Emission Factor	EF Units	Mol. Weight	Hours	lb/hr	ton/yr	4 engines ton/yr	Notes/Source
Formaldehyde, CH2O	0.25	lb/hr	30.0	8760.0	0.25	1.10	4.38	18V50SG
Acetaldehyde, C2H4O	0.53	lb/hr	44.1	8760.0	0.53	2.32	9.29	18V50SG
Acrolein, C3H8O	0.72	lb/hr	56.1	8760.0	0.72	3.15	12.61	18V50SG
Methanol, CH3OH	0.27	lb/hr	32.0	8760.0	0.27	1.18	4.73	18V50SG
Carbon Tetrachloride	0.0000367	lb/MMBtu		8760.0	0.006	0.024	0.097	AP-42 Table 3.2-2
chloroform	0.0000285	lb/MMBtu		8760.0	0.004	0.019	0.076	AP-42 Table 3.2-2
benzene	0.00044	lb/MMBtu		8760.0	0.067	0.292	1.168	AP-42 Table 3.2-2
vinyl chloride	0.0000149	lb/MMBtu		8760.0	0.002	0.010	0.040	AP-42 Table 3.2-2
dichloromethane (methylene	0.00002	lb/MMBtu		8760.0	0.003	0.013	0.053	AP-42 Table 3.2-2
1,1,2-Trichloroethane	0.0000318	lb/MMBtu		8760.0	0.005	0.021	0.084	AP-42 Table 3.2-2
1,1,2,2-Tetrachloroethane	0.00004	lb/MMBtu		8760.0	0.006	0.027	0.106	AP-42 Table 3.2-2
Phenanthrene	0.0000104	lb/MMBtu		8760.0	0.002	0.007	0.028	AP-42 Table 3.2-2
naphthalene	0.0000744	lb/MMBtu		8760.0	0.011	0.049	0.198	AP-42 Table 3.2-2
2-Methylnaphthalene	0.0000332	lb/MMBtu		8760.0	0.005	0.022	0.088	AP-42 Table 3.2-2
Biphenyl	0.000212	lb/MMBtu		8760.0	0.032	0.141	0.563	AP-42 Table 3.2-2
ethyl benzene	0.0000397	lb/MMBtu		8760.0	0.006	0.026	0.105	AP-42 Table 3.2-2
styrene	0.0000236	lb/MMBtu		8760.0	0.004	0.016	0.063	AP-42 Table 3.2-2
Ethylene Dibromide	0.0000443	lb/MMBtu		8760.0	0.007	0.029	0.118	AP-42 Table 3.2-2
1,3-butadiene	0.000267	lb/MMBtu		8760.0	0.040	0.177	0.709	AP-42 Table 3.2-2
toluene	0.000408	lb/MMBtu		8760.0	0.062	0.271	1.083	AP-42 Table 3.2-2
chlorobenzene	0.0000304	lb/MMBtu		8760.0	0.005	0.020	0.081	AP-42 Table 3.2-2
phenol	0.000024	lb/MMBtu		8760.0	0.004	0.016	0.064	AP-42 Table 3.2-2
hexane	0.00111	lb/MMBtu		8760.0	0.168	0.737	2.947	AP-42 Table 3.2-2
2,2,4-Trimethylpentane	0.00025	lb/MMBtu		8760.0	0.038	0.166	0.664	AP-42 Table 3.2-2
1,3-Dichloropropene	0.0000264	lb/MMBtu		8760.0	0.004	0.018	0.070	AP-42 Table 3.2-2
xylenes	0.000184	lb/MMBtu		8760.0	0.028	0.122	0.489	AP-42 Table 3.2-2

Dew Point Heater PTE (1000 Btu/hr)

		b	С	d	e		Potential
Pollutant	GWP	Rated Output	Actual Annual	Potential Annual	Emission		Emissions
i oliutulit	0111	Rated Output	Throughput	Hours	Factor	Emission Factor	
		(MMBtu/hr)	(MMBtu/yr)	(hr/yr)	(lbs/MMBtu)	Source	(ton/yr)
		0.001	8.76	8760	by pollutant		(b * d * e) / 2000
Criteria Air Pollutants							
PM					0.0075	AP-42 1.4	0.0000
PM10					0.0075	AP-42 1.4	0.0000
PM2.5					0.0075	AP-42 1.4	0.0000
SOx				·	0.0006	AP-42 1.4	0.0000
NOx					0.0980	AP-42 1.4	0.0004
VOC					0.0054	AP-42 1.4	0.0000
CO				·	0.0824	AP-4214	0 0004
Lead					0.002.	AP-42 1.4	0.0000
Greenhouse Gas Emissions							
CO ₂	1				120.0000	AP-42 1.4	0.5256
CH₄	25				0.0023	AP-42 1.4	0.0000
N ₂ O	298				0.0002	AP-42 1.4	0.0000
				GHG total (CO ₂ e)			0.5256
Hazardous Air Pollutants				· · · · ·		I .	1
1,1,2,2-tetrachloroethane							0.0000
1.1.2-trichloroethane				·			0.0000
1,3-butadiene							0.0000
1,3-dichloropropene							0.0000
Acetaldehyde							0.0000
Acrolein				·			0.0000
Benzene				·	0.0000	AP-42 1.4	0.0000
Biphenvl				·			0.0000
Carbon tetrachloride				•			0.0000
Chlorobenzene				•			0.0000
Chloroform							0.0000
Ethylbenzene							0.0000
Ethylene dibromide							0.0000
Formaldehvde					0.0001	AP-42 1.4	0.0000
Hexane					0.0018	AP-42 1.4	0.0000
Methanol							0.0000
Methylene chloride							0.0000
Naphthalene							0.0000
PAH							0.0000
Phenol							0.0000
Styrene							0.0000
Tetrachloroethane				·			0.0000
Toluene					0.0000	AP-4214	0.0000
Vinvl chloride					0.0000		0.0000
Xvlene							0.0000
Xione				HAP total			0.0000
				10101			0.0000

Space Heaters PTE (1350 MMBtu/hr, multiple units)

PollutantbcdeBWPRated OutputActual Annual ThroughputPotential Annual HoursEmission FactorEmission Factor Source(MMBtu/nr)(MMBtu/yr)(MMBtu/yr)(Ihr/yr)(Ibs/MMBtu)1.35118268760by pollutantCriteria Air Pollutants0.0075AP-42 1.4APM10	Potential Emissions (ton/yr) (b * d * e) / 2000 0.0441 0.0441 0.00441 0.0035 0.5795 0.0319
Criteria Air Pollutants Factor (MMBtu/hr) Throughput (MMBtu/yr) Hours (hr/yr) Factor (lbs/MMBtu) Emission Factor Source Source (bs/MMBtu) (bs/MBtu/st) <	(ton/yr) (b * d * e) / 2000 0.0441 0.0441 0.0045 0.5795 0.0319
(MMBtu/hr) (MMBtu/yr) (hr/yr) (lbs/MMBtu) Source (b 1.35 11826 8760 by pollutant (b Criteria Air Pollutants 0.0075 AP-42 1.4	(ton/yr) (b * d * e) / 2000 0.0441 0.0441 0.0045 0.5795 0.0319
1.35 11826 8760 by pollutant (b Criteria Air Pollutants	(b * d * e) / 2000 0.0441 0.0441 0.0045 0.5795 0.0319
Criteria Air Pollutants 0.0075 AP-42 1.4 0 PM10 0.0075 AP-42 1.4 0 PM2.5 0.0075 AP-42 1.4 0 SOx 0.0075 AP-42 1.4 0 NOx 0.0006 AP-42 1.4 0 VOC 0.0980 AP-42 1.4 0 0.0054 AP-42 1.4 0	0.0441 0.0441 0.0035 0.5795 0.0319
PM 0.0075 AP-42 1.4 I PM10 0.0075 AP-42 1.4 I PM2.5 0.0075 AP-42 1.4 I SOx 0.0006 AP-42 1.4 I NOx 0.0980 AP-42 1.4 I VOC 0.0054 AP-42 1.4 I CO 0.0824 AP-42 1.4 I	0.0441 0.0441 0.0035 0.5795 0.0319
PM10 0.0075 AP-42 1.4 PM2.5 0.0075 AP-42 1.4 SOx 0.0006 AP-42 1.4 NOx 0.0980 AP-42 1.4 VOC 0.0054 AP-42 1.4 CO 0.0824 AP-42 1.4	0.0441 0.0441 0.0035 0.5795 0.0319
PM2.5 0.0075 AP-42 1.4 SOx 0.0006 AP-42 1.4 NOx 0.0980 AP-42 1.4 VOC 0.0054 AP-42 1.4 CO 0.0824 AP-42 1.4	0.0441 0.0035 0.5795 0.0319
SOx 0.0006 AP-42 1.4 NOx 0.0980 AP-42 1.4 VOC 0.0054 AP-42 1.4 CO 0.0824 AP-42 1.4	0.0035 0.5795 0.0319
NOx 0.0980 AP-42 1.4 VOC 0.0054 AP-42 1.4 CO 0.0824 AP-42 1.4	0.5795 0.0319
VOC 0.0054 AP-42 1.4 CO 0.0824 AP-42 1.4	0.0319
CO 0.0824 AP-42 1.4	
	0.4872
Lead AP-42 1.4	0.0000
Greenhouse Gas Emissions	
CO ₂ 1 120.0000 AP-42 1.4	709.5600
CH ₄ 25 0.0023 AP-42 1.4	0.0136
N ₂ O 298 0.0002 AP-42 1.4	0.0013
GHG total (CO ₂ e)	709.5749
Hazardous Air Pollutants	
1,1,2,2-tetrachloroethane	0.0000
1,1,2-trichloroethane	0.0000
1,3-butadiene	0.0000
1,3-dichloropropene	0.0000
Acetaldehyde	0.0000
Acrolein	0.0000
Benzene 0.0000 AP-42 1.4	0.0000
Biphenyl	0.0000
Carbon tetrachloride	0.0000
Chlorobenzene E E E E E E E E E E E E E E E E E E	0.0000
Chloroform	0.0000
Ethylbenzene	0.0000
Ethylene dibromide	0.0000
Formaldehyde 0.0001 AP-42 1.4	0.0004
Hexane 0.0018 AP-42 1.4	0.0104
Methanol	0.0000
Methylene chloride	0.0000
Naphthalene	0.0000
РАН	0.0000
Phenol	0.0000
Styrene	0.0000
Tetrachloroethane	0.0000
Toluene 0.0000 AP-42 1.4	0.0000
Vinyl chloride	0.0000
Xylene	0.0000
HAP total	0.0109

Circuit Breakers PTE (200 lbs, SF6 containing equipment)

Emission Unit #	Emission Unit Name	Process ID	Process Name	Maximum Capacity (lbs)	Emission Factor	Emission Factor Units	GWP	PTE lb/yr	PTE ton/yr	GHG total (CO₂e) PTE ton/yr
IA 3	Circuit Breakers	Process 3	Insignificant	200	0.5	% loss per year	22800	1	0.0005	11.4

Water Heater PTE (20 MBtu/hr)

		h	<u>^</u>	d	â		
		b	C	u	C		Potential
Pollutant	GWP	Rated Output	Actual Annual	Potential Annual Hours	Emission Factor		Emissions
			inioughput	nouis	i detoi	Emission Factor	
		(MMBtu/hr)	(MMBtu/yr)	(hr/yr)	(lbs/MMBtu)	Source	(ton/yr)
		0.02	175.2	8760	by pollutant		(b * d * e) / 2000
Criteria Air Pollutants					b) poliatarit		(2 4 6); 2000
PM					0.0075	AP-42 1.4	0.0007
PM10					0.0075	AP-42 1.4	0.0007
PM2.5					0.0075	AP-42 1.4	0.0007
SOx					0.0006	AP-42 1.4	0.0001
NOx					0.0980	AP-42 1.4	0.0086
VOC					0.0054	AP-42 1.4	0.0005
со					0.0824	AP-42 1.4	0.0072
Lead						AP-42 1.4	0.0000
Greenhouse Gas Emissions							
CO ₂	1				120.0000	AP-42 1.4	10.5120
CH ₄	25				0.0023	AP-42 1.4	0.0002
N ₂ O	298				0.0002	AP-42 1.4	0.0000
•				GHG total (CO ₂ e)			10.5122
Hazardous Air Pollutants							
1,1,2,2-tetrachloroethane							0.0000
1,1,2-trichloroethane							0.0000
1,3-butadiene							0.0000
1,3-dichloropropene							0.0000
Acetaldehyde							0.0000
Acrolein							0.0000
Benzene					0.0000	AP-42 1.4	0.0000
Biphenyl							0.0000
Carbon tetrachloride							0.0000
Chlorobenzene							0.0000
Chloroform							0.0000
Ethylbenzene							0.0000
Ethylene dibromide							0.0000
Formaldehyde					0.0001	AP-42 1.4	0.0000
Hexane					0.0018	AP-42 1.4	0.0002
Methanol							0.0000
Methylene chloride							0.0000
Naphthalene							0.0000
PAH							0.0000
Phenol							0.0000
Styrene							0.0000
Tetrachloroethane							0.0000
Toluene					0.0000	AP-42 1.4	0.0000
Vinyl chloride							0.0000
Xylene							0.0000
				HAP total			0.0002

Glycol Tank (2700 Gal)

INPUT SUMMARY		
Identification		
Tank type		Vertical Fixed Roof
Meteorological Data:		
Nearest major city:		Paducah, KY
Tank Contents:		
Data source		Calculator Database
Liquid category		Other Organic Liquids
Liquid name		Propylene glycol (1,2) {1,2 propanediol}
Tank Dimensions:		
Tank shell height, ft	HS	10
Tank diameter, ft	D	7
Maximum liquid height, ft	HLX	9
Minimum liquid height, ft	HLN	1
Liquid height, ft	HL	5
Number of turnovers per year, dimensionless	Ν	5
Annual net throughput, gal/yr		11,516.56
Annual net throughput, bbl/yr	Q	274.2038
Flashing/vapor balanced unloading?		No
Paint Characteristics:		
Shell color/shade		Gray: Dark
Shell condition		New
Roof color/shade		Gray: Dark
Roof condition		New
Roof Characteristics:		
Roof type		Dome Roof
Tank roof height, ft	HR	0
Tank dome roof radius, ft	RR	7
Breather Vent Settings:		
Breather vent vacuum setting, psig	PBV	-0.03
Breather vent pressure setting, psig	PBP	0.03
Insulation Characteristics:		
Tank insulation		None
Tank heating		No
EMISSIONS SUMMARY		
Total Losses		
Standing losses, lb/yr	LS	0.0795
Working losses, lb/yr	LW	0.0252
Total routine losses, lb/yr	LT	0.1048
Total routine losses, ton/yr	LT	0.0000524
· · · · · · · · · · · · · · · · · · ·		























Doc. Name	Emission data sheet		
	6/6/2024		
Doc. ID	DESA00025696	Revision	а
Doc. Type	Data Sheet	Pages	1 (4)
Author	Raudaskoski, Riitta - Energy Business	Status	Finalized
Opportunity	KYMEA 75MW_4x18V50SG (OP845811) Raudaskoski, Riitta		

This document provides flue gas emissions, i.e. maximum average values for emissions measured over a period of minimum 60 minutes. The emissions are based on the site conditions, gas composition and measurement methods specified in this document.

Engine: Wärtsilä[®] 18V50SG-D, 514 rpm (constant speed), CR 11.5

Site conditions:

Altitude above sea level	400 ft
Ambient temperature	-23/+105 °F
Average relative humidity	71-81 %

Gas composition:

The emissions are valid for following gas composition. It is understood that variations in the gas composition inside this specification will occur and are permitted; however sudden extreme changes in gas temperature, pressure or composition are not allowed.

Methane number:		92		
Methane, min	CH_4	95.700	mol-%	
Ethane, max	C_2H_6	2.268	mol-%	
Propane, max	C_3H_8	0.101	mol-%	Note 1)
i-Butane, max	C_4H_{10}	0.013	mol-%	Note 1)
n-Butane, max	C_4H_{10}	0.010	mol-%	Note 1)
i-Pentane, max	C_5H_{12}	0.004	mol-%	Note 1)
n-Pentane, max	C_5H_{12}	0.002	mol-%	Note 1)
Hexane, max	C_6H_{14}	0.000	mol-%	Note 1)
Heptane and higher hydro carbons,	max	0.005	mol-%	
Nitrogen	N ₂	0.273	mol-%	
Carbon dioxide	CO_2	1.624	mol-%	
Total sulphur, max S		5	mg/kg	

^{Note 1)} VOC emissions in gas operation depend on the composition of the pipeline natural gas. This document includes a table with corrected VOC emissions after the emission control system for natural gas with concentrations of C_3 to C_6 hydrocarbons in excess of the values specified above.



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Doc. Туре	Data Sheet	Pages	2 (4)
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Other gas parameters according to Wärtsilä's specification. Aromatic hydrocarbons, silicon based compounds or impurities resulting from the operating and maintenance of the gas delivery systems are not allowed.

Lubricating oil quality according to Wärtsilä specifications for gas engines

SCR reducing agent according to Wärtsilä's specification DBAC197648 (rev d)

Engine load	%	100
NO _X as NO ₂	ppm-v at 15% O ₂ , dry	4.5
СО	ppm-v at 15% O ₂ , dry	15
VOC (NMNEHC) as CH ₄ Note 1)	ppm-v at 15% O ₂ , dry	26
NH ₃	ppm-v at 15% O ₂ , dry	10
CH_2O , formaldehyde	ppm-v at 15% O ₂ , dry	0.7
C_2H_4O , acetaldehyde	ppm-v at 15% O ₂ , dry	1.0
C_3H_8O , acrolein	ppm-v at 15% O ₂ , dry	1.0
CH₃OH, methanol	ppm-v at 15% O ₂ , dry	0.7
PM ₁₀ (total)	mg/Nm ^{3*} at 15 $\%$ O ₂ , dry	12

Flue gas emissions after emission control system² at steady load as 60 min averages:

*mg/Nm³ defined at 0°C and 101.325 kPa (abs.)

Correction based upon the influence of gas composition on VOC emissions:

The VOC concentration of the flue gas in the stack is dependent on the composition of the natural gas. If the concentration = sum of propane + butane + pentane + hexane ($C_3H_8 + C_4H_{10} + C_5H_{12} + C_6H_{14}$) in the pipeline natural gas deviate the values specified in paragraph *"Gas composition"* in this document the VOC emissions shall be corrected according to the table below. In the table the sum of propane + butane + pentane + hexane is denoted C_{GasVOC} .

	VOC guarantee * factor
Concentration of VOC components in feed	Factor for VOC correction
natural gas	
$0 \text{ mol-}\% \le C_{\text{GasVOC}} < 0.50 \text{ mol-}\%$	1
$0.50 \text{ mol-}\% \le C_{GasVOC} < 1.00 \text{ mol-}\%$	1.3
$1.00 \text{ mol-}\% \le C_{GasVOC} < 1.50 \text{ mol-}\%$	1.6

² Minimum allowed engine load equipped with emission control system is 10%


Doc. Name	Emission data sheet		
	6/6/2024		
Doc. ID	DESA00025696	Revision	а
Doc. Туре	Data Sheet	Pages	3 (4)
Author	Raudaskoski, Riitta - Energy Business	Status	Finalized
Opportunity	KYMEA 75MW_4x18V50SG (OP845811) Raudaskoski, Riitta		

Time to reach compliance

The time required to reach compliance with the emission levels specified in this document will depend on operating conditions and on the temperature of the catalyst system at start. Compliance with emission data in this document will for a normal start sequence and under normal conditions be reached within 10 to 30 minutes from start signal.

Measurement methods

Emission data provided in this document is based upon the emission measurement methods listed below.

Emission data assumes that individual compounds identified above the sensitivity limit, but at concentrations below the lower limit of detection are reported as maximum one-half of the daily lower-limit of calibration. Measurements shall be performed so that minimum feasible detection limits are achieved if this is required for determining compliance with emission guarantees.

The flue gas stack emission measurements will be performed at steady operating condition of the engine. Prior to the start of the flue gas emission (stack) measurements, the engine shall have reached steady state operating conditions and the flue gas temperature measured after the emission control system shall be allowed to reach normal operating temperature.

Sufficiently long measurement sampling periods and number of samples shall be taken in order to get statistically representative results. To ensure accurate particulate matter (PM10) emission results of 3 samples are to be collected with a minimum sampling time of 1 hour per sample. Based on the judgement of the measurement consultant, the results of individual samples with abnormally high deviation shall be excluded.

Oxygen (O₂): EPA Method 3A: Determination of Oxygen and Carbon Dioxide Emissions from Stationary Sources.

Nitrogen oxides (NOx): EPA Method 7E: Determination of nitrogen oxides from stationary sources.

Carbon monoxide (CO): EPA Method 10: Determination of carbon monoxide emissions from stationary sources.

Volatile organic compounds (VOC defined as Non Methane Non Ethane Hydrocarbons): EPA Method 18: Measurement of gaseous organic compound emissions by gas chromatography. VOC is calculated as the sum of relevant components, which for a gas engine equipped with a high efficiency catalyst are considered to be: propane, n-butane, n-pentane and n-hexane (only if existing in NG fuel).

PM10 (total): Total PM_{10} is defined as the sum of the particulate matter measured with a combination of EPA 5 and 202 methods

EPA Method 5 (front half): Determination of particulate emissions from stationary sources

EPA Method 202 Determination of condensable particulate matter from stationary sources.





Doc. Name	Emission data sheet		
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Doc. Туре	Data Sheet	Pages	4 (4)
Author	Raudaskoski, Riitta - Energy Business	Status	Finalized
Opportunity	KYMEA 75MW_4x18V50SG (OP845811) Raudaskoski, Riitta		

Ammonia (NH₃): Bay Area Air Quality Management District (BAAQMD) test Method ST-1B: Ammonia integrated sampling.

Formaldehyde (HCHO): EPA Method 323: Measurement of formaldehyde emissions from natural gas-fired stationary sources-acetyl acetone derivatization method. In case formaldehyde guarantee is exceeded or if significant interference from acetaldehyde is suspected CARB Method 430: Determination of Formaldehyde and Acetaldehyde in Emissions from stationary sources shall be used.

HAP: Measurements shall be performed using method suitable for measuring low levels of specified HAP components. Methods include EPA Method 323: Measurement of formaldehyde emissions from natural gas-fired stationary sources-acetyl acetone derivatization method plus EPA Method 18: Measurement of gaseous organic compound emissions by gas chromatography, adsorption tube procedure only.

Speciated HAPs include formaldehyde, acetaldehyde, acrolein and methanol as identified in USA EPA "National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines: Signed Final Rule" February 2004.

Based upon mutual written consent, evaluation of emission levels can be made using alternative methods.



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