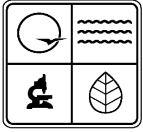


MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 1.0 GENERAL PLANT INFORMATION

Request Confidentiality - see instructions to initiate the confidentiality request.

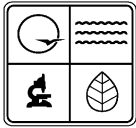
FACILITY NAME				FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA		
FACILITY STREET ADDRESS				COUNTY NAME				
CITY	ZIP CODE +4		PHONE NUMBER WITH AREA CODE		EXT.	FAX NUMBER WITH AREA CODE		
FACILITY MAILING ADDRESS			CITY		STATE	ZIP CODE +4		
FACILITY CONTACT NAME		FACILITY CONTACT TITLE		FACILITY CONTACT E-MAIL		WHERE TO SEND EIQ IN FUTURE (CHECK ONE) <input type="checkbox"/> Facility Mailing Address <input type="checkbox"/> Parent Company Mailing Address		
PRODUCT/PRINCIPAL ACTIVITY			SIC	NAICS		NUMBER OF EMPLOYEES		
	LATITUDE	LONGITUDE	UTM COORDINATES					
DEGREES			ZONE	EASTING (M)	NORTHING (M)	ACC (M)	HORIZONTAL DATUM (CHECK ONE)	
MINUTES							<input type="checkbox"/> NAD27	<input type="checkbox"/> WGS84
SECONDS							<input type="checkbox"/> NAD83	
PARENT COMPANY NAME				PHONE NUMBER WITH AREA CODE		EXT.	FAX NUMBER WITH AREA CODE	
MAILING ADDRESS				CITY		STATE	ZIP CODE +4	
CONTACT PERSON NAME		CONTACT PERSON TITLE		CONTACT PERSON E-MAIL			COUNTRY	
TOTAL PLANT EMISSIONS FROM FORM 3.0 (TONS PER YEAR)								
PM ₁₀	SO _x	NO _x	VOC	CO	LEAD	HAPs	PM _{2.5} NH ₃	
<p>The undersigned hereby certifies that they have personally examined and are familiar with the information and statements contained herein and further certifies that they believe this information and statements to be true, accurate and complete. The undersigned certifies that knowingly making a false statement or misrepresenting the facts presented in this document is a violation of state law.</p>								
PRINT NAME OF PERSON COMPLETING FORM				TITLE		PAYMENT AMOUNT		
SIGNATURE				DATE		CHECK/AUTH. NO.		
PRINT NAME OF AUTHORIZED COMPANY REPRESENTATIVE				TITLE		PAYMENT DATE		
SIGNATURE				DATE				
CONTACT INFORMATION					OFFICE USE ONLY			
Missouri Department of Natural Resources Air Pollution Control Program 1659 E. Elm St. Jefferson City, MO 65101 573-751-4817 www.dnr.mo.gov/env/apcp/moeis/emissionsreporting.htm eiq@dnr.mo.gov					LOGGED IN BY		DATE	



MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM
EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 1.1 PROCESS FLOW DIAGRAM

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
---------------	-----------------	-----------	--------------

Use this page or a separate sheet to provide a Process Flow Diagram per the instructions for Form 1.1 in the Instruction Packet. Do not forget to include all processes used in your facility. Make sure to label each process and piece of equipment and provide an identification number for all emission units (including fugitive emissions) and air pollution control equipment. Make sure to use the same identification number throughout the entire EIQ.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ

FORM 2.0 PART 70 OPERATING PERMIT EMISSION UNIT INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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1. EMISSION UNIT IDENTIFICATION

EMISSION UNIT NO.	EMISSION UNIT DESCRIPTION
-------------------	---------------------------

2. EMISSION PROCESS DETAIL

SEG. NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC DESCRIPTION
----------	----------------------------------	-----------------

DO THE EMISSIONS FROM THIS UNIT FLOW THROUGH A STACK OR VENT? Yes No IF YES, COMPLETE FORM 2.0S STACK/VENT INFORMATION

ARE THE EMISSIONS FROM THIS UNIT FUGITIVE? Yes No IF FUGITIVE, WHAT PERCENTAGE?

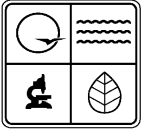
3. OPERATING RATE/SCHEDULE

ANNUAL THROUGHPUT		UNITS		DEC-FEB (%)	For coal or fuel oil, list details below
				MAR-MAY (%)	
HOURS / DAY	DAYS / WEEK	WEEKS / YR	TOTAL HOURS / YR	JUN-AUG (%)	ASH % (INCLUDE IN EF)
				SEPT-NOV (%)	SULFUR % (INCLUDE IN EF)

4. ANNUAL FUEL CHARACTERISTICS

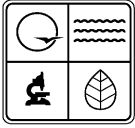
5. EMISSION CALCULATIONS

AIR POLLUTANT	1. SOURCE OF EMISSION FACTOR	2. EMISSION FACTOR	3. EMISSION FACTOR (EF) CONTROL STATUS	4. OVERALL CONTROL EFFICIENCY (% FORMAT)	5. ACTUAL EMISSIONS (TONS/YR)	Annual Throughput × Emission Factor (1-Overall Control Eff/100) ÷ 2,000 = Actual Emissions (tons)	
Instructions:	Choose from the Source of Emission Factor List at lower right	Lbs/unit of throughput	If EF includes control mark "C", otherwise "U"	Combination of all capture and destruction efficiencies	If controlled, include Form 2.0C Control Device Listing	List Other Worksheets or AP-42/Other Reference	
PM₁₀ FIL *						SOURCE OF EMISSION FACTOR LIST	
SO_x						1. CEM	Include documentation
						2. Stack Test	Include documentation
NO_x						3. Mass Balance	Include documentation
						4. AP-42	Include reference
VOC						4F. FIRE or webFIRE	
						5. Other	Include documentation
CO						EC. Engr Calc	Include documentation
						LS. Landfill Spdsht	Include documentation
LEAD						TK. TANKS Program	Supply TANKS output
						2.3. VOC Mass Bal	Complete Form 2.3
HAPs						2.4. Liquid Loading	Complete Form 2.4
						2.7. Haul Road	Complete Form 2.7
PM_{2.5} FIL *						2.8. Storage Pile	Complete Form 2.8
						2.T. HAP Worksheet	Complete Form 2.T
NH₃						2.9. Stack Test/CEM	Complete Form 2.9
						2.0L. Landfill	Complete Form 2.0L
PM CON *						* If PM CON is reported, PM10 and PM25 entries above are required and should represent only the filterable PM10 and filterable PM25.	



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0C CONTROL DEVICE INFORMATION

FACILITY NAME				FIPS COUNTY NO.		PLANT NO.		YEAR OF DATA	
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	DEVICE NO.		DEVICE CODE		
CONTROL DEVICE DESCRIPTION						OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled			
ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? <input type="checkbox"/> Yes <input type="checkbox"/> No									
LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON FORM 2.0S STACK/VENT INFORMATION)									
AIR POLLUTANT	PM₁₀	SO_x	NO_x	VOC	CO	LEAD	HAP(s)	PM_{2.5}	NH₃
CAPTURE EFFICIENCY (%)									
CONTROL DEVICE EFFICIENCY (%)									
SOURCE OF EFFICIENCY (CODES)									
CAS NUMBER(S) FOR CONTROLLED HAPS									
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	DEVICE NO.		DEVICE CODE		
CONTROL DEVICE DESCRIPTION						OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled			
ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? <input type="checkbox"/> Yes <input type="checkbox"/> No									
LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON FORM 2.0S STACK/VENT INFORMATION)									
AIR POLLUTANT	PM₁₀	SO_x	NO_x	VOC	CO	LEAD	HAP(s)	PM_{2.5}	NH₃
CAPTURE EFFICIENCY (%)									
CONTROL DEVICE EFFICIENCY (%)									
SOURCE OF EFFICIENCY (CODES)									
CAS NUMBER(S) FOR CONTROLLED HAPS									
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	DEVICE NO.		DEVICE CODE		
CONTROL DEVICE DESCRIPTION						OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled			
ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY? <input type="checkbox"/> Yes <input type="checkbox"/> No									
LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON FORM 2.0S STACK/VENT INFORMATION)									
AIR POLLUTANT	PM₁₀	SO_x	NO_x	VOC	CO	LEAD	HAP(s)	PM_{2.5}	NH₃
CAPTURE EFFICIENCY (%)									
CONTROL DEVICE EFFICIENCY (%)									
SOURCE OF EFFICIENCY (CODES)									
CAS NUMBER(S) FOR CONTROLLED HAPS									

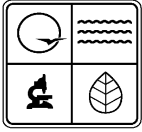


MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ

FORM 2.0C PART 70 OPERATING PERMIT CONTROL DEVICE INFORMATION

FACILITY NAME				FIPS COUNTY NO.		PLANT NO.		YEAR OF DATA		
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	DEVICE NO.		DEVICE CODE			
CONTROL DEVICE DESCRIPTION						OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled				
ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY?						<input type="checkbox"/> Yes <input type="checkbox"/> No				
LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON FORM 2.0S STACK/VENT INFORMATION)										
AIR POLLUTANT	PM₁₀ FIL	SO_x	NO_x	VOC	CO	LEAD	HAP(s)	PM_{2.5} FIL	NH₃	PM CON
CAPTURE EFFICIENCY (%)										
CONTROL DEVICE EFFICIENCY (%)										
SOURCE OF EFFICIENCY (CODES)										
CAS NUMBER(S) FOR CONTROLLED HAPS										
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	DEVICE NO.		DEVICE CODE			
CONTROL DEVICE DESCRIPTION						OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled				
ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY?						<input type="checkbox"/> Yes <input type="checkbox"/> No				
LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON FORM 2.0S STACK/VENT INFORMATION)										
AIR POLLUTANT	PM₁₀ FIL	SO_x	NO_x	VOC	CO	LEAD	HAP(s)	PM_{2.5} FIL	NH₃	PM CON
CAPTURE EFFICIENCY (%)										
CONTROL DEVICE EFFICIENCY (%)										
SOURCE OF EFFICIENCY (CODES)										
CAS NUMBER(S) FOR CONTROLLED HAPS										
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	DEVICE NO.		DEVICE CODE			
CONTROL DEVICE DESCRIPTION						OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled				
ARE THE EMISSIONS CONTROLLED THROUGH THE STACK/VENT ONLY?						<input type="checkbox"/> Yes <input type="checkbox"/> No				
LIST ALL STACK/VENT NUMBERS SHARING THIS CONTROL DEVICE (LISTED ON FORM 2.0S STACK/VENT INFORMATION)										
AIR POLLUTANT	PM₁₀ FIL	SO_x	NO_x	VOC	CO	LEAD	HAP(s)	PM_{2.5} FIL	NH₃	PM CON
CAPTURE EFFICIENCY (%)										
CONTROL DEVICE EFFICIENCY (%)										
SOURCE OF EFFICIENCY (CODES)										
CAS NUMBER(S) FOR CONTROLLED HAPS										



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0K CHARCOAL KILN INFORMATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.

COMPLETE ONE OF THE FOLLOWING SECTIONS FOR EACH CHARCOAL KILN/CONCRETE PAD

KILN ID NO.	YEAR KILN BEGAN OPERATING	TONS PRODUCED THIS YEAR	IF NO PRODUCTION, LAST YEAR OF PRODUCTION	AFTERBURNER OR RECOVERY SYSTEM <input type="checkbox"/> Yes <input type="checkbox"/> No	
MAXIMUM TONS PRODUCED IN ONE BATCH	NUMBER OF HOURS REQUIRED TO PRODUCE ONE BATCH	MAX HOURLY DESIGN RATE	DOLLARS SPENT ON RENOVATION		
			LAST YEAR		SINCE 1991

PRESENT CONDITION

KILN ID NO.	YEAR KILN BEGAN OPERATING	TONS PRODUCED THIS YEAR	IF NO PRODUCTION, LAST YEAR OF PRODUCTION	AFTERBURNER OR RECOVERY SYSTEM <input type="checkbox"/> Yes <input type="checkbox"/> No	
MAXIMUM TONS PRODUCED IN ONE BATCH	NUMBER OF HOURS REQUIRED TO PRODUCE ONE BATCH	MAX HOURLY DESIGN RATE	DOLLARS SPENT ON RENOVATION		
			LAST YEAR		SINCE 1991

PRESENT CONDITION

KILN ID NO.	YEAR KILN BEGAN OPERATING	TONS PRODUCED THIS YEAR	IF NO PRODUCTION, LAST YEAR OF PRODUCTION	AFTERBURNER OR RECOVERY SYSTEM <input type="checkbox"/> Yes <input type="checkbox"/> No	
MAXIMUM TONS PRODUCED IN ONE BATCH	NUMBER OF HOURS REQUIRED TO PRODUCE ONE BATCH	MAX HOURLY DESIGN RATE	DOLLARS SPENT ON RENOVATION		
			LAST YEAR		SINCE 1991

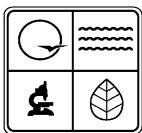
PRESENT CONDITION

KILN ID NO.	YEAR KILN BEGAN OPERATING	TONS PRODUCED THIS YEAR	IF NO PRODUCTION, LAST YEAR OF PRODUCTION	AFTERBURNER OR RECOVERY SYSTEM <input type="checkbox"/> Yes <input type="checkbox"/> No	
MAXIMUM TONS PRODUCED IN ONE BATCH	NUMBER OF HOURS REQUIRED TO PRODUCE ONE BATCH	MAX HOURLY DESIGN RATE	DOLLARS SPENT ON RENOVATION		
			LAST YEAR		SINCE 1991

PRESENT CONDITION

KILN ID NO.	YEAR KILN BEGAN OPERATING	TONS PRODUCED THIS YEAR	IF NO PRODUCTION, LAST YEAR OF PRODUCTION	AFTERBURNER OR RECOVERY SYSTEM <input type="checkbox"/> Yes <input type="checkbox"/> No	
MAXIMUM TONS PRODUCED IN ONE BATCH	NUMBER OF HOURS REQUIRED TO PRODUCE ONE BATCH	MAX HOURLY DESIGN RATE	DOLLARS SPENT ON RENOVATION		
			LAST YEAR		SINCE 1991

PRESENT CONDITION



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0L LANDFILL WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
EMISSION UNIT NO.		SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.

LANDFILL INFORMATION

TYPE OF LANDFILL (CHECK ONE) <input type="checkbox"/> New <input type="checkbox"/> Existing <input type="checkbox"/> Closed	IF CLOSED, DATE OF LAST WASTE ACCEPTED 	<input type="checkbox"/> Used EPA's software (LANDGEM) (attach summary)
	TIME SINCE CLOSURE (YRS.) c= CELL(B15)	
TYPE OF CONTROL (CHECK ONE) <input type="checkbox"/> Flare <input type="checkbox"/> Control system <input type="checkbox"/> Enclosed combustor <input type="checkbox"/> None	TIME SINCE INITIAL REFUSE PLACEMENT (YRS.) t= CELL(B13)	<input type="checkbox"/> Used DNR spreadsheet created with Microsoft® Excel® (attach copies)
	CAPTURE EFFICIENCY CELL(B17)	
DESTRUCTION EFFICIENCY (%) CELL(B24)		LANDFILL DESIGN CAPACITY (CUBIC METERS)
AVERAGE ANNUAL REFUSE ACCEPTANCE RATE (Mg/YR.) R= CELL(B14)		MASS OF SOLID WASTE IN THE LANDFILL (Mg)
ACRES OF LANDFILL CELL(B16)		GAS SENT OFF-SITE (MMCF) CELL(B18)

CALCULATION OF EMISSIONS

Default values are 100 m³/Mg for L (Methane generation rate potential) and 0.04/yr for k (Methane generation rate constant).

METHANE GENERATION RATE (QCH ₄) (m ³ /YR.) CELL(G11)	METHANE GENERATION RATE (MMCF) CELL(H11)
SO ₂ EMISSIONS (LB./YR.) CELL(N35)	HCl EMISSIONS (LB./YR.) CELL(I50)
NMOC (VOC) FUGITIVE EMISSIONS (LB./YR.) CELL(G88)	NMOC (HAP ONLY) FUGITIVE EMISSIONS (LB./YR.) CELL(G51)
NMOC (VOC) COLLECTED, UNCONTROLLED (LB./YR.) CELL(I88)	NMOC (HAP ONLY) COLLECTED, UNCONTROLLED (LB./YR.) CELL(I51)
NMOC (VOC) EMISSIONS FROM CONTROL (LB./YR.) CELL(K88)	NMOC (HAP ONLY) EMISSIONS FROM CONTROL (LB./YR.) CELL(K51)

CALCULATION OF EMISSION FACTORS

Report fugitive emissions and controlled emissions on separate Forms 2.0.

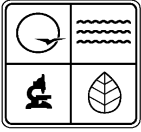
Fugitive emissions use SCC 50100402, throughput units of acres.

VOC FUGITIVE EMISSION FACTOR (LB./ACRE) CELL(L31)	HAP FUGITIVE EMISSION FACTOR (LB./ACRE) CELL(L32)
--	--

Waste gas flares use SCC 50100410, throughput unit of MMCF burned.

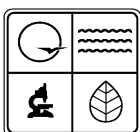
For SCCs for other controls, contact your regulatory agency.

VOC TO CONTROL EMISSION FACTOR (LB./MMCF) CELL(N31)	HAP TO CONTROL EMISSION FACTOR (LB./MMCF) CELL(N33)
--	--



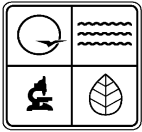
MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0P PORTABLE PLANT INFORMATION

COMPANY NAME		FIPS COUNTY NO.		PLANT NO.		YEAR OF DATA	
PORTABLE EQUIPMENT OPERATING SITE INFORMATION							
FIPS COUNTY NO.		PLANT NO.	PROJECT NO.	TYPE OF INSTALLATION/UNIT			
SITE OR LOCATION NAME			PERCENT OF TOTAL THROUGHPUT AT SITE (%)		FIRST DATE AT SITE	LAST DATE AT SITE	
ADDRESS			Period of Operation		HOURS	DAYS	WEEKS
CITY			ZIP CODE +4		PHONE NUMBER WITH AREA CODE		
	Latitude	Longitude	UTM Coordinates				
Degrees			EASTING (M)	NORTHING (M)	ACC (M)	HORIZONTAL DATUM (CHECK ONE)	
Minutes						<input type="checkbox"/> NAD27 <input type="checkbox"/> NAD83	
Seconds						<input type="checkbox"/> WGS84	
PORTABLE EQUIPMENT OPERATING SITE INFORMATION							
FIPS COUNTY NO.		PLANT NO.	PROJECT NO.	TYPE OF INSTALLATION/UNIT			
SITE OR LOCATION NAME			PERCENT OF TOTAL THROUGHPUT AT SITE (%)		FIRST DATE AT SITE	LAST DATE AT SITE	
ADDRESS			Period of Operation		HOURS	DAYS	WEEKS
CITY			ZIP CODE +4		PHONE NUMBER WITH AREA CODE		
	Latitude	Longitude	UTM Coordinates				
Degrees			EASTING (M)	NORTHING (M)	ACC (M)	HORIZONTAL DATUM (CHECK ONE)	
Minutes						<input type="checkbox"/> NAD27 <input type="checkbox"/> NAD83	
Seconds						<input type="checkbox"/> WGS84	
PORTABLE EQUIPMENT OPERATING SITE INFORMATION							
FIPS COUNTY NO.		PLANT NO.	PROJECT NO.	TYPE OF INSTALLATION/UNIT			
SITE OR LOCATION NAME			PERCENT OF TOTAL THROUGHPUT AT SITE (%)		FIRST DATE AT SITE	LAST DATE AT SITE	
ADDRESS			Period of Operation		HOURS	DAYS	WEEKS
CITY			ZIP CODE +4		PHONE NUMBER WITH AREA CODE		
	Latitude	Longitude	UTM Coordinates				
Degrees			EASTING (M)	NORTHING (M)	ACC (M)	HORIZONTAL DATUM (CHECK ONE)	
Minutes						<input type="checkbox"/> NAD27 <input type="checkbox"/> NAD83	
Seconds						<input type="checkbox"/> WGS84	



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.0S STACK/VENT INFORMATION

FACILITY NAME		FIPS COUNTY NO.		PLANT NO.	YEAR OF DATA
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	<input type="checkbox"/> Stack <input type="checkbox"/> Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A) ^{1/2} (A=CROSS-SECTIONAL AREA IN SQ FEET)	
STACK/VENT NO.	STACK/VENT DESCRIPTION			% OF EMISSIONS RELEASED	
STACK/VENT OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled					
HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	<input type="checkbox"/> Stack <input type="checkbox"/> Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A) ^{1/2} (A=CROSS-SECTIONAL AREA IN SQ FEET)	
STACK/VENT NO.	STACK/VENT DESCRIPTION			% OF EMISSIONS RELEASED	
STACK/VENT OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled					
HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	<input type="checkbox"/> Stack <input type="checkbox"/> Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A) ^{1/2} (A=CROSS-SECTIONAL AREA IN SQ FEET)	
STACK/VENT NO.	STACK/VENT DESCRIPTION			% OF EMISSIONS RELEASED	
STACK/VENT OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled					
HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	<input type="checkbox"/> Stack <input type="checkbox"/> Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A) ^{1/2} (A=CROSS-SECTIONAL AREA IN SQ FEET)	
STACK/VENT NO.	STACK/VENT DESCRIPTION			% OF EMISSIONS RELEASED	
STACK/VENT OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled					
HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	<input type="checkbox"/> Stack <input type="checkbox"/> Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A) ^{1/2} (A=CROSS-SECTIONAL AREA IN SQ FEET)	
STACK/VENT NO.	STACK/VENT DESCRIPTION			% OF EMISSIONS RELEASED	
STACK/VENT OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled					
HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	<input type="checkbox"/> Stack <input type="checkbox"/> Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A) ^{1/2} (A=CROSS-SECTIONAL AREA IN SQ FEET)	
STACK/VENT NO.	STACK/VENT DESCRIPTION			% OF EMISSIONS RELEASED	
STACK/VENT OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled					
HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	<input type="checkbox"/> Stack <input type="checkbox"/> Vent	FOR A NON-CIRCULAR STACK: DIAMETER = (1.128A) ^{1/2} (A=CROSS-SECTIONAL AREA IN SQ FEET)	
STACK/VENT NO.	STACK/VENT DESCRIPTION			% OF EMISSIONS RELEASED	
STACK/VENT OPERATING STATUS (CHECK ONE) <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Dismantled					
HEIGHT (FT.)	DIAMETER (FT.)	TEMPERATURE (F)	VELOCITY (FT./MIN.)	FLOW RATE (CU FT./MIN.)	LIST OTHER POINTS SHARING THIS STACK/VENT



MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.OZ OZONE SEASON INFORMATION - EMISSIONS STATEMENT

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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OPERATING RATE/SCHEDULE (DURING PEAK OZONE SEASON ONLY)

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DAILY THROUGHPUT	UNITS
DAYS/WEEK	WEEKS OF OPERATION	START TIME ON TYPICAL DAY	END TIME ON TYPICAL DAY	

EMISSIONS CALCULATIONS

Air Pollutant	Emission Factor	Control Efficiency (%)	Actual Emissions (lbs./day)
VOC			
NO _x			
CO			

OPERATING RATE/SCHEDULE (DURING PEAK OZONE SEASON ONLY)

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DAILY THROUGHPUT	UNITS
DAYS/WEEK	WEEKS OF OPERATION	START TIME ON TYPICAL DAY	END TIME ON TYPICAL DAY	

EMISSIONS CALCULATIONS

Air Pollutant	Emission Factor	Control Efficiency (%)	Actual Emissions (lbs./day)
VOC			
NO _x			
CO			

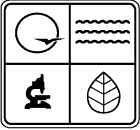
OPERATING RATE/SCHEDULE (DURING PEAK OZONE SEASON ONLY)

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	DAILY THROUGHPUT	UNITS
DAYS/WEEK	WEEKS OF OPERATION	START TIME ON TYPICAL DAY	END TIME ON TYPICAL DAY	

EMISSIONS CALCULATIONS

Air Pollutant	Emission Factor	Control Efficiency (%)	Actual Emissions (lbs./day)
VOC			
NO _x			
CO			

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.1 FUEL COMBUSTION WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.

1. COMBUSTION EQUIPMENT INFORMATION

COAL FIRING CODE LIST	EQUIPMENT DESCRIPTION	YEAR PUT IN SERVICE	COAL FIRING CODE NO. (CODE LIST AT LEFT)	MAXIMUM DESIGN RATE (MILLION BTU/HR.)
1. TANGENTIAL				
2. OPPOSED				
3. FRONT				
4. DRY/WET BOTTOM				
OTHER (SPECIFY)	Sum of total maximum hourly design rates			

COMBUSTION EQUIPMENT USE (CHECK ONE)

Electric power generation
 Industrial use
 Commercial/Institutional
 Space heating
 Other (specify):

COMBUSTION EQUIPMENT CATEGORY - COAL USE ONLY (CHECK ONE)

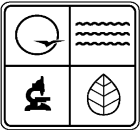
Pulverized coal
 Pulverized coal dry bottom
 Pulverized coal wet bottom
 Cyclone
 Fluidized bed
 Spreader stoker
 Overfeed stoker
 Underfeed stoker
 Hand fired
 Other (specify):

2. FUEL INFORMATION (CHECK ONLY ONE)

LIQUID FUELS	GASEOUS FUELS	SOLID FUELS	OTHER
<input type="checkbox"/> Ethanol <input type="checkbox"/> Fuel oil 1-4 (distillate) <input type="checkbox"/> Fuel oil 5-6 (residual) <input type="checkbox"/> Gasoline <input type="checkbox"/> Kerosene	<input type="checkbox"/> Blast oven gas <input type="checkbox"/> Coke oven gas <input type="checkbox"/> Liquid propane gas (LPG) <input type="checkbox"/> Natural gas	<input type="checkbox"/> Anthracite Coal <input type="checkbox"/> Bagasse <input type="checkbox"/> Bark <input type="checkbox"/> Bituminous coal <input type="checkbox"/> Coke <input type="checkbox"/> Lignite <input type="checkbox"/> Subbituminous coal <input type="checkbox"/> Wood	<input type="checkbox"/> Other (specify):

3. CALCULATION OF MAXIMUM HOURLY DESIGN RATE

TOTAL HEAT CONTENT (BTU/FUEL UNIT)	MAXIMUM HOURLY DESIGN RATE (FUEL UNIT/HR.)	$\text{Maximum Design Rate (mmbtu/hr.)} \times 1,000,000 \text{ (btu/mmbtu)}$ $= \frac{\text{Maximum Design Rate (mmbtu/hr.)} \times 1,000,000 \text{ (btu/mmbtu)}}{\text{Heat Content (btu/fuel unit)}}$



MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.2 INCINERATOR WORKSHEET**

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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1. EQUIPMENT INFORMATION

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SCC UNITS	SEG. NO.
MAXIMUM HOURLY DESIGN RATE	UNITS/HR.	MAKE / MODEL	SERIAL NUMBER

INCINERATOR USE (CHECK ONE):

- Government
 Commercial
 Institutional
 Industrial
 Other (specify):

EQUIPMENT TYPE (CHECK APPROPRIATE BOXES):

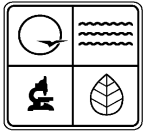
- Pathological
 Sewage sludge
 Multiple chambers
 Controlled air
 Other (specify):

NUMBER OF CHAMBERS NOT INCLUDING STACK	SECONDARY CHAMBER TEMPERATURE (F)
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2. WASTE INFORMATION AND THROUGHPUTS

PROCESS WASTE TYPES	HEAT CONTENT (BTU/UNITS)	ANNUAL THROUGHPUT	UNITS
Total annual throughput =			LBS./YR.
Total annual throughput (TONS/YR.) = {Total annual throughput (LBS./YR.)} / 2,000			TONS/YR.

Enter the total annual throughput (TONS/YR.) into Section 3 on Form 2.0.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.3 VOC PROCESS MASS-BALANCE WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
EMISSION UNIT NO.	SCC	SEG. NO.	

INSTRUCTIONS

If your facility already calculates your VOC or HAP emissions and emission factor directly through a spreadsheet or engineering calculation, this form is **optional** as long as you supply your supporting documentation. This form is designed for annual throughputs measured in **gallons or tons only**. If you use another unit of measure, supply documentation of how you calculated total emissions and an emission factor. Maintain copies of the Material Safety Data Sheet for each material listed and hazardous waste shipment reports for on-demand requests.

1. TOTAL ANNUAL THROUGHPUT AND TOTAL POUNDS OF VOC

APPLICATION METHOD	MATERIAL TYPE	[A] ANNUAL THROUGHPUT (ton/yr. or gal./yr.)	[B] MAXIMUM % BY WT. OF VOC IN MATERIAL	[C] DENSITY (LBS./UNIT) IF (A) IN TONS, (C)=2,000	[D] LBS. OF VOC PER UNIT (B) x (C) = (D)	[E] VOC (LBS./YR.) (A) x (D) = (E)
Enter the total annual throughput value [F] into Section [3], Annual Throughput on Form 2.0		[F] TOTAL ANNUAL THROUGHPUT				[G] TOTAL VOC (LBS./YR.)

2. CALCULATION OF POUNDS OF VOC RECOVERED

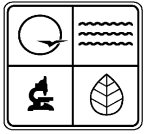
AMOUNT OF MATERIAL SHIPPED AS HAZARDOUS WASTE (LBS./YR.)	x	% VOC CONTENT OF WASTE	=	[H] LBS. OF VOC RECOVERED
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3. CALCULATION OF POUNDS OF VOC EMITTED PRIOR TO CONTROL EQUIPMENT

[G] - [H] = [I] [Total lbs. of VOC] - [lbs. of VOC recovered] =	[I] LBS. OF VOC EMITTED PRIOR TO CONTROL
--	--

4. CALCULATION OF EMISSION FACTOR

[I] / [F] = [J] [lbs of VOC emitted prior to control equipment] / [Total annual throughput] =	Enter [J] on Form 2.0 as VOC EF	[J] EMISSION FACTOR IN LBS./UNIT
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MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.4 VOLATILE ORGANIC LIQUID LOADING WORKSHEET

Note: This form is used to calculate emissions from loading organic liquids into tank trucks, rail tank cars and barges.

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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1. LOADING INFORMATION

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.
ANNUAL THROUGHPUT OF LIQUID (1,000 GALLONS)	CONTROL DEVICE TYPE	CONTROL EFFICIENCY (%)

TYPE OF LOADING (CHECK ONE)

Splash loading
 Submerged loading
 Bottom loading
 Other (specify):

2. CHEMICAL INFORMATION

BULK LIQUID TYPE	MOLECULAR WEIGHT OF MATERIAL LOADED [LB. / (LB./MOLE)]
TRUE VAPOR PRESSURE OF BULK LIQUID (PSIA)	SATURATION FACTOR
TEMPERATURE OF LIQUID (DEGREES RANKINE) = DEGREES FAHRENHEIT + 460 DEGREES FAHRENHEIT	

3. LOADING LOSS EMISSION FACTOR CALCULATION

LOADING LOSS EMISSION FACTOR =

$$12.46 \times (\text{Molecular Weight}) \times (\text{True vapor pressure}) \times (\text{Saturation}) / (\text{Temperature in Degrees Rankine})$$

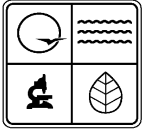
LOADING LOSS EMISSION FACTOR	UNITS
	lbs. per 1,000 gallons

NOTE

Enter the Control Efficiency (%) from Section 1 (above) into Section 5, Column 4 on Form 2.0.
 Enter the Annual Throughput of Liquid from Section 1, expressed in thousands of gallons, into Section 3 on Form 2.0.
 Enter the Loading Loss Emission Factor from Section 3 into the VOC box of Section 5, Column 2 on Form 2.0

Remember when calculating emissions, use a separate Form 2.0, *Emission Unit Information*, for each type of liquid loaded in the tank during the year.

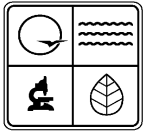
Use the same unit number but with the Source Classification Code that corresponds to the different liquid type.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.5L GENERAL LIQUID STORAGE TANK INFORMATION

FACILITY NAME		FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA		
EMISSION UNIT NO.	TANK ID	SCC (BREATHING OR WORKING)	SEG. NO.	DIAMETER (FT.)	HEIGHT (FT.)	LENGTH (FT.)
CAPACITY (IN THOUSANDS OF GALLONS)		THROUGHPUT (IN THOUSANDS OF GALLONS)		TANKS PROGRAM USED? <input type="checkbox"/> Yes <input type="checkbox"/> No		
CAS NUMBER		CHEMICAL		CHOOSE TYPE OF TANK (CHECK ONE) <input type="checkbox"/> Vertical fixed roof <input type="checkbox"/> Vertical floating roof <input type="checkbox"/> Horizontal fixed roof <input type="checkbox"/> Underground		
EMISSION UNIT NO.	TANK ID	SCC (BREATHING OR WORKING)	SEG. NO.	DIAMETER (FT.)	HEIGHT (FT.)	LENGTH (FT.)
CAPACITY (IN THOUSANDS OF GALLONS)		THROUGHPUT (IN THOUSANDS OF GALLONS)		TANKS PROGRAM USED? <input type="checkbox"/> Yes <input type="checkbox"/> No		
CAS NUMBER		CHEMICAL		CHOOSE TYPE OF TANK (CHECK ONE) <input type="checkbox"/> Vertical fixed roof <input type="checkbox"/> Vertical floating roof <input type="checkbox"/> Horizontal fixed roof <input type="checkbox"/> Underground		
EMISSION UNIT NO.	TANK ID	SCC (BREATHING OR WORKING)	SEG. NO.	DIAMETER (FT.)	HEIGHT (FT.)	LENGTH (FT.)
CAPACITY (IN THOUSANDS OF GALLONS)		THROUGHPUT (IN THOUSANDS OF GALLONS)		TANKS PROGRAM USED? <input type="checkbox"/> Yes <input type="checkbox"/> No		
CAS NUMBER		CHEMICAL		CHOOSE TYPE OF TANK (CHECK ONE) <input type="checkbox"/> Vertical fixed roof <input type="checkbox"/> Vertical floating roof <input type="checkbox"/> Horizontal fixed roof <input type="checkbox"/> Underground		
EMISSION UNIT NO.	TANK ID	SCC (BREATHING OR WORKING)	SEG. NO.	DIAMETER (FT.)	HEIGHT (FT.)	LENGTH (FT.)
CAPACITY (IN THOUSANDS OF GALLONS)		THROUGHPUT (IN THOUSANDS OF GALLONS)		TANKS PROGRAM USED? <input type="checkbox"/> Yes <input type="checkbox"/> No		
CAS NUMBER		CHEMICAL		CHOOSE TYPE OF TANK (CHECK ONE) <input type="checkbox"/> Vertical fixed roof <input type="checkbox"/> Vertical floating roof <input type="checkbox"/> Horizontal fixed roof <input type="checkbox"/> Underground		
EMISSION UNIT NO.	TANK ID	SCC (BREATHING OR WORKING)	SEG. NO.	DIAMETER (FT.)	HEIGHT (FT.)	LENGTH (FT.)
CAPACITY (IN THOUSANDS OF GALLONS)		THROUGHPUT (IN THOUSANDS OF GALLONS)		TANKS PROGRAM USED? <input type="checkbox"/> Yes <input type="checkbox"/> No		
CAS NUMBER		CHEMICAL		CHOOSE TYPE OF TANK (CHECK ONE) <input type="checkbox"/> Vertical fixed roof <input type="checkbox"/> Vertical floating roof <input type="checkbox"/> Horizontal fixed roof <input type="checkbox"/> Underground		
EMISSION UNIT NO.	TANK ID	SCC (BREATHING OR WORKING)	SEG. NO.	DIAMETER (FT.)	HEIGHT (FT.)	LENGTH (FT.)
CAPACITY (IN THOUSANDS OF GALLONS)		THROUGHPUT (IN THOUSANDS OF GALLONS)		TANKS PROGRAM USED? <input type="checkbox"/> Yes <input type="checkbox"/> No		
CAS NUMBER		CHEMICAL		CHOOSE TYPE OF TANK (CHECK ONE) <input type="checkbox"/> Vertical fixed roof <input type="checkbox"/> Vertical floating roof <input type="checkbox"/> Horizontal fixed roof <input type="checkbox"/> Underground		



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.7 HAUL ROAD FUGITIVE EMISSIONS WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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INSTRUCTIONS

This worksheet is **optional**

If the sum of all Vehicle Miles Traveled, or VMT, at the facility is less than 100, this form is not necessary and the emission unit should be marked as insignificant on Form 1.2.

If the haul road parameters are the same as last year and the updated emission factor equation is used (AP-42, Section 13.2.2, *Unpaved Roads*, Nov. 2006), enter the current annual VMT as the throughput on Form 2.0.

Do not calculate a separate emission factor for each vehicle class. Use the weighted average for the entire fleet traveling the haul road to calculate the emission factors.

1. HAUL ROAD INFORMATION

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	Type of Dust Control <small>(check one)</small> <input type="checkbox"/> Paved with Washing <input type="checkbox"/> Paved <input type="checkbox"/> Surfactant Spray <input type="checkbox"/> Water Spray Documented <input type="checkbox"/> Water Spray <input type="checkbox"/> Other - Specify <input type="checkbox"/> No Controls	Control Efficiency 95% 90% 90% 90% 50% 0%
LENGTH OF ROAD (MILES): IF ONE-WAY, DIVIDE BY 2				
SILT CONTENT (%) (DEFAULT = 8.3%)		SURFACE MATERIAL OF ROAD		
DAYS OF RAIN WITH AT LEAST 0.01" PER YEAR (DEFAULT = 105)				

2. HAUL TRUCK INFORMATION

MAKE/MODEL	UNLOADED TRUCK WEIGHT (TONS) — WEIGHTED AVERAGE FOR FLEET
AVERAGE WEIGHT OF MATERIAL PER LOAD (TONS)	AVERAGE LOADED WEIGHT (TONS) — WEIGHTED AVERAGE FOR FLEET

3. MATERIAL HAULED

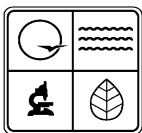
TYPE OF MATERIALS HAULED	ANNUAL AMOUNT HAULED (TONS)
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4. CALCULATION OF ANNUAL VEHICLES MILES TRAVELED

ANNUAL VMT	$\text{Annual VMT} = \frac{2 \times (\text{Length of road}) \times (\text{Annual amount hauled})}{(\text{Average weight of material per load})}$
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5. CALCULATION OF HAUL ROAD UNCONTROLLED EMISSION FACTOR

PM _{2.5} Emission Factor	$0.15 \times \left(\frac{\text{Silt Content \%}}{12} \right)^{0.9} \times \left(\frac{\text{Unloaded truck weight} + \text{Loaded truck weight (tons)}}{6} \right)^{0.45} \times \left(\frac{365 - \text{Days of Rain}}{365} \right)$	PM _{2.5} EMISSION FACTOR
PM ₁₀ Emission Factor	$1.5 \times \left(\frac{\text{Silt Content \%}}{12} \right)^{0.9} \times \left(\frac{\text{Unloaded truck weight} + \text{Loaded truck weight (tons)}}{6} \right)^{0.45} \times \left(\frac{365 - \text{Days of Rain}}{365} \right)$	PM ₁₀ EMISSION FACTOR



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.8 STORAGE PILE WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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1. STORAGE PILE INFORMATION

EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)	SEG. NO.	TYPE OF MATERIAL STORED
	ACTIVITY		
	WIND EROSION		
MOISTURE CONTENT (%) (DEFAULT = 0.7%)	AREA OF STORAGE PILE (ACRES)		
SILT CONTENT(%) (DEFAULT = 1.6%)	RAW MATERIAL LOADING METHOD (CHECK ONE):	RAW MATERIAL UNLOADING METHOD (CHECK ONE):	
STORAGE DURATION (DAYS)	<input type="checkbox"/> Barge	<input type="checkbox"/> Barge	
ANNUAL AMOUNT STORED (TONS)	<input type="checkbox"/> Rail	<input type="checkbox"/> Rail	
MAXIMUM HOURLY AMOUNT STORED (TONS)	<input type="checkbox"/> Truck	<input type="checkbox"/> Truck	
	<input type="checkbox"/> Conveyor	<input type="checkbox"/> Conveyor	
	<input type="checkbox"/> Other (specify)	<input type="checkbox"/> Other (specify)	
	_____	_____	

2. OTHER FACTORS AFFECTING EMISSION RATES

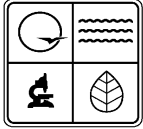
MEAN WIND SPEED (MPH) (DEFAULT = 10 MPH)	% OF TIME WIND > 12 MPH (DEFAULT = 32%)
DRY DAYS PER YEAR (DEFAULT = 260 DAYS)	VEHICLE ACTIVITY FACTOR (DEFAULT = 1.0)

4. STORAGE PILE EMISSION FACTOR CALCULATIONS

CALCULATION	FORMULA	RESULT
[3-A-1] Load In - Load Out Component (lb./ton)	$0.0032 \times .35 \times (\text{Mean wind speed} / 5)^{1.3} / (\text{Moisture content} \% / 2)^{1.4}$	
[3-A-2] Vehicle Activity Component (lb./ton)	$0.05 \times (\text{Silt content} \% / 1.5) \times (\text{Dry days per year} / 235) \times \text{Vehicle Activity Factor}$	
[3-A-3] Activity PM10 Emission Factor (lb./ton)	[3-A-1] Load In - Load Out Component + [3-A-2] Vehicle Activity Component	
[3-B] Wind Erosion PM10 Emission Factor (lb./acre-yr.)	$0.85 \times (\text{Silt content} \% / 1.5) \times (\text{Storage duration (Days)}) \times (\text{Dry days per year} / 235) \times (\% \text{ of time wind} > 12 \text{ MPH} / 15)$	

NOTE

If you use a Source Classification Code and emission factor from the list in the instructions for this form, make sure to complete Section 1, Storage Pile Information for each storage pile.

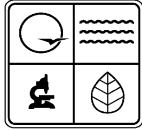


MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ

FORM 2.9 STACK TEST/CONTINUOUS EMISSIONS MONITOR WORKSHEET

FACILITY NAME		FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.	STACK NO.
TYPE <input type="checkbox"/> CEM <input type="checkbox"/> Stack test	POLLUTANT TESTED	CAS NUMBER		Note: Use a separate worksheet for each pollutant tested.
1. EMISSION SOURCE INFORMATION				
EQUIPMENT MAKE/MODEL				
TYPE OF CONTROL DEVICE				
LIMITATIONS ON EMISSIONS, PRODUCTION OR OPERATING TIME (IF ANY)				
2. STACK TEST INFORMATION				
TESTING FIRM NAME				
TESTING FIRM ADDRESS		CITY	STATE	ZIP CODE + 4
EPA METHOD(S) USED		TEST DATE(S)	RESULTS	COMPLIANCE <input type="checkbox"/> Yes <input type="checkbox"/> No
TEST TECHNIQUE (CHECK ONE) <input type="checkbox"/> Operational Rate <input type="checkbox"/> Maximum Design Rate <input type="checkbox"/> Both			LATEST CALIBRATION OF TESTING EQUIPMENT	
AGENCY OBSERVING TEST (CHECK ONE) <input type="checkbox"/> EPA <input type="checkbox"/> DNR <input type="checkbox"/> Other			NAME OF OBSERVER(S)	
3. CONTINUOUS EMISSION MONITORING INFORMATION				
CONCENTRATION OF POLLUTANT	UNITS	FLOW RATE OF STACK	UNITS	
LATEST CALIBRATION OF MONITOR		RESULTS OF CALIBRATION		
MONITOR AVERAGING PERIOD		PERCENT MONITOR DOWN TIME		
4. EMISSION FACTOR CALCULATION				
EMISSION RATE	UNITS	Note: Documentation should include summary page information from the test data to verify the emission and production rate.		
PRODUCTION RATE	UNITS/HR.			
EMISSION FACTOR = [[EMISSION RATE] / [PRODUCTION RATE]]				
EMISSION FACTOR				UNITS
Enter the emission factor into the appropriate box in Section 5, Column 3 on Form 2.0. If applicable, enter the control device type and control efficiency (%) in Section 5 on Form 2.0.				



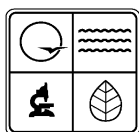
MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 2.T HAZARDOUS AIR POLLUTANT WORKSHEET

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
EMISSION UNIT NO.	SOURCE CLASSIFICATION CODE (SCC)		SEG. NO.

Use this form to report any Hazardous Air Pollutant, or HAP, which is emitted in any amount greater than the chemical reporting levels per each emission unit. The instructions for this form provide a list of the HAPs regulated under the Clean Air Act. The amount emitted (Column 4) should be reported before control equipment reductions are applied. Provide documentation (other worksheets, etc.) if the amount in Column 3 does not equal the amount in Column 4. The HAP reporting levels per emission unit are as follows: Category 1 HAPs - sum of 20 pounds per year; All other HAPs - sum of 200 pounds per year.

1. HAP CHEMICAL	2. CAS NUMBER	3. AMOUNT USED OR HANDLED (LBS./YR.)	4. UNCONTROLLED AMOUNT EMITTED (LBS./YR.)	5. UNCONTROLLED EMISSIONS REPORTED AS VOC OR PM10 (LBS./YR.)	6. UNCONTROLLED EMISSIONS REPORTED AS HAPs (LBS./YR.)	7. HAP CONTROL DEVICE(S)	8. CONTROL EFFICIENCY (%)	9. CONTROLLED EMISSIONS REPORTED AS VOC OR PM10 (LBS./YR.)	10. CONTROLLED EMISSIONS REPORTED AS HAPs (LBS./YR.)
		HAP Emission Totals =		SUM (LBS./YR.)	SUM (LBS./YR.)			SUM (LBS./YR.)	SUM (LBS./YR.)
Uncontrolled HAP Emission Factor =		Sum of uncontrolled emissions reported as HAPs (Column 6 Total)/Annual Throughput (Form 2.0)			11. HAP EMISSION FACTOR				

Enter the HAP emission factor for all chemicals that are not reported as VOCs or PM10 from Block 11 above as the HAP Emission Factor in Section 5 on Form 2.0.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 3.0 EMISSIONS FEE CALCULATION

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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1.	Use one row to list the emissions from one emission unit. Sum the emissions in the page total box at the bottom of the column. If more than one page is needed, use the first row of the duplicated page to list the page totals from this page. Express figures in tons per year and round to two decimal places.								
EMISSION UNIT NO.									
SCC	AIR POLLUTANT								
	PM₁₀	SO_x	NO_x	VOC	CO	LEAD	HAPs	PM_{2.5}	NH₃
PAGE TOTALS									

Note: Fill out the lower portion of this form one time only.

2. ACTUAL EMISSIONS (Use the sum of all page totals for each pollutant for actual emission figures below.)

Total	PM₁₀	SO_x	NO_x	VOC	CO	LEAD	HAPs	PM_{2.5}	NH₃

Copy the actual emissions from section 2 to the appropriate box(es) in the Total Plant Emissions Section of *Form 1.0 General Plant Information*.

3. CHARGEABLE EMISSIONS (Maximum 4,000 Tons/Yr. cap per pollutant)

Total						NO FEES FOR CO			NO FEES FOR PM_{2.5}	NO FEES FOR NH₃

4. SUM OF CHARGEABLE EMISSIONS SUBJECT TO FEES

Round chargeable emissions to the nearest whole ton. The minimum emission tonnage is one ton, and the maximum is 12,000 tons per year.

5. TOTAL ANNUAL EMISSIONS FEE

Multiply the sum of chargeable emissions as calculated in section 4 by \$40 and enter this amount in section 5. The minimum fee is \$40.

\$

6. ANNUAL EMISSIONS FEE REMITTED TO THE CITY OF KANSAS CITY OR ST. LOUIS COUNTY LOCAL AIR AGENCY

CHECK NUMBER	CHECK DATE	AMOUNT REMITTED IN CALENDAR YEAR OF RECORD

7. ANNUAL EMISSIONS FEE REMITTED TO THE STATE (SECTION 5 MINUS SECTION 6)

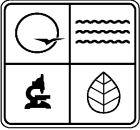
CHECK NUMBER	CHECK DATE	CHECK AMOUNT
		\$

8. INCLUDE A CHECK FOR THE AMOUNT IN SECTION 7, PAYABLE TO THE MISSOURI AIR POLLUTION CONTROL PROGRAM.

Mail the check for the emissions fee to the State Air Agency listed on Form 1.0.

9. SEND THE COMPLETED QUESTIONNAIRE AND ANY SUPPORTING DOCUMENTATION TO THE AGENCY LISTED AT THE BOTTOM OF FORM 1.0 GENERAL PLANT INFORMATION.

Facilities within local air program jurisdiction only need to include copies of *Form 1.0 General Plant Information*, *Form 3.0 Emissions Fee Calculation* and *Form 4.0 Financial Cost Estimate* with the emissions fee check.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

**EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 3.0 CK CHARCOAL KILN EMISSIONS FEE CALCULATION**

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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1.	Use one row to list the emissions from one emission unit. Sum the emissions in the page total box at the bottom of the column. If more than one page is needed, use the first row of the duplicated page to list the page totals from this page. Express figures in tons per year and round to two decimal places.								
EMISSION UNIT NO									
SCC	AIR POLLUTANT								
	PM₁₀	SO_x	NO_x	VOC	CO	LEAD	HAPs	PM_{2.5}	NH₃
PAGE TOTALS									

Note: Fill out the lower portion of this form one time only.

2. ACTUAL EMISSIONS (Use the sum of all page totals for each pollutant for actual emission figures below.)									
	PM10	SO_x	NO_x	VOC	CO	LEAD	HAPs	PM2.5	NH₃

Copy the actual emissions from section 2 to the appropriate box(s) in the Total Plant Emissions section of Form 1.0.

3. CHARGEABLE EMISSIONS (Maximum 4,000 Tons/Yr. cap per pollutant)									
					NO FEES FOR CO			NO FEES FOR PM2.5	NO FEES FOR NH3

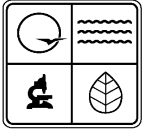
4. SUM OF EMISSIONS									
Round figure to nearest ton per year						Tons/Yr.			

5. TOTAL ANNUAL EMISSIONS FEE									
Facilities that produce charcoal from wood are exempt from fees.									

6. INCLUDE A CHECK FOR THE AMOUNT IN BOX 5, PAYABLE TO THE MISSOURI AIR POLLUTION CONTROL PROGRAM.
Mail the check for the emissions fee to the State Air Agency listed on Form 1.0.

7. SEND THE COMPLETED QUESTIONNAIRE AND ANY SUPPORTING DOCUMENTATION TO THE AGENCY LISTED AT THE BOTTOM OF FORM 1.0.

Facilities within local air program jurisdiction only need to include copies for Form 1.0, 3.0 and 4.0 with the emissions fee check.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 AIR POLLUTION CONTROL PROGRAM
EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
FORM 4.0 FINANCIAL COST ESTIMATE

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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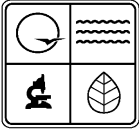
The Missouri Air Conservation Law, Chapter 643, requires a financial cost estimate. The cost estimate is an evaluation of any additional costs of doing business attributable to the Federal Clean Air Act, as amended.

Calculate the cost and expenses incurred to complete the Emission Inventory Questionnaire, including the calculation of emission fees. If you hired an outside consultant, include the time and money charged to your company. Also include any cost incurred if you installed air pollution control equipment, any additional monitoring or testing expense or any additional personnel costs incurred to comply with the Missouri Air Conservation Law and the Federal Clean Air Act, as amended.

Be sure to use the codes found in the instructions: www.dnr.mo.gov/env/apcp/eiq/eiqinformation.htm .

CATEGORY REPORTING	CODE FOR PERSONNEL OR EQUIPMENT	NUMBER OF EMPLOYEES	TOTAL NUMBER OF HOURS REQUIRED	COST PER HOUR	TOTAL COST
1. EIQ reviewed and completed by company personnel (engineers, technical specialists, others).					
2. EIQ completed by outside engineering consultants.					
3. Pollution control equipment, monitoring, or testing (List items separately).					
4. Estimate of the number of jobs added to implement the Federal Clean Air Act, as amended.					
5. Personnel and other costs associated with complying with the Clean Air Act, as amended, not included above.					
Total					

REMARKS



MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM

EMISSIONS INVENTORY QUESTIONNAIRE, OR EIQ
DRY CLEANER - NON-CHLORINATED AND PETROLEUM BASED SOLVENTS

FIPS COUNTY NO.	PLANT NO.	COUNTY	EMISSION UNIT NO.	SCC	SEG. NO.	YEAR OF DATA
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1. DRY CLEANER INFORMATION

FACILITY NAME	CONTACT PERSON NAME/TITLE	PHONE NUMBER WITH AREA CODE	FAX NUMBER WITH AREA CODE
STREET ADDRESS	CITY	STATE	ZIP CODE +4
MAILING ADDRESS (IF DIFFERENT FROM ABOVE)	CITY	STATE	ZIP CODE +4

2. PARENT COMPANY INFORMATION

PARENT COMPANY NAME	OWNER'S PHONE NUMBER WITH AREA CODE
STREET ADDRESS, P.O. BOX OR ROUTE NUMBER	FAX NUMBER WITH AREA CODE
CITY	STATE ZIP CODE +4

3. MACHINE INFORMATION

NUMBER OF DRY TO DRY MACHINES	NUMBER OF TRANSFER MACHINES	TOTAL COMBINED DRYER CAPACITY Lbs.
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4. SOLVENT DETAIL

SOLVENT TYPE (CHECK ONE)
 Stoddard Other (specify):

Calculate Solvent Use	Non-Chlorinated (Non-perc)
Gallons on hand from previous year	
Gallons brought on-site during calendar year (+)	
Unused gallons transferred off-site (-)	
Gallons on hand at end of calendar year (-)	
(a) Total gallons used during calendar year (=)	

5. CALCULATE GALLONS SOLVENT SHIPPED AS WASTE

Number of Filters	×	Conversion Factor (Default = 0.1)	=	(b)	Gallons of Sludge	×	0.1	=	(c)
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6. CALCULATE AIR EMISSIONS FEE

$\frac{[a-b-c] \times \text{Solvent Density}}{2,000 \text{ pounds per ton}}$	Solvent Density lbs./gal. Stoddard: 6.316 Other:	1.	Tons/Yr.
One ton minimum used to calculate fees (See instructions for current fee schedule).	Tons/Yr. (rounded to the nearest whole number) × Emission Fee	2.	\$

7. CERTIFICATION

The undersigned certifies that they have personally examined and are familiar with the information and statements contained herein and further certifies they believe this information is true, accurate and complete. The undersigned certifies that knowingly making a false statement or misrepresenting the facts presented in this document is a violation of state law.

PRINTED NAME AND TITLE OF PERSON COMPLETING FORM	SIGNATURE OF PERSON COMPLETING FORM	DATE
PRINTED NAME AND TITLE OF AUTHORIZED COMPANY REPRESENTATIVE	SIGNATURE OF AUTHORIZED COMPANY REPRESENTATIVE	DATE

CHECK INFORMATION **OFFICE USE ONLY**

EMISSION FEE	CHECK AMOUNT	CHECK DATE	CHECK NO.	LOGGED IN BY	DATE RECEIVED
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