

EMISSION RATES FOR CRITERIA POLLUTANTS AND CO2e

AI ID: 194165 - Koch Methanol St James LLC - Koch Methanol Facility

Activity Number: PER20220006

Permit Number: 2560-00295-V6

Air - Title V Significant Modification

All Phases

Koch Methanol Facility

Subject Item	CO2e			PM 10			PM 2.5			SO2		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EMS 0001 D-04001			2,137.00									
EQT 0001 SMR					13.37			13.37			1.08	
EQT 0002 BLR					8.20			8.20			0.66	
EQT 0003 FLR			47,641.00	0.04	2.50	0.16	0.04	2.50	0.16	0.02	0.67	0.10
EQT 0004 EGEN			208.00	1.19	1.19	0.06	1.19	1.19	0.06	0.04	0.04	<0.01
EQT 0005 FWP-01			34.00	0.20	0.20	0.01	0.20	0.20	0.01	0.01	0.01	<0.01
EQT 0006 FWP-02			34.00	0.20	0.20	0.01	0.20	0.20	0.01	0.01	0.01	<0.01
EQT 0007 CWT			634.00	0.41		1.82	0.19		0.84			
EQT 0022 FWP-03			14.00	0.06	0.06	<0.01	0.06	0.06	<0.01	0.51	0.51	0.03
EQT 0026 EGEN2			9.00	0.02	0.02	<0.01	0.02	0.02	<0.01	<0.001	<0.001	<0.01
EQT 0027 GASTANK												
EQT 0028 RT LOAD					0.28			0.28			0.02	
EQT 0033 E. GEN 01			167.00	0.84	0.84	0.04	0.84	0.84	0.04	0.04	0.04	<0.01
EQT 0034 E. GEN 02			167.00	0.84	0.84	0.04	0.84	0.84	0.04	0.04	0.04	<0.01
FUG 0001 FUG			3,306.00									
FUG 0002 WWT												
GRP 0002 SMR BLR PCS Vent CAP				16.76		73.42	16.76		73.42	1.35		5.91
GRP 0003 MTPCAP			11,282.00	0.16		0.72	0.16		0.72	0.01		0.06
RLP 0024 PCSVENT												

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	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EMS 0001 D-04001							2.30		10.07
EQT 0001 SMR		17.25			98.50			6.71	
EQT 0002 BLR		15.00			48.02			5.94	
EQT 0003 FLR	6.15	523.60	26.92	25.23	2,170.00	110.50	2.25	11,056.44	9.87
EQT 0004 EGEN	38.24	38.24	1.91	20.91	20.91	1.05	2.29	2.29	0.11
EQT 0005 FWP-01	3.96	3.96	0.20	3.44	3.44	0.17	1.47	1.47	0.07
EQT 0006 FWP-02	3.96	3.96	0.20	3.44	3.44	0.17	1.47	1.47	0.07
EQT 0007 CWT				1.07		4.69	8.40		36.79
EQT 0022 FWP-03	1.49	1.49	0.07	0.50	0.50	0.02	0.61	0.61	0.03
EQT 0026 EGEN2	0.92	0.92	0.05	1.85	1.85	0.09	0.46	0.46	0.02
EQT 0027 GASTANK							0.05		0.20
EQT 0028 RT LOAD		9.31			3.07			18.54	
EQT 0033 E. GEN 01	28.48	28.48	1.42	2.90	2.90	0.14	2.06	2.06	0.10
EQT 0034 E. GEN 02	28.48	28.48	1.42	2.90	2.90	0.14	2.06	2.06	0.10
FUG 0001 FUG				3.65		15.97	9.93		43.51
FUG 0002 WWT							1.26		5.53
GRP 0002 SMR BLR PCS Vent CAP	22.50		98.56	9.25		40.51	7.30		31.99
GRP 0003 MTPCAP	5.50		24.09	1.81		7.94	6.36		27.88
RLP 0024 PCSVENT					39.38				

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RLP 0025 CTVENT			1.00									

Emission Rates Notes:

EMS 0001	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 424 of this Title V permit Which Months: All Year
EQT 0001	NOx	Max lb/hr	Maximum hourly emissions of NOx <= 269.10 lb/hr for up to 100 hours of operation (12-month rolling sum) during SCR start up, shut down, or maintenance Which Months: All Year
EQT 0002	NOx	Max lb/hr	Maximum hourly emissions of NOx <= 108.90 lb/hr for up to 500 hours of operation (12-month rolling sum) including, but not limited to, during SCR start up, shut down, or maintenance Which Months: All Year
EQT 0003	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 424 of this Title V permit Which Months: All Year
EQT 0004	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 424 of this Title V permit Which Months: All Year
EQT 0005	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 424 of this Title V permit Which Months: All Year
EQT 0006	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 424 of this Title V permit Which Months: All Year
EQT 0007	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 424 of this Title V permit Which Months: All Year
EQT 0022	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 424 of this Title V permit Which Months: All Year
EQT 0026	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 424 of this Title V permit Which Months: All Year
EQT 0033	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 424 of this Title V permit Which Months: All Year
EQT 0034	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 424 of this Title V permit Which Months: All Year
FUG 0001	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 424 of this Title V permit Which Months: All Year

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RLP 0025 CTVENT				0.02	0.02	0.07			

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Emission Rates Notes:

GRP 0002	CO2e	Tons/Year	Ton/year limit of 1,335,462 tpy is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 424 of this Title V permit Which Months: All Year
GRP 0003	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 424 of this Title V permit Which Months: All Year
RLP 0025	CO2e	Tons/Year	Ton/year limit is provided for informational purposes only. Koch shall comply with a two-tier, facility-wide 12-month rolling average GHG intensity limit as BACT as described in the Preliminary Determination Summary and Specific Condition 8 of PSD Permit PSD-LA-851 and SR 424 of this Title V permit Which Months: All Year