Emission Calculations
From one (1) NG Fired Turbine A-01
El Paso Natural Gas Company - Dilkon Compressor Station
Section 16 & 17, Township 23-N, Range 19-E 1.25 Miles North of Dilkon, AZ

Heat Input Capacity MMBtu/hr	Max. Power Output hp	Hours of Operation hr
179.8	13,166	8,760

1. Potential to Emit of Criteria Pollutants

	Pollutant				
	PM_{10}	SO_2	NOx	VOC	CO
Emission Factor	0.0066 (lbs/MMBtu)	0.0639 (lbs/MMBtu)	0.32 (lbs/MMBtu)	0.0021 (lbs/MMBtu)	0.08 (lbs/MMBtu)
PTE (tons/yr)	**5.2**	**50.3**	**252.0**	**1.7**	**64.6**

Methodology
PTE of PM_{10}, SO_2, NOx, CO and VOC (tons/yr) = Heat Input Capacity (MMBtu/hr) x Emission Factor (lbs/MMBtu) x 8760 hrs/yr x 1 ton/2000 lbs

2. Potential to Emit HAPs

Pollutant	**Emission Factor (lbs/MMBtu)**		**PTE of HAP (tons/yr)**
Formaldehyde	1.69E-02	(g/hp-hr)	2.15E+00
Acetaldehyde	1.73E-02	(g/hp-hr)	2.20E+00
1,3-Butadiene	4.30E-07	(lb/MMBtu)	3.39E-04
Acrolein	6.40E-06	(lb/MMBtu)	5.04E-03
Benzene	1.20E-05	(lb/MMBtu)	9.45E-03
Ethylbenzene	3.20E-05	(lb/MMBtu)	2.52E-02
Naphthalene	1.30E-06	(lb/MMBtu)	1.02E-03
PAH	2.20E-06	(lb/MMBtu)	1.73E-03
Propylene Oxide	2.90E-05	(lb/MMBtu)	2.28E-02
Toluene	1.30E-04	(lb/MMBtu)	1.02E-01
Xylene	6.40E-05	(lb/MMBtu)	5.04E-02
Total HAPs			**4.52**

Emission Factor Basis:
Emission factor for NOx, CO, VOC, SO_2 and PM_{10} are from AP-42 (4/00 version)

Emission Calculations
From one (1) NG Fired Turbine B-01
El Paso Natural Gas Company - Dilkon Compressor Station
Section 16 & 17, Township 23-N, Range 19-E 1.25 Miles North of Dilkon, AZ

Heat Input Capacity MMBtu/hr	Max. Power Output hp	Hours of Operation hr
93.6	11,020	8,760

1. Potential to Emit of Criteria Pollutants

	Pollutant				
	PM_{10}	SO_2	NOx	VOC	CO
Emission Factor	0.0066 (lbs/MMBtu)	0.0639 (lbs/MMBtu)	14.90 (lb/hr)	0.0021 (lbs/MMBtu)	12.20 (lb/hr)
PTE (tons/yr)	**2.7**	**26.2**	**65.3**	**0.9**	**53.4**

Methodology
PTE of PM_{10}, SO_2, and VOC (tons/yr) = Heat Input Capacity (MMBtu/hr) x Emission Factor (lbs/MMBtu) x 8760 hrs/yr x 1 ton/2000 lbs
PTE of NOx and CO (tons/yr) = Emission Factor (lbs/hr) x 8760 hrs/yr x 1 ton/2000 lbs

2. Potential to Emit HAPs

Pollutant	**Emission Factor (lbs/MMBtu)**		**PTE of HAP (tons/yr)**
Formaldehyde	1.69E-02	(g/hp-hr)	1.80E+00
Acetaldehyde	1.73E-02	(g/hp-hr)	1.84E+00
1,3-Butadiene	4.30E-07	(lb/MMBtu)	1.76E-04
Acrolein	6.40E-06	(lb/MMBtu)	2.62E-03
Benzene	1.20E-05	(lb/MMBtu)	4.92E-03
Ethylbenzene	3.20E-05	(lb/MMBtu)	1.31E-02
Naphthalene	1.30E-06	(lb/MMBtu)	5.33E-04
PAH	2.20E-06	(lb/MMBtu)	9.02E-04
Propylene Oxide	2.90E-05	(lb/MMBtu)	1.19E-02
Toluene	1.30E-04	(lb/MMBtu)	5.33E-02
Xylene	6.40E-05	(lb/MMBtu)	2.62E-02
Total HAPs			**3.73**

Emission Factor Basis:
CO and NOx emission factors are from PSD permit AZP 90-3
Emission factor for VOC, SO_2 and PM_{10} are from AP-42 (4/00 version)

Emission Calculations
From one (1) NG Fired Reciprocating Engine AUX-A01
El Paso Natural Gas Company - Dilkon Compressor Station
Section 16 & 17, Township 23-N, Range 19-E 1.25 Miles North of Dilkon, AZ

Heat Input Capacity MMBtu/hr	Max. Power Output hp	Hours of Operation hr
5.6	742	500

1. Potential to Emit of Criteria Pollutants

	Pollutant				
	PM_{10}	SO_2	NOx	VOC	CO
Emission Factor	0.0194 (lbs/MMBtu)	0.0006 (lbs/MMBtu)	17.71 (lb/hr)	0.0296 (lbs/MMBtu)	3.72 (lbs/MMBtu)
PTE (tons/yr)	**0.03**	**0.00**	**4.4**	**0.04**	**5.2**

Methodology
PTE of PM_{10}, SO_2, CO and VOC (tons/yr) = Heat Input Capacity (MMBtu/hr) x Emission Factor (lbs/MMBtu) x 500 hrs/yr x 1 ton/2000 lbs
PTE of NOx (tons/yr) = Emission Factor (lbs/hr) x 500 hrs/yr x 1 ton/2000 lbs

2. Potential to Emit HAPs

Pollutant	**Emission Factor (lbs/MMBtu)**		**PTE of HAP (tons/yr)**
Formaldehyde	9.94E-02	(g/hp-hr)	4.07E-02
Acetaldehyde	1.77E-02	(g/hp-hr)	7.24E-03
1,3-Butadiene	6.63E-04	(lb/MMBtu)	9.28E-04
Acrolein	2.63E-03	(lb/MMBtu)	3.68E-03
Benzene	1.58E-03	(lb/MMBtu)	2.21E-03
Ethylbenzene	2.48E-05	(lb/MMBtu)	3.47E-05
Naphthalene	9.71E-06	(lb/MMBtu)	1.36E-05
PAH	1.41E-04	(lb/MMBtu)	1.97E-04
Propylene Oxide			
Toluene	5.58E-04	(lb/MMBtu)	7.81E-04
Xylene	1.95E-04	(lb/MMBtu)	2.73E-04
Total HAPs			**0.06**

Emission Factor Basis:
NOx emission factors are from PSD permit AZP 90-3
Emission factor for CO, VOC, SO_2 and PM_{10} are from AP-42 (4/00 version)

Emission Calculations
Potential to Emit Greenhouse Gases
El Paso Natural Gas Company - Dilkon Compressor Station
ion 16 & 17, Township 23-N, Range 19-E 1.25 Miles North of Dilkon,

Emission Unit ID	Site Rating		Hours of Operation	ission Factors (kg/MMB			Varming P		Emission Rate (lb/hr)				Emissions (tpy)			
	Hp	MMBtu/hr		CO_2	CH_4	N_2O	CH_4	N_2O	CO_2	CH_4	N_2O	CO_2e	CO_2	CH_4	N_2O	CO_2e
A-01	13,166	179.8	8,760	53	1.00E-03	1.00E-04	21	310	21,017	0.40	0.040	#####	92,053	1.7	0.2	92,143
B-01	11,020	93.6	8,760	53	1.00E-03	1.00E-04	21	310	10,941	0.21	0.021	#####	47,921	0.9	0.1	47,968
AUX A-01	742	5.6	500	53	1.00E-03	1.00E-04	21	310	654.58	0.001	0.001	655	164	0.0	0.0	164
Total													**140,137**	**3**	**0.3**	**140,275**

1 kg = 2.20462 lb

Emission factors for natural gas were obtained from Tables C-1 and C-2 of 40 CFR 98, Subpart C
Global Warming Potentials were obtained from IPCC's Second Assessment Report (SAR, 1996)

Emission Rate (lb/hr) = Heat Input (MMBtu/hr)*Emission Factor (kg/MMBtu)*(2.20462 lbs/1 kg)
Total Emissions (tpy) = Emission Rate (lbs/hr)* Operating Hours (hrs/year)* (1 ton/2000 lbs)

Emission Calculations
Potential to Emit Summary
El Paso Natural Gas Company - Dilkon Compressor Station
Section 16 & 17, Township 23-N, Range 19-E 1.25 Miles North of Dilkon, AZ

Emission Units	PM_{10} (tons/yr)	SO_2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	Total HAPs (tons/yr)
A-01	5.2	50.3	252.0	1.7	64.6	4.6
B-01	2.7	26.2	65.3	0.9	53.4	3.8
AUX A-01	0.03	0.00	4.4	0.04	5.2	0.1
Insignificant Activities *	5.0			5.0		Negligible
Total PTE	**12.9**	**76.5**	**321.7**	**7.6**	**123.2**	**8.4**