

**Davis Monthan Air Force Base
Electric, Gas, and Sanitary Services
Air Quality Permit # 3002**

**Technical Support Document
Revised June 17, 2005**

Summary

This operating permit is issued to Davis Monthan Air Force Base (DMAFB), the Permittee. This facility is a stationary source. All operations and activities at DMAFB fall under several distinct SIC Code designations of which seven require Class II Air Quality Control Permits.

The permit covers the sanitary service and water supply operations at DMAFB and therefore falls under SIC Code 49 (Electric Gas, and Sanitary Services). DMAFB operations in this category include diesel fuel fired emergency generators and a few insignificant activities/equipment (SVEU, building maintenance, and janitorial services).

DMAFB has taken voluntary emission limitations in order to keep hazardous air pollutant (HAPs) emissions below major source thresholds. These are contained in a separate permit (#1701). Synthetic minor limitations are in place in this permit to limit Volatile Organic Compounds (VOC), Carbon Monoxide (CO), Sulfur Oxides (SO_x), and Nitrogen Oxides (NO_x) emissions.

Allowable Emissions Limits

The following emission rates are for reference purposes only and are not intended to be enforced by direct measurement unless otherwise noted in Part B of this permit.

Pollutant	Tons per Year
Volatile Organic Compounds (VOC)	4.8
Carbon Monoxide (CO)	63.6
Sulfur Oxides (SO _x)	3.0
Nitrogen Oxides (NO _x)	27.0
Particulate Matter (as PM ₁₀)	2.1
Lead	<1
Hazardous Air Pollutants (HAPs)	See Permit 1701

Emissions calculations are based on emissions inventory. They were provided by the applicant and checked. The June 2005 minor permit revision included the replacement of source number 19204 (Cummins Generator 535 hp) with 19279 (Kohler Generator 415 hp).

The following emissions were calculated by the source for #19204: VOC 0.480 tpy, CO 1.267 tpy, SO_x 0.387 tpy, NO_x 5.879 tpy, and PM₁₀ 0.413 tpy.

The following emissions were calculated by PDEQ for #19279 using AP-42 Table 3.3-1: VOC 0.3 tpy, CO 0.7 tpy, SO_x 0.2 tpy, NO_x 3.2, PM₁₀ 0.2 tpy; $E = (E_f * hp * 500) / 2000$

Other Activities

Activities which do not have the potential to carry a permit and do not have specifically applicable conditions have been considered insignificant for the purposes of this permit.