

## **PETERSON AFB, CO UTILITY SYSTEM DESCRIPTIONS**

**General:** Peterson AFB is located approximately seven miles east of downtown Colorado Springs, CO, and is adjacent to the Municipal Airport. PAFB consists of 1,278 acres: 184 acres fee-owned and 1,094 acres leased from the City of Colorado Springs. The developed cantonment area, known as Peterson Main, consists of approximately 1,022 acres. Runways are designated “Joint Use.” They are owned by the City and are used by both civil and military aircraft. There are 395 existing buildings on PAFB.

**System Descriptions:** The electric, natural gas, and water distribution systems and the wastewater collection system are being considered for privatization. The utility system information provided here is an estimate only and is subject to change.

**Electrical:** The City of Colorado Springs provides power to Peterson AFB from a city-owned substation outside the Main Gate. PAFB takes service at 12.5 kV at a metering station near the Primary Switch Station inside the Main Gate. The Base also owns and operates the 12.5 kV Primary Switch Station, Main Switch Station, and distribution system. The switch stations are 12.5 kV, 1200 ampere (A) metal-clad switchgear.

The distribution system is primarily a concrete encased duct bank, from the switch stations to the base facilities, with four-bay, pad-mount switches for feeder selection and interruption. Most transformers are pad-mount type adjacent to buildings. Some are unit substation dry-type in-building vaults. The system is almost entirely underground and has been largely replaced over the last 10 years.

**Natural Gas:** The natural gas distribution system at PAFB consists of approximately 128,000 lineal feet of buried steel (wrapped) and plastic piping. There was insufficient information available to define the percentage of steel and plastic piping; however, it is reported that all gas piping in the housing area is plastic. The natural gas system serves three separate systems: 1) the main base, 2) housing, and 3) Peterson East. Each system is fed by connections to high-pressure (150 pounds per square inch gauge [psig]) gas supply pipelines from CSU. The gas pressure is then reduced to 25 psig for distribution on the base. At each building, the gas pressure is further reduced with local pressure regulators. A cathodic protection system is in place; however, it is non-functional.

**Potable Water:** Water is supplied to PAFB by the City of Colorado Springs. The water is distributed through approximately 96,000 lineal feet of 4-inch to 24-inch cast iron piping. There is also approximately 1,100 lineal feet of asbestos cement piping in the distribution system. A metering pit near the entrance gate measures the demand for the entire base, except for PAFB East. There are no onsite pumping stations or water storage tanks. The Base has some individual meters for businesses and one meter for the housing area.

**Sanitary Wastewater:** The wastewater collection system at PAFB serves the major building areas and grounds. The City of Colorado Springs collects and provides treatment of the wastewater from PAFB. The system has approximately 156,000 lineal feet of pipe interceptors, mains, and laterals. Materials used primarily for construction include, but are not limited to, vitrified clay pipe (VCP) and polyvinyl chloride (PVC). Pipe sizes range from 4 to 21 inches in diameter. Most of the system was constructed between the early 1940s and the mid 1970s and will likely require considerable maintenance to keep it functioning properly. Three lift stations serve the base system.

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