

# Attachment J-C15-3 Natural Gas System

## General Information:

NASA/Dryden is a tenant of the Air Force Flight Test Center at Edwards AFB, but Dryden is generally responsible for the design, construction and maintenance of all its utility systems.

No detailed information currently available on the Natural Gas system at the DAOF, but there is approximately 30,000 linear feet of piping of various sizes throughout building 703.

## Natural Gas System:

### Existing Conditions:

The natural gas service to the Center is provided by the Pacific Gas and Electric Company. Service is provided to the Center by a 6 inch high pressure line to a point 400 meters from the north-west corner of the Center property. Gas is provided at 20 pounds per square inch from this main line. The gas is distributed through a 6 inch lateral line that travels in a southeast direction to Bldg. 4850 and then from the area adjacent to Bldg. 4850 throughout the Center. In the event of an emergency, there are three standby fuel tanks, two with 12,000 gallon capacity, and a third with a 6,000 gallon capacity, that provide the Center with a total of 30,000 gallons of emergency fuel oil storage.

### Natural Gas System:

The major elements of the existing natural gas system are described below.

#### Natural Gas System Data

Pipe Size (dia. inches)	Material	Length (meters)	Date Installed Year
1	Polyethylene	200	1990
1-1/2	Polyethylene	200	1995
2	Polyethylene	400	1992
3	Polyethylene	200	1980
4	Polyethylene	800	1992, 1995
6	Polyethylene	2000	1992

### Planning Constraints:

Additions to the natural gas system need to address looped systems that allow for servicing and connection of new services while minimizing natural gas outages.