

33 50 00 Facility Fuel Distribution Systems

Revision 01/04/2019

Purpose:

The Architect and/or Engineer shall incorporate the Rice specific requirements indicated in this standard's section into their design. The Architect and/or Engineer shall further produce project specifications in line with industry standards that are updated to reflect these Rice specific requirements.

1. Existing Services

- a. High Pressure Natural Gas (Nominal 200psi)
 - i. The high pressure gas is for service to the Central and South Plants only. No other buildings or facilities will receive gas from this service. **NO EXCEPTIONS**
 - ii. This is run across campus in an easement. The approximate path of the easement is from the intersection on Main and University, proceeding East along Main Street to the South Plant, heading North along Alumni Drive to Campanili Drive, heading East along Campanili Drive to Central Plant.
 - iii. Any New Utilities that cross the easement are required to file a request with CenterPoint Gas.
- b. Low Pressure gas system
 - i. There is a low pressure gas distribution through much of the Core Buildings area of campus. Rice University maintains a map for general reference, but location and capacity need to be verified by CenterPoint Gas for design purposes.
- c. Propane
 - i. Fixed propane fuel systems shall not be used
- d. Fuel Oil
 - i. Limited to diesel fuel for emergency generators.

2. Design Standards:

- a. Natural Gas Piping within buildings (excluding Central and South Plants)
 - i. Threaded black iron pipe only (no copper or corrugated stainless)
 - ii. Painted black or yellow
 - iii. Labeled minimum of every 10 feet
- b. Natural Gas Piping within Central and South Plants
 - i. Threaded or flanged black iron pipe (no copper or corrugated stainless)
 - ii. Painted yellow
 - iii. Labeled minimum of every 10 feet