

2. QUALITY

The quality specifications herein shall apply to all gas delivered to Transporter by Shipper under Rate Schedules FT-1, FT-2 and IT-1.

2.1 Specifications

All gas delivered or caused to be delivered by Shipper to Transporter at the Receipt Point(s) shall conform to the following quality specifications, any of which may be waived by Transporter in its discretion on a nondiscriminatory basis:

- (a) **Oxygen.** The gas shall not contain more than two-tenths of one percent (0.2%) by volume of oxygen, and Shipper shall make every reasonable effort to keep the gas free of oxygen.
- (b) **Liquids.** The gas shall contain a quantity of hydrocarbons in liquid form (i.e. liquids that have condensed from the gas stream at the production sources or in upstream pipelines) no greater than 40 barrels per million cubic feet of gas being concurrently delivered to Transporter at the temperature and pressure at which the gas is delivered to Transporter and shall contain no more than 7 pounds of water vapor per million cubic feet.
- (c) **Hydrogen Sulfide.** The gas shall not contain more than 0.25 of a grain of hydrogen sulfide per hundred cubic feet.
- (d) **Temperature.** The gas shall have a temperature of not more than one hundred twenty degrees (120) Fahrenheit and not less than forty (40) degrees Fahrenheit.
- (e) **Sulfur.** The gas shall not contain more than twenty (20) grains of total sulfur per hundred cubic feet.
- (f) **Carbon Dioxide/Nitrogen.** The gas shall not contain more than three percent (3%) by volume of a combined total of carbon dioxide and nitrogen components; provided, however, that the total carbon dioxide content shall not exceed two percent (2%) by volume.
- (g) **Impurities.** The gas shall be free from polychlorinated biphenyls (PCBs) and commercially free (at prevailing pressure and temperature in Transporter's Facility) from dust, gums, sand, oil or other foreign substances which may be injurious to Transporter's Facility or other facilities.

2.2 Failure to Conform:

If the gas tendered for delivery to Transporter by Shipper shall fail at any time to conform to any of the quality specifications set forth above, Transporter will notify Shipper of such deficiency and if Shipper fails to remedy such deficiency promptly, Transporter may refuse to accept further receipt pending correction by Shipper.

2.3 Tests to determine sulfur, hydrogen sulfide, oxygen, carbon dioxide and nitrogen content shall be made by approved standard methods in general use in the gas industry.

2.4 Gas Quality Posting

Transporter should provide on its Informational Postings Website, a link to the natural gas quality tariff provisions (or where no tariff exists in the general terms and conditions) or a simple reference guide to such information.

Transporter should provide on its Informational Postings Website daily average gas quality information for prior gas day(s), to the extent available, for location(s) that are representative of mainline gas flow. The information available for the identified location(s) should be provided in a downloadable format. Information should be reported in units as specified in the tariff or its general terms and conditions. In any event, compliance with gas quality requirements is in accordance with Transporter's tariff or its general terms and conditions.

The following are examples of gas quality attributes that could be included in the posting for the applicable Gas Day(s) and location(s):

- Heating Value
- Hydrocarbon Components, % of C1 – Cnn, as used in determining Heating Value
- Specific Gravity
- Water
- Nitrogen
- Carbon Dioxide
- Oxygen
- Hydrogen
- Helium
- Total Sulfur
- Hydrogen Sulfide
- Carbonyl Sulfide
- Mercaptans
- Mercury and/or any other contaminants being measured.

- Other pertinent gas quality information that is specified in the TSP's tariff or the general terms and conditions.