

## 2. QUALITY

2.1 The provisions set forth in this Section 2 shall apply to all gas received by Transporter under this Tariff.

- (a) The natural gas shall have a Total Heating Value of not less than 967 British thermal units per Cubic Foot (Btu/cf) and not greater than 1110 Btu/cf of gas volume (measured on a dry basis). The gas shall have a Wobbe Number of not less than 1298 nor greater than 1400 (calculated using Total Heating Value (THV)), dry, under standard conditions at 14.73 psia at 60 degrees Fahrenheit based on the following mathematical definition and in accordance with Section 3 of these GT&C:

$$\text{THV} / \text{Sqrt SG}_{\text{gas}}$$

Where: THV = Total Heating Value (Btu/scf),  
SG<sub>gas</sub> = Specific Gravity, and  
Sqrt = Square root of.

Shipper may subject, or permit the subjection of, the natural gas to compression, cooling, cleaning and other processes and helium, natural gasoline, butane, propane, and any other hydrocarbons except methane may be removed prior to delivery to Transporter. In the event that the Total Heating Value of gas, per Cubic Foot, when determined as provided in Section 3.2 hereof, and subject to Section 2.4, falls below 967 Btu/cf, or is above 1110 Btu/cf, Transporter shall have the option to refuse to accept said gas so long as said Total Heating Value remains below 967 Btu/cf or above 1110 Btu/cf, respectively.

- (b) All gas shall be commercially free (at prevailing pressure and temperature in Transporter's pipeline) from objectionable odors, dust, hydrocarbon liquids, water or other solid or liquid matters that might interfere with its merchantability or cause injury to persons or properties or interference with proper operation of the lines, regulators, meters or other appliances through which it flows and which might become separated from the gas in Transporter's facilities, and Transporter may require furnishing, installation, maintenance and operation of such drips, separators, heaters and other mechanical devices as may be necessary to effect compliance with such requirements (the installation of such equipment shall be subject to prior approval of Transporter as to the design and construction of such facilities, which approval shall not be unreasonably withheld).
- (c) All gas shall contain no more than twenty (20) grains of total sulphur, nor more than one fourth (1/4) of one grain of hydrogen sulphide per one

hundred (100) Cubic Feet as determined by methods to be mutually agreed upon.

- (d) All gas shall not exceed one-tenth of one percent (0.1%) by volume of oxygen.
- (e) All gas shall not contain more than four percent (4%) by volume of a combined total of carbon dioxide and nitrogen components; provided, however, that the total carbon dioxide content shall not exceed three percent (3%) by volume nor shall the total nitrogen content exceed three percent (3%) by volume.
- (f) All gas shall have a temperature of not more than one hundred degrees (100°) Fahrenheit.
- (g) All gas shall have been dehydrated by Shipper for removal of entrained water present therein in a vapor state, and in no event contain more than seven (7) pounds of entrained water per million Cubic Feet, at a pressure base of fourteen and seventy three hundredths (14.73) pounds per square inch and a temperature of sixty degrees (60°) Fahrenheit as determined by dew-point apparatus approved by the Bureau of Mines or such other apparatus as may be mutually agreed upon.
- (h) All gas shall contain not more than 0.05 gallons per thousand cubic feet ("GPM") of C6+ hydrocarbons at any operating pressure.
- (i) All gas shall not contain, either in the gas or in any liquids with the gas, any microbiological organism, gum, gum-causing constituents, active bacteria or bacterial agent capable of contributing to or causing corrosion and/or operational and/or other problems. Microbiological organisms, bacteria or bacterial agents include, but are not limited to, sulfate reducing bacteria (SRB) and acid producing bacteria (APB). Tests for bacteria or bacterial agents shall be conducted on samples taken from the meter run or the appurtenant piping using American Petroleum Institute (API) test method API-RP38 or any other test method acceptable to Transporter and Shipper which is currently available or may become available at any time.

2.2 The design and construction of any facilities to be installed by Shipper in order to comply with the quality specifications in Section 2.1 shall be approved by Transporter prior to such facilities being placed in service.

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

- 2.4 Failure to conform to specifications: If the gas offered for transportation to Transporter shall fail at any time to conform to any of the specifications set forth in Section 2.1, then Transporter shall notify Shipper and thereupon may, at Transporter's option, refuse to accept such gas pending correction by Shipper. Upon Shipper's failure to promptly remedy any deficiency in quality as specified in Section 2.1, Transporter may receive such gas and may make changes necessary to bring such gas into conformity with such specifications, and Shipper shall reimburse Transporter for any reasonable expense incurred by Transporter in effecting such changes.
- 2.5 Notwithstanding the exercise by Transporter of the options in Section 2 above, Shipper shall use its best efforts to correct any quality deficiency in the gas tendered for transportation. Further, notwithstanding Transporter's election under Section 2 above, Shipper shall reimburse Transporter for all expenses incurred in repairing injuries to Transporter's facilities resulting from deliveries of gas that do not conform to the quality specifications set forth in Section 2.1.
- 2.6 Transporter shall have the right to collect from all Shippers delivering gas to Transporter at a common Receipt Point their pro rata share of the cost of any additional gas analysis and quality control equipment that Transporter, at its reasonable discretion, determines is required to be installed at such Receipt Point to monitor the quality of gas delivered. With respect to Shippers subject to Rate Schedules IT, IT-L, FT-A, FT-L, and/or FT-GS, the collection shall be by means of an Incidental Charge.
- 2.7 Separation, Dehydration and Processing: If Shipper's gas at a receipt point does not conform to both Section 2.1(a) and (h), Transporter at its reasonable discretion may require that some or all of the gas to be transported be processed to remove liquid and liquefiable hydrocarbons prior to delivery to Transporter or may require evidence that satisfactory arrangements have been made for the removal of liquid and liquefiable hydrocarbons at a separation and dehydration and/or processing plant on Transporter's system. In the event Transporter agrees that separation and dehydration and/or processing will occur after delivery of transportation gas to Transporter, Transporter and Shipper shall determine a mutually agreeable charge for the transportation of liquid and liquefiable hydrocarbons.
- 2.8 Waiver of requirements: Transporter may waive the requirements set forth in this Section 2 in order to allow Shipper to tender or cause to be tendered gas which does not, when injected into Transporter's pipeline, meet the quality specifications set forth in Section 2; provided that acceptance of such gas shall not adversely affect Transporter's system facilities or operations, and further provided that once such gas has been blended, to the extent blending occurs, the commingled gas stream at any delivery point on Transporter's system shall meet the quality specifications set forth in Section 2. Transporter shall post on LINK® any waiver

of Transporter's gas quality requirements. Transporter shall implement this Section 2.8 on a non-discriminatory basis and may cancel any waiver at any time if necessary to assure that the commingled gas stream shall not adversely affect system facilities or operations.