

7.07 Gas Quality**APPLICABILITY**

Any natural gas supplies transported on or delivered to Questar Gas' system must conform to either FERC-approved tariff specifications or the requirements of this Tariff section 7.07, except as otherwise set forth below.

ACCEPTANCE OF GAS

If any gas supplies tendered for receipt to Questar Gas' system fail at any time to conform to the quality specifications set forth herein, Questar Gas may refuse to accept receipt of the non-conforming supplies. Questar Gas' refusal to accept non-conforming supplies does not relieve the Applicant of any of its obligations under this Tariff. Questar Gas will notify an Applicant when the Applicant's gas does not conform to Questar Gas' specifications. However, such notification does not relieve the Applicant of its responsibility to monitor test results and to take corrective action if needed. Questar Gas may elect to accept non-conforming natural gas supplies, in its sole discretion. Questar Gas' acceptance of gas supplies that do not conform to these specifications does not constitute any waiver of Questar Gas' right to refuse to accept similarly nonconforming gas.

GAS QUALITY SPECIFICATIONS

Questar Gas may refuse to accept gas that does not conform to the specifications listed below and other requirements set forth in this Tariff:

1. Interchangeability. The Wobbe Index of the gas shall not be less than 1,309 and not greater than 1,382. Wobbe Index is derived by dividing the higher heating value of the gas in Btu per standard cubic foot by the square root of its specific gravity with respect to air. Questar Gas defines "standard cubic foot" as a cubic foot of gas at 14.73 psia and 60 degrees Fahrenheit.
2. Hydrogen Sulfide. The gas shall contain no more than 0.25 grains of hydrogen sulfide, measured as hydrogen sulfide, per one hundred standard cubic feet [4 parts per million (ppm)].
3. Inert Substances. The gas shall not contain total inert substances in excess of 3 percent by volume and carbon dioxide (CO₂) in excess of 2 percent by volume.
4. Merchantability. The gas shall not contain dust, gums, gum-forming constituents, dirt, impurities or other solid or liquid matter that might interfere with its merchantability or cause injury to or interference with proper operation of the pipelines, regulators, meters, or other equipment of Questar Gas, or which shall cause the gas to become unmarketable.
5. Hazardous Substances. Except as otherwise expressly set forth herein, gas levels of substances shall not exceed levels deemed hazardous or toxic that are subject to regulation by the Environmental Protection Agency or any State agency having similar jurisdiction or authority.
6. Oxygen. The gas shall contain less than 1,000 ppm or 0.1 percent of oxygen by volume of gas.

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7. Temperature. The gas shall be delivered at a temperature not in excess of 120 degrees Fahrenheit or less than 35 degrees Fahrenheit at any receipt or delivery point.
 8. Total Sulfur. The gas shall not contain more than 5 grains of total sulfur per 1,000 standard cubic feet (MSCF) or 8.4 parts per million by volume (ppmv), of which not more than 2 grains shall be mercaptan sulfur.
 9. Water Vapor. The gas shall contain no more than 5 pounds of water vapor per million standard cubic feet.
 10. Liquids. The gas tendered for transportation at a receipt point shall not contain any free liquids of any nature and shall have a Cricondenthem Hydrocarbon Dew Point (CHDP) of 15 degrees Fahrenheit or less.
 11. CHDP Calculation. Questar Gas shall perform the CHDP calculations using, in Questar Gas' sole discretion, the Peng-Robinson calculation or other industry-recognized equation of state and C9+ gas chromatograph composition analysis. In the event of a dispute over calculated CHDP temperature at a given receipt point, Questar Gas' calculated value shall control unless the disputing party can clearly identify the cause of the error.

BIOMETHANE

Definitions

The following definitions shall apply in interpreting this Section 7.07 of Questar Gas' Utah Natural Gas Tariff.

“Applicant” means a producer seeking to deliver Biomethane directly to the Questar Gas system.

“Biogas” means gas that is produced from the anaerobic decomposition of organic material. The gas is a mixture of methane, carbon dioxide, and other constituents, and must be conditioned into Biomethane prior to receipt into the Questar Gas system.

“Biomethane” means Biogas that meets the gas quality standards of this tariff, and any other standards imposed by Questar Gas in its sole discretion, and any applicable standards for injection into a common carrier pipeline. Biomethane must be free from bacteria, pathogens and any other substances injurious to utility facilities, customer equipment or people, or other constituents that would cause the gas to be unmarketable.

“Hazardous Waste Landfill” means all contiguous land and structures, and other appurtenances and improvements, on the land used for the treatment, transfer, storage, resource recovery, disposal, or recycling of hazardous waste. The facility may consist of one or more treatment, transfer, storage, resource recovery, disposal, or recycling hazardous waste management units, or combinations of these units.

Additional Facilities

Applicants seeking to deliver Biomethane for transportation on Questar Gas' system shall bear all actual costs for engineering and construction or modification of any facilities that Questar Gas deems, in its sole



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discretion, to be necessary, appropriate or convenient. Such facilities may include, but are not limited to, taps, valves, piping, measuring equipment, gas sampling equipment, odorizing equipment, pressure regulation equipment, land rights, permits, communication equipment, software programming, and scheduling systems. All such equipment shall be and remain the property of Questar Gas. Applicant shall enter into agreement(s) with Questar Gas addressing such engineering, construction, modification and payment.

Requirements

Questar Gas may, but is not required to, accept Biomethane for transportation or delivery on its system if it determines, in its sole discretion, that:

1. The Biomethane is free from bacteria, pathogens and any other substances injurious to utility facilities or people, or other constituents that would cause the gas to be unmarketable;
2. The Biomethane can be delivered into Questar Gas' existing high-pressure system at a point with sufficient flows and pressures to enable blending sufficient to ensure proper dilution of constituents;
3. Delivery of the Biomethane into Questar Gas' system will not jeopardize the integrity or normal operations of Questar Gas' system or otherwise adversely affect Questar Gas' customers; and
4. The Biomethane complies with any gas quality specifications including those set forth above and any additional specifications required by Questar Gas.

Additionally, if Questar Gas determines that it will accept an Applicant's Biomethane into its system, the Applicant shall pay for any initial and ongoing testing and/or monitoring of the Biomethane, as well as any baseline and/or ongoing monitoring of Questar Gas' system that Questar Gas, in its sole discretion, deems necessary, appropriate or convenient.

Questar Gas will not accept Biogas or gas sourced from Hazardous Waste Landfills into its system. Applicant must certify and provide documentation or other suitable proof that any Biomethane source feedstock was not derived or collected from a hazardous waste landfill, as defined herein.

Issued by C. L. Bell, VP & General Manager	Advice No.	Section Revision No.	Effective Date
	16-11	1	February 1, 2017