Gas Quality Tariff Technical Conference

January 31, 2017



Risks

Health risks from long term exposure

System integrity

Customer appliance integrity



Siloxanes



Risks

Long Term Health Risks

System integrity

Customer appliance integrity

Cost Subsidization



Research

Peer survey



Biogas in United States (Based on internal Company survey) Closed Open and Closed

Research

Peer survey

 Hired ETA (Energy Technology Advancement) Partners

Industrial customer survey



Requirement for High Pressure



Page 7-12 (Requirements)

#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;



Requirement for High Pressure

Tariff provisions on cost



Page 7-11 (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 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.



Requirement for High Pressure

Tariff provisions on cost

Automatic Shut Off Valves

Corrosion Coupons



Corrosion Coupon









Requirement for High Pressure

- Tariff provisions on cost
- Automatic Shut Off Valves

- Corrosion Coupons
- Testing Requirements



Test of Constituents of Concern in Biomethane



