

South Dakota Public Utilities Commission
Docket NG16-011
MidAmerican Energy Company
First Data Requests

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South Dakota First Data Requests NG16-011

1-3. Refer to Proposed Tariff Section No. 3 Original Sheet No. 35.2, paragraph number 3:

The Producer shall be responsible for ensuring the Renewable Gas consistently meets all Company gas standards at the Delivery Point on the Company's distribution system.

- a) Provide MidAmerican's gas quality standards that the producers will be required to meet.
- b) Explain the basis for these standards.
- c) What type of reporting will the Producer provide to MidAmerican to document that the renewable gas is meeting the Company's gas standards?
- d) In addition to the Producer being responsible for ensuring the renewable gas meets the gas standards, will MidAmerican also monitor the gas quality and how often?

Response:

- a) Gas supplied into MidAmerican's system must meet the following specifications.

Component	Concentration
Btu Content	Within 5% of serving pipeline average
Carbon dioxide	< 3% by volume
Nitrogen	< 4% by volume
Total Inerts (N2+CO2)	< 5% by volume
Oxygen	< 0.3% by volume
Water	< 5 lb./mmscf
Hydrogen Sulfide	< 0.25 grain/Ccf
Total Sulfur	< 20 grain/Ccf
Volatile Organic Compounds (VOC's)	0 ppm
Total Silicon	<0.01 ppm

- b) The gas quality standards are based upon the gas quality specifications followed by the interstate pipelines serving MidAmerican.
- c) The Producer will provide timely gas quality data to MidAmerican through a gas chromatograph, oxygen, H₂S and moisture analyzer. In addition, the Producer will provide annual calibration reports certifying that the quality monitoring equipment is operating correctly. The Producer will provide a lab analysis, on a quarterly basis, of all compounds found within the produced renewable gas.
- d) Yes, MidAmerican will receive timely gas quality data from the quality monitoring equipment to ensure gas quality specifications are met on an ongoing basis. MidAmerican will respond to out-of-specification conditions by remotely closing a valve to protect its customers and distribution system.