Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Handout 2.3.1: Case Study 5

Gas Information Details

Gas Name	**Gas Quantity** (Metric Tons)
Methane	8.993
Nitrous Oxide	0.8993
Carbon Dioxide	371,140
Exempt Biogenic Carbon dioxide	0

Total Covered CO2e Emissions:

(Equation NN-6) Results

Natural Gas CO2 Mass Total:	371,140 Metric Tons
Natural Gas CH4 Mass Total:	8.993 Metric Tons
Natural Gas N2O Mass Total:	0.8993 Metric Tons

(Equation NN-1) Potential CO2 Quantities associated with Natural Gas Delivered to all entities receiving gas from the Intrastate Pipeline

Annual MMBtu of Natural Gas Received at the City Gate(s)

Total annual MMBtu of non-biomass natural gas received at the city gate:	10,000,000 MMBtu
Total annual MMBtu of biomethane received at the city gate:	0 MMBtu
Total annual MMBtu of non-exempt biomethane received at the city gate:	0 MMBtu
Industry standard used to measure the volume:	ANSI standard
CO2 Emissions Factor:	53.02 kg CO2/MMBtu
NN-1 CO2 Results:	530,200 Metric Tons

(Equation NN-3) Potential CO2 Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs

Annual MMBtu of Product Supplied

Total annual MMBtu of natural gas supplied:	3,000,000 MMBtu
Total annual MMBtu of biomethane supplied:	0 MMBtu
Total annual MMBtu of non-exempt biomethane supplied:	0 MMBtu
CO2 Emissions Factor:	0.05302 MT CO2/MMBtu
NN-3 CO2 Results:	159,060 Metric Tons

(Equation NN-5) Potential CO2 Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

Fuel 1

Total annual MMBtu of natural gas received at the city gate and stored on-system or liquefied and stored:	50,000 MMBtu
Total annual MMBtu of biomethane received at the city gate and stored on-system or liquefied and stored:	0 MMBtu
Total annual MMBtu of non-exempt biomethane received at the city gate and stored on-system or liquefied and stored:	0 MMBtu

Fuel 2a

Annual MMBtu of vaporized liquefied natural gas produced at on-system vaporization facilities for delivery on the distribution system that is not accounted for in the MMBtu collected under NN-1:	3,000 MMBtu
Annual MMBtu of vaporized liquefied biomethane produced at on-system vaporization facilities for delivery on the distribution system that is not accounted for in the MMBtu collected under NN-1:	0 MMBtu
Annual MMBtu of vaporized liquefied non-exempt biomethane produced at on-system vaporization facilities for delivery on the distribution system that is not accounted for in the MMBtu collected under NN-1:	0 MMBtu

Fuel 2b

Annual MMBtu of natural gas withdrawn from on-system storage (that is not delivered to the city gate) for delivery on the distribution system:	40,000 MMBtu
Annual MMBtu of biomethane withdrawn from on-system storage (that is not delivered to the city gate) for delivery on the distribution system:	0 MMBtu
Annual MMBtu of non-exempt biomethane withdrawn from on-system storage (that is not delivered to the city gate) for delivery on the distribution system:	0 MMBtu

Fuel 2c

Annual MMBtu of natural gas delivered directly to the LDC systems from producers or natural gas processing plants from local production:	2,000,000 MMBtu
Annual MMBtu of biomethane delivered directly to the LDC systems from producers or natural gas processing plants from local production:	0 MMBtu
Annual MMBtu of non-exempt biomethane delivered directly to the LDC systems from producers or natural gas processing plants from local production:	0 MMBtu
CO2 Emissions Factor:	0.05302 MT CO2/MMBtu
NN-5 CO2 Results:	0 Metric Tons