

SoCalGas

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.  
and In Response to Data Request SoCalGas R15-01-008 2016 June Report

9/9/2016

Appendix 8 - Total Leaks & Emissions Data

Rev. 4/4/16

Pursuant to SB 1371, Leno - Natural gas: leakage abatement, the California Public Utilities Commission (CPUC) requests that the following information be transmitted to the CPUC and the State Air Resources Board (ARB):  
Note - Definitions in Data Request SoCalGas R15-01-008 2016 June Report

The following question in the above mentioned data request is answered using the spreadsheets in this Appendix (#8)

(5) The system-wide gas leak rate data, as defined in Data Request SoCalGas R15-01-008 2016 June Report along with any data and computer models used in making that calculation, for the 12 months ending December 31st, of the reporting year.

Response:

Summary Tables:

System Categories	Emission Source Categories	Emissions Type	Total Leaks & Emissions (Mscf)	Annual Volume of Emissions Note: If leak data is based on a leak survey of only part of the sytem, extrapolate the results up to 100% of the sytem.	Explanatory Notes / Comments
Transmission Pipelines	Pipeline Leaks	Graded / Non-Graded Leaks		1,324	
	All Damages	Graded / Non-Graded Leaks		0	
	Blowdowns	Emissions		199,970	
	Component Emissions	Emissions		0	
	Odorizers	Emissions		2,434	
Transmission M&R Stations	Station Leaks & Emissions	Non-Graded Leaks / Emissions		340,142	
	Blowdowns	Emissions		95	
	Component Leaks & Emissions	Non-Graded Leaks / Emissions		0	
Transmission Compressor Stations	Compressor Emissions	Emissions		34,810	
	Blowdowns	Emissions		7,268	
	Component Leaks & Emissions	Non-Graded Leaks / Emissions		8,430	
	Storage Tank Leaks & Emissions	Non-Graded Leaks / Emissions		0	
Distribution Main & Service Pipelines	Pipeline Leaks	Graded / Non-Graded Leaks		797,426	This line item Includes the estimated emissions from the estimated number of unknown leaks (see <i>Unk Dist Leaks Est</i> tab)
	All Damages	Graded / Non-Graded Leaks		78,646	
	Blowdowns	Emissions		4,828	
	Component Emissions	Emissions		3,281	
	Odorizers	Emissions		0	
Distribution M&R Stations	Station Leaks & Emissions	Non-Graded Leaks / Emissions		340,729	
	Blowdowns	Emissions		94	
	Component Leaks & Emissions	Non-Graded Leaks / Emissions		0	
Customer Meters	Meter Leaks	Non-Graded Leaks		846,235	
	Vented Emissions	Emissions		2,063	
Underground Storage	Storage Leaks & Emissions	Non-Graded Leaks / Emissions		3,633,146	This line item includes the "Unusual Large Leak" noted below on line #45.
	Compressor Emissions	Emissions		84,609	
	Blowdowns	Emissions		10,812	
	Component Leaks & Emissions	Non-Graded Leaks / Emissions		107	
	Dehydrator Vent Emissions	Emissions		13,402	
Unusual Large Leaks	Storage Leaks & Emissions	Case-By-Case		3,630,000	SoCalGas estimated 4.62 Bcf of natural gas emitted from the SS-25 well using a mass balance inventory verification method. For purposes of this report, SoCalGas has used tracer flux ratio and flight mass balance data to calculate daily emission rates from SS-25 from October 23, 2015, when the leak was discovered, through February 11, 2016, when the leak ended. Using the estimated daily flow rates from SS-25, SoCalGas apportioned the quantity of gas leaked in 2015 at 78.6% of the total volume of natural gas emitted from this event (3.63 Bcf NG).