

## SDG&amp;E, June 15th, 2021

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.  
 In Response to Data Request, R15-01-008 - 2021 June Report  
 Appendix 1 - Rev. 03/30/21

## Notes:

Emissions included in the Report are based on miles of transmission pipeline. Therefore provide the miles of transmission pipeline in your system here.

The following data on transmission pipeline leaks is **for information purposes** and will not be used to report transmission pipeline leak emissions this year.

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.

## Transmission Pipeline Leaks:

ID	Geographic Location	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Scheduled Repair Date (MM/DD/YY)	Reason for Not Scheduling a Repair	Number of Days Leaking	Emission Factor (Mscf/Mile/Year)	Annual Emissions (Mscf)	Explanatory Notes / Comments
Transmission	SDG&E Territory	PC	All	All	All	All	All	N/A	N/A	N/A	N/A	N/A	0.38	82.8	218 Miles - For 2020, the INGAA Greenhouse

82.8

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At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange

## Transmission Pipeline Damage (3rd party dig-ins, natural disasters, etc.):

ID	Geographic Location	Damage Type	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
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No Reported Damages

Sum total 0

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**Transmission Pipeline Blowdowns:**

ID	Geographic Location	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A		92046	1	66.79 Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project on Line 1600
200536722		92145	1	161.03 Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project on Line 1600
200536726		92194	1	5.44 Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project on Line 1600
200536632		92108	1	110.85 Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project on Line 1600
200536722		92145	1	5 Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project on Line 1600
200536722		92145	1	38.09 Pipeline Blowdown associated with Pipeline Safety Enhancement Plan Project on Line 1600
N/A	Various	25	143.12	SDGE Pigging Operation Launcher/Receiver Emissions
N/A	Various	2	0.04	RVS (20 scf/inspection))
N/A	Various	12	0.36	Drips (30 scf/inspection)
N/A	Various	72	0.193	Transmission Odor Intensity Tests
			<b>530.91</b>	

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Notes:  
Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.  
At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange  
The emissions captured on this tab represent the emissions associated with the operational design and function of the component. Any intentional release of natural gas for safety or maintenance purposes should be included in the Blowdowns worksheet.

Transmission Pipeline Component Vented Emissions:

Total Number of Devices	Device Type	Bleed Rate	Manufacturer	Emission Factor (Mscf/day)	Annual Emission (Mscf)	Explanatory Notes / Comments
No Devices						

0.00

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## Notes:

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange

The emissions captured on this tab represent the emissions associated unintentional leaks that if repaired would not leaking. If the component is releasing gas or "bleeding" as a result of its design or function then it is not to be captured in this tab.

**Transmission Pipeline Component Fugitive Leaks:**

12/31/2020

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor (Mscf/day)	Annual Emission (Mscf)	Explanatory Notes / Comments
7342545	SDG&E Territory	C	N/A	N/A	6/3/2020		212.00	NA	NA	Component component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.
7366387	SDG&E Territory	V	N/A	N/A	6/24/2020	6/24/2020	176.00	NA	NA	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.
7366391	SDG&E Territory	C	N/A	N/A	7/13/2020	7/13/2020	195.00	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.
7469518	SDG&E Territory	V	N/A	N/A	10/27/2020	10/27/2020	301.00	NA	NA	Component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.
7334509-1	SDG&E Territory	V	N/A	N/A	5/15/2020	5/15/2020	136.00	NA	NA	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.
7513622	SDG&E Territory	V	N/A	N/A	12/16/2020	12/16/2020	351.00	NA	NA	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.

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At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.

**Transmission Pipeline Odorizers:**

ID	Geographic Location	Number of Units	Emission Factor (Mscf/yr)	Annual Emission (Mscf)	Explanatory Notes / Comments
Gas Quality Equipment	SDG&E Territory	19	N/A	65.181	Transmission (Producers), Gas Sample/Quality Tests. Use manufacturing specs. See Notes in Appendix 9.
Odorizer	SDG&E Territory	4	N/A	2.653	YZ Odorizer. Use manufacturing specs. See Notes in Appendix 9.
Sum total				67.83	

## Appendix 1 - Rev. 03/30/21

Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
<b>Tab: Pipeline Leaks</b>	
<b>ID</b>	
<b>Geographic Location</b>	GIS, zip code, or equivalent
<b>Pipe Material</b>	PB = cathodically protected steel, bare PC = cathodically protected steel, coated UB = unprotected steel, bare UC = unprotected steel, coated
<b>Pipe Size (nominal)</b>	
<b>Pipe Age (months)</b>	
<b>Pressure (psi)</b>	MOP = maximum operating pressure over the past year
<b>Leak Grade</b>	1 = grade 1 2 = grade 2 2+ = grade 2+ 3 = grade 3 AH = Above Ground Hazardous synonymous with Grade 1. AN = Above Ground Non-Hazardous AM = Above Ground Non-Hazardous Minor (akin to grade 3 below ground leak). N = non-graded or ungraded
<b>Above Ground or Below Ground</b>	A = above ground B = below ground
<b>Discovery Date (MM/DD/YY)</b>	
<b>Repair Date (MM/DD/YY)</b>	Date that the pipeline repair stopped the leak. Any associated blowdowns resulting from the repair should be included in the blowdowns tab.
<b>Scheduled Repair Date (MM/DD/YY)</b>	If leak is open, specify the scheduled date of repair, or type "M," signifying that the leak is being monitored with no scheduled date of repair. Then, provide the reason for not scheduling a repair in Column for that purpose.

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Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Reason for Not Scheduling a Repair	If not scheduled for repair (e.g. with a "M" for monitoring the leak in Scheduled Repair Date), then provide the reason for not scheduling a repair.
Number of Days Leaking	<p>If the leak was discovered by survey in the year of interest, then assume leaking from January 1st of subject year <u>thru</u> repair date or December 31st of subject year, whichever is earlier. (E.G. Days Leaking = Repair - Jan 1st + 1 day.)</p> <p>(For days leaking for leaks carried over use January 1st as start date for emissions calculations.)</p> <p>For O&amp;M discovered leaks, assume that the leak begins with the discovery date <u>thru</u> repair date or December 31st of subject year, whichever is earlier.</p>
Emission Factor (Mscf/Day)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	
<b>Tab: All Damages</b>	
ID	
Geographic Location	GIS, zip code, or equivalent
Damage Type	E = excavation damage N = natural force damage O = other outside force damage
Pipe Material	PB = cathodically protected steel, bare PC = cathodically protected steel, coated UB = unprotected steel, bare UC = unptotected steel, coated
Pipe Size (nominal)	
Pipe Age (months)	
Pressure (psi)	MOP = maximum operating pressure over the past year



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Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
<b>Leak Grade</b>	1 = grade 1 2 = grade 2 2+ = grade 2+ 3 = grade 3 N = non-graded or ungraded
<b>Above Ground or Below Ground</b>	AH = above ground, hazardous AN = above ground, non-hazardous B = below ground
<b>Discovery Date (MM/DD/YY)</b>	
<b>Repair Date (MM/DD/YY)</b>	
<b>Number of Days Leaking</b>	<p>If date and time stamp are reliable and used consistently by respondent, then emissions may be calculated based on actual time leaking. E.G. Repair time - damage event time = duration of event.</p> <p>If respondent has average or historical leak duration based on the nature and circumstances of damages, then these may be applied to like damage events. The emissions factors should be adequately supported and explained in the filing.</p> <p>If actual time stamps and historical averages are not available, then whole days should be used in the engineering calculation. The leak begins with the damage event date thru repair date or December 31st of subject year, whichever is later. E.G. Days Leaking = Repair date - date of damage + 1 day.</p>
<b>Emission Factor (Mscf/Day)</b>	
<b>Annual Emissions (Mscf)</b>	
<b>Explanatory Notes / Comments</b>	Provide method of calculation and example of formula. Explain how any EF's used were derived.
<b>Tab: Blowdowns</b>	

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Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
<b>ID</b>	
<b>Geographic Location</b>	GIS, zip code, or equivalent
<b>Number of Blowdown Events</b>	
<b>Annual Emissions (Mscf)</b>	
<b>Explanatory Notes / Comments</b>	Provide method of calculation and example of formula.
<b>Tab: Component Vented Emissions</b>	
<b>Geographic Location</b>	GIS, zip code, or equivalent
<b>Device Type</b>	C = connector O = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve
<b>Bleed Rate</b>	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
<b>Manufacturer</b>	
<b>Annual Emissions (Mscf)</b>	Because the emissions are a factor of design or function, these emissions counted for the entire year. E.G. 365 days times the actual volume emitting if known, or the approved Emissions Factor.
<b>Explanatory Notes / Comments</b>	Note whether the emissions are based on actual volumetric measures.
<b>Tab: Component Leaks</b>	
<b>ID</b>	
<b>Geographic Location</b>	GIS, zip code, or equivalent

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Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
<b>Device Type</b>	C = connector O = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve
<b>Bleed Rate</b>	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
<b>Manufacturer</b>	
<b>Discovery Date (MM/DD/YY)</b>	List the actual discovery date.  If the leak was discovered in the year of interest, then we will assume the component was leaking from the beginning of the year for emissions reporting purposes, or prior survey date if surveyed previously within the year of interest.
<b>Repair Date (MM/DD/YY)</b>	Date that the component repair stopped the leak. Any associated blowdowns as a result of the repair should be included in the blowdowns tab.
<b>Number of Days Leaking</b>	Assume Leaking from January 1 of subject year or prior survey date, whichever is later, thru the repair date (if repaired in year of interest) or December 31 of subject year, whichever is earlier.  For O&M discovered leaks, assume that the leak begins with the discovery date thru repair date or December 31st of subject year, whichever is earlier.
<b>Annual Emissions (Mscf)</b>	
<b>Explanatory Notes / Comments</b>	
<b>Tab: Odorizers</b>	
<b>ID</b>	
<b>Geographic Location</b>	GIS, zip code, or equivalent

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Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Number of Units	
Emission Factor (Mscf/yr)	
Annual Emission (Mscf)	All of the emissions from the odorizing process and equipment.
Explanatory Notes / Comments	