



Natural Gas STAR Methane Challenge Program Implementation Plan

	Partner Name		Current as of (date)	
Partner Imp	ementation Manager			
Name:				
Title:				
Address:				
City/State/Zip:				
Telephone/Fax:		E-mail:		
			and to a collection of information	

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Natural Gas STAR Methane Challenge Program Implementation Plan

Partner Methane Challenge Commitments¹

BMP Commitment Option

	Source	Start Date	Achievement Year					
Onshore Production								
	Pneumatic Controllers							
	Fixed Roof, Atmospheric Pressure Hydrocarbon Liquid Storage Tan	ks						
	Gathering and Boosting							
	Pneumatic Controllers							
	Fixed Roof, Atmospheric Pressure Hydrocarbon Liquid Storage Tan	ks						
	Reciprocating Compressors - Rod Packing Vent							
	Centrifugal Compressors - Venting							
Natural Gas (NG) Processing								
	Reciprocating Compressors - Rod Packing Vent							
	Centrifugal Compressors - Venting							
NG Transmission & Underground Storage								
	Reciprocating Compressors - Rod Packing Vent							
	Centrifugal Compressors - Venting							
	Transmission Pipeline Blowdowns between Compressor Stations							
	Pneumatic Controllers							
NG Distribution								
	Mains – Cast Iron and Unprotected Steel (Commitment Rate:)						
	Services – Cast Iron and Unprotected Steel							
	Distribution Pipeline Blowdowns (Commitment Rate:)							
	Excavation Damages							
			1					
Partner Methane Challenge Commitments								
0.11								
ONE Future Emissions Intensity Commitment Option								
Segment:		ity Target:	Target Year:					
		, 0						

¹ Partners may delete unused rows within the table, and may duplicate rows and add relevant details as needed (e.g., a corporate parent partner that has different commitments for each LDC can duplicate relevant rows to list the commitments for each LDC).





Milestones/Timeframes for Meeting Commitments:

As of December 31, 2016 we are estimating that we will have approximately 352 miles of cast iron gas pipelines and 42,228 unprotected gas services remaining in our gas system. Our plan is to annually replace up to 40 miles of cast iron pipe and 4,800 services starting next year. To reach our milestones over the next 9 years we will use both our own construction crews and also contract out a portion of the work. Our plan assumes that we do not have any issues with material procurement or availability of our external contractor. Attached on the last page of this document is a table that shows our plans to replace all of the piping in the next 11 years and also shows the historical milestones of our replacement that we have achieved since 2011.

Additional Information/Context (optional):

The Metropolitan Utilities District of Omaha has been replacing cast iron gas mains and unprotected services as part of a comprehensive plan since 2008. Our elected Board of Directors approved a surcharge for our customers to allow us to accelerate the replacement of these mains and services. We view this replacement as both necessary to continue to safely supply our customers and also to reduce the amount of fugitive emissions from our system.

3





Metropolitan Utilities District of Omaha Cast Iron and Unprotected Service Replacement Plan

Main Totals					Services Totals	
		Total Cl	Total CI			
		Gas Mains	Gas Main	Year End		
	CI Gas Main	Abandoned	Abandonment	CI Gas Main	Total	Year End
	In Service	Actual	Goals	In Service		
	(miles)	(miles)	(miles)	(miles)	Replace/Reconn	In Service
2010				520.9		60715
2011	520.9	19.3		501.6	2124	58591
2012	501.6	19.5		482.1	2630	55961
2013	482.1	35.5		445.8	2871	53090
2014	445.8	27.7		418.9	2801	50289
2015	418.9	32.0		386.9	3966	46323
2016	404.9		35	351.9	4095	42228
2017	351.9		40	311.9	4800	37428
2018	311.9		40	271.9	4800	32628
2019	271.9		40	231.9	4800	27828
2020	231.9		40	191.9	4800	23028
2021	191.9		40	151.9	4800	18228
2022	151.9		40	111.9	4800	13428
2023	111.9		35	76.9	4200	9228
2024	76.9		35	41.9	4200	5028
2025	41.9		35	6.9	4200	828
2026	6.9		3.5	3.4	420	408
2027	3.4		3.4	0.0	408	0
otals	(2012 - 2027)		499.6		58,591	

Blue numbers above indicate historical replacement numbers. The Red numbers are estimates for 2016. Actual numbers will vary from this table based on weather, material deliveries, budgeting, and contractor availability. MUD plans to update this table annually as needed due to changes in the plan. The values in the table above are from our Engineering Department and may differ from our annual report due to timing between financial statements and actual abandonment. The final years will be used to make up for any years we do not achieve our plan values. Our ultimate goal is to have all pipe and services replaced by the end of 2027.
