



KINDER MORGAN GAS NATURAL DE MEXICO S DE RL DE CV
OPERATION & MAINTENANCE ANNUAL PROGRAM NATURAL GAS PIPELINE SYSTEM
KMGNM-NOM-007-2021

2021

CURR ASEA-KIM18044L CRE G / 003 / TRA / 96 SEMARNAT S.G.P.A.- DGIRA DIA - 01913/2 LAU - 09/00663-2005 Environmental Record KMGMI904111

Official Mexican STANDARD NOM-007-ASEA-2016 Transport of Natural Gas, Ethane, and Coal Gas Through Pipelines.

#	ACTIVITY	REFERENCE	RELATED TO	EXECUTED	MONTHS												RESPONSIBLE	MAN-HOUR ASSIGNED	PROCEDURE		
					JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER					
1	Operation and Maintenance Procedures Manual	10.14	OPERATION	SCHEDULE ACCOMPLISHED															David Moncada	40	MX 0000
2	Pressure control devices, pressure limiters and pressure relief	10.20	OPERATION	SCHEDULE ACCOMPLISHED															Jose Hernandez	40	MX 0201
3	Valves Maintenance	10.21	MAINTENANCE	SCHEDULE ACCOMPLISHED															David Moncada	80	MX 0301
4	Continuous Surveillance	10.26	OPERATION	SCHEDULE ACCOMPLISHED															Arturo Tijerina	120	MX 0218
5	Patrolling	10.28.1	OPERATION	SCHEDULE ACCOMPLISHED															Arturo Tijerina	120	MX 0215
6	Leak Detection Class 1 and 2	10.28.4	OPERATION	SCHEDULE ACCOMPLISHED															Fernando Meza	40	MX 0215
7	Leak Detection Class 3	10.28.4	OPERATION	SCHEDULE ACCOMPLISHED															Fernando Meza	40	MX 0215
8	Inspection and Tests by the regulated	10.47	OPERATION	SCHEDULE ACCOMPLISHED															Alberto Saenz	40	MX 0218
9	Pressure Relief Device Test	10.48	MAINTENANCE	SCHEDULE ACCOMPLISHED															Jose Hernandez	40	MX 0703
10	Meter Stations Annual Maintenance Program	10.50	MAINTENANCE	SCHEDULE ACCOMPLISHED															Jose Hernandez	8	IM 1700
11	Measurement Equipment and Tools	10.50A	MAINTENANCE	SCHEDULE ACCOMPLISHED															Alberto Saenz	480	SSPP1006
12	Overpressure Safety Devices	10.50B	MAINTENANCE	SCHEDULE ACCOMPLISHED															Jose Hernandez	40	MX 0703
13	Relief Devices and Pressure Regulators	10.50C	MAINTENANCE	SCHEDULE ACCOMPLISHED															Jose Hernandez	40	MX 0703
14	Fire-fighting Equipment	10.50D	MAINTENANCE	SCHEDULE ACCOMPLISHED															Fernando Meza	288	MX 0111
15	Station Electromechanical Equipment & Infrastructure	10.50E	MAINTENANCE	SCHEDULE ACCOMPLISHED															Osmar Lopez	40	MX 0161
16	Wall-Thickness Measurement	10.55	OPERATION	SCHEDULE ACCOMPLISHED															David Moncada	120	MX 0903
17	Operation, Maintenance and Safety Annual Program	10.59	OPERATION	SCHEDULE ACCOMPLISHED															David Moncada	8	IM 1700
18	Annual Audit Dictamen - Verification Unit	10.60	OPERATION	SCHEDULE ACCOMPLISHED															David Moncada	24	IM 1700
19	External Corrosion Control: Electrical Power Source	A3.8.3 A3.10.1	MAINTENANCE	SCHEDULE ACCOMPLISHED															David Moncada	24	MX 0903
20	External Corrosion Control: Isolation Devices	A3.10.4	MAINTENANCE	SCHEDULE ACCOMPLISHED															David Moncada	24	MX 0903
21	External Corrosion Control: Coating Inspection	A3.10.5	MAINTENANCE	SCHEDULE ACCOMPLISHED															Arturo Tijerina	80	MX 0903
22	External Corrosion Control: Potential Readings	A3.10.6	MAINTENANCE	SCHEDULE ACCOMPLISHED															David Moncada	80	MX 0903
23	External Corrosion Control: System Assessment	A3.10.7	MAINTENANCE	SCHEDULE ACCOMPLISHED															David Moncada	24	MX 0903
24	External Corrosion Control: Half Cell Inspection	A3.8.1	MAINTENANCE	SCHEDULE ACCOMPLISHED															David Moncada	16	MX 0903
25	External Corrosion Control: Test Stations Inspection	A3.9.1	MAINTENANCE	SCHEDULE ACCOMPLISHED															David Moncada	120	MX 0903
26	Emergency Phone Calls	B3.1	OPERATION	SCHEDULE ACCOMPLISHED															Alberto Saenz	24/7	MX 0215 MX 0159
27	Calibration of Gas Detectors	B4.2	MAINTENANCE	SCHEDULE ACCOMPLISHED															Osmar Lopez	36	MX 0215
28	Assessment of the Leak Detection Program	B6.3	OPERATION	SCHEDULE ACCOMPLISHED															David Moncada	12	MX 0215
29	Evaluation of the Class Location	10.18.1	OPERATION	SCHEDULE ACCOMPLISHED															David Moncada	120	MX 0220
30	MAOP Determination	10.18.1	OPERATION	SCHEDULE ACCOMPLISHED															David Moncada	24	MX 0201
31	Mock Drill	10.17E	OPERATION	SCHEDULE ACCOMPLISHED															Miguel Elizalde	8	MX 0159

* Note: There are no zones in class location 4 or 5

Update Control		
Review	Ver.	Date
First Draft	1	14/Jan/2021
Man hours added, definition regarding type of activity (Operation or Maintenance), Document ID created, Responsible Personnel added.	2	19/Jan/2021
Breakdown item # 19. Electrical Insulation Review, it was created as item #20 and the numbering was updated.	3	28/Jan/2021

Developed: David Moncada

 Signature

Reviewed: Angel Alva Lugo

 Signature

Authorized: Guillermo Lopez

 Signature

Review	3
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