4Q2024 LEAK MONITORING SURVEY REPORT SUMMARY

Transcontinental Gas Pipe Line Company, LLC
Compressor Station 190 – Howard County, Maryland
Part 70 Operating Permit No 24-027-00223

Pursuant to COMAR 26.11.41.07. 07A(1)(c), Transco hereby posts the following quarterly report summary of the leak monitoring survey conducted at Compressor Station 190 in Howard County, Maryland.

The summary report includes the information required in COMAR 26.11.41.07. 07A(1)(a), which includes the following:

(i) Date of the survey;

(ii) A list of each fugitive emission and repair;

(iii) Any deviations from the initial methane monitoring plan or a statement that there were no deviations from the initial methane monitoring plan;

(iv) Number and type of components for which fugitive emissions were detected;

(v) Number and type of difficult-to-monitor fugitive emission components monitored;

(vi) Instrument reading of each fugitive emissions component that requires repair when EPA Method 21 (40 CFR 60, Appendix A-7) is used for monitoring;

(vii) Number and type of fugitive emissions components that were not repaired;

(viii) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair;

(ix) The date of successful repair of the fugitive emissions component; and

(x) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.

Each LDAR survey summary report will be posted on the website for a period of at least two years from the date of the survey.

Quarterly Monitoring Survey Report Summary		
Facility	Transco Compressor Station 190	
Regulation(s)	COMAR 26.11.41	
Survey Method(s)	OGI	
Equipment	GF320	
Report Summary		**Required by**
Survey Date	11/7/2024	COMAR 26.11.41.07A.(1)(a)(i)
A List of Each Leak and Repair	See Table 1	COMAR 26.11.41.07A.(1)(a)(ii)
Deviated from Monitoring Plan	No	COMAR 26.11.41.07A.(1)(a)(iii)
Number and Type of Components found to have fugitive emissions.	15	COMAR 26.11.41.07A.(1)(a)(iv)
Number and type of difficult-to-monitor components monitored	NA	COMAR 26.11.41.07A.(1)(a)(v)
Number and type of components not repaired	1	COMAR 26.11.41.07A.(1)(a)(vii) - See Table 1
Number and type of Components placed on Delay of Repair	1	COMAR 26.11.41.07A.(1)(a)(viii) - See Table 1
Repair Date	See Table 1	COMAR 26.11.41.07A.(1)(a)(ix)
Method to Resurvey Repaired Components	See Table 1	COMAR 26.11.41.07A.(1)(a)(x)

NA = Not Applicable

TABLE 1
MONITORING SURVEY SUMMARY

Facility Name	Leak Date	Component Type	Component Sub Type	Location Description	Status	Repair Confirmation Date	Confirmation Method	Delay Of Repair	DOR Reason
COMAR 26.11.41.07A.(1)(a)	(i)		(ii)	(ii)		(ix)	(x)	(viii)	(viii)
190 Station	11/07/2024	Valve	Ball Valve	Packing of Repressuring Valve MD 122, Northeast of Chromatograp	Repair Confirmed	11/19/2024	Method 21 - Soap Bubbles	No	
190 Station	11/07/2024	Valve	Ball Valve	Seat of Valve 190D0, East of MD-19.	Repair Confirmed	11/19/2024	Method 21 - Soap Bubbles	No	
190 Station	11/07/2024	Connector	Plug	Top Plug of Vent Valve, on Valve B1, South of MD-19.	Repair Confirmed	11/15/2024	Method 21 - Soap Bubbles	No	
190 Station	11/07/2024	Connector	Plug	Open Threaded Connection of 90, East Side of MD-19.	DOR - Repair Confirmed	11/19/2024	Method 21 - Soap Bubbles	No	Requires vent blowdown to safely complete the repair.
190 Station	11/07/2024	Valve	Ball Valve	Northwest Grease Fitting below MD-19.	Repair Confirmed	11/15/2024	Method 21 - Soap Bubbles	No	
190 Station	11/07/2024	Valve	Ball Valve	Southwest Grease Fitting below MD-85.	Repair Confirmed	11/15/2024	Method 21 - Soap Bubbles	No	
190 Station	11/07/2024	Valve	Ball Valve	Body Seal of Suction Valve SCV-0107, Unit 1.	Repair Confirmed	11/15/2024	Method 21 - Soap Bubbles	No	
190 Station	11/07/2024	Valve	Control Valve	Packing of Control Valve, South of BV-02-183, on Unit 5 Suction By	DOR - Repair Confirmed	12/4/2024	Method 21 - Soap Bubbles	No	Requires vent blowdown to safely complete the repair.
190 Station	11/07/2024	Connector	Connector	West Threaded Connection above PSV-0704 on Unit 7 Discharge Li	DOR - Repair Confirmed	11/19/2024	Method 21 - Soap Bubbles	No	Requires vent blowdown to safely complete the repair.
190 Station	11/07/2024	Connector	Connector	West Threaded Connection above PSV-0804 on Unit 8 Discharge Li	DOR - Repair Confirmed	11/15/2024	Method 21 - Soap Bubbles	No	Requires vent blowdown to safely complete the repair.
190 Station	11/07/2024	Valve	Ball Valve	Body Bleed of PL-02-226, North of Unit 8 Suction Valve.	Repair Confirmed	11/15/2024	Method 21 - Soap Bubbles	No	
190 Station	11/07/2024	Connector	Connector	West Threaded Connection above PSV-0904 on Unit 9 Discharge Li	DOR - Repair Confirmed	11/15/2024	Method 21 - Soap Bubbles	No	Requires vent blowdown to safely complete the repair.
190 Station	11/07/2024	Connector	Connector	West Threaded Connection above PSV-1004 on Unit 10 Discharge L	Delay of Repair			Yes	Requires vent blowdown to safely complete the repair.
190 Station	11/07/2024	Connector	Plug	Missing Plug of Ball Valve 07-032 on Unit 11 Pocket Actuator Gas L	Repair Confirmed	11/15/2024	Method 21 - Soap Bubbles	No	
190 Station	11/07/2024	Other	Other	Body Seal of Bottle F-3013 on Tubing Line of Unit 13 Fuel Gas Run.	Repair Confirmed	11/19/2024	Method 21 - Soap Bubbles	No	

3Q2024 LEAK MONITORING SURVEY REPORT SUMMARY

Transcontinental Gas Pipe Line Company, LLC
Compressor Station 190 – Howard County, Maryland
Part 70 Operating Permit No 24-027-00223

Pursuant to COMAR 26.11.41.07. 07A(1)(c), Transco hereby posts the following quarterly report summary of the leak monitoring survey conducted at Compressor Station 190 in Howard County, Maryland.

The summary report includes the information required in COMAR 26.11.41.07. 07A(1)(a), which includes the following:

(i) Date of the survey;

(ii) A list of each fugitive emission and repair;

(iii) Any deviations from the initial methane monitoring plan or a statement that there were no deviations from the initial methane monitoring plan;

(iv) Number and type of components for which fugitive emissions were detected;

(v) Number and type of difficult-to-monitor fugitive emission components monitored;

(vi) Instrument reading of each fugitive emissions component that requires repair when EPA Method 21 (40 CFR 60, Appendix A-7) is used for monitoring;

(vii) Number and type of fugitive emissions components that were not repaired;

(viii) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair;

(ix) The date of successful repair of the fugitive emissions component; and

(x) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.

Each LDAR survey summary report will be posted on the website for a period of at least two years from the date of the survey.

Quarterly Monitoring Survey Report Summary		
Facility	Transco Compressor Station 190	
Regulation(s)	COMAR 26.11.41	
Survey Method(s)	OGI	
Equipment	GF300	
Report Summary		**Required by**
Survey Date	8/28/2024	COMAR 26.11.41.07A.(1)(a)(i)
A List of Each Leak and Repair	See Table 1	COMAR 26.11.41.07A.(1)(a)(ii)
Deviated from Monitoring Plan	No	COMAR 26.11.41.07A.(1)(a)(iii)
Number and Type of Components found to have fugitive emissions.	22	COMAR 26.11.41.07A.(1)(a)(iv)
Number and type of difficult-to-monitor components monitored	NA	COMAR 26.11.41.07A.(1)(a)(v)
Number and type of components not repaired	16	COMAR 26.11.41.07A.(1)(a)(vii) - See Table 1
Number and type of Components placed on Delay of Repair	16	COMAR 26.11.41.07A.(1)(a)(viii) - See Table 1
Repair Date	See Table 1	COMAR 26.11.41.07A.(1)(a)(ix)
Method to Resurvey Repaired Components	See Table 1	COMAR 26.11.41.07A.(1)(a)(x)

NA = Not Applicable

TABLE 1
MONITORING SURVEY SUMMARY

Facility Name	Leak Date	Component Type	Component Sub Type	Location Description	Status	Repair Confirmation Date	Confirmation Method	Delay Of Repair	DOR Reason
COMAR 26.11.41.07A.(1)(a)	(i)		(ii)	(ii)		(ix)	(x)	(viii)	(viii)
190 Station	08/28/2024	Valve	Ball Valve	Packing of 2" Valve PCV-0161 Overhead, Middle of Fuel Gas Skid, North of Blowdown Stacks.	Delay of Repair			No	
190 Station	08/28/2024	Valve	Block Valve	Seat of EBD-4002 Above Middle Inlet/Discharge Line, Northwest End of Facility.	Repair Confirmed	9/25/2024		No	
190 Station	08/28/2024	Connector	Grease Zerk	Southwest Grease Fitting of Valve 190C1, North of Pigs, Northwest End of Facility.	Repair Confirmed	9/19/2024		No	
190 Station	08/28/2024	Open Ended Line	OEL	Emissions from Open Ended Line from Valve MD-38, North of Pigs, Northwest End of Facility.	Delay of Repair			Yes	Requires facility shutdown to safely complete the repair.
190 Station	08/28/2024	Open Ended Line	OEL	Emissions from Open Ended Line from Valve MD-39, North of Pigs, Northwest End of Facility.	Delay of Repair			Yes	Requires facility shutdown to safely complete the repair.
190 Station	08/28/2024	Connector	Cap	Yale Cap Above MD-86B on Northwest Pig, Southwest End of Facility.	Repair Confirmed	8/29/2024		No	
190 Station	08/28/2024	Valve	Block Valve	Packing of MD-19, Southwest End of Facility.	Delay of Repair			No	Requires blowdown to safely complete the repair.
190 Station	08/28/2024	Valve	Ball Valve	Seat of Station Emergency Blowdown Valve SECE-BV-07-016, Southwest Corner of Unit 1 Building.	Delay of Repair			Yes	Requires facility shutdown to safely complete the repair.
190 Station	08/28/2024	Valve	Block Valve	Body Seal of Unit 3 Discharge Valve, West of Unit Building.	Delay of Repair			No	Requires blowdown to safely complete the repair.
190 Station	08/28/2024	Valve	Bleeder	Weep Hole of Bleeder Above Valve B-2, Southwest End of Facility.	Delay of Repair			No	Requires blowdown to safely complete the repair.
190 Station	08/28/2024	Valve	Ball Valve	Weep Hole of Packing Port to Unit 4 Suction Loading Valve, West of Unit Building.	Repair Confirmed	9/19/2024		No	
190 Station	08/28/2024	Valve	Block Valve	Body Seal of Unit 5 Recycle Valve, West of Unit Building.	Delay of Repair			No	Requires blowdown to safely complete the repair.
190 Station	08/28/2024	Connector	Union	Southwest Tubing Union of Manifold from Valve SESC-PSV-0704 from Unit 7, West Side of Unit Building.	Repair Confirmed	9/12/2024		No	

TABLE 1
MONITORING SURVEY SUMMARY

Facility Name	Leak Date	Component Type	Component Sub Type	Location Description	Status	Repair Confirmation Date	Confirmation Method	Delay Of Repair	DOR Reason
COMAR 26.11.41.07A.(1)(a)	(i)		(ii)	(ii)		(ix)	(x)	(viii)	(viii)
190 Station	08/28/2024	Connector	Plug	Missing Plug of Unit 9 Recycle Valve, West Side of Unit Building.	Delay of Repair			No	Requires blowdown to safely complete the repair.
190 Station	08/28/2024	Compressor	Pocket Flange	Top South Unloader Seal of Middle Throw to Unit 11.	Delay of Repair			Yes	Requires vent blowdown to safely complete the repair.
190 Station	08/28/2024	Compressor	Pocket Flange	Bottom Southwest Pocket Cap of Throw 6 to Unit 12.	Delay of Repair			Yes	Requires vent blowdown to safely complete the repair.
190 Station	08/28/2024	Compressor	Compressor	Head End Seal of Throw 4 to Unit 12.	Delay of Repair			Yes	Requires vent blowdown to safely complete the repair.
190 Station	08/28/2024	Compressor	Compressor	South Seal of Throw 1 to Main Engine Unit for Unit 12.	Delay of Repair			Yes	Requires vent blowdown to safely complete the repair.
190 Station	08/28/2024	Connector	Plug	Plug of West Siphon Drain Line, East of Unit 12 Discharge Valve.	Repair Confirmed	9/12/2024		No	
190 Station	08/28/2024	Valve	Block Valve	Packing of ESD 2-0224 Plug Valve, East of Unit 11 Discharge Valve.	Not Repaired			No	
190 Station	08/28/2024	Valve	Needle Valve	Seat of South Needle Valve Between Power Gas Filters, West Side of Unit 13.	Not Repaired			No	
190 Station	08/28/2024	Connector	Grease Zerk	Bottom Grease Fitting of Horizontal Ball Valve, East of Fuel Gas Filter, South of Unit 13 Building.	Not Repaired			No	

2Q2024 LEAK MONITORING SURVEY REPORT SUMMARY

Transcontinental Gas Pipe Line Company, LLC
Compressor Station 190 – Howard County, Maryland
Part 70 Operating Permit No 24-027-00223

Pursuant to COMAR 26.11.41.07. 07A(1)(c), Transco hereby posts the following quarterly report summary of the leak monitoring survey conducted at Compressor Station 190 in Howard County, Maryland.

The summary report includes the information required in COMAR 26.11.41.07. 07A(1)(a), which includes the following:

(i) Date of the survey;

(ii) A list of each fugitive emission and repair;

(iii) Any deviations from the initial methane monitoring plan or a statement that there were no deviations from the initial methane monitoring plan;

(iv) Number and type of components for which fugitive emissions were detected;

(v) Number and type of difficult-to-monitor fugitive emission components monitored;

(vi) Instrument reading of each fugitive emissions component that requires repair when EPA Method 21 (40 CFR 60, Appendix A-7) is used for monitoring;

(vii) Number and type of fugitive emissions components that were not repaired;

(viii) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair;

(ix) The date of successful repair of the fugitive emissions component; and

(x) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.

Each LDAR survey summary report will be posted on the website for a period of at least two years from the date of the survey.

Quarterly Monitoring Survey Report Summary		
Facility	Transco Compressor Station 190	
Regulation(s)	COMAR 26.11.41	
Survey Method(s)	OGI	
Equipment	GFx320	
Report Summary		**Required by**
Survey Date	6/19/2024	COMAR 26.11.41.07A.(1)(a)(i)
A List of Each Leak and Repair	See Table 1	COMAR 26.11.41.07A.(1)(a)(ii)
Deviated from Monitoring Plan	No	COMAR 26.11.41.07A.(1)(a)(iii)
Number and Type of Components found to have fugitive emissions.	21	COMAR 26.11.41.07A.(1)(a)(iv)
Number and type of difficult-to-monitor components monitored	NA	COMAR 26.11.41.07A.(1)(a)(v)
Number and type of components not repaired	8	COMAR 26.11.41.07A.(1)(a)(vii) - See Table 1
Number and type of Components placed on Delay of Repair	8	COMAR 26.11.41.07A.(1)(a)(viii) - See Table 1
Repair Date	See Table 1	COMAR 26.11.41.07A.(1)(a)(ix)
Method to Resurvey Repaired Components	See Table 1	COMAR 26.11.41.07A.(1)(a)(x)

NA = Not Applicable

TABLE 1

MONITORING SURVEY SUMMARY

Facility Name	Leak Date	Component Type	Component Sub Type	Location Description	Status	Repair Confirmation Date	Confirmation Method	Delay Of Repair	DOR Reason
AR 26.11.41.07A.	(i)		(ii)	(ii)		(ix)	(x)	(viii)	(viii)
190 Station	06/19/2024	Valve	Ball Valve	Seat of Emergency Shutdown Station Valve BV-07-001 East of Auxil	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	06/19/2024	Other	Other	Body Seal of Bottle F-3013 on Tubing Line of Unit 13 Fuel Gas Run.	Repair Confirmed	7/11/2024	Method 21- Soap Bubbles	No	
190 Station	06/19/2024	Valve	Block Valve	Grease Fitting on Ball Valve MD-82B, East of Pig Launcher 1 6 30 24	Repair Confirmed	7/9/2024	Method 21- Soap Bubbles	No	
190 Station	06/19/2024	Open Ended Line	OEL	OEL of Station Yard Blowdown Stack.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	06/19/2024	Valve	Ball Valve	Seat of Blow Off Valve SECE EBD-104, East of Yard Blowdown Stack	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	06/19/2024	Valve	Ball Valve	Grease Fitting on Ball Valve MD46B, East of ML "B" Northbound Pig	Repair Confirmed	7/9/2024	Method 21- Soap Bubbles	No	
190 Station	06/19/2024	Valve	Block Valve	Grease Fitting on Block Valve B-1, South of MD39.	Repair Confirmed	7/9/2024	Method 21- Soap Bubbles	No	
190 Station	06/19/2024	Valve	Block Valve	Packing of Valve MD-38, Northwest Corner of Yard.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	06/19/2024	Valve	Control Valve	Seat of Actuator Valve SECE XV-3016, South of Unit 13 Building.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	06/19/2024	Valve	Block Valve	East Grease Fitting on Suction Valve SCV-1201, Unit 12.	Repair Confirmed	7/9/2024	Method 21- Soap Bubbles	No	
190 Station	06/19/2024	Valve	Block Valve	Body Seal of Suction Valve SCV-0409, Unit 4.	Repair Confirmed	7/10/2024	Method 21- Soap Bubbles	No	
190 Station	06/19/2024	Valve	Block Valve	Seat of Suction Valve SCV-0308, Unit 3.	Repair Confirmed	7/10/2024	Method 21- Soap Bubbles	No	
190 Station	06/19/2024	Valve	Block Valve	Body Seal of Suction Valve SCV-0201, Unit 2.	Repair Confirmed	7/10/2024	Method 21- Soap Bubbles	No	
190 Station	06/19/2024	Valve	Block Valve	Body Seal of Suction Valve SCV-0107, Unit 1.	Repair Confirmed	7/10/2024	Method 21- Soap Bubbles	No	
190 Station	06/19/2024	Valve	Block Valve	Seat of Valve BCV-0206, Unit 2 Inlet/Discharge Piping.	Repair Confirmed	7/10/2024	Method 21- Soap Bubbles	No	
190 Station	06/19/2024	Valve	Gate Valve	Packing of Gate Valve BV-03-035 inside Meter Building.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	06/19/2024	Valve	Block Valve	Seat of Valve GV-02-108 on Inlet Line to Scrubber #5.	Repair Confirmed	7/10/2024	Method 21- Soap Bubbles	No	
190 Station	06/19/2024	Connector	Connector	West Tubing Connection to Instrumentation Box on Power Gas Line	Repair Confirmed	7/10/2024	Method 21- Soap Bubbles	No	
190 Station	06/19/2024	Valve	Block Valve	Seat of Valve 190B0, West End of Yard.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	06/19/2024	Valve	Block Valve	Body Seal of Repressuring Valve MD 122, Northeast of Chromatogr	Repair Confirmed	7/10/2024	Method 21- Soap Bubbles	No	
190 Station	06/19/2024	Connector	Flange	Top Flange Connection above Valve PL-1P-072, Northeast of 190A0	Delay of Repair			Yes	The repair requires a vent blowdown to complete.

1Q2024 LEAK MONITORING SURVEY REPORT SUMMARY

Transcontinental Gas Pipe Line Company, LLC
Compressor Station 190 – Howard County, Maryland
Part 70 Operating Permit No 24-027-00223

Pursuant to COMAR 26.11.41.07. 07A(1)(c), Transco hereby posts the following quarterly report summary of the leak monitoring survey conducted at Compressor Station 190 in Howard County, Maryland.

The summary report includes the information required in COMAR 26.11.41.07. 07A(1)(a), which includes the following:

(i) Date of the survey;

(ii) A list of each fugitive emission and repair;

(iii) Any deviations from the initial methane monitoring plan or a statement that there were no deviations from the initial methane monitoring plan;

(iv) Number and type of components for which fugitive emissions were detected;

(v) Number and type of difficult-to-monitor fugitive emission components monitored;

(vi) Instrument reading of each fugitive emissions component that requires repair when EPA Method 21 (40 CFR 60, Appendix A-7) is used for monitoring;

(vii) Number and type of fugitive emissions components that were not repaired;

(viii) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair;

(ix) The date of successful repair of the fugitive emissions component; and

(x) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.

Each LDAR survey summary report will be posted on the website for a period of at least two years from the date of the survey.

Quarterly Monitoring Survey Report Summary		
Facility	Transco Compressor Station 190	
Regulation(s)	COMAR 26.11.41	
Survey Method(s)	OGI	
Equipment	GFx320	
Report Summary		**Required by**
Survey Date	3/27/2024	COMAR 26.11.41.07A.(1)(a)(i)
A List of Each Leak and Repair	See Table 1	COMAR 26.11.41.07A.(1)(a)(ii)
Deviated from Monitoring Plan	No	COMAR 26.11.41.07A.(1)(a)(iii)
Number and Type of Components found to have fugitive emissions.	16	COMAR 26.11.41.07A.(1)(a)(iv)
Number and type of difficult-to-monitor components monitored	NA	COMAR 26.11.41.07A.(1)(a)(v)
Number and type of components not repaired	16	COMAR 26.11.41.07A.(1)(a)(vii) - See Table 1
Number and type of Components placed on Delay of Repair	3	COMAR 26.11.41.07A.(1)(a)(viii) - See Table 1
Repair Date	See Table 1	COMAR 26.11.41.07A.(1)(a)(ix)
Method to Resurvey Repaired Components	See Table 1	COMAR 26.11.41.07A.(1)(a)(x)

NA = Not Applicable

TABLE 1

MONITORING SURVEY SUMMARY

Facility Name	Leak Date	Component Type	Component Sub Type	Location Description	Status	Repair Confirmation Date	Confirmation Method	Delay Of Repair	DOR Reason
AR 26.11.41.07A.	(i)		(ii)	(ii)		(ix)	(x)	(viii)	(viii)
190 Station	03/27/2024	Valve	Block Valve	Packing of Discharge Valve, Unit 1.	Not Repaired			No	Repair Deadline is 4/26/2024.
190 Station	03/27/2024	Valve	Block Valve	Packing of Bypass Valve, Unit 1.	Not Repaired			No	Repair Deadline is 4/26/2024.
190 Station	03/27/2024	Valve	Block Valve	Packing of Suction Valve, Unit 1.	Not Repaired			No	Repair Deadline is 4/26/2024.
190 Station	03/27/2024	Valve	Block Valve	Packing of Discharge Valve, Unit 4.	Not Repaired			No	Repair Deadline is 4/26/2024.
190 Station	03/27/2024	Valve	Block Valve	Packing of Suction Valve, Unit 4.	Not Repaired			No	Repair Deadline is 4/26/2024.
190 Station	03/27/2024	Pressure Relief D	Pressure Relief De	Body Seal of Pilot Valve for Discharge PRV, Unit 7.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	03/27/2024	Valve	Block Valve	Packing of Bypass Valve, Unit 7.	Not Repaired			No	Repair Deadline is 4/26/2024.
190 Station	03/27/2024	Valve	Block Valve	Packing of Bypass Valve, Unit 11.	Not Repaired			No	Repair Deadline is 4/26/2024.
190 Station	03/27/2024	Connector	Union	Union North of PCV-0236 on Power Gas Run North of Unit 11 Sucti	Not Repaired			No	Repair Deadline is 4/26/2024.
190 Station	03/27/2024	Flange	Flange	Discharge Flange Connection on West side of Cylinder 1, Unit 12.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	03/27/2024	Connector	Connector	Upper Tubing Connection to Distance Piece Valve on West side of	Not Repaired			No	Repair Deadline is 4/26/2024.
190 Station	03/27/2024	Other	Other	Unloader Seal 811, Unit 12.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	03/27/2024	Valve	Block Valve	Packing of Valve BV-03-040 inside Metering Building.	Not Repaired			No	Repair Deadline is 4/26/2024.
190 Station	03/27/2024	Connector	Grease Zerk	Grease Fitting on North side of Valve SECE-190S6.	Not Repaired			No	Repair Deadline is 4/26/2024.
190 Station	03/27/2024	Valve	Block Valve	Packing of Valve GV-1P-071.	Not Repaired			No	Repair Deadline is 4/26/2024.
190 Station	03/27/2024	Valve	Block Valve	Packing of Valve GV-1P-041.	Not Repaired			No	Repair Deadline is 4/26/2024.

4Q2023 LEAK MONITORING SURVEY REPORT SUMMARY

Transcontinental Gas Pipe Line Company, LLC
Compressor Station 190 – Howard County, Maryland
Part 70 Operating Permit No 24-027-00223

Pursuant to COMAR 26.11.41.07. 07A(1)(c), Transco hereby posts the following quarterly report summary of the leak monitoring survey conducted at Compressor Station 190 in Howard County, Maryland.

The summary report includes the information required in COMAR 26.11.41.07. 07A(1)(a), which includes the following:

(i) Date of the survey;

(ii) A list of each fugitive emission and repair;

(iii) Any deviations from the initial methane monitoring plan or a statement that there were no deviations from the initial methane monitoring plan;

(iv) Number and type of components for which fugitive emissions were detected;

(v) Number and type of difficult-to-monitor fugitive emission components monitored;

(vi) Instrument reading of each fugitive emissions component that requires repair when EPA Method 21 (40 CFR 60, Appendix A-7) is used for monitoring;

(vii) Number and type of fugitive emissions components that were not repaired;

(viii) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair;

(ix) The date of successful repair of the fugitive emissions component; and

(x) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.

Each LDAR survey summary report will be posted on the website for a period of at least two years from the date of the survey.

Quarterly Monitoring Survey Report Summary		
Facility	Transco Compressor Station 190	
Regulation(s)	COMAR 26.11.41	
Survey Method(s)	OGI	
Equipment	GFx320	
Report Summary		**Required by**
Survey Date	11/29/2023	COMAR 26.11.41.07A.(1)(a)(i)
A List of Each Leak and Repair	See Table 1	COMAR 26.11.41.07A.(1)(a)(ii)
Deviated from Monitoring Plan	No	COMAR 26.11.41.07A.(1)(a)(iii)
Number and Type of Components found to have fugitive emissions.	13	COMAR 26.11.41.07A.(1)(a)(iv)
Number and type of difficult-to-monitor components monitored	NA	COMAR 26.11.41.07A.(1)(a)(v)
Number and type of components not repaired	7	COMAR 26.11.41.07A.(1)(a)(vii) - See Table 1
Number and type of Components placed on Delay of Repair	7	COMAR 26.11.41.07A.(1)(a)(viii) - See Table 1
Repair Date	See Table 1	COMAR 26.11.41.07A.(1)(a)(ix)
Method to Resurvey Repaired Components	See Table 1	COMAR 26.11.41.07A.(1)(a)(x)

NA = Not Applicable

TABLE 1
MONITORING SURVEY SUMMARY

Facility Name	Leak Date	Component Type	Component Sub Type	Location Description	Status	Repair Confirmation Date	Confirmation Method	Delay Of Repair	DOR Reason
AR 26.11.41.07A.	(i)		(ii)	(ii)		(ix)	(x)	(viii)	(viii)
190 Station	11/29/2023	Compressor	Pocket Flange	Top Northeast Unloader Seal on Throw 3, Unit 9.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	11/29/2023	Compressor	Pocket Flange	Top Northeast Unloader Seal on Throw 2, Unit 8.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	11/29/2023	Compressor	Pocket Flange	Top Northwest Unloader Seal on Throw 2, Unit 2.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	11/29/2023	Compressor	Pocket Flange	Top Northwest Unloader Seal on Throw 3, Unit 1.	DOR - Repair Attempted			Yes	The repair requires a vent blowdown to complete.
190 Station	11/29/2023	Pressure Relief D	Pressure Relief De	West Stem on Top of PSV-0804, outside Unit 8.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	11/29/2023	Valve	Control Valve	Packing of BV-02-0802 outside Unit 8.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	11/29/2023	Connector	Fitted Connection	Southwest Grease Fitting on MD-85.	Repair Confirmed	12/5/2023	Method 21- Soap Bubbles	No	
190 Station	11/29/2023	Connector	Cap	Cap Above Valve B1, South of MD-19.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	11/29/2023	Valve	Ball Valve	Packing of EBD-103.	Repair Confirmed	12/13/2023	Method 21- Soap Bubbles	No	
190 Station	11/29/2023	Valve	Ball Valve	Packing of GV-1P-041.	Repair Confirmed	12/13/2023	Method 21- Soap Bubbles	No	
190 Station	11/29/2023	Valve	Ball Valve	Seat of Drain Valve ND-02-038.	Repair Confirmed	12/5/2023	Method 21- Soap Bubbles	No	
190 Station	11/29/2023	Valve	Ball Valve	Seat of Bleed Valve East of BV-02-036.	Repair Confirmed	12/5/2023	Method 21- Soap Bubbles	No	
190 Station	11/29/2023	Valve	Ball Valve	Packing of Bleed Valve East of BV-02-036.	Repair Confirmed	12/5/2023	Method 21- Soap Bubbles	No	

3Q2023 LEAK MONITORING SURVEY REPORT SUMMARY

Transcontinental Gas Pipe Line Company, LLC
Compressor Station 190 – Howard County, Maryland
Part 70 Operating Permit No 24-027-00223

Pursuant to COMAR 26.11.41.07. 07A(1)(c), Transco hereby posts the following quarterly report summary of the leak monitoring survey conducted at Compressor Station 190 in Howard County, Maryland.

The summary report includes the information required in COMAR 26.11.41.07. 07A(1)(a), which includes the following:

(i) Date of the survey;

(ii) A list of each fugitive emission and repair;

(iii) Any deviations from the initial methane monitoring plan or a statement that there were no deviations from the initial methane monitoring plan;

(iv) Number and type of components for which fugitive emissions were detected;

(v) Number and type of difficult-to-monitor fugitive emission components monitored;

(vi) Instrument reading of each fugitive emissions component that requires repair when EPA Method 21 (40 CFR 60, Appendix A-7) is used for monitoring;

(vii) Number and type of fugitive emissions components that were not repaired;

(viii) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair;

(ix) The date of successful repair of the fugitive emissions component; and

(x) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.

Each LDAR survey summary report will be posted on the website for a period of at least two years from the date of the survey.

Quarterly Monitoring Survey Report Summary		
Facility	Transco Compressor Station 190	
Regulation(s)	COMAR 26.11.41	
Survey Method(s)	OGI	
Equipment	GFx320	
Report Summary		**Required by**
Survey Date	9/21-22/2023	COMAR 26.11.41.07A.(1)(a)(i)
A List of Each Leak and Repair	See Table 1	COMAR 26.11.41.07A.(1)(a)(ii)
Deviated from Monitoring Plan	No	COMAR 26.11.41.07A.(1)(a)(iii)
Number and Type of Components found to have fugitive emissions.	47	COMAR 26.11.41.07A.(1)(a)(iv)
Number and type of difficult-to-monitor components monitored	NA	COMAR 26.11.41.07A.(1)(a)(v)
Number and type of components not repaired	24	COMAR 26.11.41.07A.(1)(a)(vii) - See Table 1
Number and type of Components placed on Delay of Repair	9	COMAR 26.11.41.07A.(1)(a)(viii) - See Table 1
Repair Date	See Table 1	COMAR 26.11.41.07A.(1)(a)(ix)
Method to Resurvey Repaired Components	See Table 1	COMAR 26.11.41.07A.(1)(a)(x)

NA = Not Applicable

TABLE 1

MONITORING SURVEY SUMMARY

Facility Name	Leak Date	Component Type	Component Sub Type	Location Description	Status	Repair Confirmation Date	Confirmation Method	Delay Of Repair	DOR Reason
AR 26.11.41.07A.	(i)		(ii)	(ii)		(ix)	(x)	(viii)	(viii)
190 Station	09/21/2023	Connector	Connector	Threaded Connection to Bottom of Filter for Bottom West Regulator on Fuel Gas Run, Unit 13.	Not Repaired	-	-	No	
190 Station	09/21/2023	Connector	Grease Zerk	West Grease Fitting on Valve BV-03-489, Unit 13.	Repair Confirmed	9/27/2023	Method 21- Soap Bubbles	No	
190 Station	09/21/2023	Valve	Block Valve	Seat of Fuel Gas BDV XV-3016, Unit 13.	Not Repaired	-	-	No	
190 Station	09/21/2023	Compressor	Compressor	Head End Unloader Seal of Cylinder 1, Unit 12.	Repair Confirmed	10/10/2023	Method 21- Soap Bubbles	No	
190 Station	09/21/2023	Connector	Plug	Threaded Connection of Plug to Vent Valve BV-03-393 on Top Fuel Gas line, Unit 12.	Repair Confirmed	9/27/2023	Method 21- Soap Bubbles	No	
190 Station	09/21/2023	Other	Other	Unloader Seal 116, Unit 11.	Repair Confirmed	9/28/2023	Method 21- Soap Bubbles	No	
190 Station	09/21/2023	Connector	Connector	Upper Tubing Connection to West Lube Line above Head End of Cylinder 1, Unit 11.	Repair Confirmed	9/28/2023	Method 21- Soap Bubbles	No	
190 Station	09/21/2023	Other	Other	Actuator Seal of Automatic BDV, Unit 12.	Not Repaired	-	-	No	
190 Station	09/21/2023	Valve	Block Valve	Packing of Bypass Valve, Unit 12.	Repair Confirmed	10/9/2023	Method 21- Soap Bubbles	No	
190 Station	09/21/2023	Flange	Flange	Middle Flange South of Valve BV-03-372 on Fuel Gas Run Exterior of Building, Unit 11.	Not Repaired	-	-	No	
190 Station	09/21/2023	Connector	Union	Union above Valve BV-02-283 On Fuel Gas Run Exterior of Building, Unit 11.	Not Repaired	-	-	No	
190 Station	09/21/2023	Valve	Block Valve	Packing of Automatic BDV, Unit 11.	Repair Confirmed	10/9/2023	Method 21- Soap Bubbles	No	
190 Station	09/21/2023	Valve	Block Valve	Packing of Suction Loading Valve, Unit 11.	Repair Confirmed	9/27/2023	Method 21- Soap Bubbles	No	
190 Station	09/21/2023	Valve	Regulator Valve	Body Seal of Regulator PCV-0161, Fuel Gas Skid.	Delay of Repair	-	-	Yes	The repair requires parts or equipment that takes longer than 30 days to be ordered and delivered.
190 Station	09/21/2023	Valve	Block Valve	Actuator Seal of Valve CV-99604, Fuel Gas Skid.	Repair Confirmed	9/27/2023	Method 21- Soap Bubbles	No	
190 Station	09/21/2023	Open Ended Line	OEL	OEL below Tee on Shared PSV line in between Valves CV-99604 and CV-99602.	Delay of Repair	-	-	Yes	The repair requires a vent blowdown to complete.
190 Station	09/21/2023	Connector	Connector	Threaded Connection to Top of 3 Way Gate Valve LG-7103 below Site Glass, Fuel Gas Skid.	Repair Confirmed	9/28/2023	Method 21- Soap Bubbles	No	
190 Station	09/21/2023	Valve	Block Valve	Packing of Discharge Valve, Unit 1.	Not Repaired	-	-	No	
190 Station	09/21/2023	Pressure Relief D	Pressure Relief Dev	Seat of Discharge PRV, Unit 4.	Delay of Repair	-	-	Yes	The repair requires parts or equipment that takes longer than 30 days to be ordered and delivered.
190 Station	09/21/2023	Valve	Block Valve	Packing of Bypass Valve, Unit 5.	Not Repaired	-	-	No	
190 Station	09/21/2023	Connector	Connector	West Threaded Connection above Discharge PRV, Unit 8.	Not Repaired	-	-	No	
190 Station	09/21/2023	Valve	Block Valve	Packing of Bypass Valve, Unit 8.	Not Repaired	-	-	No	
190 Station	09/21/2023	Valve	Block Valve	Packing of Discharge Valve, Unit 9.	Not Repaired	-	-	No	
190 Station	09/21/2023	Connector	Connector	West Threaded Connection above Discharge PRV, Unit 9.	Delay of Repair	-	-	Yes	The repair requires a vent blowdown to complete.
190 Station	09/21/2023	Connector	Connector	West Threaded Connection above Discharge PRV, Unit 10.	Delay of Repair	-	-	Yes	The repair requires parts or equipment that takes longer than 30 days to be ordered and delivered.

TABLE 1

MONITORING SURVEY SUMMARY

Facility Name	Leak Date	Component Type	Component Sub Type	Location Description	Status	Repair Confirmation Date	Confirmation Method	Delay Of Repair	DOR Reason
AR 26.11.41.07A.	(i)		(ii)	(ii)		(ix)	(x)	(viii)	(viii)
190 Station	09/21/2023	Valve	Block Valve	Packing of Bypass Valve, Unit 10.	Not Repaired	-	-	No	
190 Station	09/22/2023	Valve	Block Valve	Packing of Fuel Gas Valve BV-03-035, Metering Station.	Delay of Repair	-	-	Yes	The repair requires a facility shutdown to complete.
190 Station	09/22/2023	Connector	Plug	Threaded Connection of Plug to Filter East of Fuel Gas Regulator PCV-7003, Metering Building.	Repair Confirmed	9/27/2023	Method 21- Soap Bubbles	No	
190 Station	09/22/2023	Other	Other	Unloader Seal 104, Unit 3.	Repair Confirmed	10/3/2023	Method 21- Soap Bubbles	No	
190 Station	09/22/2023	Other	Other	Unloader Seal 304, Unit 4.	Repair Confirmed	10/3/2023	Method 21- Soap Bubbles	No	
190 Station	09/22/2023	Flange	Flange	Seal Between Distance Piece and Cylinder 1, Unit 5.	Delay of Repair	-	-	Yes	The repair requires a vent blowdown to complete.
190 Station	09/22/2023	Other	Other	Unloader Seal 201, Unit 5.	Repair Confirmed	10/10/2023	Method 21- Soap Bubbles	No	
190 Station	09/22/2023	Flange	Flange	Head End Flange of Cylinder 3, Unit 5.	Repair Confirmed	10/10/2023	Method 21- Soap Bubbles	No	
190 Station	09/22/2023	Other	Other	Unloader Seal 201, Unit 7.	Repair Confirmed	10/4/2023	Method 21- Soap Bubbles	No	
190 Station	09/22/2023	Valve	Block Valve	Packing of Outlet Block Valve for Scrubber 4.	Repair Confirmed	10/10/2023	Method 21- Soap Bubbles	No	
190 Station	09/22/2023	Connector	Grease Zerk	East Grease Fitting on North side of Valve CV-98601.	Repair Confirmed	9/27/2023	Method 21- Soap Bubbles	No	
190 Station	09/22/2023	Connector	Connector	North Threaded Connection of South Tee on Power Gas Line to Valve S7.	Repair Confirmed	9/27/2023	Method 21- Soap Bubbles	No	
190 Station	09/22/2023	Connector	Connector	Top Threaded Connection to Drain Valve below Welker Filter on Power Gas Line to Valve S7.	Repair Confirmed	9/27/2023	Method 21- Soap Bubbles	No	
190 Station	09/22/2023	Connector	Cap	Yale Cap above Valve B-1, South of Valve MD-19.	Repair Confirmed	9/27/2023	Method 21- Soap Bubbles	No	
190 Station	09/22/2023	Connector	Connector	Threaded Connection of Plug above Vent Valve BV-1P-200, South of Valve MD-19.	Repair Confirmed	9/27/2023	Method 21- Soap Bubbles	No	
190 Station	09/22/2023	Valve	Block Valve	Packing of Valve MD-19.	Not Repaired	-	-	No	
190 Station	09/22/2023	Valve	Block Valve	Packing of Valve 190B0.	Delay of Repair	-	-	Yes	The repair requires a vent blowdown to complete.
190 Station	09/22/2023	Open Ended Line	OEL	OEL of Station Yard Blowdown Stack.	Not Repaired	-	-	No	
190 Station	09/22/2023	Valve	Block Valve	Seat of EBD Valve S4.	Repair Completed, Pending Confirmation	-	-	No	
190 Station	09/22/2023	Connector	Connector	Threaded Connection of Plug to Valve, West of Valve MD43B.	Repair Confirmed	9/27/2023	Method 21- Soap Bubbles	No	
190 Station	09/22/2023	Connector	Grease Zerk	Top Grease Fitting on North side of BDV S-14.	Delay of Repair	-	-	Yes	The repair requires a vent blowdown to complete.
190 Station	09/22/2023	Valve	Block Valve	Seat of BDV S-12.	Repair Completed, Pending Confirmation	-	-	No	

2Q2023 LEAK MONITORING SURVEY REPORT SUMMARY

Transcontinental Gas Pipe Line Company, LLC
Compressor Station 190 – Howard County, Maryland
Part 70 Operating Permit No 24-027-00223

Pursuant to COMAR 26.11.41.07. 07A(1)(c), Transco hereby posts the following quarterly report summary of the leak monitoring survey conducted at Compressor Station 190 in Howard County, Maryland.

The summary report includes the information required in COMAR 26.11.41.07. 07A(1)(a), which includes the following:

(i) Date of the survey;

(ii) A list of each fugitive emission and repair;

(iii) Any deviations from the initial methane monitoring plan or a statement that there were no deviations from the initial methane monitoring plan;

(iv) Number and type of components for which fugitive emissions were detected;

(v) Number and type of difficult-to-monitor fugitive emission components monitored;

(vi) Instrument reading of each fugitive emissions component that requires repair when EPA Method 21 (40 CFR 60, Appendix A-7) is used for monitoring;

(vii) Number and type of fugitive emissions components that were not repaired;

(viii) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair;

(ix) The date of successful repair of the fugitive emissions component; and

(x) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.

Each LDAR survey summary report will be posted on the website for a period of at least two years from the date of the survey.

Quarterly Monitoring Survey Report Summary		
Facility	Transco Compressor Station 190	
Regulation(s)	COMAR 26.11.41	
Survey Method(s)	OGI	
Equipment	GF320	
Report Summary		**Required by**
Survey Date	6/20/2023	COMAR 26.11.41.07A.(1)(a)(i)
A List of Each Leak and Repair	See Table 1	COMAR 26.11.41.07A.(1)(a)(ii)
Deviated from Monitoring Plan	No	COMAR 26.11.41.07A.(1)(a)(iii)
Number and Type of Components found to have fugitive emissions.	16	COMAR 26.11.41.07A.(1)(a)(iv)
Number and type of difficult-to-monitor components monitored	NA	COMAR 26.11.41.07A.(1)(a)(v)
Number and type of components not repaired	3	COMAR 26.11.41.07A.(1)(a)(vii) - See Table 1
Number and type of Components placed on Delay of Repair	3	COMAR 26.11.41.07A.(1)(a)(viii) - See Table 1
Repair Date	See Table 1	COMAR 26.11.41.07A.(1)(a)(ix)
Method to Resurvey Repaired Components	See Table 1	COMAR 26.11.41.07A.(1)(a)(x)

NA = Not Applicable

TABLE 1
MONITORING SURVEY SUMMARY

Facility Name	Leak Date	Component Type	Component Sub Type	Location Description	Status	Repair Confirmation Date	Confirmation Method	Delay Of Repair	DOR Reason
COMAR 26.11.41.07A.(1)(a)	(i)		(ii)	(ii)		(ix)	(x)	(viii)	(viii)
190 Station	06/20/2023	Compressor	Pocket Flange	Pocket Cap on Throw 1, Unit 4	Repair Confirmed	6/29/2023	Method 21- Soap Bubbles	No	
190 Station	06/20/2023	Compressor	Compressor	Head End Flange on Throw 3, Unit 7	Repair Confirmed	7/5/2023	Method 21- Soap Bubbles	No	
190 Station	06/20/2023	Compressor	Pocket Flange	Pocket Cap on Throw 2, Unit 7	Repair Confirmed	7/6/2023	Method 21- Soap Bubbles	No	
190 Station	06/20/2023	Compressor	Pocket Flange	Pocket Cap on Throw 2, Unit 8	Repair Confirmed	7/10/2023	Method 21- Soap Bubbles	No	
190 Station	06/20/2023	Connector	Fitted Connection	Threaded Connection East of Throw 1, Unit 9	Repair Confirmed	7/5/2023	Method 21- Soap Bubbles	No	
190 Station	06/20/2023	Connector	Fitted Connection	North Threaded Connection of Valve DCV-0501. In Yard East of Unit 4	Repair Confirmed	6/23/2023	Method 21- Soap Bubbles	No	
190 Station	06/21/2023	Valve	Ball Valve	Seat of Unit 3 Suction Valve.	Repair Confirmed	6/23/2023	Method 21- Soap Bubbles	No	
190 Station	06/21/2023	Connector	Fitted Connection	Threaded Connection to Manifold on Unit 1 Discharge Line outside of	Repair Confirmed	7/6/2023	Method 21- Soap Bubbles	No	
190 Station	06/21/2023	Valve	Ball Valve	Seat of Valve 190D0	Repair Confirmed	7/5/2023	Method 21- Soap Bubbles	No	
190 Station	06/21/2023	Connector	Fitted Connection	Threaded Connection on Side of Valve 190B0.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	06/21/2023	Connector	Hatch Seal	Head End Seal below Valve MD 86B.	Repair Confirmed	6/28/2023	Method 21- Soap Bubbles	No	
190 Station	06/21/2023	Compressor	Pocket Flange	Plug on Throw 1, Unit 11	Repair Confirmed	7/11/2023	Method 21- Soap Bubbles	No	
190 Station	06/21/2023	Flange	Flange	Flange Connection between Throws 4 and 6, Unit 12	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	06/21/2023	Flange	Flange	Flange Connection on West side of Throw 1, Unit 12.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	06/21/2023	Valve	Ball Valve	Plug above Vent Valve on Discharge Line, Unit 11.	Repair Confirmed	6/21/2023	Method 21- Soap Bubbles	No	
190 Station	06/21/2023	Connector	Grease Zerk	Grease Fitting below Valve MD 39. Northwest Yard.	Repair Confirmed	7/5/2023	Method 21- Soap Bubbles	No	

1Q2023 LEAK MONITORING SURVEY REPORT SUMMARY

Transcontinental Gas Pipe Line Company, LLC
Compressor Station 190 – Howard County, Maryland
Part 70 Operating Permit No 24-027-00223

Pursuant to COMAR 26.11.41.07. 07A(1)(c), Transco hereby posts the following quarterly report summary of the leak monitoring survey conducted at Compressor Station 190 in Howard County, Maryland.

The summary report includes the information required in COMAR 26.11.41.07. 07A(1)(a), which includes the following:

(i) Date of the survey;

(ii) A list of each fugitive emission and repair;

(iii) Any deviations from the initial methane monitoring plan or a statement that there were no deviations from the initial methane monitoring plan;

(iv) Number and type of components for which fugitive emissions were detected;

(v) Number and type of difficult-to-monitor fugitive emission components monitored;

(vi) Instrument reading of each fugitive emissions component that requires repair when EPA Method 21 (40 CFR 60, Appendix A-7) is used for monitoring;

(vii) Number and type of fugitive emissions components that were not repaired;

(viii) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair;

(ix) The date of successful repair of the fugitive emissions component; and

(x) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.

Each LDAR survey summary report will be posted on the website for a period of at least two years from the date of the survey.

Quarterly Monitoring Survey Report Summary		
Facility	Transco Compressor Station 190	
Regulation(s)	COMAR 26.11.41	
Survey Method(s)	OGI	
Equipment	GF300	
Report Summary		**Required by**
Survey Date	2/20/2023	COMAR 26.11.41.07A.(1)(a)(i)
A List of Each Leak and Repair	See Table 1	COMAR 26.11.41.07A.(1)(a)(ii)
Deviated from Monitoring Plan	No	COMAR 26.11.41.07A.(1)(a)(iii)
Number and Type of Components found to have fugitive emissions.	24	COMAR 26.11.41.07A.(1)(a)(iv)
Number and type of difficult-to-monitor components monitored	NA	COMAR 26.11.41.07A.(1)(a)(v)
Number and type of components not repaired	11	COMAR 26.11.41.07A.(1)(a)(vii) - See Table 1
Number and type of Components placed on Delay of Repair	11	COMAR 26.11.41.07A.(1)(a)(viii) - See Table 1
Repair Date	See Table 1	COMAR 26.11.41.07A.(1)(a)(ix)
Method to Resurvey Repaired Components	See Table 1	COMAR 26.11.41.07A.(1)(a)(x)

NA = Not Applicable

TABLE 1
MONITORING SURVEY SUMMARY

Facility Name	Leak Date	Component Type	Component Sub Type	Location Description	Status	Repair Confirmation Date	Confirmation Method	Delay Of Repair	DOR Reason
COMAR 26.11.41.07A.(1)(a)	(i)		(ii)	(ii)		(ix)	(x)	(viii)	(viii)
190 Station	02/20/2023	Connector	Hatch Seal	Middle bolt on top West distance piece plate, Unit 5.	Repair Confirmed	2/27/2023	Method 21- Soap Bubbles	No	
190 Station	02/20/2023	Connector	Screwed Connection	Threading of West tubing fitting on Northwest unloaded of cylinder 2, U	Repair Confirmed	2/27/2023	Method 21- Soap Bubbles	No	
190 Station	02/20/2023	Other	Other	Actuator seal of valve MD-38, Northwest side of yard.	Repair Confirmed	3/9/2023	OGI	No	
190 Station	02/20/2023	Connector	Screwed Connection	North threaded connection of South ball valve to PDI-1201A, Unit 11 ar	Repair Confirmed	2/27/2023	Method 21- Soap Bubbles	No	
190 Station	02/20/2023	Valve	Block Valve	Lower stem seal of bypass valve, Unit 1.	Repair Confirmed	3/9/2023	OGI	No	
190 Station	02/20/2023	Valve	Control Valve	Packing of discharge valve, Unit 4.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	02/20/2023	Valve	Ball Valve	Packing of suction loading valve, Unit 4.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	02/20/2023	Valve	Control Valve	Packing of suction valve, Unit 5.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	02/20/2023	Connector	Fitted Connection	Tubing to Middle East coupling on top East side of cylinder 2, Unit 11.	Repair Confirmed	2/27/2023	Method 21- Soap Bubbles	No	
190 Station	02/20/2023	Valve	Control Valve	Packing of discharge valve, Unit 8.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	02/20/2023	Valve	Control Valve	Packing of bypass valve, Unit 8.	Repair Confirmed	3/9/2023	OGI	No	
190 Station	02/20/2023	Valve	Control Valve	Packing of discharge valve, Unit 9.	Repair Confirmed	3/9/2023	OGI	No	
190 Station	02/20/2023	Pressure Relief D	Pressure Relief Device	Seat of PSV-1004, Unit 10.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	02/20/2023	Pressure Relief D	Pressure Relief Device	Seat of PSV-0204, Unit 2.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	02/20/2023	Pressure Relief D	Pressure Relief Device	Seat of PSV-0104, Unit 1.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	02/20/2023	Open Ended Line	OEL	OEL from pilot tubing on ESD2-0203, West side of compressor building	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	02/20/2023	Open Ended Line	OEL	OEL from pilot tubing on ESD2-0205, West side of compressor building	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	02/20/2023	Open Ended Line	OEL	OEL from overhead 2 inch ball valve at roof of Unit 11 and 12 building,	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	02/20/2023	Valve	Block Valve	Packing of inlet valve GV-02-055 on far South scrubber, scrubber area.	Repair Confirmed	3/9/2023	OGI	No	

TABLE 1
MONITORING SURVEY SUMMARY

Facility Name	Leak Date	Component Type	Component Sub Type	Location Description	Status	Repair Confirmation Date	Confirmation Method	Delay Of Repair	DOR Reason
COMAR 26.11.41.07A.(1)(a)	(i)		(ii)	(ii)		(ix)	(x)	(viii)	(viii)
190 Station	02/20/2023	Valve	Block Valve	Packing of inlet valve GV-02-108 on West side of far North scrubber, sc	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	02/20/2023	Valve	Block Valve	Grease fitting on fuel gas scrubber valve PL-03-010, North side of scrub	Repair Confirmed	2/27/2023	Method 21- Soap Bubbles	No	
190 Station	02/20/2023	Connector	Screwed Connection	Plug of vent valve ND-1P-111 to hammer cap above valve B-2, Northwe	Repair Confirmed	2/27/2023	Method 21- Soap Bubbles	No	
190 Station	02/20/2023	Valve	Ball Valve	Packing of valve below vent valve South of 190B2, Northwest side of ya	Repair Confirmed	2/27/2023	Method 21- Soap Bubbles	No	
190 Station	02/20/2023	Other	Other	Internal seal of actuator on valve MD39, Northwest side of yard.	Repair Confirmed	3/9/2023	OGI	No	

4Q2022 LEAK MONITORING SURVEY REPORT SUMMARY

Transcontinental Gas Pipe Line Company, LLC
Compressor Station 190 – Howard County, Maryland
Part 70 Operating Permit No 24-027-00223

Pursuant to COMAR 26.11.41.07. 07A(1)(c), Transco hereby posts the following quarterly report summary of the leak monitoring survey conducted at Compressor Station 190 in Howard County, Maryland.

The summary report includes the information required in COMAR 26.11.41.07. 07A(1)(a), which includes the following:

(i) Date of the survey;

(ii) A list of each fugitive emission and repair;

(iii) Any deviations from the initial methane monitoring plan or a statement that there were no deviations from the initial methane monitoring plan;

(iv) Number and type of components for which fugitive emissions were detected;

(v) Number and type of difficult-to-monitor fugitive emission components monitored;

(vi) Instrument reading of each fugitive emissions component that requires repair when EPA Method 21 (40 CFR 60, Appendix A-7) is used for monitoring;

(vii) Number and type of fugitive emissions components that were not repaired;

(viii) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair;

(ix) The date of successful repair of the fugitive emissions component; and

(x) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.

Each LDAR survey summary report will be posted on the website for a period of at least two years from the date of the survey.

Quarterly Monitoring Survey Report Summary		
Facility	Transco Compressor Station 190	
Regulation(s)	COMAR 26.11.41	
Survey Method(s)	OGI	
Equipment	GFX320	
Report Summary		**Required by**
Survey Date	12/1/2022	COMAR 26.11.41.07A.(1)(a)(i)
A List of Each Leak and Repair	See Table 1	COMAR 26.11.41.07A.(1)(a)(ii)
Deviated from Monitoring Plan	No	COMAR 26.11.41.07A.(1)(a)(iii)
Number and Type of Components found to have fugitive emissions.	31	COMAR 26.11.41.07A.(1)(a)(iv)
Number and type of difficult-to-monitor components monitored	NA	COMAR 26.11.41.07A.(1)(a)(v)
Number and type of components not repaired	9	COMAR 26.11.41.07A.(1)(a)(vii) - See Table 1
Number and type of Components placed on Delay of Repair	9	COMAR 26.11.41.07A.(1)(a)(viii) - See Table 1
Repair Date	See Table 1	COMAR 26.11.41.07A.(1)(a)(ix)
Method to Resurvey Repaired Components	See Table 1	COMAR 26.11.41.07A.(1)(a)(x)

NA = Not Applicable

TABLE 1
MONITORING SURVEY SUMMARY

Facility Name	Leak Date	Component Type	Component Sub Type	Location Description	Status	Repair Confirmation Date	Confirmation Method	Delay Of Repair	DOR Reason
COMAR 26.11.41.07A.(1)(a)	(i)		(ii)	(ii)		(ix)	(x)	(viii)	(viii)
190 Station	12/01/2022	Open Ended Line	OEL	OEL on Main Line A and B Block Valve Control.	Repair Confirmed	12/6/2022	Method 21- Soap Bubbles	No	
190 Station	12/01/2022	Open Ended Line	OEL	OEL on Main Line C and D Block Valve Control.	Repair Confirmed	12/6/2022	Method 21- Soap Bubbles	No	
190 Station	12/01/2022	Compressor	Compressor	Seal Between Distance Piece and Cylinder 1, Main Unit 1.	DOR - Repair Confirmed	12/9/2022	Method 21- Soap Bubbles	No	
190 Station	12/01/2022	Compressor	Compressor	Seal Between Distance Piece and Cylinder 3, Main Unit 1.	DOR - Repair Confirmed	12/9/2022	Method 21- Soap Bubbles	No	
190 Station	12/01/2022	Compressor	Adjustable Pocket Sten	Seal of Unloader 111, Main Unit 2.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	12/01/2022	Compressor	Compressor	Seal Between Distance Piece and Cylinder 1, Main Unit 2.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	12/01/2022	Compressor	Adjustable Pocket Sten	Seal of Unloader 214, Main Unit 3.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	12/01/2022	Compressor	Adjustable Pocket Sten	Seal of Unloader 311, Main Unit 8.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	12/01/2022	Valve	Control Valve	Seat of EBD-4002 Suction Side Gates, Northwest Inlet/Discharge Piping.	Repair Confirmed	12/13/2022	OGI	No	
190 Station	12/01/2022	Connector	Screwed Connection	Threaded Connection on Valve Above Yale Cap Above Valve B1, MD42 I	Repair Confirmed	12/13/2022	OGI	No	
190 Station	12/01/2022	Valve	Control Valve	Packing of Valve MD-39. (Actuator is Vented and leak is coming from Va	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	12/01/2022	Valve	Block Valve	Packing of Valve 190B2, Northwest Inlet/Discharge Piping.	DOR - Repair Confirmed	12/28/2022	Method 21- Soap Bubbles	No	
190 Station	12/01/2022	Other	Other	Actuator Seal on 190A1, Northwest Inlet/Discharge Piping.	Repair Confirmed	12/28/2022	Method 21- Soap Bubbles	No	
190 Station	12/01/2022	Valve	Control Valve	Packing of Valve MD-38, Northwest Inlet/Discharge Piping.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	12/01/2022	Connector	Screwed Connection	Threaded Connection to Rosemount Transmitter, Top North Fuel Skid R	Repair Confirmed	12/14/2022	Method 21- Soap Bubbles	No	
190 Station	12/01/2022	Valve	Gate Valve	Packing of WKM Valve on East Side of Scrubber 4.	Repair Confirmed	12/13/2022	OGI	No	
190 Station	12/01/2022	Valve	Block Valve	Packing of Valve GV-02-050, South Side of Scrubbers.	Repair Confirmed	12/13/2022	OGI	No	
190 Station	12/01/2022	Valve	Gate Valve	Packing of Valve GV-1P-04.	Repair Confirmed	12/8/2022	Method 21- Soap Bubbles	No	
190 Station	12/01/2022	Connector	Plug	Threaded Connection of Plug on top of Valve Above B2, 190A Loop Line	Repair Confirmed	12/8/2022	Method 21- Soap Bubbles	No	

TABLE 1
MONITORING SURVEY SUMMARY

Facility Name	Leak Date	Component Type	Component Sub Type	Location Description	Status	Repair Confirmation Date	Confirmation Method	Delay Of Repair	DOR Reason
COMAR 26.11.41.07A.(1)(a)	(i)		(ii)	(ii)		(ix)	(x)	(viii)	(viii)
190 Station	12/01/2022	Valve	Control Valve	Packing of Suction Valve, Main Unit 1.	Repair Confirmed	12/13/2022	OGI	No	
190 Station	12/01/2022	Valve	Control Valve	Packing of Discharge Valve, Main Unit 2.	Repair Confirmed	12/13/2022	OGI	No	
190 Station	12/01/2022	Valve	Control Valve	Packing of Suction Valve, Main Unit 2.	Repair Confirmed	12/13/2022	OGI	No	
190 Station	12/01/2022	Valve	Control Valve	Packing of Discharge Valve, Main Unit 3.	Repair Confirmed	12/13/2022	OGI	No	
190 Station	12/01/2022	Valve	Control Valve	Packing of Discharge Valve, Main Unit 5.	Repair Confirmed	12/13/2022	OGI	No	
190 Station	12/01/2022	Valve	Control Valve	Packing of Suction Valve, Main Unit 5.	Repair Confirmed	12/13/2022	OGI	No	
190 Station	12/01/2022	Valve	Control Valve	Packing of Discharge Valve, Main Unit 6.	Repair Confirmed	12/13/2022	OGI	No	
190 Station	12/01/2022	Connector	Grease Zerk	Northwest Grease Fitting on Suction Valve, Main Unit 6.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	12/01/2022	Valve	Control Valve	Packing of Discharge Valve, Main Unit 7.	Repair Confirmed	12/13/2022	OGI	No	
190 Station	12/01/2022	Pressure Relief D	Pressure Relief Device	Body Seal of PRV, Main Unit 8.	Delay of Repair			Yes	Requires vent blowdown
190 Station	12/01/2022	Pressure Relief D	Pressure Relief Device	Body Seal of PRV, Main Unit 5.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	12/01/2022	Other	Other	Seal of Actuator on Bypass Valve, Main Unit 1.	Repair Confirmed	12/13/2022	OGI	No	