3Q2022 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	8/29-30/2022	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.	39	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	17	COMAR 26.11.41.07A.(1)(a)(vii) - See Table 1
Number and type of Components placed on Delay of Repair	20	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	08/29/2022	Valve	Block Valve	Packing of MD-38.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	08/29/2022	Valve	Control Valve	Seat of Station Discharge BDV XV-9900.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	08/29/2022	Valve	Block Valve	Packing of Valve M-1 on North End of Domestic Fuel Gas Metering Building.	Not Repaired			No	
190 Station	08/29/2022	Connector	Connector	Threaded Connection of West Pilot to Manifold on Discharge PRV, Unit 1.	DOR - Repair Confirmed	9/7/2022	Method 21-Soap Bubbles	No	
190 Station	08/29/2022	Valve	Block Valve	Packing of Bypass Valve, Unit 2.	Not Repaired			No	
190 Station	08/29/2022	Valve	Needle Valve	Packing of South Pressure Transmitting Needle Block Valve Southeast of Unit 3's Discharge PRV.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	08/29/2022	Valve	Needle Valve	Threaded connection of Valve of North Middle Pressure Transmitting Needle Block Valve Southeast of Unit 3's Discharge PRV.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	08/29/2022	Valve	Block Valve	Packing of Discharge Valve, Unit 4.	Not Repaired			No	
190 Station	08/29/2022	Connector	Connector	Threaded Connection of West Pilot to Manifold on Discharge PRV, Unit 8.	Repair Confirmed	9/12/2022	Method 21-Soap Bubbles	No	
190 Station	08/29/2022	Valve	Block Valve	Packing of Discharge Valve, Unit 8.	Not Repaired			No	
190 Station	08/29/2022	Valve	Block Valve	Packing of Bypass Valve, Unit 8.	Not Repaired			No	
190 Station	08/29/2022	Connector	Connector	Threaded Connection of West Pilot to Manifold on Discharge PRV, Unit 9.	Not Repaired			No	
190 Station	08/29/2022	Compressor	Adjustable Pocket Ster	Unloader Seal 114 (#6), Unit 11.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	08/29/2022	Valve	Control Valve	Seat of Automatic Fuel Gas BDV on Inlet Line to Unit 13's Exterior FG Scrubber.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	08/29/2022	Connector	Hatch Seal	Hatch Seal below Insultion Cover on Unit 13's Domestic FG Scrubber.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	08/29/2022	Connector	Connector	Tubing to Coupling below Rosemount Transmitter PT-XX31/PT4430 on Measurement Panel, Unit 13.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	08/29/2022	Connector	Connector	West Threaded Connection of Seal Gas Inlet Ball Valve on Northwest Corner of Compressor Skid, Unit 13.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	08/29/2022	Connector	Plug	Plug below Power Gas Filter on BDV, Unit 13.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	08/29/2022	Valve	Control Valve	Seat of EBD-4001.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.

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	08/29/2022	Connector	Connector	Bottom Threaded Connection of Union Downstream of Power Gas Ball Valve BV-1P-186 adjacent to Valve MD-39.	Not Repaired			No	
190 Station	08/29/2022	Connector	Plug	East Plug of Selector Valve on Valve MD-39.	Not Repaired			No	
190 Station	08/29/2022	Valve	Block Valve	Packing of Valve MD-39.	Not Repaired			No	
190 Station	08/29/2022	Connector	Connector	North Threaded Connection of Union Downstream of Ball Valve BV-1P-229, Southwest Pig Trap Area.	Not Repaired			No	
190 Station	08/29/2022	Valve	Control Valve	Actuator Seal on Suction Blowdown EBD-103, Southwest Pig Trap Area.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	08/29/2022	Connector	Hammer Union	Yale Cap above B2 on Jump Line of Valve 190C0.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	08/29/2022	Valve	Gate Valve	Packing of 6" Standalone WKM East of Valve 190S1.	Not Repaired			No	
190 Station	08/29/2022	Valve	Block Valve	Packing of Valve 190S1.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	08/29/2022	Connector	Grease Zerk	Bottom East Grease Fitting on Discharge Header ESD Valve CV-98601.	Not Repaired			No	
190 Station	08/29/2022	Valve	Gate Valve	Packing of North Capped Outlet Block Valve on Out-of-Service Scrubbers.	Not Repaired			No	
190 Station	08/29/2022	Valve	Control Valve	Seat of EBD Valve EBD-4000 South Discharge Header. (DOR on Target Track)	Not Repaired			No	
190 Station	08/29/2022	Connector	Union	Union on Power/Control Gas Line to EBD-104.	Not Repaired			No	
190 Station	08/30/2022	Valve	Block Valve	Packing of Discharge Valve, Unit 9.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	08/30/2022	Pressure Relief D	Pressure Relief Device	Seat of Discharge PRV-2863, Unit 11.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	08/30/2022	Compressor	Adjustable Pocket Ster	Head End Unloader Seal of Cylinder 3, Unit 3.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	08/30/2022	Compressor	Adjustable Pocket Ster	Head End Unloader Seal of Cylinder 3, Unit 4.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	08/30/2022	Compressor	Adjustable Pocket Ster	Head End Unloader Seal of Cylinder 3, Unit 5.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	08/30/2022	Compressor	Adjustable Pocket Ster	Unloader Seal 201, Unit 7.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	08/30/2022	Compressor	Adjustable Pocket Ster	Unloader Seal 111, Unit 8.	Not Repaired			No	
190 Station	08/30/2022	Valve	Block Valve	Packing of Discharge Valve, Unit 9.	Not Repaired			No	

2Q2022 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	4/29/2022	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.	12	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	6	COMAR 26.11.41.07A.(1)(a)(vii) - See Table 1
Number and type of Components placed on Delay of Repair	6	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	04/29/2022	Connector	Connector	Threaded Connection of Ball Valve on Unit 2 Cylinder 2.	Repair Confirmed	4/29/2022	OGI	No	
190 Station	04/29/2022	Flange	Flange	Unloader Flange Seal 111, Unit 2 Cylinder 1.	Delay of Repair			Yes	The repair requires parts or equipment that takes longer than 30 days to be ordered and delivered.
190 Station	04/29/2022	Flange	Flange	Unloader Flange Seal, Unit 2 Cylinder 2.	Delay of Repair			Yes	The repair requires parts or equipment that takes longer than 30 days to be ordered and delivered.
190 Station	04/29/2022	Flange	Flange	Head Seal of Unit 3 Cylinder 3.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	04/29/2022	Compressor	Compressor	Head End Seal, Unit 4 Cylinder 3.	Delay of Repair			Yes	The repair requires parts or equipment that takes longer than 30 days to be ordered and delivered.
190 Station	04/29/2022	Valve	Ball Valve	Seal of Suction Bypass Valve to Unit 5.	Repair Confirmed	5/25/2022	Method 21- Soap Bubbles	No	
190 Station	04/29/2022	Valve	Control Valve	Packing of Globe Valve DCV-0901 on Discharge Line from Unit 9.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	04/29/2022	Valve	Control Valve	Packing of Globe Valve BCV-0902 on Bypass Line from Unit 9.	Repair Confirmed	5/25/2022	Method 21- Soap Bubbles	No	
190 Station	04/29/2022	Connector	Fitted Connection	Plug of Needle Valve Above B1 South if MD-42.	Repair Confirmed	5/10/2022	Method 21- Soap Bubbles	No	
190 Station	04/29/2022	Valve	Control Valve	Seat of Valve EBD on S4 on Emergency Blowdown Stack.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	04/29/2022	Connector	Fitted Connection	Yale Cap North of 190C0, above Valve B2.	Repair Confirmed	5/9/2022	Method 21- Soap Bubbles	No	
190 Station	04/29/2022	Connector	Fitted Connection	Threaded Connection on EBD Control Gas Supply Line to EBD-400.	Repair Confirmed	5/18/2022	Method 21- Soap Bubbles	No	

1Q2022 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	2/2/2022	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.	7	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	4	COMAR 26.11.41.07A.(1)(a)(vii) - See Table 1
Number and type of Components placed on Delay of Repair	4	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	02/02/2022	Connector	Plug	Threading of Plug on Needle Valve Manifold, Top of MD 43B.	Repair Confirmed	2/17/2022	Method 21- Soap Bubbles	No	
190 Station	02/02/2022	Valve	Control Valve	Packing of Control Valve 190BO.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	02/02/2022	Connector	Plug	Main Unit 13 vent valve actuator.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	02/02/2022	Flange	Flange	Flange of Vent Ball Valve, Top of Discharge Line, East of Bettis Control	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	02/02/2022	Connector	Pressure Regulato	Main Unit 11 and 12 pocket gas regulator.	Delay of Repair			Yes	The repair requires parts or equipment that takes longer than 30 days to be ordered and delivered.
190 Station	02/02/2022	Valve	Gate Valve	Body of Gate Valve GV-02-108, West Side of #5 Scrubber.	Repair Confirmed	2/17/2022	Method 21- Soap Bubbles	No	
190 Station	02/02/2022	Compressor	Compressor	Middle Cylinder Head Seal, Unit #2.	Repair Confirmed	2/25/2022	Method 21- Soap Bubbles	No	

4Q2021 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	74900189 - GFX320 (Target GFX2)	
Report Summary		**Required by**
Survey Date	12/1/2021	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.	14	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
COMAR 26.11.41.07A.(1)(a)	(i)		(ii)	(ii)		(ix)	(x)	(viii)	(viii)
190 Station	12/01/2021	Valve	Gate Valve	Packing of Gate Valve GV-02-055 at Scrubbers.	Repair Confirmed	12/1/2021	OGI	No	
190 Station	12/01/2021	Compressor	Compressor	Distance Piece Connection to Cylinder 1, Unit 5.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	12/01/2021	Compressor	Pocket Flange	Near Top Left Unloader Flange on Cylinder 1, Unit 4.	Repair Confirmed	12/22/2021	Method 21- Soap Bubbles	No	
190 Station	12/01/2021	Compressor	Pocket Flange	Far Top Left Unloader Flange on Cylinder 2, Unit 4.	Repair Confirmed	12/28/2021	Method 21- Soap Bubbles	No	
190 Station	12/01/2021	Connector	Connector	Threaded Connection from Kiene Valve to Cylinder 3, Unit 2.	Repair Confirmed	12/22/2021	Method 21- Soap Bubbles	No	
190 Station	12/01/2021	Valve	Gate Valve	Packing of Gate Valve GV-02-108 at Scrubbers.	DOR - Repair Confirmed	12/28/2021	Method 21- Soap Bubbles	No	
190 Station	12/01/2021	Valve	Control Valve	Seat of EBD Valve EBD-4000, South of Pig Area.	Delay of Repair			Yes	The repair requires a facility shutdown to complete.
190 Station	12/01/2021	Connector	Connector	Threaded Connection to PSV-0104 from tubing.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	12/01/2021	Connector	Connector	Connection to manifold from Front Relief Valve Pilot, PSV-0104 outside	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	12/01/2021	Connector	Union	Union to Tubing on North end of Bottle, Outside of Unit 2 Building.	Repair Confirmed	12/28/2021	Method 21- Soap Bubbles	No	
190 Station	12/01/2021	Connector	Connector	Front Pilot Thread to Manifold on PSV-0304, Outside Unit 3 Building.	Repair Confirmed	12/28/2021	Method 21- Soap Bubbles	No	
190 Station	12/01/2021	Connector	Union	Union to tubing on south side of PSV-0404, Outside Unit 4 Building.	Repair Confirmed	12/28/2021	Method 21- Soap Bubbles	No	
190 Station	12/01/2021	Connector	Connector	Threaded Connection from Front Pilot on top of PSV-0904, Outside Uni	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	12/01/2021	Connector	Connector	Threading from Front Pilot on PSV-1004, Outside Unit 10 Building.	Repair Confirmed	12/28/2021	Method 21- Soap Bubbles	No	
190 Station	12/01/2021	Valve	Control Valve	Seat of PSV-2863, Outside of Unit 11 Building.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	12/01/2021	Compressor	Pocket Flange	Top Right Unloader Flange Seal on Cylinder 3, Unit 10.	Repair Confirmed	12/28/2021	Method 21- Soap Bubbles	No	
190 Station	12/01/2021	Compressor	Pocket Flange	Near Top Left Unloader Flange on Cylinder 2, Unit 10.	Repair Confirmed	12/28/2021	Method 21- Soap Bubbles	No	
190 Station	12/01/2021	Compressor	Pocket Flange	Far Top Left Unloader Flange Seal on Cylinder 2, Unit 10.	Repair Confirmed	12/28/2021	Method 21- Soap Bubbles	No	
190 Station	12/01/2021	Compressor	Pocket Flange	Near Top Right Unloader Flange on Cylinder 2, Unit 5.	Repair Confirmed	12/28/2021	Method 21- Soap Bubbles	No	
190 Station	12/01/2021	Compressor	Pocket Flange	Far Top Right Unloader Flange on Cylinder 2, Unit 5.	Repair Confirmed	12/28/2021	Method 21- Soap Bubbles	No	
190 Station	12/01/2021	Connector	Union	Bottom Union to Pocket Filter at Ground Level by Unit 13 Hatch.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.
190 Station	12/01/2021	Connector	Union	Bottom Union to Filter at Ground Level by Unit 13 Hatch.	Delay of Repair			Yes	The repair requires a vent blowdown to complete.

3Q2021 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	74900189 - GFX320 (Target GFX2)	
Report Summary		**Required by**
Survey Date	9/17/2021	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.	27	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	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	9/17/2021	Connector	Union	Threaded Connection of Union, South of Valve BV-1P-229.	Repair Confirmed	9/27/2021	Method 21	No	
190 Station	9/17/2021	Connector	Fitted Connection	Threaded Connection of Pressure Alert Valve, North of Valve MD19 ab	Delay of Repair			Yes	The repair requires parts or equipment that takes longer than 30 days to be ordered and delivered.
190 Station	9/17/2021	Connector	Plug	Plug in Yale Cap South of Valve 190A0 above Valve B-1.	Delay of Repair			Yes	The repair requires a facility shutdown in order to complete.
190 Station	9/17/2021	Connector	Grease Zerk	North Grease Fitting, North of Valve 190A0 on Gate valve B-2.	Delay of Repair			Yes	The repair requires a facility shutdown in order to complete.
190 Station	9/17/2021	Connector	Screwed Connection	Threaded Connection of Stem on Valve 190-S2.	Delay of Repair			Yes	The repair requires a facility shutdown in order to complete.
190 Station	9/17/2021	Connector	Cap	Yale Cap South of Valve 190C0, above Valve B-1.	Repair Confirmed	10/1/2021	Method 21	No	
190 Station	9/17/2021	Connector	Cap	Yale Cap North of Valve 190C0, above Valve B-2.	Repair Confirmed	10/1/2021	Method 21	No	
190 Station	9/17/2021	Valve	Control Valve	Packing of Valve 190C0.	Delay of Repair			Yes	The repair requires a blowdown in order to complete.
190 Station	9/17/2021	Connector	Plug	Plug in Needle Valve South of Valve MD-42 above Valve B-1	Repair Confirmed	9/30/2021	Method 21	No	
190 Station	9/17/2021	Connector	Cap	Yale Cap North of Valve MD-31, above Valve B-2.	Repair Confirmed	9/27/2021	Method 21	No	
190 Station	9/17/2021	Connector	Cap	Yale Cap South of Valve MD-38, above Valve B-1.	Repair Confirmed	9/30/2021	Method 21	No	
190 Station	9/17/2021	Valve	Control Valve	Body Seal of Valve MD-38.	Delay of Repair			Yes	The repair requires a blowdown in order to complete.
190 Station	9/17/2021	Valve	Block Valve	Seat of Unit 13 Emergency Blowdown Valve.	Delay of Repair			Yes	The repair requires a blowdown in order to complete.
190 Station	9/17/2021	Flange	Flange	Unloader Flange Seal 311, Unit 2.	Repair Confirmed	10/1/2021	Method 21	No	
190 Station	9/17/2021	Flange	Flange	Unloader Flange Seal 104, Unit 4.	Repair Confirmed	10/1/2021	Method 21	No	
190 Station	9/17/2021	Flange	Flange	Unloader Flange Seal 211, Unit 8.	Repair Confirmed	10/5/2021	Method 21	No	
190 Station	9/17/2021	Flange	Flange	Unloader Flange Seal 314, Unit 8.	Repair Confirmed	10/5/2021	Method 21	No	
190 Station	9/17/2021	Flange	Flange	Unloader Flange Seal 211, Unit 9.	Repair Confirmed	10/5/2021	Method 21	No	
190 Station	9/17/2021	Compressor	Compressor	Seal between Distance Piece and Cylinder 3, Unit 10.	Delay of Repair			Yes	The repair requires a facility shutdown in order to complete.
190 Station	9/17/2021	Compressor	Compressor	Seal between Distance Piece and Cylinder 2, Unit 10.	Delay of Repair			Yes	The repair requires a blowdown in order to complete.
190 Station	9/17/2021	Connector	Plug	East Plug in Horizontal Fuel Gas Filter.	Delay of Repair			Yes	The repair requires a facility shutdown in order to complete.
190 Station	9/17/2021	Valve	Control Valve	Packing of Bypass Valve, Unit 11.	Repair Confirmed	10/6/2021	Method 21	No	
190 Station	9/17/2021	Valve	Control Valve	Packing of Bypass Valve, Unit 9.	Repair Confirmed	10/5/2021	Method 21	No	
190 Station	9/17/2021	Valve	Control Valve	Packing of Suction Valve, Unit 9.	Repair Confirmed	10/6/2021	Method 21	No	
190 Station	9/17/2021	Valve	Control Valve	Packing of Suction Valve, Unit 7.	Repair Confirmed	10/6/2021	Method 21	No	
190 Station	9/17/2021	Valve	Control Valve	Grease Fitting on Suction Valve, Unit 5	Delay of Repair			Yes	The repair requires a blowdown in order to complete.
190 Station	9/17/2021	Valve	Block Valve	Body Seal of PSV, Unit 8.	Repair Confirmed	10/5/2021	Method 21	No	

2Q2021 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	74900189 - GFX320 (Target GFX2)	
Report Summary		**Required by**
Survey Date	4/16/2021	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.	27	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	21	COMAR 26.11.41.07A.(1)(a)(vii) - See Table 1
Number and type of Components placed on Delay of Repair	21	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	04/16/2021	Flange	Flange	North Pocket Cap Flange on East Side of Throw 3 , Main Unit #2.	Awaiting Repair	-	-	Yes	The repair requires a blowdown in order to complete.
190 Station	04/16/2021	Flange	Flange	Head Seal of Throw 3 , Main Unit #3	Awaiting Repair	-	-	Yes	The repair requires a blowdown in order to complete.
190 Station	04/16/2021	Flange	Flange	Head End Unloader Seal on Cylinder 3, Main Unit #4.	Awaiting Repair	-	-	Yes	The repair requires a blowdown in order to complete.
190 Station	04/16/2021	Flange	Flange	South Pocket Cap Flange on West Side of Throw 3 , Main Unit #10.	Awaiting Repair	-	-	Yes	The repair requires a blowdown in order to complete.
190 Station	04/16/2021	Flange	Flange	North Pocket Cap Flange on West Side of Throw 3 , Main Unit #10.	Awaiting Repair	-	-	Yes	The repair requires a blowdown in order to complete.
190 Station	04/16/2021	Flange	Flange	North Pocket Cap Flange on East Side of Throw 1 , Main Unit #10.	Awaiting Repair	-	-	Yes	The repair requires a blowdown in order to complete.
190 Station	04/16/2021	Flange	Flange	Overhead Cap Under Insulation on Blowdown Stack of Fuel Gas Line to Generator, West of Unit 13 Building.	Awaiting Repair	-	-	Yes	The repair requires a blowdown in order to complete.
190 Station	04/16/2021	Valve	Block Valve	Packing of Block Valve GV-03-040 for line A in Metering Buliding.	Awaiting Repair	-	-	Yes	The repair requires a blowdown in order to complete.
190 Station	04/16/2021	Valve	Block Valve	Packing of Suction valve, Main Unit #1.	Repair Confirmed	5/12/2021	Method 21	No	
190 Station	04/16/2021	Valve	Block Valve	Packing of Bypass valve, Main Unit #2.	Repair Confirmed	5/13/2021	Method 21	No	
190 Station	04/16/2021	Valve	Block Valve	Body Seal of Bypass valve, Main Unit #7.	Repair Confirmed	5/13/2021	Method 21	No	
190 Station	04/16/2021	Valve	Block Valve	Packing of Discharge Valve, Unit #5.	Repair Confirmed	5/13/2021	Method 21	No	
190 Station	04/16/2021	Valve	Block Valve	Packing of Bypass Valve, Unit #10.	Awaiting Repair	-	-	Yes	The repair requires a blowdown in order to complete.
190 Station	04/16/2021	Valve	Block Valve	Packing of Bypass valve, Main Unit #11.	Awaiting Repair	-	-	Yes	The repair requires a blowdown in order to complete.
190 Station	04/16/2021	Open Ended Line	OEL	Open-ended Line Missing Plug on Power Power Gas Line of Valve ESD3-0203, North of 1-10 Headers.	Awaiting Repair	-	-	Yes	The repair requires a blowdown in order to complete.
190 Station	04/16/2021	Flange	Flange	Body Seal of Lower Regulator North of Unit 11 Discharge Valve.	Awaiting Repair	-	-	Yes	The repair requires parts or equipment that takes longer than 30 days to be ordered and delivered.
190 Station	04/16/2021	Pressure Relief Device	Pressure Relief Device	Seal of PSV-833	Awaiting Repair	-	-	Yes	The repair requires a blowdown in order to complete.
190 Station	04/16/2021	Valve	Block Valve	Packing of WKM Valve South of Inlet Scrubbers	Awaiting Repair	-	-	Yes	The component is isolated and temporarily out of service.
190 Station	04/16/2021	Valve	Block Valve	Body Seal of Inlet Block Valve of Most North East Scrubber.	Awaiting Repair	-	-	Yes	The component is isolated and temporarily out of service.
190 Station	04/16/2021	Connector	Screwed Connection	PIG signal	Awaiting Repair	-	-	Yes	The repair requires a blowdown in order to complete.
190 Station	04/16/2021	Valve	Block Valve	Seal Between Stem and Actuator of Valve 190BO.	Awaiting Repair	-	-	Yes	The component is isolated and temporarily out of service.
190 Station	04/16/2021	Valve	Block Valve	Packing of Valve S1 East Side of Valve Yard	Awaiting Repair	-	-	Yes	The repair requires a facility shutdown in order to complete.
190 Station	04/16/2021	Valve	Block Valve	EBD Valve at 190 S4	Awaiting Repair	-	-	Yes	The repair requires a blowdown in order to complete.
190 Station	04/16/2021	Connector	Screwed Connection	Threaded Connection of Yale Cap on B2 Riser at Valve MD 39.	Repair Confirmed	4/28/2021	OGI	No	
190 Station	04/16/2021	Connector	Screwed Connection	Threaded Connection of Plug Above Valve on Yale Cap, B1 Riser at Valve MD 42.	Repair Confirmed	5/11/2021	Method 21	No	
190 Station	04/16/2021	Connector	Flange	Flange of Power gas Monitor Manifold on Valve S11, North End of Valve Yard.	Awaiting Repair	-	-	Yes	The repair requires parts or equipment that takes longer than 30 days to be ordered and delivered.
190 Station	04/16/2021	Valve	Block Valve	Seat of Unit 13 Emergency Blowdown Valve.	Awaiting Repair	-	-	Yes	The repair requires a blowdown in order to complete.