

July 3, 2024

Re: TC Energy - Rutledge Compressor Station Annual Leak Monitoring Survey Report

TC Energy's Columbia Pipeline Group operates the Rutledge Compressor Station in Fallston, Maryland. Per 26.11.41.03B(3)(a) the Rutledge Compressor Station conducted its annual leak detection monitoring survey on June 21, 2024. In accordance with COMAR 26.11.41.07, each leak monitoring survey is required to be posted on a publicly available website for a period of two years from the survey date.

TC Energy - Rutledge Compressor Station

Leak Detection and Repair Report

Assessment Level Emission Report

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ENVIRONMENT	AL

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Company:	TC Energy USA	Facility:	Rutledge	Start Date:	6/21/2024
District:	TCO	Location:	39.561770 / -76.477239	End Date:	6/21/2024
Assessment:	Rutledge: 06/21/2024	P.			
Assessment Comments:	Subpart W GHG/MDE Scan Dry Seal Centrifugal Compr				2, and 3 are
Weather Conditions:	Date / Time	Temp (F)	Wind Speed (mph)	Sky Condition	ıs
	June 21, 2024 6:00:00 A	M 82	9	Clear No cloud	s

June 21, 2024 6:00:00 AM 82 9

Report Generation Date: 6/24/2024 7:58:27 AM

Leaks	LDAK Leak Count:	±.
	Non-LDAR Leak Count:	0
	Total Leak Count:	1
Repair	Repaired:	1
Status	Delay of Repair:	0
Jeacus	Delay of Repair.	U
Otatas	Unsuccessful Attempt:	0

	Assessmer	nt Emission	Details - T	C Energy USA -	Assessment	: Rutledge : 06/21/2024 06.00 AM - F	Report Generation [Date: 6/	24/2024	7:58:27 A	М
Facility	Emission ID	Emission Type	Detection Date	Field Equipment Designation	Component	Sub Source Emission Description	Detection Method Quantification Method	Status		Final Repair Due Date	Repair Confirm Method
Rutledge	1477100169	Leak	06/21/2024	Inlet/Discharge Piping	Valve - MDE	North Grease Fitting of Ball Valve Grease Fitting on Inlet Line to AirCel, below Unit 3 Discharge Line.		Repaired	6/21/2024	7/21/2024	Bubble Tes



September 14, 2023

Re: TC Energy - Rutledge Compressor Station Annual Leak Monitoring Survey Report

TC Energy's Columbia Pipeline Group operates the Rutledge Compressor Station in Fallston, Maryland. Per 26.11.41.03B(3)(a) the Rutledge Compressor Station conducted its annual leak detection monitoring survey on July 21, 2023. In accordance with COMAR 26.11.41.07, each leak monitoring survey is required to be posted on a publicly available website for a period of two years from the survey date.

TC Energy - Rutledge Compressor Station

Leak Detection and Repair Report



								EMISSION DI	TAIL REP	ORT					
Company:	Sement Subpart W GHG/MDE Scan at Rutledge Compressor Station conducted on 07-21-2023. Both Units 1 and 2 are Dry Seal Centrifugal Compressors and were Standby/Pressurized. Station and Unit Blowdowns are Combined. VPAC was used on Unit Blowdown Valves. VPAC determined all Blowdown Valves were Not Leaking. Fire Valves and														
	tc: CPG North Location: 39.561770 / -76.477239 End Date: 7/21/2023 Technician: Blake Mulherin End Date: Total Leak Subpart W GHG/MDE Scan at Rutledge Compressor Station conducted on 07-21-2023. Both Units 1 and 2 are Dry Seal Centrifugal Compressors and were Standby/Pressurized. Station and Unit Blowdown Sare Combined. VPAC was used on Unit Blowdown Valves. VPAC determined all Blowdown Valves were Not Leaking. Fire Valves and														
District:	trict: CPG North Location: 39.561770 / -76.477239 End Date: 7/21/2023 Technician: Blake Mulherin Total Leak Count: 1 0 1														
Assessment Comments:															
Faci	ility	Assesr Type (s		Emission ID #	Emission Ty	pe Dete	ection Date	Component	Emiss	ion Description	LEL +/or Safety Hazard*	Repair Status	Repair Status Date	Final Attempt Due Date	DOR End Date
Rutle	dge	MDE, S W (GHO		1039100023	Leak	7/	/21/2023	Open-Ended Line - Subpart W (GHG), MDE		led Line on Combined Station Vent Stack	No	Delay of Repair	8/21/2023	8/20/2023	7/21/2024

Comments: The leak has been placed on Delay of Repair due to repair requiring a blowdown. A request was made to the Maryland Department of Environment on September 13th, 2023.

LEL +/or Safety Hazard*

The following risk matrix is used to used to risk rank any possible leak/vent safety hazards.

The LEL/Safety Hazard Checkbox must be checked if a leak (or group of leaks) poses any significant hazard. Examples of this may be:

- Personal detector reads any LEL reading
- Personal detector reads any H2S or any H2S leak
- Personal detector alarms for any reason (toxic, low O2, etc.)
- Emission is found near any possible ignition source (i.e. burner, electrical conduit, exposed wiring,etc.)
- Emission rate is so high that it poses a hazard
- Emission source ocation may cause inhalation hazard to facility personnel or public

The severity is primarily based on the LEL reading or ppm for any toxic gases (see fifth column under "Consequences") The total leak rate is also taken into account on the severity

ż			Consequences				Proba	bility	
Severity					LEL/Toxic	Α	В	С	D
Se	People	Assets	Environment	Reputation	Gas Level	Low	Slight	Mod.	High
0	No injury or health effect	No Damage	No effect (<0.01 cfm)	No impact	0% LEL and 0ppm Toxics within 0.5 m of source				
1	Slight inhalation/odor risk	Slight wear	Slight effect (0.01 – 0.05 cfm)	Slightimpact	0% LEL and Oppm Toxics within 0.5 m of source				
3	Minor fire/explosion injury risk or exposure risk	Minor Damage	Minor effect (0.05 – 1.0 cfm)	Minor impact	1-5% LEL and below alarm level Toxics within 0.5 m of source				
4	Moderate fire/explosion injury risk or exposure risk	Moderate Damage	Moderate Effect (1.0 – 10 cfm)	Moderate impact (Regulator involvement)	Cause of LEL of 1-5% and alarm level Toxics in building				
5	Extreme fire/explosion or toxic exposure fatality risk	Major Damage	Major Effect (>10.0 cfm)	Major impact (Regulator enforcement)	Cause of LEL 10% and over and above alarm level Toxics in building				

LOW RISK	The risk is not serious. It does not require immediate action, but should be periodically revisited to ensure that risks remains acceptably low.
MODERATE RISK	The risk is moderate. It requires further review of controlled responses to determine the potential for escalation and to ensure risk is within acceptable limits.
HIGH RISK	The risk is high. It requires immediate action and prompt review of control and mitigation measures.



April 26, 2022

Re: TC Energy - Rutledge Compressor Station Annual Leak Monitoring Survey Report

TC Energy's Columbia Pipeline Group operates the Rutledge Compressor Station in Fallston, Maryland. Per 26.11.41.03B(3)(a) the Rutledge Compressor Station conducted its annual leak detection monitoring survey on March 28, 2022. In accordance with COMAR 26.11.41.07, each leak monitoring survey is required to be posted on a publicly available website for a period of two years from the survey date.

TC Energy - Rutledge Compressor Station

Leak Detection and Repair Report



													Ξ	MISS	ION DET	AIL RE	PORT											
Company:	TC Ene	rgy USA	Facility:		Rutledge		Start Date:	3/28/2022 Ted	chnician:	Nicho	las Santm	nyer			LDAR Leak Count:	12	Vents	Repair Required: Total:	0							REPAIR S	TATUS	
													Leak	s	Non-LDAR Leak Count:	0	Mandatory	Leak Tests: Vent Tests:	0			Repair	ed:		Delay o	of Repair:	Unsucc	<mark>cessful At</mark>
District:	CPG	North	Location:		39.561770 / -76.47	7239	End Date:	3/28/2022 Ted	chnician:	Zacha	ary Hudec	cek			Total Leak Count:	12	Emission Tests	No Emission Tests: Total Tests	5							_		_
Assessmen Comments		at Rutledge C	Compressor S	tation condu	cted on 03-28-2022.	. All Units are Dry S	Seal Centrifug	al Compressors a	nd were S	tandby/ Pre	essurized.	. Station a	and Unit Blo	wdowns	are Combined. \	/PAC was In	conclusive, HiFlor	w Rates Were Spl	t Between Blowd	lown Valves.		0				0		0
Emission ID #	Emission Type	Detection Date	Process Block	Field Equipment Designation	Component	Sub Source	Operating Mode	Emission Descr	iption		ssion erity G	Gas Type	Previous Leak (emission id)	Rate (cfm)	Detection Method / Quantification Method	N/A	Repair Recommendation	Initial PPM Reading	LDAR Tag ID	Bubble Test	Repair Status	Repair Status Date	First Attempt Due Date	Final Attempt Due Date	DOR Reason	DOR Approver Name	Final PPM Reading	Repair Confimation Method
85610103	Leak	03/28/2022	Compressor Cent. Dry Seal	Unit 3	Connector - MDE	Flange Connection	Standby/Pressuriz ed	Flange on Cooling Gas In 3, Floor Level.	let Line, Unit	No LC	ow s	Sweet Gas		0.07	Optical Gas Imaging/ Optical Gas Imaging		Replace gasket/seal and tighten connection	-	-	Yes	Delay of Repair	03/28/2022	-	04/27/2022	Shutdown required	Murali Ramamoorthy	-	-
85610104	Leak	03/28/2022	Compressor Cent. Dry Seal	Unit 3	Connector - MDE	Flange Connection	Standby/Pressuriz ed	Suction Bypass Line, Unit Level.	3, Floor	No LC	ow s	Sweet Gas		0.05	Optical Gas Imaging/ Optical Gas Imaging		Replace gasket/seal and tighten connection	-	-	Yes	Delay of Repair	03/28/2022	-	04/27/2022	Shutdown required	Murali Ramamoorthy	-	-
85610105	Leak	03/28/2022	Compressor Cent. Dry Seal	Unit 2	Connector - MDE	Threaded Connection	Standby/Pressuriz ed	Union North of 90 on Star Unit 2.	t Gas Line,	No LC	ow s	Sweet Gas		0.04	Optical Gas Imaging/ Optical Gas Imaging		Tighten connection	-	-	Yes	Delay of Repair	03/28/2022	-	04/27/2022	Shutdown required	Murali Ramamoorthy	-	-
85610106	Leak	03/28/2022	Compressor Cent. Dry Seal	Unit 2	Connector - MDE	Threaded Connection	Standby/Pressuriz ed	Plug on Southwest Side of	of Unit 2.	No LC	ow s	Sweet Gas		0.06	Optical Gas Imaging/ Optical Gas Imaging		Reseal connection and tighten	-	-	Yes	Delay of Repair	03/28/2022	-	04/27/2022	Shutdown required	Murali Ramamoorthy	-	-
85610107	Leak	03/28/2022	Separator/Filter	Main suction scrubber	Connector - MDE	Threaded Connection	N/A	Bottom Threaded Connec Valve on Level Switch, Es Suction Scrubber.		No LC	ow s	Sweet Gas		0.06	Optical Gas Imaging/ Optical Gas Imaging		Reseal connection and tighten	-	-	Yes	Delay of Repair	03/28/2022	-	04/27/2022	Shutdown required	Murali Ramamoorthy	-	-
85610108	Leak	03/28/2022	Separator/Filter	Main suction scrubber	Connector - MDE	Threaded Connection	N/A	Top Threaded Connection Below South Transmitter, Suction Scrubber.		No LC	ow s	Sweet Gas		0.08	Optical Gas Imaging/ Optical Gas Imaging		Reseal connection and tighten	-	-	Yes	Delay of Repair	03/28/2022	-	04/27/2022	Shutdown required	Murali Ramamoorthy	-	-
85610109	Leak	03/28/2022	Separator/Filter	Main suction scrubber	Connector - MDE	Threaded Connection	N/A	Top Hammer Union on To North Level Switch, East Suction Scrubber.		No LC	ow s	Sweet Gas		0.09	Optical Gas Imaging/ Optical Gas Imaging		Tighten connection	-	-	Yes	Delay of Repair	03/28/2022	-	04/27/2022	Shutdown required	Murali Ramamoorthy	-	-
85610110	Leak	03/28/2022	Separator/Filter	South cooling gas scrubber, unit 1	Connector - MDE	Threaded Connection	N/A	South Threaded Connect Valve on Cooling Gas Sci Line, Unit 1.		No LC	ow s	Sweet Gas		0.06	Optical Gas Imaging/ Optical Gas Imaging		Reseal connection and tighten	-	-	Yes	Delay of Repair	03/28/2022	-	04/27/2022	Shutdown required	Murali Ramamoorthy	-	-
85610112	Leak	03/28/2022	Separator/Filter	North cooling gas scrubber, unit 3	Connector - MDE	Threaded Connection	N/A	Union on Top Line of Lew Cooling Gas Scrubber, U		No LC	ow s	Sweet Gas		0.09	Optical Gas Imaging/ Optical Gas Imaging		Tighten connection	-	-	Yes	Delay of Repair	03/28/2022	-	04/27/2022	Shutdown required	Murali Ramamoorthy	-	-
85610113	Leak	03/28/2022	Separator/Filter	Main discharge scrubber	Connector - MDE	Threaded Connection	N/A	Top Threaded Connection Switch, South of Main Dis Scrubber.		No LC	ow s	Sweet Gas		0.06	Optical Gas Imaging/ Optical Gas Imaging		Reseal connection and tighten	-	-	Yes	Delay of Repair	03/28/2022	-	04/27/2022	Shutdown required	Murali Ramamoorthy	-	-
85610114	Leak	03/28/2022	Compressor Cent. Dry Seal	Unit 1	Open-ended Line - MDE	Valve Seat	Standby/Pressuriz ed	OEL Units 1, 2, and 3 Blo Valves.	wdown	No MED	DIUM S	Sweet Gas		0.39	Optical Gas Imaging/ HiFlow		Replace seal(s)	-	-	No	Delay of Repair	03/28/2022	-	04/27/2022	Shutdown required	Murali Ramamoorthy	-	-

The following risk matrix is used to used to risk rank any possible leak/vent safety hazards.

The LEL/Safety Hazard Checkbox must be checked if a leak (or group of leaks) poses any significant hazard.

Examples of this may be:

- Personal detector reads any LEL reading

- Personal detector reads any LLT reasons.
 Personal detector areads any LLTS or any N25 leak.
 Personal detector aidman for any reason i floxic, low 0.2. etc.)
 Emission is found near any possible brintion source (i.e. burner, electrical conduit, exposed wirring, etc.)
 Emission rate is so high that it goes a hazard
 Emission rate or location may equie inhalation hazard to facility personnel or public.

The severity is primarily based on the LEL reading or ppm for any toxic gases (see fifth column under "Consequences"). The total leak rate is also taken into account on the severity.

>			Consequences				Proba	ability	
Severity					LEL/Toxic	Α	В	С	D
Š	People	Assets	Environment	Reputation	Gas Level	Low	Slight	Mod.	High
0	No injury or health effect	No Damage	No effect (<0.01 cfm)	No impact	0% LEL and 0ppm Toxics within 0.5 m of source				
1	Slight inhalation/odor risk	Slight wear	Slight effect (0.01 – 0.05 cfm)	Slightimpact	0% LEL and Oppm Toxics within 0.5 m of source				
3	Minor fire/explosion injury risk or exposure risk	Minor Damage	Minor effect (0.05 – 1.0 cfm)	Minor impact	1-5% LEL and below alarm level Toxics within 0.5 m of source				
4	Moderate fire/explosion injury risk or exposure risk	Moderate Damage	Moderate Effect (1.0 – 10 cfm)	Moderate impact (Regulator involvement)	Cause of LEL of 1-5% and alarm level Toxics in building				
5	Extreme fire/explosion or toxic exposure fatality risk	Major Damage	Major Effect (>10.0 cfm)	Major impact (Regulator enforcement)	Cause of LEL 10% and over and above alarm level Toxics in building				

LOW RISK	The risk is not serious. It does not require immediate action, but should be periodically revisited to ensure that risks remains acceptably low.
MODERATE RISK	The risk is moderate. It requires further review of controlled responses to determine the potential for escalation and to ensure risk is within acceptable limits.
HIGH RISK	The risk is high. It requires immediate action and prompt review of control and mitigation measures.



April 26, 2021

Re: TC Energy - Rutledge Compressor Station Annual Leak Monitoring Survey Report

TC Energy's Columbia Pipeline Group operates the Rutledge Compressor Station in Fallston, Maryland. Per 26.11.41.03B(3)(a) the Rutledge Compressor Station conducted its initial leak detection monitoring survey on March 2, 2021. In accordance with COMAR 26.11.41.07, each leak monitoring survey is required to be posted on a publicly available website for a period of two years from the survey date. This posting fulfills TC Energy's obligation to meet that requirement.

TC Energy - Rutledge Compressor Station

Leak Detection and Repair Report April 2021



													EMIS	SION	DETAIL RI	EPORT												
Company:	TC Ener	rgy USA	Facility:		Rutledge		Start Date:	3/2/2021 Technician:	Sebastian	Smith			LDAR Leak Count:	13	Vents	Repair Required: Total:	0									REPAIR	STATUS	S
District:	CPG N		Location:		39.561770 / -76.47	77000	End Date:	3/2/2021 Technician:	Matthew	Full	Leak	(S	Non-LDAR Leak Count:	0	Mandatory Emission Tests	Leak Tests: Vent Tests:	0			Repair	red:			Delay o	f Repair:			Unsuccessful Attempt:
													Total Leak Count:	13		No Emission Tests: Total Tests	0			11					2			0
Assessment Comments:	Unit Blowdow	at Rutledge o wns were Ider	n 03/02/2021. itified as leak	All Units are ing.	Dry Seal Centrifug	gal Compressors ar	nd were stand	by Pressurized. Station and Un	it Blowdown:	s are combi	ned. Station E	Blowdow	n Valves are Buri	ried. Acoust	ic VPAC was used	I to Identify leakin	ig Unit Isolation V	/alves; all							_			Ü
Emission ID #	Emission Type	Detection Date	Process Block	Field Equipment Designation	Component	Sub Source	Operating Mode	Emission Description	Emission Severity	Gas Type	Previous Leak (emission id)	Rate (cfm)	Detection Method / Quantification Method	N/A	Repair Recommendation	Initial PPM Reading	LDAR Tag ID	Bubb is Test	Repair Status	Repair Status Date	First Attempt Due Date		DOR Start Date	DOR End Date	DOR Reason	DOR Approver Name	Final PPM Reading	Repair C confination Method
35611076	Leak	03/02/2021	Separator/Filter	Main suction scrubber	Connector - MDE	Threaded Connection	NA	Bottom Threading to Pressure Transmitter, Suction Line to Inlet Scrubber.	LOW	Sweet Gas		0.02	Optical Gas Imaging/ Optical Gas Imaging		Tighten connection	-	-	Yes	Repaired	03/17/2021	-	04/01/2021	-	-	-	-	-	Bubble Test
35611077	Leak	03/02/2021	Separator/Filter	Main suction scrubber	Connector - MDE	Threaded Connection	NA	Top Thread to East Level Switch on Hydrocarbon Tank, Main Suction Scrubber.	LOW	Sweet Gas		0.03	Optical Gas Imaging/ Optical Gas Imaging		Tighten connection	-	-	Yes	Repaired	03/17/2021	-	04/01/2021	-	-	-	-	-	Bubble Test
36611078	Leak	03/02/2021	Compressor Cent. Dry Seal	North cooling gas scrubber, unit 1	Connector - MDE	Threaded Connection	Standby/Pressuriz ed	South Threading to Union on Drain Line from North Cooling Gas Scrubber, Unit 1.	LOW	Sweet Gas		0.08	Optical Gas Imaging/ Optical Gas Imaging		Tighten connection	-	-	Yes	Repaired	03/17/2021	-	04/01/2021		-			-	Bubble Test
35611079	Leak	03/02/2021	Compressor Cent. Dry Seal	South cooling gas scrubber, unit 1	Connector - MDE	Flange Connection	Standby/Pressuriz ed	South Flange, Valve 108, Bottom Horizontal 3" Valve to South Cooling Gas Scrubber, Unit 1.	LOW	Sweet Gas		0.08	Optical Gas Imaging/ Optical Gas Imaging		Replace gasket/seal and tighten connection	-	-	Yes	Repaired	03/17/2021	-	04/01/2021		-	-	-	-	Bubble Test
35611080	Leak	03/02/2021	Compressor Cent. Dry Seal	South cooling gas scrubber, unit 1	Connector - MDE	Flange Connection	Standby/Pressuriz ed	West Threading to Differential Pressure Meter, South Cooling Gas Scrubber, Unit 1.	LOW	Sweet Gas		0.05	Optical Gas Imaging/ Optical Gas Imaging		Tighten connection	-	-	Yes	Delay of Repair	04/01/2021	-	04/01/2021	04/01/2021	04/01/2022	Shutdown Required	Wayne Cook	-	-
35611081	Leak	03/02/2021	Compressor Cent. Dry Seal	North cooling gas scrubber, unit 2	Valve - MDE	Grease Fitting	Standby/Pressuriz ed	NO.	LOW	Sweet Gas		0.01	Optical Gas Imaging/ Optical Gas Imaging		Tighten valve packing	-	-	No	Repaired	03/02/2021	-	04/01/2021	-	-	-	-	-	OGI
35611082	Leak	03/02/2021	Compressor Cent. Dry Seal	Unit 2	Connector - MDE	Threaded Connection	Standby/Pressuriz ed	Top Tubing Union on Unit side of Pressure Differential Line over Suction Loading Valve, Unit 2.	LOW	Sweet Gas		0.01	Optical Gas Imaging/ Optical Gas Imaging		Tighten connection	-	-	Yes	Repaired	03/02/2021	-	04/01/2021	-	-	-	-	-	OGI
35611083	Leak	03/02/2021	Compressor Cent. Dry Seal	Unit 2	Connector - MDE	Threaded Connection	Standby/Pressuriz ed	Tubing Union to Elbow North of Pressure Differential Meter over Suction Loading Valve, Unit 2.	LOW	Sweet Gas		0.01	Optical Gas Imaging/ Optical Gas Imaging		Tighten connection	-	-	Yes	Repaired	03/02/2021	-	04/01/2021		-	-	-	-	OGI
35611084	Leak	03/02/2021	Compressor Cent. Dry Seal	Unit 2	Connector - MDE	Threaded Connection	Standby/Pressuriz ed	Tubing Union to Elbow Below of Pressure Differential Meter over Suction Loading Valve, Unit 2.	LOW	Sweet Gas		0.01	Optical Gas Imaging/ Optical Gas Imaging		Tighten connection	-	-	Yes	Repaired	03/02/2021	-	04/01/2021		-	-	-	-	OGI
35611085	Leak	03/02/2021	Compressor Cent. Dry Seal	Unit 3	Connector - MDE	Threaded Connection	Standby/Pressuriz ed	No.	LOW	Sweet Gas		0.03	Optical Gas Imaging/ Optical Gas Imaging		Tighten connection	-	-	Yes	Repaired	03/17/2021	-	04/01/2021		-	-	-	-	Bubble Test
35611086	Leak	03/02/2021	Compressor Cent. Dry Seal	Unit 3	Valve - MDE	Valve Stem	Standby/Pressuriz ed	Packing, Discharge Valve, Unit 3. No	MEDIUM	Sweet Gas		0.12	Optical Gas Imaging/ Optical Gas Imaging		Tighten valve packing	-	-	Yes	Delay of Repair	04/01/2021	-	04/01/2021	04/01/2021	04/01/2022	Shutdown Required	Wayne Cook	-	-
35611087	Leak	03/02/2021	Separator/Filter	Main discharge scrubber	Connector - MDE	Threaded Connection	NA	Top Threading Connection to South Level Switch, Hydrocarbon Tank, Main Discharge Scrubber.	LOW	Sweet Gas		0.08	Optical Gas Imaging/ Optical Gas Imaging		Tighten connection	-	-	Yes	Repaired	03/17/2021	-	04/01/2021		-			-	Bubble Test
35611088	Leak	03/02/2021	Separator/Filter	Unit 3	Connector - MDE	Threaded Connection	NA	Top Threading Connection to North Level Switch, Hydrocarbon Tank, Main Discharge Scrubber.	LOW	Sweet Gas		0.08	Optical Gas Imaging/ Optical Gas Imaging		Tighten connection	-	-	Yes	Repaired	03/17/2021	-	04/01/2021		-	-		-	Bubble Test

The following risk matrix is used to used to risk rank any possible leak/vent safety hazards. The ELF/Safety Hazard Checkbox must be checked if a leak (or group of leaks) poses any significant hazard. Examples of this may be:

Proceed detector reads are ULL reading
Proceed detector reads are OSC or ear VSC leads
Proceed detector reads are OSC or ear VSC leads
Proceed detector reads are VSC leads
Proceed from the VSC or ear VSC or ear VSC leads
Proceed from the VSC or ear VSC or ear

The severity is primarily based on the LEL reading or ppm for any toxic gases (see fifth column under "Consequences"). The total leak rate is also taken into account on the severity.

			Consequences				Prob	ability	
Severity					LEL/Toxic	Α	В	С	D
ŝ	People	Assets	Environment	Reputation	Gas Level	Low	Slight	Mod.	High
0	No injury or health effect	No Damage	No effect (<0.01 cfm)	No impact	0% LEL and 0ppm Toxics within 0.5 m of source				
1	Stight inhalation/odor risk	Slight wear	Slight effect (0.01 – 0.05 cfm)	Slightimpact	0% LEL and Oppm Toxics within 0.5 m of Source				
3	Minor fire/explosion injury risk or exposure risk	Minor Damage	Minor effect (0.05 – 1.0 c/m)	Minorimpact	1-5% LEL and below alarm level Toxics within 0.5 m of source				
4	Moderate fire/explosion injury risk or exposure risk	Moderate Damage	Moderate Effect (1.0 – 10 cfm)	Moderate impact (Regulator involvement)	Cause of LEL of 1-5% and alarm level Toxics in building				
5	Extreme fire/explosion or toxic exposure fatality risk	Major Damage	Major Effect (>10.0 cfm)	Major impact (Regulator enforcement)	Cause of LEL 10% and over and above alarm level Toxics in building				

LOW	The risk is not serious. It does not require immediate action, but should be periodically revisited to ensure that risks remains acceptably low.
MODERATE RISK	The risk is moderate. It requires further review of controlled responses to determine the potential for escalation and to ensure risk is within acceptable limits.
HIGH	The risk is high. It requires immediate action and prompt review of control and mitigation measures.