OCCIDENTAL PERMIAN LTD.

Event ID: 114714
Reporting Employee: RICHARD ALVARADO
Lease Name: NORTH HOBBS UNIT RCF/WIB
Account Number: 2415
Equipment: RCF FLARE
NSR Permit Number: 2656-M5
EPN: RCF - FLR - MALF
Title V Permit Number:
EPN Name FACILITY WIDE MALFUNCTIONS
Reg Lease Number:
Flare Point: RCF-FLR-MALF

Explanation of the Cause:

THE NORTH PLANT FLARED DUE TO MOTOR DRIVE FAILURE ON "B" TRAIN, A COMMUNICATION BOARD AND FIRING BOARD WAS LOCATED AND INSTALLED TO REPAIR THE ISSUE.

Event Type

Malfunction
Malfunction
Malfunction

Corrective Actions Taken to Minimize Emissions:

OPERATIONS ALONG WITH AN A/T AND ENGINEER INSTALLED A NEW CARD TO GET THE UNIT ONLINE TO REDUCE FLARING FOR THIS EVENT.

Actions taken to prevent recurrence:

OPERATIONS ALONG WITH AN A/T AND ENGINEER INSTALLED A NEW CARD TO GET THE UNIT ONLINE TO REDUCE FLARING FOR THIS EVENT.

Emission Start Date	Emission End Date	Duration
7/6/2021 3:50:00 PM	7/6/2021 4:00:00 PM	0:10 hh:mm

NMED

Pollutant	Duration (hh:mm)	Avging Period	Excess Emission		Number of Exceedances	Permit Limit	Average Emission Rate		Total Pounds	Tons Per Year		
										Total	Next Drop off Date	Date Permit Exceeded
CO	0:10	1	0	LBS	0	152.10	115.15	LBS/HR	19.19	0.009596	4/20/2022	
H2S	0:10	1	0	LBS	0	14.60	6.76	LBS/HR	1.12	0.000564	4/20/2022	
NOX	0:10	1	0	LBS	0	27.10	13.43	LBS/HR	2.23	0.001119	4/20/2022	
SO2	0:10	1	0	LBS	0	1372.10	624.35	LBS/HR	104.05	0.052029	4/20/2022	
VOC	0:10	1	0	LBS	0	216.70	53.95	LBS/HR	8.99	0.004496	4/20/2022	

Reporting Status: Non-Reportable

NMOCD

Flare Stream Total	Total MCF	EPN	Latitude	Longitude	Reporting Status
80 **MCF**	97 **MCF**	FACILITY WIDE MALFUNCTI	32°43'14.96"	103°11'59.65"	Minor release

LEPC

Total MCF	H2S %	Unit Letter	Section	Township	Range
97	0.786				

Pollutant	Emission rate	Reportable Qty
SO2	104.05 LBS/DAY	500 LBS/DAY
SO2	104.05 LBS/DAY	500 LBS/DAY
SO2	104.05 LBS/DAY	500 LBS/DAY

Reporting Status: Non-reportable

Emissions Calculations:

NOx = MCF flared x NOx factor from RG-109 x BTU/scf x 1000 scf/MCF x MMBTU/1000000 BTU
CO = MCF flared x CO factor from RG-109 x BTU/scf x 1000 scf/MCF x MMBTU/1000000 BTU
Gas was flared to reduce the hydrocarbon and/or H2S emissions to the atmosphere.
NMNE NG = MCF flared x 50 lb/mole x mole/.379 MCF x mol % NMNE NG x 0.02
NMNE NG % = 100% - Methane % - Ethane % - Carbon Dioxide % - Nitrogen %
H2S = MCF flared x 34 lb/mole x mole/.379 MCF x mol % H2S/100 x 0.02
SO2 = MCF flared x 64 lb/mole x mole/.379 MCF x mol % H2S/100 x 0.98

EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: North Hobbs Unit

Start Date: 07/06/2021 @ 03:50 PM **End Date:** 07/06/2021 @ 04:00 PM

Cause: OPERATIONS ALONG WITH AN A/T AND ENGINEER INSTALLED A NEW CARD TO GET THE UNIT ONLINE TO REDUCE FLARING FOR THIS EVENT.
Duration of event: 0:10 hours

Method of Flared Gas Measurement: Flare Meter

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1. Reason why this event was beyond Operator's control:

The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements.

This event was a sudden and unforeseeable compressor malfunction of the communication board and firing board of the North Hobbs compressor unit. Oxy operators were alerted to a malfunction of the compressor unit when the “B” Train Compressor shut down causing a malfunction of the unit. Oxy operators quickly contacted an Oxy Automation Tech to acknowledge that a malfunction alarm was occurring. The Automation Tech quickly arrived at the facility and began to immediately inspect the unit and reading the shutdown alarms. The Oxy Automation Tech determined that the compressor unit would need to stay shut down so that he could perform a thorough inspection of the unit to determine exact cause involving the “B” Train compressor malfunction alarms that triggered a flaring event. After thoroughly inspecting the compressor unit, Oxy Automation Tech and an Oxy engineer determined the cause of the compressor shutdown was due to a faulty communication board and firing board that suddenly and without warning, regardless of good preventative maintenance practices and programs. Oxy Automation Tech and Oxy engineer inspected the compressor unit thoroughly for any other possible reasons the compressor unit might have shutdown. After inspecting and troubleshooting the compressor unit, the Oxy operators brought the unit back to normal working service. OXY personnel were in place and available at the facility location when compressor unit was returned to working service.

Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. OXY made every effort to control and minimize emissions as much as possible during this event.

2. Steps Taken to limit duration and magnitude of venting or flaring:

The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements.

In this case, the steps taken to limit duration and magnitude of flaring was for Oxy operators to quickly respond to the compression equipment malfunction alarms by quickly contacting an Oxy Automation Tech to the compressor unit malfunction that was rising and an alarm was occurring. An Automation Tech and Oxy engineer quickly arrived at the facility and began to immediately inspect the unit and reading the shutdown alarms. Oxy Automation Tech determined that the compressor unit would need to stay shut down so that he could perform a thorough inspection of the unit to determine exact cause involving the shutdown alarm of the compressor unit triggered a flaring event. In addition to shutting, OXY routed all the stranded sales gas to a flare with a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to ensure the flame is lit and meeting opacity requirements. After thoroughly inspecting the malfunctioning compressor unit, Oxy Automation Tech and Oxy engineer determined that the reason for the shutdown was a faulty communication board and faulty firing board shutdown suddenly and without warning, regardless of good preventative maintenance practices and programs. Oxy Automation Tech and engineer inspected the compressor unit thoroughly for any other possible reasons the compressor unit might be getting any other shutdown alarms. After inspecting and troubleshooting the compressor unit, the Oxy operator brought the unit back to normal working service.

Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. OXY made every effort to control and minimize emissions as much as possible during this event.

3. Corrective Actions taken to eliminate the cause and reoccurrence of venting or flaring:

The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure the flame is lit and meeting opacity requirements.

Oxy cannot take any corrective actions to eliminate the cause and potential reoccurrence of compressor malfunctions as notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. The North Plant compressor was working as designed and operated normally prior to the sudden and without warning malfunction of the compressor unit. Oxy has a strong and positive compression equipment preventative maintenance program in place. This incident was completely out of OXY's control to prevent from happening as it was determined the malfunction occurred due to a faulty communication board and firing board shutdown which can suddenly and without warning, regardless of good preventative maintenance practices and programs. OXY made every effort to control and minimize emissions as much as possible during this event. The only actions that Oxy can take and handle that is within its control, is to keep continue with its compression equipment preventative maintenance program for this unit.

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 36277

QUESTIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 36277
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.	
Was or is this venting or flaring caused by an emergency or malfunction	Yes
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a notification of a major venting or flaring	**Yes, minor venting or flaring of natural gas.**
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.	
Was there or will there be **at least 50 MCF** of natural gas vented or flared during this event	Yes
Did this venting or flaring result in the release of **ANY** liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No

Unregistered Facility Site	
Please provide the facility details, if the venting or flaring occurred or is occuring at a facility that does not have an Facility ID (f#) yet.	
Facility or Site Name	*Not answered.*
Facility Type	*Not answered.*

Equipment Involved	
Primary Equipment Involved	*Not answered.*
Additional details for Equipment Involved. Please specify	*Not answered.*

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	4
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	1
Carbon Dioxide (C02) percentage, if greater than one percent	0
Oxygen (02) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.	
Methane (CH4) percentage quality requirement	*Not answered.*
Nitrogen (N2) percentage quality requirement	*Not answered.*
Hydrogen Sufide (H2S) PPM quality requirement	*Not answered.*
Carbon Dioxide (C02) percentage quality requirement	*Not answered.*
Oxygen (02) percentage quality requirement	*Not answered.*

Date(s) and Time(s)	
Date venting or flaring was discovered or commenced	07/06/2021
Time venting or flaring was discovered or commenced	03:50 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/06/2021
Time venting or flaring was terminated	04:00 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	0
Longest duration of cumulative hours within any 24-hour period during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	Cause: Equipment Failure | Other (Specify) | Natural Gas Flared | Spilled: 97 Mcf | Recovered: 0 Mcf | Lost: 97 Mcf]
Additional details for Measured or Estimated Volume(s). Please specify	*Not answered.*
Is this a gas only submission (i.e. only Mcf values reported)	**Yes, according to supplied volumes this appears to be a "gas only" report.**

Venting or Flaring Resulting from Downstream Activity	
Was or is this venting or flaring a result of downstream activity	*Not answered.*
Date notified of downstream activity requiring this venting or flaring	*Not answered.*
Time notified of downstream activity requiring this venting or flaring	*Not answered.*

Steps and Actions to Prevent Waste

For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements.
Steps taken to limit the duration and magnitude of venting or flaring	The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure the flame is lit and meeting opacity requirements.

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CONDITIONS

Action 36277

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	Action Number: 36277
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	7/14/2021