

SASOLBURG & EKANDUSTRIA OPERATIONS

Safety Health and Environment

EOSEO-SA-2693

SHE incident flash notification and preliminary incident report

SHE Incident Flash Notification and Preliminary Incident Report

Incident number: TBC

A: Flash Notification

Incident type	Injury	FER	Environment	Product Transport	Product Stewardship	Health/Hygiene	Security	Equipment Damage	Near Miss
		X							

Relevant Life Saving Rules (LSRs)												
	Working at Height	Obey Road Safety Rules	Comply with the Work Permit	Control Lifting Operations	Control Confined Space	Control Ignition Sources	Follow LOTO Procedures	Wear Correct PPE	No Alcohol or Drugs On Site	Beware of Heavy Mobile Equipment	Control Hazards When Excavating	
Relevant Process Safety Fundamentals												
	Double Isolation	Product Transfer	Safety Critical Devices	Adhere to SOP	Walk the Line	Process Changes	Completeness of Box-up	Safe Making	Respond to Alarms	Well Barriers	Subsurface Uncertainties	Well Control Equipment
					X				X			

Actual severity classification	FER TBC Environment TBC	Potential severity level	FER TBC Environment TBC
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Operating entity and division	Sasolburg and Ekandustria Operations, Midlands, PVC
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Reported by	
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Incident owner	
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Date of incident	19/07/2024	Time	11:07
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Description of incident	Vinyl Chloride vapour cloud was reported coming from a flange of a manual isolation valve on a recycle line to the VCM storage sphere A (FB-7001A). Level 2 emergency alarm was activated due the vapour cloud moving outside plant boundaries.
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Number of injured (no names published)	None
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Equipment / product involved	Manual isolation valve on the 6-inch return line to VCM storage sphere A (FB-07001A) / Vinyl Chloride Monomer
Consequences (describe all e.g. nature of injuries, damage and/or loss)	Gasket failure that resulted in the VCM release and vapour cloud
Key undesirable event	KUE 1: Major loss of hazardous material and associated chemical energy. KUE 5: Significant contamination of the environment (Land, air, and water).
Related KUE scenario	1.1 Loss of containment of toxic or flammable substances 5.1 Legacy, acute, or cumulative impact on the environment

B: Preliminary Incident Report

Immediate corrective actions taken	- DCS Operator informed the VCR Operator to close XV1002A on the recycle line to sphere A at 11:08 and stopped the transfer from VCM. - Deluge system was activated to suppress the vapour cloud. - DCS Operator attempted to activate the fire and gas alarm (alarm did not activate). - DCS Operator then called Shift Controller to activate level 2 emergency. - Level 2 was downgraded to Level 1 at 13:29. - Level 1 All-Clear was declared at 14:30.		
Investigation team members	[REDACTED]		
Facts gained	- Toxic alarms near VCR Control Room activated at 11:07, Sphere LEL alarm activated 11:08. - The fire and gas alarm failed to activate when DCS Operator initiated it at the control room. - At the time of the incident, the plant was receiving from VCM Oxy into sphere B, and sphere A was feeding feed tank (FB7002B), recycling into sphere A.		
Preliminary causes or learning	Preliminary cause: - Gasket failure (direct) Learning: - A quick response to an emergency by Plant assisted with containing the VCM vapour cloud from moving outside the plant boundaries. - Responding to alarms timeously is crucial in reducing the severity of process safety and environmental incidents.		
Photos [Note – no photographs showing actual injuries must be distributed]	None		
Reported by	[REDACTED]	External reporting required	TBC
Contact person	Clifford Oliphant	Telephone	016 920 2700

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