

RISK ASSESSMENT

(WORKING IN A HYDROGEN SULPHIDE (H₂S) AREA)

Document No: QHSE-RA-H2S-HSE-00-F
Date of issue: 01-01-2025
Revision: 00
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PROJECT / LOCATION:	DATE OF ASSESSMENT:	DATE OF NEXT ASSESSMENT
ABC	01-01-2025	01-01-2026

TASK / ACTIVITY
WORKING IN A HYDROGEN SULPHIDE (H ₂ S) AREA

SR.	Hazards	Hazards Effects (If the hazard is released)	Risk Level			Existing Risk Control Measures	Residual Risk			Remarks
			L	S	RR		L	S	RR	
1.	Lack of training – Entering an H ₂ S area (Field Employees)	Unconsciousness / Fatalities	3	4	M	Follow HSE Training and Competence Procedure. Two training courses shall be provided: 1. H ₂ S Awareness and Escape: Required for all staff regularly entering H ₂ S-designated areas. This course addresses hazards associated with H ₂ S, occupational exposure limits, detection and alarm systems, and appropriate actions when an alarm sounds. 2. Self-Contained Breathing Apparatus (SCBA) Training: Provides personnel with the knowledge and skills to use SCBA effectively.	1	3	L	
2.	Lack of training – Entering an H ₂ S area (Visitors)	Unconsciousness / Fatalities	3	4	M	Visitors without a valid H ₂ S Entry Permit may be authorized to enter low-risk H ₂ S areas if: 1. Entry is authorized by the Production Coordinator. 2. The visitor is accompanied by trained operations staff. 3. The visitor's ID is retained in the control room. 4. The visitor signs the station log.	1	3	L	



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3.	Lack of training – Departure from an H ₂ S area (Field Employees & Visitors)	Unnecessary extensive rescue operations may be initiated in an emergency	3	4	M	Upon completing work or visiting an H ₂ S-designated location, ensure: 1. The station log is signed. 2. H ₂ S Entry Permit or ID is removed from the control board. 3. Access authorization form is cancelled if required.	1	3	L
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Risk Matrix

SEVERITY								<u>Consequences:</u> 6 – Catastrophic – Multiple fatalities 5 – Major - Single Fatality 4 – Serious – Permanent disability 3 – Moderate – Lost Time Injury 2 – Minor – Medical Treatment 1 – Insignificant – First Aid Case
LIK E LI H O O D		Insignificant	Minor	Moderate	Serious	Major	Catastrophic	
	1	1	2	3	4	5	6	
	2	2	4	6	8	10	12	
	3	3	6	9	12	15	18	
	4	4	8	12	16	20	24	
	5	5	10	15	20	25	30	
	6	6	12	18	24	30	36	
	24 - 36	Extreme	Immediate action required, Activity should not to proceed in current form					
	15 - 20	High	Prompt action required, including interim actions. Activity should be modified to include remedial action and planning.					
	8 - 12	Medium	Schedule action including any interim countermeasures e.g. implement safe work procedures, signage, instructions					
	4 - 6	Low	Activity can operate subject to management and or modification,					
	1 - 3	Very Low/ Negligible	Risk almost certainly acceptable, no action required unless escalation of risk is possible					

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Likely Frequency:

Likelihood (of Adverse Event Occurring)			
	Description	Health & safety	Environmental
6	Almost certain or imminent	Occurs all the time	Continuous or will happen frequently
5	Highly likely	Common occurrence, Occurs multiple times in a year	Happens 5 – 10 times per year
4	Likely or could occur	Know to occur in the last 12 months	1 – 5 times per Year
3	Not likely, but possible	Has occurred in an industry worldwide	Once every 5 years
2	Unlikely	Has not occurred in over 10 years of the same activity	Not happened in over 10 years
1	Rare	Theoretically possible, but not expected to occur	theoretically possible, but not expected to occur

Prepared by: HSE Engineer		Reviewed by: HSE Manager		Approved by:	
Sign:	Date:	Sign:	Date:	Sign:	Date:

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