



RISK ASSESSMENT

(Installation Of Energy Management Panel)

Document No: ABC-QHSE-013-FRM
Date of issue: XX-XX-XXXX
Revision: XX

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Project/Location:	Date: 00-00-2024	Date of Next Assessment:
Job No.		00-00-2025

Tasks/ Activity:
Risk Assessment For Installation Of Energy Management Panel
Who Might Be Harmed?
Operatives, Site Visitors

No.	Hazards	Risks & Consequences	Risk Level			Existing Risk Control Measures	Additional Risk Controls	Residual Risk			Remarks
			L	S	R			L	S	R	
1.	Faults with installation	<u>Improper Electrical Wiring</u> Electrical faults, short circuits, or fires, resulting in equipment damage, personal injury, or even fatalities. <u>Incorrect Fitting of Components</u> Structural failures, such as pipes bursting, panels collapsing, or joints breaking, causing property damage and operational disruptions. <u>Non-compliance with Manufacturer's Specifications</u> Premature wear and tear, system inefficiency, or complete system failure, leading to higher maintenance costs and downtime. <u>Use of Inadequate or Incompatible Materials</u>	3	5	H	Turn off utility power at the distribution point where the EMP is to be connected. Be absolutely sure there is no power. All installations tested dead (for insulation and resistance) with a multi-function tester prior to being made live. All temporary and new installations to conform to IEE Regulations.	[COMPANY] Supervisor and operatives to follow isolation and testing procedures	1	3	L	



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		Corrosion, leaks, or disintegration over time, potentially leading to environmental pollution or safety hazards. <u>Lack of Quality Control During Installation</u> Hidden defects remain undetected, resulting in potential catastrophic failures during operation and increased liability for the organization.						
2.	Loss of power during connection	<u>Equipment Damage</u> Loss of power during connection can lead to electrical surges or sudden voltage changes that may damage sensitive electrical equipment, causing costly repairs or replacements. <u>Electric Shock</u> Sudden loss of power may leave exposed live wires or terminals, increasing the risk of electrical shock to personnel handling the equipment or connections. <u>Delayed Operations</u> A power outage during connection can halt operations, resulting in delays to project timelines and potentially causing financial losses due to downtime. <u>Fire Hazard</u> Loss of power can create overheating in electrical components if the system fails to shut down properly, leading to the risk of sparks or fire outbreaks. <u>Data Loss</u>			Arrange with the Client / Principal Contractor times to isolate the supply, in order to connect initial / additional circuits to the EMP. Ensure the Client / PC has communicated to all other workers. Complete the connection outside normal site hours whenever possible. Adequate lighting is provided around the EMP installation area and suitable temporary power to enable safe installation of equipment	[COMPANY] Supervisor to liaise with client / Principal Contractor regarding programming of connections.		



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		In industries reliant on computer-controlled systems, a sudden loss of power can lead to data corruption or complete data loss, which can disrupt business continuity and affect decision-making.							
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Risk Matrix

SEVERITY								Consequences:
LIKELIHOOD		Insignificant	Minor	Moderate	Serious	Major	Catastrophic	6 – Catastrophic – Multiple fatalities
	1	1	2	3	4	5	6	5 – Major - Single Fatality
	2	2	4	6	8	10	12	4 – Serious – Permanent disability
	3	3	6	9	12	15	18	3 – Moderate – Lost Time Injury
	4	4	8	12	16	20	24	2 – Minor – Medical Treatment
	5	5	10	15	20	25	30	1 – Insignificant – First Aid Case
	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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