

SWMS 007	<div style="color: red; font-weight: bold;">SJD Electrical</div> <div style="font-weight: bold;">Job Safety Analysis / Safe Work Method Statement</div>					Page 1 of 9
<div style="font-size: small;">SJD ELECTRICAL PTY LTD - ABN 53 127 802 608 - ACN 127 802 608 - ELECTRICAL LICENCE 68608 - QBCC LICENCE 1270514 - ARC LICENCE AU19801 - MOLEX LICENCE CIAU3372</div>						
Safe Work Method Statement Title: SWMS: 007 INSTALLATION OF POLE MOUNTED SWITCHBOARD (temporary site power)						Date Created: 00/00/16
Project Name:			Person responsible for ensuring compliance with this SWMS:			Review Date: 00/00/17
Project/Client:		Job No:	Authorised By:		Revision No. 0	
Licences, Permits, Competencies Required: (tick items relevant to this task and site)						
<input type="checkbox"/> Confined Space		<input type="checkbox"/> Work at Heights		<input type="checkbox"/> Excavation		<input type="checkbox"/> Hot Work
<input type="checkbox"/> White Card		<input type="checkbox"/> EWP		<input type="checkbox"/> Electrical License		<input type="checkbox"/> Radiation
				<input type="checkbox"/> Rescue and Resuscitation		<input type="checkbox"/> Network Access
Common Hazards to Manage: (tick items relevant to this task and site)						
<input type="checkbox"/> Manual handling		<input type="checkbox"/> Working at Heights		<input type="checkbox"/> Risk of Electric Shock		<input type="checkbox"/> Slips, Trips and Falls
						<input type="checkbox"/> Housekeeping
HAZARD CLASSIFICATION MATRIX POSSIBLE RESULTS Risk = Consequence x Likelihood		Probability				
		RARE A	UNLIKELY B	POSSIBLE C	LIKELY D	ALMOST CERTAIN E
Consequences	Catastrophic	5	Medium (M)	High (H)	High (H)	Extreme (E)
	Major	4	Medium (M)	Medium (M)	High (H)	Extreme (E)
	Moderate	3	Low (L)	Medium (M)	High (H)	High (H)
	Minor	2	Low (L)	Low (L)	Medium (M)	High (H)
	Insignificant	1	Low (L)	Low (L)	Low (L)	Medium (M)

RISK RATING	ACTION REQUIRED (ALARP – As Low As Reasonably Practicable)
E = Extreme UNACCEPTABLE	Intolerable risk Activity must not be undertaken prior to Management / CEO review of potential risk mitigation measures and a decision that risk is ALARP
H = High risk Only acceptable if ALARP	Implement strict control measures to reduce risk to an acceptable level. Activity must not continue until the level of risk is reduced to As Low As Reasonably Practicable (ALARP) and preferably Medium rating. Operations Manager and/or Project Supervisor approval of the risk controls is required.
M = Medium risk Undesirable	Specify, document and implement existing risk controls and additional management actions to reduce the risk to ALARP and <u>preferably Low rating</u> . Activity must not continue without Operations Manager and/or Project Supervisor approval.
L = Low risk Tolerable	Tolerable risk. Carry out activity

Basic PPE to be used

✓ app												
Other PPE:												

SWMS 007	<div>SJD Electrical</div> <div>Job Safety Analysis / Safe Work Method Statement</div>	Page 2 of 9
Safe Work Method Statement Title: SWMS: 007 INSTALLATION OF POLE MOUNTED SWITCHBOARD (temporary site power)		

Job Task #	Job Step	Potential Health, Safety and Environmental Hazards	PROBABILITY	CONSEQUENCE	RATING	Control Measures	PROBABILITY	CONSEQUENCE	RATING	PERSON(S) RESPONSIBLE
1	Planning and preparation	Non-compliance with current legislative requirements and company processes.	D	4	H	<p>All personnel to complete site specific induction.</p> <p>All personnel to have completed company specific induction.</p> <p>Personnel are to hold the required licenses and certificates for the work, and be assessed as competent to use or operate equipment and plant.</p> <p>All personnel must read, understand and sign off on this SWMS. All personnel are given the opportunity to provide input into the content of this SWMS.</p> <p>Daily pre-starts will be held at the beginning of each shift.</p> <p>Any changes throughout the shift will be communicated prior to the commencement of the next task.</p> <p>A JSA is to be completed for any changes to the task.</p> <p>Ensure permit requirements are understood.</p>	B	4	M	<p>Work crew</p> <p>Supervisor</p> <p>Permit Holder</p>
		<p>Working outdoors with exposure to;</p> <ul style="list-style-type: none"> UV / high temperatures causing heat stress / dehydration / sunburn Fauna and insects causing bites and stings 	D	3	H	<p>'Check ins' during extreme weather conditions.</p> <p>Comply with the Queensland Worksafe heat stress procedure.</p> <p>Ensure there is an area in the shade for rest (preferably Crib Facilities).</p> <p>Work Breaks are compulsory at nominated times (preferably during the hotter parts of the day)</p> <p>Drink adequate water amount of water.</p> <p>Use sun block for protection from sun.</p> <p>Use insect repellent (if applicable).</p>	B	3	M	Work crew
		<p>Interactions with other trades working in the vicinity;</p> <ul style="list-style-type: none"> Inadvertently cause hazardous situation including trips, slips, falls 	D	3	H	<p>Ensure other workers are informed and aware of all other trades working in the area</p> <p>Communicate potential interactions during prestart</p>	B	3	M	<p>Supervisor</p> <p>Work Crew</p>

Job Task #	Job Step	Potential Health, Safety and Environmental Hazards	PROBABILITY	CONSEQUENCE	RATING	Control Measures	PROBABILITY	CONSEQUENCE	RATING	PERSON(S) RESPONSIBLE
		Unauthorized access to work area by other authorized personnel without correct PPE.	D	3	H	<p>Follow all site rules and procedures.</p> <p>Wear all mandatory PPE and task specific PPE.</p> <p>If a hazard is identified in the work area – fix it immediately or if unable to do so, isolate the hazard and inform your supervisor immediately.</p> <p>Site wide barricading to be installed to restrict access to unauthorized personnel.</p> <p>Signage to be visible around all site and at all access points.</p> <p>All visitors must report to site office before entering site.</p> <p>All visitors to be escorted by a site inducted personnel member.</p>	B	3	M	Supervisor Work crew
		<p>Poor ground conditions</p> <p>Uneven, loose, wet or soft ground at the work site.</p>	C	2	H	<p>Inspect path of travel for any obstructions and remove them.</p> <p>Daily site inspections prior to commencement of work activities and at the conclusion of each work day.</p> <p>Regular housekeeping inspections including regular walk rounds to be conducted to ensure a clean and tidy work area.</p>	B	2	M	Work crew
2	Work area preparation	<p>Personal injury -</p> <ul style="list-style-type: none"> - Cuts, strains, abrasions, burns - Possible eye injury - Dust inhalation (depends on surrounds – these tasks should not cause dust or fumes) 	C	3	H	<p>Authority and empowerment to Stop the Job.</p> <p>Follow all site rules and procedures.</p> <p>Ensure correct manual handling techniques are followed.</p> <p>Wear all mandatory PPE and task specific PPE.</p> <p>Communicate task clearly with all work crew members. Ensure a thorough understanding of expectations.</p> <p>If a hazard is identified in the work area – fix it immediately or if unable to do so, isolate the hazard and inform you supervisor.</p> <p>Work on flat surface where practicable</p> <p>Secure all tools and/or equipment by lanyard or store in a toolbox/basket when on the work platform.</p>	B	3	M	Work crew Supervisor

Job Task #	Job Step	Potential Health, Safety and Environmental Hazards	PROBABILITY	CONSEQUENCE	RATING	Control Measures	PROBABILITY	CONSEQUENCE	RATING	PERSON(S) RESPONSIBLE
3	Coordinate shutdown and isolations followed by installation of DANGER Tags	Personal injury due to contact with live parts	C	4	H	<p>Obtain work approval and confirm any client site/safety instruction.</p> <p>Check scope of works to confirm whether work be re-scheduled so it may be isolated.</p> <p>Identify the electrical equipment to be worked on and the appropriate points of supply.</p> <p>Isolate the equipment from sources of supply if possible. Secure the isolation by such means as lock-out to prevent inadvertent re-energisation and attached a danger tag.</p> <p>Prove that the exposed conductors are de-energised (i.e. 'test for dead').</p> <p>Confirm with client that works meet the requirements regarding work on energised equipment and apparatus and the risk of harm would be greater if the circuits were de-energised before work commenced.</p> <p>Confirm that person/s carrying out the work are appropriately qualified, competent, confident and trained for the task.</p>	B	4	M	Work crew Supervisor
4	Confirm cables to be connected meet specifications and all cables have been installed.	Personal injury - <ul style="list-style-type: none"> - Cuts, strains, abrasions, burns - Possible eye injury 	C	4	H	<p>Authority and empowerment to Stop the Job.</p> <p>Follow all site rules and procedures.</p> <p>Ensure correct manual handling techniques are followed.</p> <p>Wear all mandatory PPE and task specific PPE.</p> <p>Communicate task clearly with all work crew members. Ensure a thorough understanding of expectations.</p> <p>If a hazard is identified in the work area – fix it immediately or if unable to do so, isolate the hazard and inform you supervisor.</p> <p>Work on flat surface where practicable</p>	B	4	M	Work crew Supervisor

Job Task #	Job Step	Potential Health, Safety and Environmental Hazards	PROBABILITY	CONSEQUENCE	RATING	Control Measures	PROBABILITY	CONSEQUENCE	RATING	PERSON(S) RESPONSIBLE
5	Cabling <ul style="list-style-type: none"> - Group cables together as they enter switchboard and fix with cable ties - Separate cables into groups of like destination. Seal or plug any unused cable entries 	Personal injury - <ul style="list-style-type: none"> - Cuts, strains, abrasions, burns - Possible eye injury 	C	3	H	Authority and empowerment to Stop the Job. Follow all site rules and procedures. Ensure correct manual handling techniques are followed. Wear all mandatory PPE and task specific PPE. Communicate task clearly with all work crew members. Ensure a thorough understanding of expectations. If a hazard is identified in the work area – fix it immediately or if unable to do so, isolate the hazard and inform you supervisor. Work on flat surface where practicable	B	3	M	Work crew Supervisor
6	Conductors <ul style="list-style-type: none"> - Mark each conductor prior to removing any secondary insulation - Group conductors of like destinations and fix into a loom system - Align and terminate each conductor into its correct location 	Personal injury - <ul style="list-style-type: none"> - Cuts, strains, abrasions, burns - Possible eye injury 	C	3	H	Authority and empowerment to Stop the Job. Follow all site rules and procedures. Ensure correct manual handling techniques are followed. Wear all mandatory PPE and task specific PPE. Communicate task clearly with all work crew members. Ensure a thorough understanding of expectations. If a hazard is identified in the work area – fix it immediately or if unable to do so, isolate the hazard and inform you supervisor. Work on flat surface where practicable	B	3	M	Work crew Supervisor
7	Check and tighten all terminations and connections	Personal injury - <ul style="list-style-type: none"> - Cuts, strains, abrasions, burns - Possible eye injury 	C	3	H	Authority and empowerment to Stop the Job. Follow all site rules and procedures. Ensure correct manual handling techniques are followed. Wear all mandatory PPE and task specific PPE. Communicate task clearly with all work crew members. Ensure a thorough understanding of expectations. If a hazard is identified in the work area – fix it immediately or if unable to do so, isolate the hazard and inform you supervisor. Work on flat surface where practicable	B	3	M	Work crew Supervisor

Job Task #	Job Step	Potential Health, Safety and Environmental Hazards	PROBABILITY	CONSEQUENCE	RATING	Control Measures	PROBABILITY	CONSEQUENCE	RATING	PERSON(S) RESPONSIBLE
8	Confirm installations to manufacturer's and client's specifications	Defective installation causing electrocution.	C	4	H	<p>Ensure appropriate test equipment is being used</p> <p>Appropriate tools for the job are available</p> <p>Ensure all appropriate barricading is in place to isolate the area</p> <p>Working kits are used and maintained, and first check operation of test apparatus.</p> <p>Visual inspection shall include;</p> <ul style="list-style-type: none"> - Basic protection (protection against direct contact with live parts) - Fault protection (protection against indirect contact with exposed conductive parts) - Protection against hazardous parts (guarding/screening) - Protection against spread of fire (fire blanket / fire extinguisher) - General condition of equipment. 	B	4	M	Work crew Supervisor
9	Clean switchboard	<p>Personal injury -</p> <ul style="list-style-type: none"> - Cuts, strains, abrasions, burns - Possible eye injury - Dust inhalation (depends on surrounds – these tasks should not cause dust or fumes) 	C	3	H	<p>Authority and empowerment to Stop the Job.</p> <p>Follow all site rules and procedures.</p> <p>Ensure correct manual handling techniques are followed.</p> <p>Wear all mandatory PPE and task specific PPE.</p> <p>Communicate task clearly with all work crew members. Ensure a thorough understanding of expectations.</p> <p>If a hazard is identified in the work area – fix it immediately or if unable to do so, isolate the hazard and inform you supervisor.</p> <p>Work on flat surface where practicable</p>	B	3	M	Work crew Supervisor
10	Confirm all circuits have been completed and DANGER Tag any incomplete circuits.	<p>Personal injury -</p> <ul style="list-style-type: none"> - Cuts, strains, abrasions, burns - Possible eye injury - Dust inhalation (depends on surrounds – these tasks should not cause dust or fumes) <p>Unauthorized access to work area by other authorized personnel without correct PPE.</p>	C	3	H	<p>Authority and empowerment to Stop the Job.</p> <p>Ensure isolation is secure by such means as lock-out to prevent inadvertent re-energisation and attached a danger tag</p> <p>Follow all site rules and procedures.</p> <p>Ensure correct manual handling techniques are followed.</p> <p>Wear all mandatory PPE and task specific PPE.</p> <p>If a hazard is identified in the work area – fix it immediately or if unable to do so, isolate the hazard and inform you supervisor.</p> <p>Work on flat surface where practicable.</p>	B	3	M	Work crew Supervisor

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11	Test and commission switchboard. Confirm phase rotation of all 3 phase equipment	Personal injury due to contact with live parts	C	4	H	<p>Carry out pre-commission test and isolation procedures</p> <p>Obtain work approval and confirm any client site/safety instruction.</p> <p>Check scope of works to confirm isolations are in place prior to testing commencing.</p> <p>Confirm with client that works meet the requirements regarding work on energised equipment and apparatus and the risk of harm would be greater if the circuits were de-energised before work commenced.</p> <p>Confirm that person/s carrying out the work are appropriately qualified, competent, confident and trained for the task.</p>	B	4	M	Work crew Supervisor
12	Install signs or labels as required	Personal injury - - Cuts, strains, abrasions	C	2	M	<p>Follow all site rules and procedures.</p> <p>Ensure correct manual handling techniques are followed.</p> <p>Wear all mandatory PPE and task specific PPE.</p> <p>If a hazard is identified in the work area – fix it immediately or if unable to do so, isolate the hazard and inform you supervisor.</p>	B	2	L	Work crew
13	Complete appropriate documentation (switchboard schedules, update drawings and work book)	Incorrect documentation could result in miscommunication and injury to personnel	C	4	H	Person conducting work are to hold the required licenses and certificates for the work, and be assessed as competent to complete switchboard schedules, update drawings and work book.	B	4	M	Work crew Supervisor
14	Completion of task	Slips, trips, and falls	C	4	H	<p>Leave work area tidy.</p> <p>Store equipment in authorised access area (e.g. locked storage facility)</p> <p>Report any damage/defect to supervision and tag out any faulty equipment.</p>	B	4	M	Work crew

SWMS 007	SJD Electrical Job Safety Analysis / Safe Work Method Statement	Page 8 of 9
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Personnel Qualifications and Experience Required	Personnel Duties and Responsibilities		Training Required to Complete Work
	Supervisor	All Personnel	
Personnel will need to be trained and confident .	Empower all personnel to STOP the JOB if required to do so.	All personnel to maintain tidy work area on site at all times. Personal Protective Equipment (PPE) to be worn at all times on site.	Supervisor to be trained in risk identification, assessment and control e.g. Job Safety Analysis (JSA).
Appropriate industry and site specific induction.	Supervisor to carry out daily inspections of work site for hazards.	Ensure housekeeping is maintained throughout the task to avoid the risk of injury.	Electrician to be trained in hazard identification, Risk Level and control.
Must be a Licensed Electrician to carry out the works.	Ensure appropriate permits are in place for the task (if applicable).	Barricading to be used as appropriate to protect others from working below elevated work.	Safety observer who is competent to perform the task being observed and is also competent in electrical rescue and cardio-pulmonary resuscitation (CPR).

Engineering Details / Certificates / Australian Standards	Referenced – Codes of Practice / Regulations / Legislation
<ul style="list-style-type: none"> AS 3000 Wiring Rules AS/NZS 3012:2010 Electrical Installations – Construction and Demolition Sites. AS/NZS 3017 - Electrical installations - verification guidelines AS4836 Safe working on or near low voltage electrical installations and equipment 	<ul style="list-style-type: none"> Work Health and Safety Act and Regulations 2011 Electrical Safety Act 2002 and Electrical Safety Regulations 2013 Electrical Safety Code of Practice 2013 - Managing Electrical Risks in the Workplace Hazardous Manual Tasks Code of Practice 2011 Managing risks of Plant in the workplace Code of Practice 2013
Plant / Equipment Required (Mobile or Static)	Maintenance Checks / Calibration Intervals
<ul style="list-style-type: none"> Portable hand tools, electrical power tools / drills (insulated tools) May require scissor lift, boom lift or cherry picker (refer to Scissor Lift / Boom Lift / Cherry Picker SWMS) Appropriate testing equipment 	<ul style="list-style-type: none"> Hand tools and ladders to be checked daily. All electrical equipment to be tested and tagged.

