

| | Contractor Document Cover Page | | | | | | | | | | | |
|--|---|---------------|----------------------|-----------------|-----------------------|---------------|------------|----|--|--|--|--|
| | Collie Battery E | | age System Bala | ance of F | Plant | | | | | | | |
| | | | d Document | | | | | | | | | |
| Document Information | | | | | | | | | | | | |
| Synergy Document N | o:* | | | | | Rev: | 2 | | | | | |
| Contract No: | | | | Total no. of pa | | | | | | | | |
| Document Title: * | | Collie Batter | y Energy Storage Sys | tem BOP-C | RAW-Project Risk R | egister | | | | | | |
| Tag No: | | | | | | | | | | | | |
| Vendor Document No |): * | N/A | | | | Rev: | N/A | | | | | |
| | | Revisio | on History | | | | | | | | | |
| Contractor shall ensure th | at documents have been fully checked and approved prior to | Prepared | M Bentley | Checked | D Gray | Approved | D Gra | ıy | | | | |
| | submission to Synergy | Date | | Date | | Date | | | | | | |
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| | Notes: | | | Sı | upplier/Contractors r | name, Address | and Logo: | | | | | |
| | | | Company Logo here | | | | | | | | | |
| | REVIEWED BY SYNERGY | | | 1 | | 1 | | | | | | |
| 1 | Accepted. Work may proceed | | | | | 1 | | | | | | |
| 2 | Accepted. Work may proceed. Submit Final Delivera | able. | | | | | | | | | | |
| 3 | Accepted. Work may proceed subject to incorporation | | ated. | | | İ | | | | | | |
| 4 | Not accepted. Revise and Resubmit. Work may not | proceed. | | | | | | | | | | |
| 5 | Review Not Required. Work may proceed. | | | | | | | | | | | |
| needed. 2) Permission to p methods or material 3) This review: (a) | ludes document, drawing, sketch and/or any or roceed does not constitute approval of design developed or selected by the Contractor. has not included a dimensional check; and (b) | | | | | | | | | | | |
| Vendor/Contractor fr | om full compliance with Contractual obligation: | S. | | Rev | Date | De | escription | | | | | |

Doc ID: 201076-SE-XXX-00XX Rev: A | Date: 01/05/2024 Doc Owner: SCEE Project Manager

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| Date: | By: | Revisions to Synergy Document No. |

Doc ID: 201076-SE-XXX-00XX Rev: A | Date: 01/05/2024 Doc Owner: SCEE Project Manager

| | SHE Risk Register Details | | | | | | |
|------------|---|--|--|--|--|--|--|
| Business | SCEE Electrical | | | | | | |
| Project | Synergy Collie Battery Energy Storage System Balance of Plant | | | | | | |
| Purpose | Identify key hazards and controls applicable to full scope of the project | | | | | | |
| Comments | This document will evolve as the project progresses. | | | | | | |
| Risk Owner | Project Manager - David Gray | | | | | | |

| Version | Date | Modifications (List changes made to previous version - N/A for original version) |
|---------|------------|---|
| 1.0 | 24/05/2024 | Initial document from Construction Risk Assessment Review meeting |
| 2.0 | 10/07/2024 | Use of Telehandler to move and place culverts added |
| 3.0 | 20/08/2024 | Working near water added |
| 4.0 | 23/08/2024 | Entering, working and emergency rescue from RMU units added |
| 5.0 | 5/09/2024 | Use of P2 masks when grinding conduit to culvert joints added |
| 6.0 | 10/09/2024 | Battery transport to site, Crane assembly, Crane operations (Battery landing) added |
| 7.0 | 19/09/2024 | Battery isolation, guarding of open conduit box outs added |
| | | |
| | | |

| Risk Team (List Names and Positions of each person involved in development / review) | Author | Approved by (Risk Owner) | Next Revision Date |
|--|--------------|-----------------------------|-----------------------|
| | Mike Bentley | Dave Gray | 10/07/2024 |
| | Aled Evans | Dave Gray | TBA |
| | Aled Evans | | |
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| Register Type Project(s) Approved by | Project Risk Register CBESS BOP | | | | | | | | | | | |
|---|---|--|---|--|-------------|------------|-------|------------------------|------------------|---|-----------------------------|-------------|
| Task / Activity | Hazard | Risk (un-wanted event) | Systems Policy, Plans & Procedures | Controls | Consequence | Likelihood | Calc. | Residual Risk / Impact | Accept or Reject | Recommended Additional Controls | By Whom Person to Action | Target Date |
| MOBILISATION | | | Policy, Plans & Procedures | | | | | | | | Person to Action | |
| Mobilisation of personnel | Unqualified personnel | Inadequate competency of personnel. Breach of licensing regulations | SCEE-TR-TD-PRO-0001 Training and Competency 201047-TR-MAT-001 Training Needs Analysis | Project induction Project site orientation for new starters. | Moderate | Unlikely | 2 | M7 | | | | |
| Mobilisation of subcontractors | Contractor engagement | Unfamiliarity with SCEE/Site procedures. Conducting work unsafely or in conflict with site or Principal procedures. High risk and/or specialised tasks. Introduced hazards to the workplace. | SCEE-TR-TD-PRO-0001 Training and Competency 201047-TR-MAT-001 Training Needs Analysis | Contractor pre-qualification process in Felix and approved prior to mobilisation. Contractor induction process, including site inductions | Moderate | Unlikely | 2 | М7 | | Site First Aiders Site Medic Emergency Channel 39 | | |
| Mobilisation of equipment | Poor vehicle hygiene | Spread of weeds, seeds | 201074-SE-PLN-01 Collie Battery Energy Storage Project Health, Safety and Erwironment Plan C2761-WHS-MP-001 WHS Management Plan 201074-SE-FM-0020 Mobilisation- Demobilisation Weed Hygiene Certificate | Plant Pre acceptance Checks prior to mobilisation, including weed and seed inspection Decontamination of vehicles where required | Moderate | Rare | 2 | L5 | | | | |
| Establishment / use of project laydown yard & site office | Hostile third party gaining access to yard / site office | Theft / security incident | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan 201074-SE-PLN-004 CBESS Traffic Management Plan 201074-SM-PRO-001 Site Security Procedure | Laydown yard to be fully fenced (and secured after hours) Temporary Fencing will be provided by SCEE other fencing to be undertaken by Principal. Security lighting to be on in hours of darkness Lighting towers for site. Security Company - Including Out of hours security and Mobile Patrols Lone worker communication protocols Lock plant and equipment supervision to secure keys in main office. Fuel farm to be locked after hours | Major | Unlikely | 3 | М12 | | | | |
| Traffic Management | Close proximity to CPS and adjacent properties | Disruption to project from traffic external to project. | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan WF SMP 201074-SE-PLN-004 CBESS Traffic Management Plan | Project Induction Access to site to be via security/gate entry Site signage clearly defining project boundary and entry requirements | Minor | Unlikely | 1 | L2 | | | | |
| Public Access | Security | Members of the public inadvertently gaining access to yard / site office | | Principal contractor responsible for project security. Site boundaries secured with fencing in place to discourage access. Signage in place at access points with call up/approval process Card access system to be installed with turnstile/boom gate | Major | Unlikely | 3 | M12 | | | | |
| Overhead Services on site | Powerlines / Conductors at car park/laydown area and inside of the project boundaries. | Possible MAD breach if using extended crane booms/excavators (note: only until existing line is denergised & removed) | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan 201074-SE-PLN-004 CBESS Traffic Management Plan | Divert vehicles and plant clear of overhead services on site where machine envelope will encroach MAD. (dentify no litting / no tipping / No raised excavator boom zones within MADS. Traffic Control Plans - (TCP) Provided in Pre-starts SWMS & JHAP MACESS Permit (Western Power) I required Install Signage adjacent to the overhead services. Create conditions of delivery note to be sent to external parties due to access the property Project Induction 330KV conductor height known in car park - 15 metres 330KV conductor height known within site boundary - TBA | Moderate | Unlikely | 2 | M7 | | Site First Alders Site Medic Emergency Channel 39 | | |
| Offices and Amenities | Toilet / hand washing amenities - availability and suitability | Exposure to biological hazard (illnes: / disease) | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan 201074-SE-PLN-003 CBESS Waste Management Plan | Serviced and maintained ablution facilities To be pumped out and removed by a licenced contractor. | Moderate | Rare | 2 | L5 | | Site First Alders Site Medic Emergency Channel 39 | | |
| Site Work | Poor Fitness for Work | Injury / illness as a result of impaired fitness for work | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-HR-HR-POL-004 Fitness for Work Policy | Daily BAC Testing. D&A testing program (pre-employment, random, for-cause, blanket) Conditions of employment Employee Assistance Program (EAP) | Moderate | Unlikely | 2 | М7 | | Site First Alders Site Medic Emergency Channel 39 | | |
| Driving / Mobilisation of plant & equipment from site office to work site | Vehicle vs vehicle / vehicle vs pedestrian collision | Psychological and/or physical injuries Property damage | Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan | Site induction Traffic Management Plan SWMS JHA Take 5 Drivers must have a current full driver's license for the appropriate class of vehicle Compliance with road traffic laws Maintenance schedule for fleet vehicles Daily pre-start check. Defects to be reported to workshop to enable repairs Vehicle registration and insurance Fleet cars fitted with First Aid kit Segregated pedestrian walkways Site Speed Limit Limited parking of light vehicles on site | Major | Unlikely | 3 | М12 | | Site First Alders Site Medic Emergency Channel 39 | | |
| Loading / Unloading | Unrestrained / Incorrectly restrained Loads | Load shifting during transport causing damage to equipment, other vehicles, surrounding property, persons | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan 201074-SM-GUI-0001 SCEE Loading and Unloading Guidance Note SCEE-BS-HS-SWM-0022 Loading and Unloading of Material Plant and Equipment on Site | Prevent anyone from falling off trucks by fitted with gates where possible to provide fall | Major | Rare | 3 | M11 | | Site First Aiders Site Medic Emergency Channel 39 | | |
| SITE SET-UP & ACCESS | Disturbing cultural heritage | Unauthorised access or damage to potential items, sites or places of | SCEE-BS-HS-POL-0002 Environmental Policy | Land access enquiries - heritage items not anticipated to be encountered at this project location if any items of possible indigenous significance are discovered during construction, work is to | Major | Para | , | M11 | | Site First Aiders | | |
| Cultural Heritage | items or areas | potential items, sites or places of Aboriginal heritage | 201047-HE-PER-0002 Excavation Permit. | stop immediately and Project Manager to be contacted. Works will not recommence without the prior approval of the appropriate authority. Heritage trees to be marked and protected. | Major | Rare | 3 | M11 | | Site Medic Emergency Channel 39 | | |
| Weather Conditions | Adverse / Inclement Weather - Strong Winds / Lightning Flooding | Loose or flying materials. Lightning Strikes. Floods. Personal Injury Property Damage Environmental Impact | Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS | Monitoring BOM Conducting pre-forecasted storm weather reports Tie - down for equipment and materials. Storm water run-off in to designated detention basins. Communicate weather conditions to supervisors as per weather front details. 30 / 30 rule lighting detected on track within 10 kms of project area. Secure all plant and machinery on firm stable higher ground. Work front inspection prior to re-commencement where event had the ability to significantly change the work environment, at direction of site superintendent | Major | Unlikely | 3 | М12 | | Site First Alders Site Medic Emergency Channel 39 | | |
| Operation of mobile plant / equipment | Uncontrolled movement of plant being unloaded | Rollover / Struck by plant falling from ramps | Management Plan 201074-SM-GUI-0001 SCEE Loading and Unloading Guidance Note SCEE-BS-HS-SWM-0022 Loading and | Dedicated unloading area SWMS JHA Take 5 ROPS and FOPS where required Heavy duty rated loading amps Exclusion zone large enough for the risk during loading / unloading. Use cones / barricading to prevent access Use spotter during loading / unloading Ensure tracks aligned with ramp Operator scattlet/harness for plant that is not remote controlled Extra Spotter(s) where required in restricted areas | Severe | Unlikely | 4 | н17 | | Site First Alders Site Medic Emergency Channel 39 | | |
| Plant Operations / Adjacent to Bulk Earthworks | Work near earthwork mobile plant. | Interaction between construction personnel and earthworks/civil equipment | Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan | Windrows / Concrete Barriers to provide adequate separation and containment from earthwork mobile plant movements. No access into earthworks areas without Positive Communications between work groups. Restrict plant movements where access is required for entry into earthwork operations. | Severe | Rare | 4 | M13 | | SRe First Alders Site Medic Emergency Channel 39 | | |

| Crane Operations | Failed lift/Failing load Incorrect lifting equipment techniques/ swinging loads incompetent/ unificensed operators and dogmen/ riggers | Injury; Damage to plant and infrastructure | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-WIN-0026 Crane Activity (High Risk) WOP-SWP-022 Lifting equipment WOP-SWP-021 Mobile Crane SYN-PRC-HSA-006 Synergy Lifting Operations Procedure | No load be lifted over any personnel; Tag lines to be used on all lifts Exclusion zones exceted - Hard barricading with warning signs to be in place, only those involved in the works to enter; Laydown areas to be delineated with call up UHF Channel signs displayed at entry points Ensure level, stable ground for plant set up - crane pad design in place and adhered to; Esperienced, competent, HRMU personnel to perform lifts; '("N" class - Only nationally trained and accredited operators shall be authorised to use a Telehandler/IT Loader/Excavator with al jab Etachment that is greater than 3 tonnes; Dogger/ Rigger to inspect lifting gear prior to use and ensure load is within lifting capacity of the equipment, check load chart, ensure load is secured correctly All lifting equipment to be quarterly tagged and registered on Lifting Gear Register; Lift study/plan above 75% of crane rated capacity; Crane inspection and certificates; Plant premobilisation check; Plant risk assessment; Daily plant prestart checks; Complete Prelift Checklist for each crane setup; Monitor wind conditions; SWMS/ JSA | Severe | Unlikely | | н17 | Ste First Adders Sie Medic Emergency Channel 39 | |
|--|---|--|--|--|--------------|----------|---|-----|---|--|
| | Crane failure | Injury; Damage to plant and infrastructures | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-WIN-0026 Crane Activity (High Risk) SCEE-BS-HS-SWM-0019 General Mobile Crane Work WOP-SWP-022 Lifting equipment WOP-SWP-012 Mobile Crane VOP-SWP-012 Mobile Crane SVP-PC-HSA-006 Synergy Lifting Operations Procedure | Exclusion zones erected - Hard barricading with warning signs, only those involved in the task are to remain in the area; All cranes to be inspected for compliance before being sent to site; Annual Inspections; Crane Safe Servicing Inspections; Crane must be registered with WorkSafe; Crame must be registered with WorkSafe; Plant premobilisation check; Plant risk assessment; Daily plant prestart checks; SWMS/ JSA | Catastrophic | Rare | | н19 | Site First Aiders Site Medic Emergency Channel 39 | |
| | Crane rollover Crane Collision with infrastructure and other plant/ equipment | Injury; Damage to crane, equipment or infrastructure | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-WIN-0026 Crane Activity (High Risk) SCEE-BS-HS-SWM-0019 General Mobile Crane Work WOP-SWP-022 Lifting equipment WOP-SWP-012 Mobile Crane SYN-PRC-HSA-006 Synergy Lifting Operations Procedure | Compliance with load rating on crane; Use crane fitted with ROPS required by legislation or if required by task risk assessment; Crane must be fitted with an external load capacity indication light system; Set crane up on level surface, preferably utilising the saeled road/access way; Experienced personnel, competent, licensed; Inspect ground conditions for buried surfaces, recent excavations/backfill. Services Drawings if available; Ground conditions to be assessed, obtain geotechnical report where required; Confirm crane locations prior to lifts and ensure the operating radius does not cause any risk; Crane must be operated and maintained in accordance with the manufacturer's instructions; Annual Inspections/ Crane Safe Servicing Inspections and Inspection report; Person(s) in control of lift dogman/rigger; Use spotler to guide and assist; Dogger/ Rigger to ensure load is within lifting capacity of the equipment; Crane pads to be used as per application; Complete Prelift Checklist prior to use; SWMS/ JSA | Catastrophic | Rare | | н19 | Site First Aiders Site Medic Emergency Channel 39 | |
| | Operation of crane around or above personnel Load suspended over personnel Load coming in contact with personnel | Injury; | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-WIN-0026 Crane Activity (High Risk) SCEE-BS-HS-SWM-0019 General Mobile Crane Work WOP-SWP-022 Lifting equipment WOP-SWP-012 Mobile Crane SVP-PRC-HSA-006 Synergy Lifting Operations Procedure | No load be lifted over any personnel; Exclusion zones erected - only those involved in the works to enter; Experienced personnel, competent, licensed; Warning signs and barricading; Hand signal and line of sight/visual contact communication; UHF radios, Use spotter to guide and assist; Check wind conditions are safe; Certified and inspected lifting gear; Tag lines to be used; SWMS/ JSA; Take 5 | Severe | Unlikely | | н17 | Site First Aiders Site Medic Emergency Channel 39 | |
| Working in EWP (Boom Lift) | Fall from heights | Injury: | C2761-WHS-MP-001 WHS Management Plan WHS-SWP-004 Working at Heights WOP-REG-005 Working at Heights Equipment Register C2761-WHS-MP-002 Emergency Management Plan WHS-FM-022 HRW Rescue Plan (as required) | Keep limbs inside basket at all times; Wear fall arrest system and 100% hook up at all times (boom type EWP) Ensure EWP is on firm level ground; Underground services and infrastructure to be assessed to ensure that they do not compromise the stability of the EWP. Dropped Object Prevention - All equipment and tools shall be secured to prevent them falling from height, tool laryards shall be used. Personnel to possess HRWL-EWP when using boom type EWP where height of EWP exceeds 11 metres; Verification of competency for operator; EWP premobilisation check prior to mobilisation; ENV permobilisation check prior to mobilisation; ENV permobilisation check prior to mobilisation; Conduct daily prestart on EWP; Fall arrest equipment to be inspected before use and inspected/tagged quarterly; Working at Heights Equipment Register; Working at Heights Equipment Register; Working at heights Equipment Experime; Use spotter wholds HRWL-EWP - one spotter per machine; SWMS/JSA; No shark hooks for use on EWP, triple action karabiners / anchor point attachments shall be used | Major | Unlikely | | M12 | | |
| | Falling tools/ dropped objects | Injury: | C2761-WHS-MP-001 WHS Management Plan WHS-SWP-004 Working at Heights; WOP-RE-005 Working at Heights Equipment Register C2761-WHS-MP-002 Emergency Management Plan WHS-FM-022 HRW Rescue Plan (as required) | Exclusion zone around machine and actively managed drop zone under basket Use of tool lanyards/bags Ensure EWP is on firm level ground; Personnel to possess HRWL-EWP when using boom type EWP where height of EWP exceeds 11 metres; Conduct daily prestant on EWP; Working at heights permit; Use spotter who holds HRWL-EWP - one spotter per machine; SWMS/ JSA; Wear and carry appropriate PPE | Moderate | Unlikely | | M7 | | |
| TOOLS & COURTNESS THIS | Toppling over | injury; | C2761-WHS-MP-001 WHS Management Plan WHS-SWP-004 Working at Heights; WOP-REG-005 Working at Heights Equipment Register C2761-WHS-MP-002 Emergency Management Plan WHS-FM-022 HRW Rescue Plan (as required) | Wear fall arrest system and 100% hook up at all times (boom type EWP) Ensure EWP is on firm level ground; Periodical EWP maintenance checks to verify operation of safety cutouts Annual inspection of machine Personnel to possess HRW1-EWP when using boom type EWP where height of EWP exceeds 11 metres; Verification of competency for operator; EWP premobilisation check prior to mobilisation; Ensure EWP is used in accordance with manufacturer's specifications and log books are available; Conduct daily prestart on EWP; Fall arrest equipment to be inspected before use and inspected/tagged quarterly; Working at Heights Equipment Register; Working at Heights Equipment Register; Working at Heights permit; Use spotter who holds HRW1-EWP - one spotter per machine; SWMS/ JSA; Site Emergency Response Team to be notified of workers working at height Underground Services and Infrastructure assessed to ensure that they do not compromise the stability of the EWP. Approved working at heights rescue plan in place; Wear and carry appropriate PPE | Major | Unlikely | | M12 | | |
| TOOLS & EQUIPMENT USE | | | | | | | | | | |
| Use of electrical powered plant & equipment | t Electricity | Electrical shock | Energy Storage Project Health, | Double adaptors/ three-pin (piggy back) and other domestic multi-plug power boards are not permitted, (office environment may utilise multi-plug boards that are individually switched) Electrical leads tested and tagged Electrical leads inspected before use All power boards fitted with residual current devices (RCDs). Non-portable 30 mA RCD shall be fitted in all switchboards All portable outlet devices must include over current protection & 30mA RCD All portable RCDs are to be tested before use Extension leads shall not be joined (Daisy chained) together SWMS JHA Take 5 | Moderate | Unlikely | 2 | M7 | Site First Aiders Site Medic Emergency Channel 39 | |
| Use of High Pressure Water Equipment for exposing services | Stored energy | Injury to eye or skin cuts & abrasions | C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-PRO-0021 Trenching and Excavating (High Risk) | Excavation Permit. Only experienced persons in handling of the equipment to carry out high pressure water jetting operations Water jet not to be pointed at workers PPE - safety glasses, face shield, earing protection, safety boots and gloves Maintain minimum distance of 400mm between end of jet nozzle and subsoil or underground utilities Do not aim at underground utilities Max. 1500 PSI in or around underground utilities SWMS JHA Take 5 | Moderate | Unlikely | 2 | M7 | Site First Aiders Site Medic Emergency Channel 39 | |

| Use of vibrating tools and equipment | Vibration | Injuries caused by vibration & manual handling | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WEM-SWP-104 Noise, Dust and Vibration Management | Rotate tasks; Vibration resistant gloves; Scheduled maintenance & inspection of tooling; Manual handling technique awareness; JHA Take 5 | Moderate | Unlikely | 2 | M7 | Site First Alders Site Medic Emergency Channel 39 | | |
|---|--|--|--|---|--------------|----------|---|-----|---|-----------------|---------|
| Working with ladders | Slip/ fall from ladder | Injury | 201074-5E-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-WIN-0020 Portable Ladders WHS-SWP-004 Working at Heights; SYN-PRC-HAS-0010 Safe Work at Height Procedure | Fixed industrial single ladders are to be used for access only, no work to be carried out from these types of ladders; only platform ladders with back bar to be used for any type of work; inspect ladder before use and tagged quarterly; JHA Take 5; | Major | Unlikely | | M12 | Site First Alders Site Medic Emergency Channel 39 | | |
| Working with mobile scaffold | Slip / fall from scaffold Scaffold collapse | Injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-WIN-0004 Scaffolding Safety | Ensure scaffold is built in accordance with manufactureres instructions; Ensure footings are firm (compacted), and stable prior to building mobile scaffold Underground Services and Infrastructure is assessed to ensure that they so not compromise the stability of the Scaffold. Scaffold not to be constructed where there is a potential for ground slippage or errosion. All scaffolding must be erected by a person holding a High flisk Work Licence in Scaffolding; Scaffolding shall be inspected by competent person/Site Supervisor prior to use; SWMS/ JSA | | | | | | | |
| Hot works Cutting Welding Grinding | Dust & Noise | Injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-PRO-0015 Hot Work (High Risk) WOP-SWP-042 Hot Works SYN-PRC-FE-HSE-006 Hot Works Procedure | Shielding of grinding operations from other works; Screening of welding operations; Hot work permit; Only qualified personnel to use hot work apparatus; JHA, Take 5; Wear double eye protection when cutting and grinding; Wear ear protection/muffs plugs and protective gloves | Moderate | Unlikely | | M7 | Site First Aiders Site Medic Emergency Channel 39 | | |
| | Welding flash causing burns to body parts | Injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-PRO-0015 Hot Work (High Risk) WOP-SWP-042 Hot Works SYN-PRC-FE-HSE-006 Hot Works | Only qualified and trained personnel to use hot work apparatus; Check equipment before use; Exclusions zone, barricading, welding screens; JHA, Take 5; Welder to wear welding helmet, and welding gloves, safety glasses with side shields for spotter/fire watch; | Moderate | Unlikely | | M7 | Site First Aiders Site Medic Emergency Channel 39 | | |
| | Electric Shock | Injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-PRO-0015 Hot Work (High Risk) WOP-SWP-042 Hot Works SYN-PRC-FE-HSE-006 Hot Works | Welders to have VRD Fitted; Ensure gloves and PPE are dry; Ensure return lead is positioned as close to the work as possible; Handpiece to be held in hand when removing stubs and changing rods for MMAW; JHA, Take 5; | Moderate | Unlikely | | M7 | Site First Aiden Site Medic Emergency Channel 39 | | |
| | Fire/ explosion from this type of work being performed | Destruction of property; Destruction of flora and fauna; Injury or death to personnel or public | Procedure 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-PRO-0015 Hot Work (High Risk) WOP-SWP-042 Hot Works SYN-PRC-FE-HSE-006 Hot Works Procedure | Hot Works Permit; Maintain 10m exclusion zones from Hydrocarbon or flammable materials storage areas; JHA Take 5; Monitoring of DFES Fire Alerts; Daily fire danger rating to be communicated by Supervisor at pre-starts; Observe total fire bans unless exemption is granted and supported by risk assessment; Fire protection equipment on mobile plant and vehicles (fire extinguishers and/or knapsacks); Inspection & envicing of fire extinguishers; Equipment inspected before use; | Major | Unlikely | 3 | M12 | Ste First Alden Site Medic Emergency Channel 39 | Project Manager | Ongoing |
| MOBILE PLANT OPERATION Operation of mobile plant / equipment | Plant / equipment not maintained | Equipment failure Practical Completion (PC) date not met due to plant unavailability | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Erwironment Plan C2761-WHS-MP-001 WHS Management Plan | Service and maintain plant and equipment according to manufacturer's service and maintenance schedule; Maintenance logs maintained; Only qualified and competent persons to carry out the repairs, services and inspections; SWMS JHA Take 5 | Moderate | Unlikely | 2 | M7 | Site First Alders Site Medic Emergency Channel 39 | | |
| Operation of mobile plant / equipment | Hydraulic / oil spill | Release and impact to land / water | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan | Equipment pre-start; Spill kits; Personnel trained to use spill kits; Project Induction; SWMS JHA Take 5; | Moderate | Unlikely | 2 | M7 | Site First Aiden Site Medic Emergency Channel 39 | | |
| Operation of mobile plant / equipment EARTHWORKS | Work in proximity to mobile plant | Personnel and / or other plant struck by mobile plant | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan | Traffic Management Plan; Controlled exclusion zones established on site; (30/20/10) approach process for personnel and vehicles entering ito the work area of mobile plant; Positive communication to be established for any interaction between personnel and / or mobile equipment; Designated Pedestrian Walkways, segregated with fencing/crowd control barricade in high traffic areas; Licensed, qualified, competent operators; CMMK INA TAME 5: | Severe | Unlikely | 4 | H17 | Site First Alden Site Medic Emergency Channel 39 | | |
| EARTHWURSS Installation of underground services. | Underground services | Contact with underground utility (e.g. HP water, electricity) Damage to utility / equipment Injury or fatality Schedule delays from redesign | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-WIN-Trenching and Excavation (High Risk) WOP-SWP-081 Excavation 201074-SE-0004 Excavation Permit SYN-PRC-FE-HSE-014 Excavation and Penetration Works Procedure | Excavation Permit; Licensed plant operators; Project Manager to determine whether utility owner permits are required (e.g. WP Vicinity Access permits, Ja re- planning stage of every job; Pre-job JAH & SWMS (inc. MADs., potholing where appropriate); Pothole utilities within 2m of any excavation and at every entry and exit point for drilling; Use non-destructive digging tools only (e.g. shove), prodder, vacuum excavation); Maximum Water Jetting to 1500psi (100 bar) to avoid diamaging services; Work Scheduling and Planning before job is undertaken; Protect the utility once exposed; Water main to be supported at every connection or joint; Commence only when plan to execute work is clear & all services have been located; Maintain Minimum Approach Distances (MADs) (200mm min. from underground utilities) (Increase distance for HP, HV services per utility owner requirements); No trenches or excavated holes left open exposing services; | Moderate | Unlikely | 2 | M7 | Site First Aiden Site Medic Emergency Channel 39 | | |
| Working near overhead services | Overhead services | Contact with live power sources resulting in electrocution, electric shock, arc flash or burns Damage to service / network outages | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-85-HS-WIN-Trenching and Excavation (High Risk) WOP-SWP-081 Excavation 201074-SE-0004 Excavation Permit SYN-PRC-FE-HSE-014 Excavation and Penetration Works Procedure | Excavation Permit; Eliminate unloading zones under neath overhead services; Placement of overhead protection warning / barriers to MADs overhead services; SWMS JHA Take 5; HV Vicinity Permit (Western Power); Per-job JHA incorporating any overhead hazards; Maintain MADs; Spotter mandatory; Licenced, qualified and competent operators; | Catastrophic | Rare | 5 | Н19 | Site First Aiders Site Medic Emergency Channel 39 | | |

| | | | 201074-SE-PLN-001 Collie Battery | | | | | | | |
|--|---|--|---|---|----------|----------|---|-----|---|--|
| Vegetation Management | Land / tree disturbance | Tree damage, death or destabilisation | Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan C2761-WEM-MP-001 Environmental Management Plan SCEE-BS-HS-WIN-Trenching and Excavation (High Risk) WOP-SWP-081 Excavation 201074-5E-0004 Excavation Permit SYN-PRC-FE-HSE-014 Excavation and Penetration Works Procedure | Exclusion Zone around trees; SWMS JHA Take 5; Avoid disturbance wherever possible; | Moderate | Unlikely | 2 | М7 | | |
| Excavations and Trenches | Open excavation | Injury to personnel and equipment damage by falling into excavations Collapse of trench, falling plant or personnel Damage to nearby fences / structures Collapse of road | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-WIN-Trenching and Excavation (High Risk) WOP-SWP-081 Excavation 201074-SE-0004 Excavation Permit SYN-PRC-FE-HSE-014 Excavation and Penetration Works Procedure | Excavation Permit; Barricading and signage; Excavation to be closed as soon as possible; Check stability of buildings, roads or structures that may be affected by the excavation before starting work; Do not place loads near edge of the excavations where there is a potential of load falling into excavation; Barricade to be set back 500mm from edge of trench; Rodesign alignment to move away from side of trench; Rodesign alignment to move away from fence line; If personnel are required to enter excavation: - Excavation planned to be < 1.5m where possible; - No tools/equipment left unattended within 1m of excavation edge where is risk of falling onto people below; - Examination of excavation integrity by a competent person before entry; - Any excavation that is over 1.5m must have either shoring, battering of the side of the trenches or/and trench walls stepped down; SWMS JHA Tabe 5 | Major | Unlikely | 3 | M12 | Site First Aiders Site Medic Emergency Channel 39 | |
| Flora Fauna Interaction | Flora & Fauna | Trapped fauna resulting in injury or death to fauna | JUDIO ASSE-PLAN-DUI Collie Battery, Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan C2761-WEM-MP-001 Environmental Management Plan SCEE-BS-HS-WIN-Trenching and Excavation (High Risk) WOP-SWP-081 Excavation 201074-SE-0004 Excavation Permit SYN-PRC-FE-HSE-014 Excavation and | Contact Principal local authorities / qualified competent fauna handler to remove injured fauna; inspect trenches/ excavations for trapped fauna prior to starting work; Where excavations open out of hours Fauna ramps every 15 meters; Backfill as soon a practicable; Project to report any injury caused to fauna to Synergy SHEQ team; | Moderate | Unlikely | 2 | М7 | Site First Alders Site Medic Emergency Channel 39 | |
| HEALTH & HYGIENE Outdoors work | UV radiation exposure Exposure to extreme | Heat-related illness | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan | Air-conditioning fitted to vehicles, can be used as refuge; Adequate provision of water; Portable shade made available; | Moderate | Unlikely | 2 | M7 | Site First Aiders Site Medic | |
| | temperature (heat) | Skin cancers | C2761-WHS-MP-001 WHS Management Plan 201074-SE-PLN-001 Collie Battery | PPE - surscreen, UV rated long clothing, sunglasses, hard hat brim; Hydration monitoring during warm months; JHA Take S; Use mechanical aids and additional manpower for heavy loads; | | | | | Emergency Channel 39 | |
| Hazardous manual tasks | Sprains and strains | Musculoskeletal injury | C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-PRO-0006 Manual Handling | Ose interlained and said adoubted in imagines to iteraty floating. Clear and accessible work area allowing for safe movement of people, equipment and materials; Manual handling induction site induction; Employ correct manual handling techniques at all times; Warm up/stretching activities; Raise awareness at site induction and toolbox meeting toolbox meeting/ daily prestart; JHA, Take 5; Regular checks on PPE; Wear appropriate PPE e.g. Safety boots, gloves, Safety glasses etc. | Major | Unlikely | 3 | M12 | Site First Aiders Site Medic Emergency Channel 39 | |
| | Cuts, Abrasions & Lacerations | Injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-PRO-0006 Manual Handling WHS-SWP-801 Manual Handling | Keep hands/feet/fingers clear of line of fire at all times; Clear and accessible work area allowing for safe movement of people, equipment and materials; Manual handling component of site induction; correct manual handling techniques; Raise awareness at toolbox meeting/ daily prestart; JHA, Take 5; Regular checks on PPE; Wear appropriate PPE e.g. Safety boots, gloves, Safety glasses etc. | Moderate | Unlikely | | M7 | Site First Aiders Site Medic Emergency Channel 39 | |
| | Crush-pinch points | Injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WH5-MP-001 WH5 Management Plan SCEE-BS-HS-PRO-0006 Manual Handling WHS-SWP-801 Manual Handling | Keep hands/feet/fingers clear of line of fire at all times; Clear and accessible work area allowing for safe movement of people, equipment and materials; Manual handling component of site induction; Correct manual handling techniques; Raise awareness at toolbox meeting/ daily prestart; HA, Take 5; Regular checks on PPE; Wear appropriate PPE e.g. Safety boots, gloves, Safety glasses etc. | Moderate | Unlikely | | M7 | Site First Aidern Site Medic Emergency Chânnel 39 | |
| Dangerous Goods & Hazardous Chemicals - Storage, Handling and Transport | Hazardous materials contacting workers or released to environment | Adverse impact on worker health Adverse environmental impact, contamination of soil, groundwater, or transfer of contaminated material to river following rain event | Management Plan C2761-WEM-MP-001 Environmental | Correct storage facilities; All decanted chemicals are to be appropriately labelled and stored in containers that are fit for use; Spill Mc; Roport all spill incidents immediately; Roport-Mo01 Daily housekeeping inspection; WEM-FM-002 Weekly Environmental inspection; WEM-FM-003 bornthy site inspection; Housekeeping; Align with 505 requirements for storage, use, PPE and cleanup; Hazardous Chemicals Rigk Assessments (no 'red-rated' chemicals in use); Quantities of hazardous chemicals are classified as 'minor storage'; Hand washing facilities available; First aid kit available; | Moderate | Unlikely | | M7 | Site First Alders Site Medic Emergency Chânnel 39 | |
| Site Work | Noise (environmental) | Noise, light and vibration emissions during construction works. Nuisance to Stakeholders | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-PRO-009 Noise Control and Hearing Protection WEM-SWP-104 Noise, Dust and Vibration Management | Approved normal construction hours within Synergy Operation Hours; Hearing protection in proximity to operating plant; Task rotation; JHA/Take 5; | Moderate | Unlikely | 2 | M7 | | |
| Site Work | Extreme wind or environmental work conditions | Injury from windborne dust, loose objects, | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WEM-SWP-104 Noise, Dust and Vibration Management | Supervisors and SHEQ to review and monitor BoM for expected extreme weather and wind conditions; Loose materials to be secured to prevent flying particles or objects; When storm force wind levels present risk of injury to workers construction manager shall identify alternative work areas shall be identified, i.e. in workshops, offices, buildings, switchyards; AS/NZS 1336 Eya and face protection to be worn. This may include over goggles if works are to proceed in work environments where flying particles cannot be controlled by isolation or engineering controls; | Moderate | Unlikely | 2 | M7 | Site First Aiders Site Medic Emergency Channel 39 | |
| Provision of Medic services | exposure to pathogens | infection of personnel through contact with infected bodily fluids or airborne pathogen | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan 201074-SM-PRO-002 Medical Services and First Aid | Qualified and competent personnel; Processes used by medic to follow established best practice in disease prevention; Medical room equipped with disinfectant; Regular cleaning of medical room and equipment; Use of disposable, single use supplies; PPE - disposable surgical masks, examination gloves, disposable smock; | Moderate | Unlikely | | M7 | Site First Alders Site Medic Emergency Channel 39 | |
| Site Work | Fatigue | Event and/or injury resulting from worker fatigue | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan Mental Health Policy WHS-POL-003 WHR-POL-001 Fitness for Work Policy; WHR-PR-001 Fitness For Work Procedure SCEE-BS-HS-PRO-0025 Fatigue Management SCEE-OP-OP-TEM-0021 Worker Fatigue Checklist | Mandatory rest period of 10 hours before next shift; Rostered break amongst site personnel where applicable; Task rotation where required; Site Supervisor to monitor and ensure the workers stay hydrated; Site Supervisor to observe for symptoms of fatigue; Raise awareness on fatigue at induction and toolbox meetings & daily prestart meeting; Fatigue management covered in JHA where relevant; Fatigue Checklist; | Major | Unlikely | | M12 | Site First Alders Site Medic Emergency Channel 39 | |
| Site Work | Mental Health | Health issues | | Mental Health First Aider available; Employee Assistance Program (EAP) available; Site induction cover mental health; Site Supervisor to observe symptoms of fatigue/Stress /Burnout; Management ensures structure of shifts and rosters are compliant withs site management plan, correct shift rotations etc; Peer on peer monitoring; | Major | Unlikely | | M12 | Site First Aiders Site Medic Emergency Channel 39 | |

| Site Work | Psychosocial Risk | Illness; Injury; Distress | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan Mental Health Policy WHS-POL-003 | Mental Health First Aider available; Employee Assistance Program (EAP) available; Site induction to cover mental health; Maintain Regular Communication; Well-being checks; Provide opportunity for skills development; Ensure workers know where they can get help from; Supportive leadership skills (pone door); Promote positivity; Foster a culture of transparency, openness, respect and equity; Provide workers with ways to report issues and raise concerns; Provide workers with ways to report issues and raise concerns; Provide positive feedback and acknowledgement; Ensure communication systems and emergency procedures are developed and in place; Reward and Recognition program in place; Cero tolerance of aggression towards workers; | Major | Unlikely | | M12 | Site First Aiders Site Medic Emergency Channel 39 | |
|--------------------|--|--|--|---|----------|----------|---|-----|---|--|
| GENERAL | | | | | | | | | | |
| Site Work | Simultaneous Operations (e.g. work around other trades) | Impact to other works | SIMORS | Daily communication / consultation with stakeholders; Communication between work groups; SCEE Project Manager to resolve priority access if required; JHA, Take 5; | Moderate | Unlikely | 2 | М7 | Site First Alders Site Medic Emergency Channel 39 | |
| Site Work | COVID-19 | Contraction of COVID-19 from other workers | Safety and Environment Plan | Comply with Mandated Government Procedures; Provision of hand wash facilities / sanitiser; Only trained personnel to conduct drug and alcohol testing; | Moderate | Unlikely | 2 | М7 | Site First Aiders Site Medic Emergency Channel 39 | |
| Site Work | Smoking | Personnel contracting disease from exposure to passive smoke | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan SCEE-BS-HS-POL-005 Non Smoking Policy | Smoking in designated smoking areas only; No smoking or vaping on wider construction site; | Minor | Unlikely | 1 | 12 | Site First Aiders Site Medic Emergency Channel 39 | |
| WASTE MANAGEMENT | | | | | | | | | | |
| Waste Disposal | Site waste entering waste stream in uncontrolled manner | Wastage of recyclable goods, contamination of waste streams, electricity consumption | Management Plan | Project Induction; Segregated Waste Bins; All waste removed from site; Scrap metal, PVC, general and recycling skip bin(s) to be made available; | Moderate | Unlikely | 2 | М7 | Site First Alders Site Medic Emergency Channel 39 | |
| | | Controlled waste entering local environment, breach of legislation | | Segregation and labelling of controlled waste; Disposal of waste using licenced controlled waste contractor; | Moderate | Unlikely | | М7 | Site First Alders Site Medic Emergency Channel 39 | |
| EMERGENCY | | | | | | | | | | |
| Emergency Incident | Fire, explosion, medical emergency, utility strike, Hazchem spill / release, severe weather, bomb threat, intruder | Personal injury or fatality | C2761-WHS-MP-001 WHS Management Plan | Emergency Management Plan; Trained First Alders; Site medic and medical room; Scheduled servicing and inspection of emergency and firefighting equipment; First aid kits vailable; Natural ventilation for fuel and Hazchem storage areas; Emergency WA RSS feed monitored by SHEQ department; Drills / testing frequency as per Emergency Drill Schedule. Formal effectiveness review following each evacuation (drill or actual); Water cart with Lannoon to he maintained on en on site at all times | Moderate | Unlikely | 2 | М7 | Site First Alders Site Medic Emergency Channel 39 | |

| Register Type Project(s) Approved by Task / Activity | Project Risk Register CBESS BOP Hazard | Risk (un-wanted event) | Systems Policy, Plans & Procedures | Controls | Consequence | Likelihood | Calc. | Residual Risk / Impact | Accept or Rejec |
|--|--|--|--|---|-------------|------------|-------|------------------------|-----------------|
| Installation of Undergrou | nd Sanvicas | | Toney, hand a rioccounce | | | | | | |
| Use of laser level | | Eye injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan | Elimination Never look directly into the laser beam or point the beam into the eyes of others. Engineering The maximum radiant power output of laser is less than 5mW; Set the laser at a height that prevents the beam from shining directly into others' eyes; Administrative. Train personnel to use the equipment; Do not remove any warning signs from the laser inform all nearby crews of operations about to take place. | Moderate | Unlikely | | M7 | |
| Noise, dust and vibration from plant and equipment operations | Excessive noise, dust and vibration from construction works - earthwork, excavation, compaction, plant movement, stockpiling etc. | Air pollution affecting vegetation, widdife and health of people (exposure injuries); Complaints on excessive noise, vibration and pollution; Legal non-compliance | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan CZ761-WEM-MP-001 Environmental Management Plan WEM-SWP-104 Noise, Dust and Vibration Management | Isolation Exposed surface to be minimised Expineering Use watercart if dust is excessive; Construction equipment selected, operated and maintained to minimise noise impacts and where necessary Intel with noise suppressing device; Administrative Implement and adhere to Environmental Management Plan; Work within designated working hours; Provider respite periods for high noise generating activities; Strenuous activities shall be rotated between workgroup team members where required and feasible; Regular maintenance of plant; Plant premobilisation checks; Plant risk assessments; Daily plant prestart checks; Awareness training will be provided during the site induction; Conduct weekly environmental inspections Community laison with stakeholders through notifications where required; ISA PPE Wear and/or carry correct and required PPE as signposted (dusk masks, ear plugs, ear muffs); Class S ear plugs and hearing protection shall be used as a minimum | Moderate | Unlikely | | M7 | |
| Jse of Franna/ Tele/ rane/Excavator for oading/Unloading | Failed lift, Falling load/ equipment rollover, Incorrect lifting equipment/techniques, Swinging loads, collision with other plant/equipment Incompetent/unlicensed operators, dogmen or riggers. | Injury, Damage to plant and infrastructures. | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan CZ761-WH-5M-001 WHS Management Plan WOP-SWP-021 Lifting equipment WOP-SWP-012 Mobile Crane SCEE-BS-HS-WN-0026 Crane Operations (High Risk) SCEE-BS-HS-WN-0027 Forklift Telehandler (High Risk) SCEE-BS-HS-PRO-0027 5 Star Commitment | Emmanon No load to be lifted over any personnel at any time. Engineering Follow load rating on plant, Use equipment fitted with ROPS required by legislation or if required by task risk assessment, Crane must be fitted with an external load capacity indication light system, Set laydown area on level surface. Ground conditions and underground services/ infrastructure to be surveyed/ assessed to ensure that they do not compromise the cranes stability Underground services and infrastructure surveyed/assessed to ensure that they are not compromised by the crane set up. Isolation Exclusion zones exceed - delineation/barricading with warning signs to be in place, only personnel involved in the lift/works be allowed to enter, Laydown areas to be delineated with call up IJHF Channel signs displayed at entry points. Administrative Only licensed, ticketed, VOC'd and experienced personnel, CN'class-Only anionally trained and accredited operators shall be authorised to use a Telebandler/TL Loader with a jib attachment that is greater than 3 tonnes, Dogman or rigger to inspect lifting gear prior to use and ensure load is within lifting capacity of the lifting equipment, check load chart and ensure load is correctly slung and secured, All lifting equipment, check load chart and ensure load is correctly slung and secured, All lifting equipment, check load chart and ensure load is orrectly slung and secured, All lifting equipment is one quarterly tagged and registered on Lifting Gear Register, LIFT study/sland below 75% of crane rated capacity, Crane inspection and certificates, | Major | Unlikely | | M12 | |

| Installation of Undergroun | T | | | | | | | | |
|--|---|---|--|--|----------|----------|----------|---|--|
| Use of laser level | Damage to eyesight | Eye injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan | Elimination Never look directly into the laser beam or point the beam into the eyes of others. Engineering The maximum radiant power output of laser is less than 5mW; Set the laser at a height that prevents the beam from shining directly into others' eyes; Administrative. Train personnel to use the equipment; Do not remove any warning signs from the laser Inform all nearby crews of operations about to take place. | Moderate | Unlikely | М7 | Site First Alders Site Medic Emergency Channel 39 | |
| Noise, dust and vibration from plant and equipment operations | Excessive noise, dust and vibration from construction works - earthwork, exavation, compaction, plant movement, stockpling etc. | Air pollution affecting vegetation, wildlife and health of people (exposure injuries); Complaints on excessive noise, vibration and pollution; Legal non-compliance | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WEM-MP-001 Environmental Management Plan WEM-SWP-104 Noise, Dust and Vibration Management | Isolation Exposed surface to be minimised Engineering. Use watercart if dust is excessive; Construction equipment selected, operated and maintained to minimise noise impacts and where necessary fitted with noise supressing device; Administrative Implement and adhere to Environmental Management Plan; Work within designated working hours; Provide respite periods for high noise generating activities; Strenuous activities shall be rotated between workgroup team members where required and feasible; Regular maintenance of plant; Plant premobilisation checks; Plant risk assessments; Daily plant prestart checks; Awareness training will be provided during the site induction; Conduct weekly environmental inspections Community ilaison with stakeholders through notifications where required; JSA PPE Wear and/or carry correct and required PPE as signosted (dusk masks, ear plugs, ear muffs); Class 5 ear plugs and hearing protection shall be used as a minimum | Moderate | Unlikely | М7 | Site First Alders Site Medic Emergency Channel 39 | |
| Use of Franna/ Tele/ Crane/Excavator for Loading/Unloading | Failed lift, Failing load/ equipment rollover, Incorrect lifting equipment/techniques, Swinging loads, collision with other plant/equipment incompetent/unlensed operators, dogmen or riggers. | Injury, Damage to plant and infrastructures. | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan CZ761-WHS-MP-001 WHS Management Plan WOP-SWP-021 Lifting equipment WOP-SWP-021 Lifting equipment WOP-SWP-012 Lifting equipment CSCE-ES-HS-WN-0026 Crane Operations (High Risk) SCEE-BS-HS-WN-0027 Forklift Telehandler (High Risk) SCEE-BS-HS-PRO-0027 5 Star Commitment | Elimination No load to be lifted over any personnel at any time. Engineering Follow load rating on plant, Use equipment fitted with ROPS required by legislation or if required by task risk assessment, Crane must be fitted with an external load capacity indication light system, Set laydown area on level surface. | Major | Unlikely | M12 | Site First Alders Site Medic Emergency Channel 39 | |
| Use of Telehandler to move and place culverts | Failed lift, Failing load/ equipment rollover, Incorrect lifting equipment/techniques, Swinging loads, collision with other plant/equipment incompetent/unicensed operators, dogmen or riggers. | Injury, Damage to plant and infrastructures. | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan CZ761-WHS-MP-001 WHS Management Plan WOP-SWP-012 Lifting equipment WOP-SWP-012 Lifting equipment SCEE-BS-HS-WIN-0026 Crane Operations (High Risk) SCEE-BS-HS-WIN-0027 Forklift Telehandler (High Risk) SCEE-BS-HS-PRO-0027 5 Star Commitment | Engineering Ensure level, stable ground for plant set up - stable surface to be verified by compaction test; All lifting equipment has been inspected on arrival to confirm it has been tested and certified by the manufacturer or a testing authority accredited by NATA; Ensure use of positive closure fittings (e.g.; shackles, hooks, etc) to prevent detachment from load while lifting. Administrative Trained, competent HRWL personnel to perform lifting activities (craneage & Dogging/Rigging); CN* class (for non-slewing telehandler) or C2 (for slewing) - Only nationally trained and accredited operators shall be authorised to use a Telehandler/IT Loade/Exavator, fitted with a jib attachment that combined have a capacity of greater than 3 tonnes; Dogger / Rigger to inspect lifting gear prior to use and ensure load is within lifting capacity of the equipment, check load chart, ensure load is secured correctly; All lifting equipment to be quarterly tagged and registered on Lifting Gear Register; Uff study/plan developed where lifting above 75% of crane rated capacity or where lifts classed as medium or critical; Crane inspection and certificates completed and available on site; Plant risk assessment available in telehandler; Daily plant prestart checks; Complete Prelift Checklist daily; Monitor wind conditions at all times, where necessary lifting activities to cease; | Major | Unlikely | Unlikely | Site First Alders Site Medic Emergency Channel 39 | |
| | Dropped Loads during lifting and/or transport | Injury, Damage to plant and infrastructures. | Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-022 Lifting equipment WOP-SWP-022 Lifting equipment WOP-SWP-012 Mobile Crane SCE-B-SH-SWN-0026 Crane Operations (High Risk) SCE-B-SH-SWN-0027 Forklift Telehandler (High Risk) SCE-B-SH-SPRO-0027 5 Star Commitment | Elimination No load be lifted over personnel; Isolation Euclusion zones erected - Hard barricading with warning signs to be in place, only those involved in the works to enter; Dogment/riggers to guide loads using tag lines; Dual taglines to be used, where necessary, when landing culverts into trench to control the load dogman in trench and dogman above trench; Personnel shall ONLY touch a suspended load to move into final position, ensuring the load is as close to the ground as possible Engineering Rubber magnetic strips to be placed on fork tynes prior to transporting culverts from laydown to work area. | Major | Unlikely | Unlikely | | |
| | Telehandler Fallure | Injury, Damage to plant and infrastructures. | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan CZ761-WHS-MP-001 WHS Management Plan WDP-SWP-022 Lifting equipment WDP-SWP-022 Lifting equipment WDP-SWP-012 Mobile Crane Operations (High Risk) SCEE-85-HS-WIN-0027 Forklift Telehandler (High Risk) SCEE-85-HS-PS-WIN-0027 5 Star Commitment | Equipment which is not deemed ht for purpose during onooxiraing inspections shall not be used until approved for site; Equipment which is not deemed fit for purpose during daily prestart inspections shall not be used until defects are rectified Administrative All equipment/plant to be inspected for compliance before being sent to site; Annual inspections / Crane Safe Servicing Inspections where applicable; Telehandler must be registered with Worksafe (where being used as a crane); Operator to complete Prelift Checklist daily; Plant risk assessment; Dolly plant prestart inspection | Major | Unlikely | Unlikely | Sile First Alders Sile Medic Emergency Channel 39 | |
| | Working/ transport of culverts in the vicinity of other work crews/ unauthorised personnel in area | Injury, | | Isolation Exclusion zones erected - Hard barricading (around BESS) with warning signs to be in place, only those involved in cubert crew to enter cubert installation work area; Delineation via hard barricading between cubert work crew and earthworks crew when working within the same BESS work area; Movement of cuberts from laydown to BESS work areas shall be staggered to ensure minimal interaction with cubert delivery crew; Movement of cuberts from laydown area to work area shall remain in barricaded/ cone delineated areas; Administrative Contractor Cubert Work area call up UHF Channel signs displayed at entry points; Gate Call up for cubert movements to be numbered and signposted; Telebandler transporting cuberts shall have right of way at all times - to be reiterated at prestart meeting; Traffic Movement Plan in place and adhered to | Moderate | Unlikely | Unlikely | Site First Alders Site Medic Emergency Channel 39 | |
| | Poor Manual Handling/ pinch points | Injury, | SCEE-BS-HS-WIN-0026 Crane Operations (High Risk) SCEE-BS-HS-WIN-0027 Forklift Telehandler (High Risk) SCEE-BS-HS-PRO-0027 5 Star | Substitution Use mechanical aids and/or additional manpower for heavy loads; Engineering Packers to be taped to previous culvert prior to dropping in following culvert; Administrative Employ correct manual handling techniques at all times; Clear and accessible work area allowing for safe movement of people, equipment and materials; ISA; Take 5; Regular checks on PPE PPE Wear appropriate PPE e.g. Safety boots, gloves, Safety glasses etc. | Moderate | Unlikely | Unlikely | Site First Aiders Site Medic Emergency Channel 39 | |
| Use of Mobile Plant | Faulty plant | Injury; Damage to plant | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan Safe work procedures on various plant Plant & Equipment Register | Engineering. ROPS, lights, beacons, radios as per site requirements; Administrative. Only operators with correct tickets and in date VOCs to complete daily plant prestart; Plant premobilisation check prior to use on site; Plant risk assessment; Regular maintenance of plant; Establish Plant & Equipment Register; Measuring and testing equipment are calibrated; Sale work procedures on various laint. Isolation Esculsion zone using Flagging/ hard barricading/ windrows Engineering. ROPS, lights, beacons, radios as per site requirements | Major | Unlikely | M12 | Site First Aiders Site Medic Emergency Channel 39 | |
| | Collision with or reversing into personnel/ other plant/ wehicle | Injury; Damage to plant | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan | Administrative Competent, licensed/ticketed, operators; Daily prestart check of plant; Hand signal and line of sight/visual contact communication; | Severe | Unlikely | H17 | Site First Alders Site Medic Emergency Channel 39 | |
| | Toppling over/ Rollover | Injury; Damage to plant | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan | hoots. Isolation Delineation of Plant operations in place via barricading/ windrows etc Plant shall not operator Engineering Follow load rating on plant; Ground conditions to be level and smooth as practicable at all times free of obstructions Administrative Administrative | Severe | Unlikely | H17 | Site First Aiders Site Medic Emergency Channel 39 | |

| | Incompetent operator | Injury; Damage to plant | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan | Administration Competent, licensed/ticketed, operators: Operator to be in control of plant at all times; Operator shall only commence operating plant after instruction to do so by supervisor; Operator's manual available in plant for reference; Safe work procedures on various plant made available to operators | Severe | Rare | M13 | Site First Aiders Site Medic Emergency Channel 39 | |
|------------|--|--|--|--|----------|----------|-----|---|--|
| | Falling load | Injury; Damage to plant | 201074-5E-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan | Isolation Exclusion one using Flagging/ hard barricading/ windrows around work area Do not lift or suspend load over any person Engineering Use plant fitted with FOPS required by legislation or if required by task risk assessment; Administrative Competent, licensed, operators; Load to be slung by Dogman/rigger, Drive to conditions at all times; Warning signs; Hand signal and line of sight/visual contact communication; Use spotter to guide and assist; SWMMS/JSA, PPE Wear appropriate PPE e.g. hard hat | Severe | Rare | M13 | Site First Aiders Site Medic Emergency Channel 39 | |
| | Plant on fire | Injury; Damage to plant | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan | Administrative. Fire extinguisher on plant; Regular maintenance of plant; Plant premobilisation check prior to use on site; Plant risk assessment; Daily prestart check of plant | Major | Unlikely | M12 | Site First Aiders Site Medic Emergency Channel 39 | |
| | Slip, trip or fall while using plant or in vicinity of plant | Injury | 201074-5E-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan | Isolation Remove any objects that may obstruct personnel E.g. build-up of mud on steps. Engineering Ground conditions to be level and smooth as practicable at all times; Remove or stack neatly in a safe location all unwanted material from area Administration (Climb in and out of cab and not jump down from the cab; Always maintain 3 points of contact when climbing; SWMS/JSA, Take 5 PER | Major | Unlikely | M12 | Site First Aiders Site Medic Emergency Channel 39 | |
| | Hydrocarbon | Hydrocarbon spill from mobile plan (including crane, telehandler, earthmoving equipment) entering environment and/or Collie River | 201074-5E-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2762-WH5-MP-001 WH5 Management Plan SCEE-BS-HS-WIN-0021 Hazardous Materials Handling and Storage | Wear correct EDF Spill kit, on plant where practicable; Regular maintenance of plant; Plant premobilisation check prior to use on site; Plant risk assessment; Daily prestart check of plant; Should a hydraulic leak develop, stop using the plant as soon as safe to do so and remove from service; Use of absorbent pads/sausages if required; | Moderate | Unlikely | M7 | Notification of event to Synergy Environmental Representative as soon as possible | |
| | Excessive noise & vibration & emission | Fauna disturbance; Public nuisance & complaints; Health risk to personnel; Structural damage to buildings | 201074-5E-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan | reguar inspection and maintenance of plant; Work within designated working hours; Plant risk assessment; Daily prestart check of plant PPE | Major | Rare | M11 | Site First Aiders Site Medic Emergency Channel 39 | |
| Excavation | Damage to existing services | Damage to services; Injury; | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-031 Excavation; WOP-SWP-031 Excavation; Underground and Overhead Services | Competent Operators to complete the works; | Major | Rare | M11 | Site First Aiders Site Medic Emergency Channel 39 | |
| | Excavation collapse; | Injury; Engulment; Infrastructure damage; | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan CZ761-WHS-MP-001 WHS Management Plan WOP-SWP-081 Excavation | EMMACY ITS EXTERNIER WITE Battering where required; Battering where required; Shoring where required; Use of Trench boxes for drainage excavations where required Temporary Works Design undertaken based on geotechnical information and the intended use of trench boxes; Trench boxes to be installed as per the engineered design requirements, as detailed in the Temporary Works Design; Should a change be required to the design or installed system, works shall cease and reassessment shall be undertaken in consultation with the Temporary Works Designer Administrative. No placing of material, plant and loads near the edge of excavation; Spoils not placed closer than 1.5m to edge of trench; Conduct regular excavation inspection by competent person i.e. Engineer or Site Supervisor; Trench box system shall be detailed on up-to-date drawings/plans; The persons who install and remove the ground support system shall be competent, and have awareness of the suppliers proprietary ground support system (Mabey product user guide); The shoring system shall be verified as correctly installed prior to use by a competent person, in accordance with the Temporary Works Design; When changes to the design or installed system are made, changes must be authorised and signed off by a competent person. Competent Operators to complete the works; | Major | Rare | M11 | Site First Aiders Site Medic Emergency Channel 39 | |
| | Slip and fall into excavation | Injury: | 201074-5E-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-081 Excavation | Elimination Back fill excavations as soon as practical; Personnel to remain away from excavation edge at all time; Trench boxes, where used, to be fitted with hand rails and shall exceed ground level where possible Isolation Ensure where trench boxes do not exceed ground level, hand rails are installed Errect windrows / hard barricading around excavation – outside the excavation zone of influence 1V:1H (no less than 600mm where this is not possible) Engineering. Safe means of ingress and egress - cut away steps, ladder, ramp Use of designated access platform and ladder system for trench box when applicable, alternatively use of access / egress ramp with trench box. Administrative Errect signage - EXCAVATION at entry point of excavation and along for approaching vehicles/ plant/personnel; Conduct regular excavation inspection by competent person i.e. Engineer or Site Supervisor; SWMS/JSA | Major | Rare | Mii | Site First Alders Site Medic Emergency Channel 39 | |
| | Plant/Vehicle reversing into excavation | Injury; Infrastructure damage; Damage to plant | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan (22761-WHS-MP-001 WHS Management Plan WOP-SWP-081 Excavation | Isolation Erect bunting/windrows/hard barricades around excavation; Machinery restricted from working too close to trench (1.5 from edge); Machinery restricted from working inside the excavation zone of influence 1V:1H, (no less than 600mm where this is not possible); Administrative. Brisure sporter in place where necessary; Conduct regular excavation inspection by competent person i.e. Engineer or Site Supervisor Competent Operators to complete the works; SWMS/JSA; | Major | Rare | M11 | Site First Aiders Site Medic Emergency Channel 39 | |
| | Person working in excavation crushed | Injury; | 201074-5E-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan (22761-WHS-MP-001 WHS Management Plan WOP-SWP-081 Excavation | Safe means or ingress and ogress-ladour, ramp, cut away steps Administration Competent Operators to complete the works; No one is to enter an open excavation > 1.5m deep unless excavation approved by a qualified person; Excavation inspected and approved by a competent person as safe to work in; Daily excavation inspection completed by Engineer/ Site Supervisor; SWMS/JSA PPE Wear appropriate PPE | Major | Rare | Mii | Site First Aiders Site Medic Emergency Channel 39 | |
| | Person working in excavation being struck by falling object/plant | Injury: | 201074-5E-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-081 Excavation | Engineering Double action movement to release bucket, avoiding accidental release Isolation Erect bunting/windrows/hard barricades around excavation; Personnel/spotter MUST not approach excavator unless bucket is on ground Administrative Loads must not be lifted, suspended or moved over a person under any circumstances; Spotter at ground level to monitor work activity and control work area in communication with operator; Competent Operators to complete the works; SWMS/JSA PPE Wear correct PPE | Major | Rare | M11 | Site First Aiders Site Medic Emergency Channel 39 | |
| | Unexpected encounter of contaminated material while excavating e.g. asbestos | Health risk; Environmental risk | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WDP-SWP-031 Excavation WHS-SWP-5009 Asbestos | Engineering Erect Flagging/ barricading around unexpected contaminated material | Minor | Unlikely | M7 | Site First Aiders Site Medic Ernergency Channel 39 | |

| | | | 201074-SE-PLN-001 Collie Battery | Administrative | | | | |
|--|---|--|--|--|----------|----------|----------|---|
| | Stock pile control (dust and erosion) | Air pollution affecting vegetation, wildlife and health of people; Complaints; Legal non-compliance | Energy Storage Project Health, Safety and Environment Plan WEM-SWP-104 Noise, Dust and Vibration Management | Awareness training win be provided ourner use site induction; Area to be regularly sprayed with water via water truck to minimise air borne dust, Weekly environmental inspections and result of inspections recorded on WEM-FM-002 Weekly Environmental Inspection Checklist | Moderate | Unlikely | M7 | Site First Aiders Site Medic Emergency Channel 39 |
| | Fauna falling into excavation/ entrapment | Fauna distress, injury or death from becoming trapped and/or exposed; Legal non-compliance | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WEM-MP-001 Environmental Management Plan | Elimination Excavations to be backfilled as soon as possible; Engineering Permanent egress devices, such as ramps, should be installed to allow for the unimpeded movement of fauna into/out of the excavation; Administrative Adhere to Environmental Management Plan; Insocctions of the excavation for fauna undertaken daily prior to work commencement | Minor | Unlikely | L2 | Site First Alders Site Medic Emergency Channel 39 |
| | Excavation during wet season/ saturated materials | Excavation collapse; Injury; Delays | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan CZ761-WHS-MP-001 WHS Management Plan WOP-SWP-081 Excavation | Administrative Conduct daily excavation inspection by competent person i.e. Engineer or Site Supervisor; Where risk has been identified post rain/ inclement weather no works in excavation to occur. Work area to be deemed safe by Sie Supervisor prior to recommencement of work, Ticketed & VOCd Operators to complete the works; SWMS/JSA | Major | Unlikely | M12 | Site First Aiders Site Medic Emergency Channel 39 |
| Working near or around water | Person falling into water body | Drowning Hypothermia | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan SCEE-BS-HS-PRO-0023 Working Over or Near Water | Engineering Barricading to be established where necessary Bouyancy alid provided at waters edge Administrative Work area to be deemed safe by Site Supervisor prior to commencement of work, Spotter to monitor work activity at all times SWMS / JHA Elimination | Major | Unlikely | Unlikely | Site First Alders Site Medic Emergency Channel 39 |
| | Tools, materials and or equipment falling into water body | Environmental risk Delays Equipment damage | and Environment Plan | Tools, materials and equipment to be securely stored away from waters edge as far as resonably practicable Regineering Barricading to be established where necessary Tools, materials and equipment to be securely stored away from waters edge as far as resonably practicable Waterlogged tooling / equipment to be tagged out and inspected for integrity before recommissioning Administrative Work area to be deemed safe by Site Supervisor prior to commencement of work, Spotter to monitor work activity at all times | Moderate | Unlikely | Unlikely | Site First Alders Site Medic Emergency Channel 39 |
| Hydrostatic Testing of pipework and associated componenets | Equipment failure / pipe, pipe joint failure | Personal injury Equipment damage | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan | Testing equipment to be tested before use Exclusion zone to be established before test commencement No personnel to be in test area while testing is underway Administrative Work area to be deemed safe by Site Supervisor prior to commencement of work, Spotter to monitor work activity at all times SWMIS / JHA | Severe | Unlikely | Unlikely | |
| | Unauthorised entry into test area | Personal injury | | Barricading / Signage Notice of test to be issued prior to test commencement Radio broadcast of test 30 minutes prior to test commencement | Moderate | Unlikely | Unlikely | |
| Civil Works (Form Work & Co | ncreting) | | | Administrative Training in safe working procedure on concrete pumping: | | | | |
| | Concrete splash over a wide area | Injury; Environmental contamination | and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-031 Concrete Construction | Provide supervision by competent person; Correct position and set up of boom pump. Prior to Boom Pump set up an assessment of Infrastructure and underground sevices required to ensure that they do not compromise the stability of the boom pump Clear communication to be maintained between truck driver, concreter or pump operator; During cleaning, remove all reducers and the rubber hose from the delivery line; Regular maintenance and inspection of equipment; Follow the concrete pumps manufacturer's guidelines | Moderate | Unlikely | М7 | Site First Alders Site Medic Emergency Channel 39 |
| | Burn on skin if contact with wet concrete | Injury; Irritation | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-031 Concrete Construction 201074-SE-PLN-001 Collie Battery | Isolation. Only those directly involved in concreting should be in the work area Administrative. Training in safe working procedure on concrete pumping: Provide supervision by competent person PEE. Wear suitable PPE i.e. Safety boots, trousers, long sleeve Isolation. | Moderate | Unlikely | M7 | Site First Alders Site Medic Emergency Channel 39 |
| | Concrete splash to eye | Injury; Irritation | | Only those directly involved in concreting should be in the work area Administrative. Training in safe working procedure on concrete pumping: Provide supervision by competent person; PEE Wear suitable PPE i.e. Safety glasses; Eve wash station (disposable bottles) located at site office Refer to Manual Handing. Section 14.4 | Moderate | Unlikely | М7 | Site First Alders Site Medic Emergency Channel 39 |
| | Manual handling injuries | Injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-031 Concrete Construction | Substitution Where required/feasible, use of laser screed for large area concrete pours Administrative. Regular maintenance and inspection of equipment; Training in safe working procedure on concrete pumping; Manual handling awareness during site induction and toolbox; Provide supervision by competent person; Employ correct manual handling techniques at all times; Task stretching, warm up; Task 5; PEE | Major | Unlikely | M12 | Site First Alders Site Medic Emergency Channel 39 |
| | Ear damage & hand arm vibration syndrome | Injury | WEM-SWP-104 Noise Dust and Vibration Management | Engineering Use modern equipment with reduced vibration e.g. vibration resistant handles PPE Wear appropriate PPE | Major | Rare | M11 | Site First Aiders Site Medic Emergency Channel 39 |
| | Concrete cutting | Injury; Irritation | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-071 Manual Handling | Refer to Manual Handling - Section 14 Substitution Use mechanical aids and additional manpower for heavy loads Administrative. Employ correct manual handling techniques at all times; Clear and accessible work area allowing for safe movement of people, equipment and materials; Raise awareness at site induction and toolbox meeting: Take 5 PDE Wear appropriate PPE e.g. Safety boots, gloves, Safety glasses etc. | Major | Unlikely | M12 | Site First Aiders Site Medic Emergency Channel 39 |
| | Grinding concrete fill around conduit entrance to culvert | Injury; Irritation to respiratory tract | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-071 Manual Handling WEM-SWP-104 Noise Dust and Vibration Management | Substitution Use mechanical aids and additional manpower for heavy grinding tasks Administrative Employ correct manual handling techniques at all times; Clear and accessible work area allowing for safe movement of people, equipment and materials; Raise awareness at site induction and toolbox meeting; Take 5 PPE Wear appropriate P2 classification respirator, gloves and double eye protection along with normal site PPE when performing grinding task | Moderate | Possible | Possible | Site First Aiders Site Medic Emergency Channel 39 |
| | Plant accident | Injury; Death; Damage to plant | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan | Regular maintenance and inspection of plant & equipment; Ensure concrete pump operator is competent; Clear communication to be maintained between truck driver, concreter or pump operator; Ensure work area is accessible for concrete truck; Follow the concrete pumps manufacturer's guidelines; PPE Wear appropriate PPE | Major | Unlikely | M12 | Site First Aiders Site Medic Emergency Channel 39 |
| | Early Morning Pours Poor Visibility, Fatigue | Injury; Damage to plant | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan 201074-SE-PLN-001 Collie Battery | Engineering Sufficient lighting to be supplied at pour area; Temporary lighting to be setup by dayshift prior to works Administrative Day shift to ensure all areas and access are clear before changeover early morning crew come to site; Ensure good housekeeping dispose waste and stow equipment safely, Sufficient Traffic Management to be in place prior to pour commencement (inclusive of reflective posts and lighting), Falling up on night shift is not permitted fuelling up will be done by the day shift, Fatieus management to be on proine and monitozed by Site Supervisor/ HSE Ardvisor: | Moderate | Unlikely | M7 | Site First Aiders Site Medic Emergency Channel 39 |
| | Working with reinforcement | Manual task injury; Scratches or cuts to body | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WHS-SWP-304 Concrete Slab Construction | Place protective caps over exposed ends of vertical and starter bars; Administrative Obtain assistance to handle heavy or awkward lengths and sheets; Adopt ergonomically sound position; PE Wear long sleeved shirts and pants; Wear approved type sloves | Moderate | Unlikely | M7 | Site First Aiders Site Medic Emergency Channel 39 |
| | Walking on rebar | Injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WH5-MP-001 WHS Management Plan WHS-SWP-304 Concrete Slab Construction | Isolation Place protective caps over exposed ends of vertical and starter bars; Engineering Installation of Safety mesh above 220x220 SQ Administrative Walk on the top bars of the prepared mat PPE Wear Safety footwear | Major | Unlikely | M12 | Site First Aiders Site Medic Emergency Channel 39 |
| | Placing Reinforcement | Injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-071 Manual Handling | Refer to Manual Handling - Section 14 Substitution Use mechanical aids and additional manpower for heavy loads; Administrative. Manual handling induction site induction; Take 5; Employ correct manual handling techniques at all times; Clear and accessible work area allowing for safe movement of people, equipment and materials; Raise awareness at site induction and toolbox meeting PPE Wear appropriate PPE e.g. Safety boots, gloves, Safety glasses etc. | Major | Unlikely | M12 | Site First Aiders Site Medic Emergency Channel 39 |

| Ben | nding reinforcement | Injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-071 Manual Handling | Elimination Ensure machine is indoors, is completely dry and is not operated in wet or damp conditions Substitution Use mechanical aids and additional manpower for heavy loads Isolation All bending work should be conducted indoors Engineering Mount and secure machine on level surface capable of carrying the weight of the machine Administration Inspect the machine before each use Training in how to safely operate the machine Ensuring to not attempt to bend rebar outside of the manufacturer's specification PEE Eye protection glasses Eye protection glasses Wear approved gloves Class 2 hearing protection | Moderate | Unlikely | M7 | Site First Aiders Site Medic Emergency Channel 39 | |
|--------------------------------------|---------------------|--------|---|--|----------|----------|----|---|--|
| Cut Batch Plant Setup and Operation | tting Reinforcement | Injury | 201074-SE-P.N-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-071 Manual Handling | Substitution Use battery operated/cordless grinder; Cutting disc thinner then 1.5mm must not be used; Isolation Shielding of grinding operations; All cutting work must not be conducted near any ignition sources; Administration Hot work permit; Tool handle must be attached; Use of fire spotter if required with the provision of firefighting equipment i.e. 9KG extinguisher; Assess wind conditions; Check equipment before use PPE Double eye protection (glasses and face shield); Wear approved gloves | Moderate | Unlikely | M7 | Site First Aiders Site Medic Emergency Channel 39 | |

| | | | | Isolation Access and egress to batch plant to be maintained at all times; Works are to be appropriately delineated/barricaded; | | | | |
|--|--|---|--|--|----------|----------|-----|---|
| | Position water and admixture Tanks Placement and positioning of Batch hut and associated Offices and crib buildings | Manual handling: moving/ install of tanks/ drums Availability of Mechanical Lifting equipment Untrained / unskilled personnel Poor install/set up resulting in trip hazards and/or dropped objects | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan | Locate tanks/pallets and hose away from frequently used areas or if possible bury hoses underground No personnel to work/ be under suspended loads Engineering Ground to be appropriately compacted for required operations; Obtain assistance or the use of mobile plant to move tanks into position; Allow enough room for access by mobile plant to fill tanks or replace drums Administrative Correct manual handling and lifting techniques; Spotter to be utilised as required; Only ticketed/ VOC/ operator to be used; Operator to inspect ground prior to mobilising equipment to a new task area; Correct tool to be used for manual handling/ hammering tasks; Signage in place outlining single entry point to area of excavation which is controlled by the operator or spotter; Inspection of areas for loose rock, fauna or similar prior to entry; All task documentation to detail equipment roll-over specific emergency response plan; Task specific IsA to be utilised for vehicle/plant recovery PEE Wear appropriate PPE at all times; Wear gloves when handling pipe/hose | Major | Unlikely | М12 | Site First Alders Site Medic Emergency Channel 39 |
| | Connection of Batch Plant | Electrocution/ Stored energy | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan | Ensure earth stakes inserted and connected. All electrical connection points are plug in Administration Check all leads, plugs and switch's for damage in transit before connecting; Licensed Electrician for connection to Generator; Licensed Electrician to conduct earth leakage test's, submit documentation for authorisation; Pre-start check on Gen set before starting; Check for correct operation of electrical items singularly; Ensure appropriate SCEE isolation permits/training in place prior to set up | Moderate | Unlikely | М7 | Site First Aiders Site Medic Emergency Channel 39 |
| | Exposure to hazardous Materials & Thermal Heat | Admixture: from previous job in hoses. Environmental (spills) | 201074-5E-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan | Engineering Allow water to run before filling tanks. (Beware of Hot water from taps and hoses if not used for a period of time): Administrative Do not drink the water from hoses and tanks at the plant unless tested and deemed to be safe e.g. potable water; Ensure residue admixture removed from line - Flush admixture hoses with water before demobilisation of plant PPE Gloyes are to be worn whilst handline hoses Engineering. | Moderate | Unlikely | M7 | Site First Aiders Site Medic Emergency Channel 39 |
| | | Personnel or other workers nearby in the workspace exposed to hazardous chemicals such as volatile vapours, furnes, airborne hazard particulates Personnel exposed to hot motors, exposed flames, flashback, hot fluids likely to cause burns or scalds. High ambient temperature work environments | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan | All portable machinery and equipment shall be regularly maintained to help reduce high noise, vibration, temperature and dust levels Administrative. SDS's are to be available for all admixtures brought and used onsite. SDS to be stored in site office for batch plant specific chemicals Chemical storage and use in accordance with SDS First aid kit (and suitability) trained personnel to be at immediate work area All chemicals to be bunded or stored appropriately Adequate stocked and maintained spill kits to be at immediate work area Work areas to be have adequate ventilation Heat and Hydration to be monitored/ discussed at pre-start and toolboxes ISA/SWMS/ Take S, Emergency Response Plan involving spills | Moderate | Unlikely | M7 | Site First Alders Site Medic Emergency Channel 39 |
| | Washout of agitator truck and control of waste concrete | Environmental damage cause by incorrect control of waste concrete | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Emvironment Plan C2761-WHS-MP-001 WHS Management Plan | Appropriate DBE utilized a a paperodiste adouse D3 dout mark Isolation Work area assigned by SCEE and Westforce Construction; Concrete pump truck to be washed out at designated are at pour site; Bunded area plastic lined set up for washout near to the pour site; Site drainage to be set up in accordance with site environmental licence; All sediment laden runoff to be captured Administrative Excess concrete to be used as blinding and/or removed by Hanson to Gelorup quarry, to be recycled and reused for road base material. Environmental Management Plan | Moderate | Unlikely | M7 | Site First Alders Site Medic Emergency Channel 39 |
| Civil Works (Form Work & Co | ncreting) | | | Elimination | | | | |
| Formwork Erection (traditional formwork) | Sustain injury whilst installing/cutting formwork | Injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-031 Concrete Construction; WHS-SWP-305 Formwork; | Ensure that wooden formwork is free of nails etc. before handling: Ensure that timbre is free of concrete, dirt etc. before cutting Isolation Ensure clear and accessible work area allowing for safe movement of people, equipment and materials Substitution. Use mechanical aids and additional manpower for heavy loads Engineering. Use correct tools Install personnel access/egress steps or ramps Administrative. Raise awareness at site induction and toolbox meeting; Obtain assistance to handle heavy or awaward lengths and sheets; Adopt ergonomically sound position; Take 5; Refer to 'Manual handling' - Section 14 PPE. | Moderate | Unlikely | M7 | Site First Alders Site Medic Emergency Channel 39 |
| | Formwork collapse before and after loading | Injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan W0P-SWP-031 Concrete Construction; WHS-SWP-305 Formwork; | <u>Isolation</u> Establish exclusion zone where formwork is to be erected | Major | Unlikely | M12 | Site First Alders Site Medic Emergency Channel 39 |
| Formwork Dismantling (traditional formwork) | Formwork collapse | Injury; Death | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-031 Concrete Construction; WHS-SWP-305 Formwork: | Administrative. Inspection by Project Engineer before dismantling: Dismantling to be carried out by competent persons | Major | Unlikely | M12 | Site First Aiders Site Medic Emergency Channel 39 |
| | Sustain injury while dismantling formwork | Manual task injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-031 Concrete Construction; WHS-SWP-305 Formwork; | Isolation Establish exclusion zone where formwork is to be dismantled Engineering Use correct tools Administrative Obtain assistance to handle heavy or awkward lengths and sheets; Adopt ergonomically sound position; PPE Wear appropriate PPE i.e. hard hat, Safety boots, Safety glasses, gloves | Major | Unlikely | M12 | Site First Alders Ste Medic Emergency Channel 39 |
| | Formwork collapse | Injury; Death | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WUP-SWP-031 Concrete Construction; WHS-SWP-305 Formwork; | Where mechanical aid (crane) needed to remove formwork pans, adhere to controls listed in section 11: Crange & Rigging Administrative Formwork to be designed & certified by Formwork Designer; Formwork to be inspected by Project Engineer before the formwork is loaded, after loading and after repairs to formwork are made; Erection and stripping to be carried out by competent personnel; Erection and dismantling to be systematically carried out in accordance with manufacturer's or designer's instructions. | Major | Unlikely | M12 | Site First Alders Site Medic Emergency Channel 39 |
| | Slip, trip or fall from height | Injury; Death | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan C2761-WHS-MP-001 WHS Management Plan WOP-SWP-031 Concrete Construction; WHS-SWP-305 Formwork; | Isolation | Major | Unlikely | M12 | Site First Alders Site Medic Emergency Channel 39 |
| | Sustain injury while installing/dismantling formwork | Manual task injury | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan CZ761-WHS-MP-001 WHS Management Plan WUP-SWP-031 Concrete Construction; WHS-SWP-305 Formwork; | Weer anoronoiste PPE is eaferty horst and hard hat Refer to Manual Handling - Section 14 Isolation Establish exclusion zone where formwork is to be installed/dismantled Engineering Use correct tools; Mechanical aid used where required; Adopt erponomically sound position Administrative Obtain assistance to handle heavy or awkward lengths and sheets; PPE | Major | Unlikely | M12 | Site First Alders Site Medic Emergency Channel 39 |

| Register Type Project(s) Approved by | Project Risk Register CRESS BOP Y | | | | | | | | | | |
|--|--|---|--|---|-------------|------------------|------------------------|------------------|---|-----------------------------|-------------|
| Task / Activity | Hazard | Risk (un-wanted event) | Systems Policy, Plans & Procedures | Controls | Consequence | Likelihood Calc. | Residual Risk / Impact | Accept or Reject | Recommended Additional Controls | By Whom Person to Action | Target Date |
| Cable Installation | | | 201074-SE-PLN-001 Collie Battery | | | | | | | | |
| Installation of cable tray in culverts | Fall from height | | Energy Storage Project Health, Safety and Environment Plan SCEE-BS-HS-PRO-0017 Working at Height (High Risk) SYN-PRC-HSA-0010 Safe Work at Height Procedure 201074-SE-PLN-001 Collie Battery | Barricade / exclusion of personnel from proximity to culvert edge Signage Use of dedicated crossing points with engineered solution to cross culverts Dedicated process for entry to, and egress from, culverts HA, Take 5 Good housekeeping practices, removal of equipment and materials not required out of the culvert area Star Inspections | Major | Unlikely | M12 | | Site First Aiders Site Medic Emergency Channel 39 | | |
| | Sharp edges | cuts/lacerations | Energy Storage Project Health, Safety and Environment Plan SCEE-83-HS-PRO-0013 Personal Protective Equipment SCEE-BS-HS-GUI-0004 SCEE Minimum PPE Matrix SCEE-BS-HS-GUI-0005 SCEE Electrical Glove Matrix | PPE- correct gloves used to mitigate task hazard JHA, Take 5 Star Inspections | Moderate | Unlikely | М7 | | Site First Aiders Site Medic Emergency Channel 39 | | |
| | Restricted work area | pinch points/restricted space resulting in hand or finger injuries/abrasions Debris left in bottom of culvert Dust and / or debris blown from culvert into eyes | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan SCEE-BS-HS-PRO-0013 Personal Protective Equipment SCEE-BS-HS-GUI-0004 SCEE Minimum PPE Matrix | Awareness of line of fire situations PPE- correct gloves used to mitigate task hazard Foam backed goggles to be worn when work in culverts is to be carried out Good housekeeping practices, requiar cleaning of culverts to remove debris Good housekeeping practices, removal of equipment and materials not required out of the culvert area JHA, Take 5 | Moderate | Unlikely | м7 | | Site First Alders Site Medic Emergency Channel 39 | | |
| | Uneven ground/walking over existing cable tray | musculoskeletal injury, rolled ankle, slip/trip | Energy Storage Project Health, Safety and Environment Plan SCEE-BS-HS-PRO-0006 Manual Handling SCEE-BS-HS-PRO-0013 Personal Protective Equipment | Minimise culvert access where possible, essential personnel only Work planning - sequencing and staging of work to reduce scope of impact JHA, Take 5 Use of dedicated crossing points with engineered solution to cross culverts Good housekeeping practices, removal of equipment and materials not required out of the culvert area Star Inspections PPE - well fitted boots, laced correctly to provide ankle support | Major | Likely | ніѕ | | Site First Aiders Site Medic Emergency Channel 39 | | |
| Installation of conduits around culverts | Hand tool / PVC pipe cement usage while assembling conduit | Cuts / Abrasions | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan SCEE-BS-HS-PRO-0006 Manual Handling SCEE-BS-HS-PRO-0013 Personal Protective Equipment SCEE-BS-HS-GUI-0004 SCEE Minimum PPP Matrix SCEE-BS-HS-GUI-0005 SCEE Electrical Glove Matrix | Correct PPE to be worn when cutting conduit - Cut 5 gloves Correct Gloves as per SDS when using PVC pipe cement Ensure absorberm that is under conduit to collect spills / drips when joining conduit with PVC pipe cement Pre task stretches and regular breaks while assembling conduit | Moderate | Unlikely | MG | | | | |
| | Fall from height | Fall into culvert resulting in injury | and Environment Plan SCEE-BS-HS-PRO-0017 Working at Height (High Risk) SYN-PRC-HSA-0010 Safe Work at Height Procedure | Barricade / exclusion of personnel from proximity to culvert edge Signage Use of dedicated crossing points with engineered solution to cross culverts Dedicated process for entry to, and egress from, culverts JHA, Take 5 Good housekeeping practices, removal of equipment and materials not required out of the culvert area Star inspections | | | | | | | |
| | Heavy lifts on uneven slippenground | Sharp Edges | PPE Matrix SCEE-BS-HS-GUI-0005 SCEE Electrical | 2 person / mechanical lifts if required Se aware of surroundings Pre Task lift assessment Pre task stretches / warm up HA/ Take 5 Clear work area before task commencement, good housekeeping practices Correct PPE to be used - Cut 5 gloves when lifting | | | | | | | |
| | Hand tool usage whilst securing conduits in place | Musculoskeletal injury - strain / strains from installing star pickets and lifting Slips / Trips / Rolled Ankles Cuts / abrasions to hands from hand tool usage Sharp edges on conduit and wooden supports Noise from impact driver | Clous Matrix 201074-SE-PIN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan SCEE-BS-HS-PRO-0006 Manual Handling SCEE-BS-HS-PRO-0013 Personal Protective Equipment SCEE-BS-HS-GUI-0004 SCEE Minimum PPE Matrix SCEE-BS-HS-GUI-0005 SCEE Electrical | Awareness of line of fire situations - Know where your hands are Use star picket driver to install star pickets - Wear impact rated gloves Correct PPE (cut 5) when handling objects with sharp edges JHA, Take 5 Star inspections Ear plugs to be worn in noisy environments Good housekeeping practices, removal of equipment and materials not required out of the work area | | | | | | | |
| Installation of electrical equipment | Heavy equipment | musculoskeletal injury - strain | Glove Matrix 201074-SE-PIN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plain SCEE-BS-HS-PRO-0006 Manual Handling SCEE-BS-HS-PRO-0013 Personal Protective Equipment SCEE-BS-HS-GUI-0004 SCEE Minimum PPE Matrix SCEE-BS-HS-GUI-0005 SCEE Electrical Glove Matrix | Use lifting aids/mechanical lifting equipment Team lifts Pre-task lift assessment Task stretching, warm up HA, Take S Good housekeeping practices, removal of equipment and materials not required out of the work area prior to installing equipment Star Inspections | Major | Unlikely | M12 | | Site First Aiders Site Medic Emergency Channel 39 | | |
| Installation of cable in tray | Sharp edges | cuts/lacerations Wind borne dust and debris blown from culvert into eyes | Energy Storage Project Health, Safety and Environment Plan SCEE-BS-HS-PRO-0013 Personal Protective Equipment SCEE-BS-HS-GUI-0004 SCEE Minimum PPE Matrix SCEE-BS-HS-GUI-0005 SCEE Electrical Glove Matrix | PPE- correct gloves used to mitigate task hazard cable ties to be cut such that sharp edges are not present Foam backed goggles to be worn when work in culverts is to be carried out IHA, Take 5 Star Inspections | Moderate | Unlikely | M7 | | Site First Aiders Site Medic Emergency Channel 39 | | |
| Cable pulling with winch | Stored Energy Over-tensioning cable | Stored energy release Plant interaction Personal injury Over-tensioning of cable Damage to cable Damage to equipment | Energy Storage Project Health, Safety and Environment Plan SCEE-BS-HS-NWN-0022 Cable Pulling Work Instruction SCEE-BS-HS-PRO-0013 Personal Protective Equipment SCEE-BS-HS-GUI-0004 SCEE Minimum PPP Matrix SCEE-BS-HS-GUI-0005 SCEE Electrical Glove Matrix | Barricade off area of work - exclusion of unauthorised person Use non energy storing pull rope when winching Drum set up on level ground and barricade. Signage Guards to be in place as per manufacturers specifications Suitably qualified personnel to secure pulling equipment where required JHA & Take 5 Plant operated as per manufacturer's recommendations, Spotter in place Inspect condition of cable connection prior to use. Works are not to commence until the cable connection has been inspected by the Supervisor. Personnel to stay clear of inside bends while cable pulling. Stay on outside Communication - radio communication/hand signals, VSD Winch - CTO Follow VSD work procedure PPE: Impact rated gloves, hard hat, safety glasses Star inspections | Major | Unlikely | M12 | | Site First Alders Site Medic Emergency Channel 39 | | |
| Cable Termination Work in RMUs | large, heavy cables with low flexibility Sharp edges | musculoskeletal injury - strain cuts/lacerations | 201074-SE-PIN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan SCEE-BS-HS-PRO-0006 Manual Handling SCEE-BS-HS-PRO-0013 Personal Protective Equipment SCEE-BS-HS-GUI-0004 SCEE Minimum PPE Matrix SCEE-BS-HS-GUI-0005 SCEE Electrical Glove Matrix | Team lifts Pre-task lift assessment Good hink assessment Good house with a season and the season are good housekeeping practices, removal of equipment and materials not required out of the work area prior to installing equipment No open bladed knives, use of specialist cable stripping tools Star inspections | Major | Possible | иза | | Site First Aiders Site Medic Emergency Channel 39 | | |
| | Awkward, restricted access / | Cuts/ Lacerations | 201074-SE-PLN-001 Collie Battery | Footings condition to be assessed as suitable prior to entry Access to RMU footing to be provided via ramp and fixed ladder Personnel in footings to wear lifting harness for retrieval in case of medical emergency | Major | Holibak. | M12 | | | | |
| Working inside RMU footings | egress | Awkward egress In case of medical emergency | Energy Storage Project Health, Safety and Environment Plan | Personnel rescue via inertia reel / rescue reel plus crane in vicinity to assist if needed Spotter to be present at all times personnel are working in footings | iviājūř | Unlikely | M12 | | | | |
| | Trapped Fauna | Injury to personnel Damage to equipment Injury to Fauna | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan | Condition of footings to be assessed prior to entry Report all fauna interactions to supervision Synergy environmental team to be advised if fauna discovered in distress | Major | Possible | н14 | | | | |
| Working Inside RMU | Awkward, restricted access / egress | Musculoskeletal injury - strains, sprains Cuts/Lacerations Awkward egress in case of medical emergency | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan | RMU internal condition to be assessed as suitable prior to enrty Access to RMU to be provided via ramp and fixed ladder Personnel in RMU to wear lifting harness for retrieval in case of medical emergency Personnel rescue via inertia reel / rescue reel plus crane in vicinity to assist if needed Spotter to be present at all times personnel are working in RMU | Major | Unlikely | M12 | | | | |

| | Large, heavy cables with low flexibility Sharp edges Cramped working conditions | Musculoskeletal injury - strain cuts/lacerations | 201074-SE-PLN-001 Collie Battery Energy Storage Project Health, Safety and Environment Plan SCEE-BS-HS-PRO-0006 Manual Handling SCEE-BS-HS-PRO-0013 Personal Protective Equipment SCEE-BS-HS-GUI-0004 SCEE Minimum PPE Matrix SCEE-BS-HS-GUI-0005 SCEE Electrical | Team lifts Pre-task lift assessment Good manual handling technique, task stretching/warm up JHA, Take 5 Good housekeeping practices, removal of equipment and materials not required out of the work area prior to installing equipment No open bladed knives, use of specialist cable stripping tools Star Inspections | Major | Possible | н14 | | |
|-------------------------------------|--|---|---|---|----------|----------|-----|--|--|
| | | | Glove Matrix | | | | | | |
| Work in Substations | | | | | | | | | |
| Substation entry | Energised equipment | Unauthorised Access to substation Electric Shock | | To be revised prior to substation energisation | | | | | |
| Working with Batteries | | | | | | | | | |
| Working with batteries | Energised Equipment | Personnel injury from electric shock and / or arc flash Equipment damage | | Out of service tags to be placed on the open battery breaker at the bottom of each of the five battery banks Detached connector lead to be removed from the container and secured in offices Battery bank container doors to be locked and keys secured in office lock box | Moderate | Unlikely | M7 | | |
| | High fault current | Arc Flash | | To be revised pending final battery design as supplied | | | | | |
| Installation of final battery links | High fault current | Electric Shock Battery Short Fire Equipment Damage | | To be revised pending final battery design as supplied, and determination of commissioniong process | | | | | |
| | | | | | | | | | |
| Testing and Commissioning | | | | | | | | | |
| Commissioning | High Voltage (>480 Volts) | Interaction with high voltage electricity resulting in injury to personnel. | | To be revised prior to commissioning | | | | | |
| Commissioning | AC 110-480 Volts | Interaction with low voltage electricity resulting in injury to personnel. | | To be revised prior to commissioning | | | | | |



Refer to MYOSH Modules for Actions, or Continuous Improvement and management & tracking

| Carry dat | a forward fror | n RO Register | This data needs to be entered | | | | | | | | | | | |
|-----------|------------------------|---------------|-------------------------------|--------|-------------|----------|----------------|--|--|--|--|--|--|--|
| Ref No. | Opportunity or Risk | Title | Date Action Raised | Action | Responsible | Due Date | MYOSH Action # | | | | | | | |
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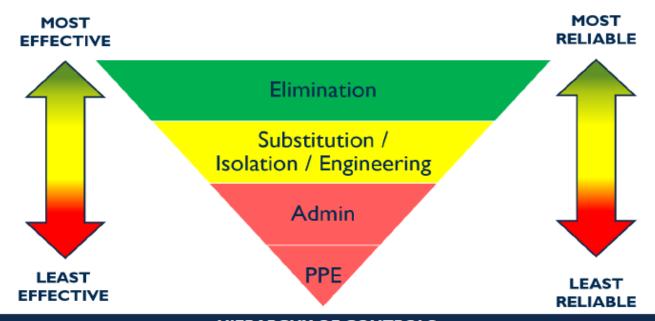
| | | | CONSEQUENCE | | | | | | | |
|----------------|----------|-----------|-------------|-------------|--------------|--|--|--|--|--|
| LIKELIHOOD | Minor | Moderate | Major | Severe | Catastrophic | | | | | |
| Almost Certain | Medium 6 | Medium 10 | High 16 | Critical 21 | Critical 25 | | | | | |
| Likely | Low 4 | Medium 9 | High 15 | Critical 20 | Critical 24 | | | | | |
| Possible | Low 3 | Medium 8 | High 14 | High 18 | Critical 23 | | | | | |
| Unlikely | Low 2 | Medium 7 | Medium 12 | High 17 | Critical 22 | | | | | |
| Rare | Low 1 | Low 5 | Medium 11 | Medium 13 | High 19 | | | | | |

| | | | Consequence | | |
|--------------------------------|--|---|--|---|--|
| | Minor | Moderate | Major | Severe | Catastrophic |
| Safety and Health | First aid injury/illness. | Medical treatment injury/illness. | Lost time injury/illness < 2 weeks. | Lost time injury/illness > 2 weeks and/or permanent impairment. | Fatality or multiple serious injuries/illnesses. |
| Environment | Localised event with no impact to an area of low environmental significance. Recovery – <1 week Remediation - Cosmetic | Low level localised impact to an area of low environmental significance. Recovery – 1 week to 6 months Remediation – Easy | Significant surrounding area impact and/or impact on area of environmental significance. Recovery – 6 months to 1 year Remediation - challenging | Serious widespread impact and/or impact on area of environmental significance. Recovery – 1 to 10 years Remediation - uncertain reversibility | Extensive permanent & irreversible impact on widespread area and/or area of environmental significance, Recovery – More than 10 years Remediation - irreversible |
| Financial | < \$2,000 impact. | \$2,000 - \$20,000 impact. | \$20,000 - \$750,000 impact. | \$750,000 - \$5M impact. | >\$5M impact |
| Reputation and Community | Individual complaint; no media coverage | Multiple related complaints; short term local media attention | Coordinated communication of community concerns and complaints; Ongoing adverse local media attention; Client intervention | Loss of trust and credibility with community, client, industry and/or government; Extensive adverse media coverage | Widespread long term loss of trust and credibility with community, client, industry and/or government; Government intervention |
| Compliance | No legal issue, but breach of company policies and procedures | Legal issue, breach of regulation or breach of contract | Legal breach which is reportable to regulatory authority; Penalties for breach; contract or operations suspension | Significant penalties or undertaking for breach; serious litigation, employee imprisonment; contract termination; loss of certifications (e.g. SHEQ) | Extensive penalties; director or officer imprisonment; loss of operating licence, multiple contract terminations |

| Likelihood | | | | | |
|-------------------|--|--|--|--|--|
| Almost certain | Expected to occur regularly under normal circumstances. Could occur weekly. | | | | |
| Likely | Expected to occur at some time. Could occur monthly. | | | | |
| Possible | May occur at some time. Could occur annually. | | | | |
| Unlikely | Not likely to occur in normal circumstances. Could occur more than annually but less than 10 yearly. | | | | |
| Rare | Could occur in exceptional circumstances or once in 10 years. | | | | |

| Risk Matrix | | | | | | | |
|---------------------|-------------|-----------|-----------|-------------|--------------|--|--|
| | CONSEQUENCE | | | | | | |
| | Minor | Moderate | Major | Severe | Catastrophic | | |
| Almost Certain | Medium 6 | Medium 10 | High 16 | Critical 21 | Critical 25 | | |
| Likely | Low 4 | Medium 9 | High 15 | Critical 20 | Critical 24 | | |
| | Low 3 | Medium 8 | High 14 | High 18 | Critical 23 | | |
| H Possible Unlikely | Low 2 | Medium 7 | Medium 12 | High 17 | Critical 22 | | |
| Rare | Low 1 | Low 5 | Medium 11 | Medium 13 | High 19 | | |

| Risk Actions | | | | | |
|---------------|----------------------|--|--|--|--|
| Rating | Response | Action | | | |
| Critical Risk | Immediate action | Activity / task to be stopped and controls implemented which reduce the risk to at least High. | | | |
| High Risk | Proactive management | Further risk reductions proactively investigated in consultation with workers and others affected. Higher level control measures (following the Hierarchy of Control) implemented wherever possible. Monitor and review controls to ensure they are implemented effectively. Approval required from EGM before work. | | | |
| Medium Risk | Active management | Additional control measures implemented where risk can be further reduced. Identified controls monitored to ensure they have been implemented effectively. | | | |
| Low Risk | Routine management | Control, monitor and review with normal risk management processes. | | | |



HIERARCHY OF CONTROLS The hierarchy of controls list the ways of controlling SHE risk in priority order, ranked by the highest level of protection and reliability, to the lowest. Permanent solution where the hazard is completely eliminated or removed (e.g. Elimination discontinuing the work process, removing hazardous plant or equipment from use etc). Achieved by replacing hazardous plant, equipment, substances, etc., with a safer Substitution alternative (e.g. using a less hazardous cleaning chemical). Physically separating the hazard from people (e.g. using physical barriers) and/or by Isolation distance (e.g. remote operations). Engineering Involves making engineering changes or physical modifications which reduce exposure controls to the hazard (e.g. mechanically restricting the speed limit on forklifts). Administrative Establishing policies, procedures and work practices designed to reduce a worker's controls exposure to a risk. It can also include the provision of specific training and supervision. Personal PPE is anything used or worn by a person to reduce the consequence of being exposed Protective to a hazard and any resultant injury (e.g. safety glasses, safety gloves, safety boots). Equipment