

# FERGUSON WIND FARM BOP RISK REGISTER

DIVISION	LINE ITEM	ACTIVE / NOT ACTIVE	CATEGORY OF RISK	TASK OR HAZARD	RISK/S (Including details of how and why this event would occur)	INHERENT RISK			EXISTING CONTROLS	HIGHEST CONTROL LEVEL	POST CONTROL RISK				ADDITIONAL CONTROLS SPECIFIC TO THE PROJECT	RESPONSIBLE FOR IMPLEMENTING ACTION PLANS	DUE DATE	STATUS (COMPLETE OR INCOMPLETE)	RESIDUAL RISK		
						CONSEQUENCE RATING	LIKELIHOOD RATING	INHERENT RISK RATING			CONSEQUENCE RATING	LIKELIHOOD RATING	CURRENT RISK RATING	TREAT OR ACCEPT					CONSEQUENCE RATING	LIKELIHOOD RATING	RESIDUAL RISK RATING
GENERAL																					
	1	ACTV	WHS	Working in bushfire prone areas	Personnel affected by smoke inhalation	3 Moderate	3 Possible	M(13)	When bushfires are in the area, ensure bushfire information updates are communicated to all site personnel through pre-starts, toolboxes and updated regularly throughout the day. This should also include review and confirmation of safe travel routes to and from work.  <b>REFERENCES</b> WHS Legislation (relevant jurisdiction) Emergency Management Plan AS3745-2010 Planning for emergencies in facilities	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	2	ACTV	WHS	Working in bushfire prone areas	Reduced visibility preventing personnel from getting to a safety area	3 Moderate	3 Possible	M(13)	When bushfires are in the area, ensure bushfire information updates are communicated to all site personnel through pre-starts, toolboxes and updated regularly throughout the day. This should also include review and confirmation of safe travel routes to and from work.  <b>REFERENCES</b> WHS Legislation (relevant jurisdiction) Emergency Management Plan	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	3	ACTV	WHS	Working in bushfire prone areas	Burns and equipment damage	3 Moderate	3 Possible	M(13)	When bushfires are in the area, ensure bushfire information updates are communicated to all site personnel through pre-starts, toolboxes and updated regularly throughout the day. This should also include review and confirmation of safe travel routes to and from work.  <b>REFERENCES</b> WHS Legislation (relevant jurisdiction) Emergency Management Plan AS3745-2010 Planning for emergencies in facilities	Level 1 Eliminate	2 Minor	1 Rare	L(3)	Accept					2 Minor	1 Rare	L(3)
	4	ACTV	WHS	Working in or near wet or flood prone areas	There is a chance of drowning working in wet or flood prone areas.	3 Moderate	2 Unlikely	M(9)	The site should be inspected prior to work commencing following all heavy rainfall events. All personnel on site to be regularly informed of adverse site conditions and of any flood warnings.  <b>REFERENCES</b> WHS Legislation (relevant jurisdiction) Emergency Management Plan AS3745-2010 Planning for emergencies in facilities	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	5	ACTV	WHS	Working in or near wet or flood prone areas	Potential electrocution from working in wet or flood prone areas.	3 Moderate	2 Unlikely	M(9)	The site should be inspected prior to work commencing following all heavy rainfall events. No electrical equipment to be used when site conditions are wet and water logged. All personnel on site to be regularly informed of adverse site conditions and of any flood warnings.  <b>REFERENCES</b> WHS Legislation (relevant jurisdiction) Emergency Management Plan	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	6	ACTV	WHS	Working near vermin (snakes, spiders etc.)	Snake, Spider bites (other vermin) resulting in injury/illness of personnel	3 Moderate	3 Possible	M(13)	Information to be provided at toolbox talks on snakes, spiders and other relevant vermin. Note that snakes are protected by law in all states and territories of Australia and may not be killed unless they threaten life. Vermin control may need to be actioned. Snake bite Kit (first Aid)  <b>REFERENCES</b> Emergency Management Plan Nature Conservation Act (relevant jurisdiction)	Level 3 Admin PPE	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)
	7	ACTV	WHS	Using portable electrical equipment	Using faulty equipment resulting in electrocution, cuts and abrasions	5 Critical	3 Possible	H(22)	All electrical equipment to be tested and tagged "Quarterly". All electrical equipment to be visually inspected prior to each use. Residual Current Device (RCD) to be used whenever 240 Volt equipment is in use. Cord stands and plastic hooks to be used to suspend power cables above the ground and on scaffolds/ work platform etc. All equipment guarding is to remain fitted at all times. The use of cordless power tools is encouraged in preference over 240 volt.  <b>REFERENCES</b> WHS Legislation (relevant jurisdictions) Electrical Safety Legislation (relevant jurisdictions) AS/NZS 3012:2010 Electrical installations - construction and demolition sites	Level 1 Eliminate	1 Negligible	1 Rare	L(1)	Accept					1 Negligible	1 Rare	L(1)
	8	ACTV	WHS	Performing hot works	There is a chance of injury or damage due to hot material/burns, hazardous fumes, fire/explosion, electric shock, weld flash and ray burns.	5 Critical	1 Rare	M(15)	Permits shall be used for all hot work on site unless this is performed within the designated workshop area. Where required a fire watcher must be in place. Appropriate use of PPE, welding screens, barricading and signage. Fire extinguishers are to be located near all hot work areas. Adequate ventilation must be provided. All equipment must be inspected and tagged. All equipment must be inspected prior to use. Flash back arrestors must be located on gauges and handsets.  <b>REFERENCES</b> WHS Legislation (relevant jurisdictions) Electrical Safety Legislation (relevant jurisdictions) AS/NZS 3012:2010 Electrical installations - construction and demolition sites SOP-S005 Isolation and Lock Out	Level 3 Admin PPE	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)

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	9	ACTV	WHS	Working outdoors	Exposure to inclement weather resulting in illness	2 Minor	3 Possible	M(8)	Work planning to take into consideration all conditions (weather, light, environmental etc.) PPE requirements to take into account weather, light and environmental conditions. Sun screen, wide brims for hard hats, long sleeve shirt, long pants, gloves, safety glasses and steel cap shoes/boots to be available for all conditions. Water must be available.  <b>REFERENCES</b> WHS legislation (relevant jurisdictions)	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	10	ACTV	WHS	Manual Handling	Personal injury from performing hazardous manual handling tasks	3 Moderate	3 Possible	M(13)	Mechanical aids to be used for lifting where possible. If mechanical aids cannot be used for lifting heavy items then multiple person lifts must be used. Personnel must assess the weight of the item and ensure they are fit for the task prior to commencing any lift. Material handling equipment must be available. Train personnel in correct manual handling techniques.  <b>REFERENCES</b> WHS Legislation (relevant jurisdictions) Manual Handling CoP	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	11	ACTV	WHS	Use of mobile phones on site	The use of the mobile phone causes the individual to become distracted losing situational awareness resulting in injury or death to self or others	4 Major	3 Possible	H(18)	Mobile phone usage for all site personnel on this construction site, must stand in a safe position and remain in that location during the call. No machinery to be operated while using mobile phone. Mobile phones, whether hands free or not shall only be used by the driver of any vehicle whilst the vehicle is in a stationary and safe location. Heavy Vehicle/SME operators shall not use mobile phones at any time when operating equipment/machines with or without a hands free capability unless an emergency situation arises. Use of personal audio/video devices (i.e. iPod, iPhone, iPad, etc.) is banned from inside all vehicles.  <b>REFERENCES</b> WHSMP Induction	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	12	ACTV	WHS	Exposure to substances or chemicals	acute or chronic reaction to exposure and resultant health effects	3 Moderate	3 Possible	M(13)	SDS on site Appropriate PPE included in SWMS  <b>REFERENCES</b> WHSMP Induction SOP-S116 Health Surveillance Procedure	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
EMERGENCY RESPONSE PLANS																					
	13	ACTV	WHS	Fire started by equipment or plant	Personal injury, damage to plant and equipment, project delays and etc.	4 Major	3 Possible	H(18)	Implement hot work permits as required Emergency Response Plan developed and implemented Comply with relevant local and state fire bans and restrictions  <b>REFERENCES</b> Principal WHS / OHS Legislation for the relevant state AS3745-2010 Planning for emergencies in facilities Safety Management Plan	Level 3 Admin PPE	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	14	ACTV	WHS	Medical Emergency	Personal illness results in sickness or injury	3 Moderate	2 Unlikely	M(9)	Emergency Management plan (EMP) to be developed and implemented Current emergency contact lists displayed in prominent positions Assess for adequate qualified first aiders for site Ensure minimum of one qualified first aider is available at all times. Asses for adequate first aid kits and suitable storage locations for site Maintain first aid kits ensuring stocks are replenished as required and items are not out of date  <b>REFERENCES</b> Principal WHS / OHS Legislation for the relevant state AS3745-2010 Planning for emergencies in facilities Safety Management Plan FRM-S107 First Aid Requirements Assessment Form	Level 3 Admin PPE	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	15	ACTV	WHS	Treatment of injured persons	Emergency situations uncontrolled and not effectively and efficiently managed	4 Major	2 Unlikely	M(14)	Emergency response plan (ERP) to be developed and implemented Current emergency contact lists displayed in prominent positions First Aid kit to be maintained fully stocked and accessible  <b>REFERENCES</b> Principal WHS / OHS Legislation for the relevant state AS3745-2010 Planning for emergencies in facilities Safety Management Plan FRM-S107 First Aid Requirements Assessment Form	Level 3 Admin PPE	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	16	ACTV	WHS	Coordination, or hazards when working on 3rd parties property	Unfamiliar site, poor coordination, responsibilities not established or unclear	3 Moderate	3 Possible	M(13)	Site Emergency plan, considers external influences, including the relevant working environment and personnel  <b>REFERENCES</b> Emergency Management Plan	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	17	ACTV	WHS	Safety data sheets (SDS) not available for materials used in task	Lack of awareness and controls in place associated with use of hazardous substances, causing personal injury or illness.	3 Moderate	3 Possible	M(13)	Ensure current SDS for all workplace substances used are readily available and accessible. Refer to and include specific hazards and controls from the relevant SDS when developing SWMS for project tasks Where required, refer to and include specific hazards and controls from the relevant SDS when developing SMP .  <b>REFERENCES</b> Principal WHS / OHS Legislation for the relevant state AS3745-2010 Planning for emergencies in facilities Safety Management Plan Code of practice "Managing the risks of hazardous chemicals in the workplace" Code of practice "Control of workplace hazardous substances" Code of practice "Hazardous chemicals" Practical guide "Hazardous substances"	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)

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	18	ACTV	WHS	Emergency services	Emergency services unaware of site location	3 Moderate	3 Possible	M(13)	Emergency services to be notified prior to site works commence. Informing them of location and type of works  <b>REFERENCES</b> Emergency Response Plan	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept	contact local emergency services	Site Manager			3 Moderate	1 Rare	L(6)
	19	ACTV	WHS	Live Electrical Work	Electric Shock	4 Major	2 Unlikely	M(14)	Switching Sheets PPE LV Rescue equipment Emergency Management Plan Isolations  <b>REFERENCES</b> WHS Legislation Electricity Acts (state Based) Asset Owner requirements Model Code of Practice: Managing electrical risks in the workplace Blue Book (Victoria)	Level 3 Admin PPE	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	20	ACTV	WHS	Trench collapse	Risk of entrapment and personal injury	4 Major	3 Possible	H(18)	SWMS detailing specific emergency excavation requirements edge protection trench protection  <b>REFERENCES</b> Emergency Response Plan SOP-S118 Development of SWMS	Level 2 Substitute Isolate Engineer	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	21	ACTV	WHS	Working at heights	Falling from heights and personal injury	4 Major	3 Possible	H(18)	SWMS detailing specific emergency excavation requirements Use fall prevention device when needed.  <b>REFERENCES</b> Emergency Response Plan SOP-S118 Development of SWMS	Level 3 Admin PPE	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
QUALITY																					
	22	ACTV	Quality	Quality control	The project does not apply suitable methods for monitoring and, where applicable, measurement of the quality control processes	3 Moderate	3 Possible	M(13)	Inspection and test plans confirmed and distributed Internal audits scheduled  <b>REFERENCES</b> ISO 9001:2015 Quality Management Plan	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	23	ACTV	Quality	Design and development validation	Resulting product is not capable of meeting the requirements for the specified application or intended use	2 Minor	3 Possible	M(8)	Inspection & Test Plans Initiate acquisition of clarification on points of project specifications including design or construction.  <b>REFERENCES</b> Design Management Plan ISO 9001:2015 SOP-C003 Inspection and Testing	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	24	ACTV	Quality	Verification of purchased product	Purchased product does not meet specified purchase requirements	2 Minor	3 Possible	M(8)	Suppliers evaluated and selected based on their ability to supply product in accordance with requirements Inspection and test plans  <b>REFERENCES</b> ISO9001:2015 SOP-A001 Goods and Services	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	25	ACTV	Quality	Construction Verification	Installed product does not meet specification	3 Moderate	3 Possible	M(13)	Inspection and test plans Check sheets  <b>REFERENCES</b> Design Management Plan Commissioning Plan ISO9001:2015 SOP-A001 Goods and Services	Level 3 Admin PPE	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
ENVIRONMENT																					
	26	ACTV	PUBLIC RELATIONS AND ENVIRONMENT	Operating machinery adjacent properties leads to noise complaints	Surrounding properties exposed to excessive noise (in excess of EPA requirements)	3 Moderate	3 Possible	M(13)	Community consultation plan is in place and local residence concerns are detailed in site specific induction Equipment within noise standards Work hours are known and complied. If work has to occur outside of specified work hours then client notification occurs  <b>REFERENCE</b> Legislative Reference List) Relevant local council laws Site Environmental Plan	Level 3 Admin PPE	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	27	ACTV	PUBLIC RELATIONS AND ENVIRONMENT	Operating machinery adjacent properties creating dust	Surrounding properties exposed to excessive dust (over EPA requirements)	3 Moderate	3 Possible	M(13)	Water cart is in place and utilized Site monitoring and feedback is provided Maintain relationship with surrounding properties  <b>REFERENCES</b> Legislative Reference List) Relevant local council laws Site Environmental Plan	Level 2 Substitute Isolate Engineer	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)

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	28	ACTV	WHSE - HRW	Refueling of Plant and equipment	Fuel contamination / spill Personnel being struck by plant and equipment	4 Major	2 Unlikely	M(14)	On larger construction sites a re-fueling station must be set up and utilised for all re-fueling operations Spill kits are on site Trained operators Hazard management plan from mini tankers No refueling of plant / equipment within 50 meters of a water way Automatic shut off trigger installed Refueling and maintenance must only be conducted during project hours or otherwise must be in the presence of a second person. Where practicable refueling / wash down point shall be considered as part of the project lay out Spill response in ERP  <b>REFERENCES</b> <i>Legislative Reference List</i> <i>Relevant local council laws</i> <i>Traffic Management Plan</i> <i>Construction Environmental Management Plan</i> <i>Emergency Response Plan</i> <i>REG-H003 Company Competency &amp; Training Mat</i> <i>WHS Legislation (relevant jurisdiction)</i>	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)
	29	ACTV	PUBLIC RELATIONS AND ENVIRONMENT	Spoil disposal and stock piling	Destruction of native vegetation, cause friction with landholders, breach EPA	3 Moderate	3 Possible	M(13)	Liaise with land owners, and scoping disposal and stockpile areas with environmental advisors Personnel/vehicle interaction must be considered when deciding on stick piling areas  <b>REFERENCES</b> <i>Legislative Reference List</i> <i>Relevant local council laws</i> <i>Site Environmental Plan</i>	Level 1 Eliminate	1 Negligible	2 Unlikely	L(2)	Accept				1 Negligible	2 Unlikely	L(2)	
	30	ACTV	ENVIRONMENT	Significant trees are within work zone	Destruction or damage to significant trees or vegetation	3 Moderate	3 Possible	M(13)	Site Environmental Plan issued  <b>REFERENCES</b> <i>Legislative Reference List</i> <i>Relevant local council laws</i> <i>Site Environmental Plan</i>	Level 3 Admin PPE	3 Moderate	2 Unlikely	M(9)	Accept				3 Moderate	2 Unlikely	M(9)	
	31	ACTV	ENVIRONMENT	Erosion from water run off	Destruction or damage to natural areas and loss of vegetation	3 Moderate	3 Possible	M(13)	Site Environmental Plan issued  <b>REFERENCES</b> <i>Legislative Reference List</i> <i>Relevant local council laws</i> <i>Site Environmental Plan</i>	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept				2 Minor	2 Unlikely	L(5)	
	32	ACTV	ENVIRONMENT	Driving and operating in natural habitats	injury to local Fauna	2 Minor	3 Possible	M(8)	Instruction to slow down as they are round Site Environmental Plan issued Site Induction  <b>REFERENCES</b> <i>Legislative Reference List</i> <i>Relevant local council laws</i> <i>Site Environmental Plan</i>	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept				2 Minor	2 Unlikely	L(5)	
SITE ESTABLISHMENT																					
	33	ACTV	WHS	Travelling to/from site hazards (Animals / Fatigue / Tourist traffic etc.)	Accidents, injury to animals, vehicle damage	5 Critical	1 Rare	M(15)	Drive to conditions Travel during daylight hours where possible Fitness for Work - Good Sleep, Hydrated, Free from impairments Driver to slow if approaching fauna Speed limit not to be exceeded Use scanning technique to spot wild life No loose items in cab Correct Vehicle movement permits for the load and truck Loads secured where required Contact number to be provided if wildlife is effected Tourist Traffic to be monitored and VIC Roads to add speed controls on the entrance points on site  <b>REFERENCES</b> <i>WHS Legislation (relevant jurisdiction)</i>	Level 1 Eliminate	4 Major	1 Rare	L(10)	Accept				4 Major	1 Rare	L(10)	
	34	ACTV	WHS	Mobile Phone use while driving	Accidents, fatality, vehicle damage	5 Critical	1 Rare	M(15)	Mobile phone not to be used while driving, unless connected to a hands free device  <b>REFERENCES</b> <i>WHSMP</i> <i>Road Traffic Act (SA) 1961</i> <i>Road Safety Rules (Vic) 2017</i> <i>Road Rules (NSW) 2017</i> <i>Transport Operations (Road Use Management - Road Rules) Regulations (QLD) 2009</i> <i>Road Traffic Code (WA) 2000</i>	Level 1 Eliminate	4 Major	1 Rare	L(10)	Accept				4 Major	1 Rare	L(10)	
	35	ACTV	WHS	Vegetation clearance	Removal of unapproved tree	3 Moderate	3 Possible	M(13)	Plans identifying areas to be cleared or protected  <b>REFERENCES</b> <i>Environment Protection Legislation (relevant jurisdiction)</i> <i>CEMP</i>	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept				3 Moderate	1 Rare	L(6)	
	36	ACTV	WHS	Delivery's of site facility's and containers	damage to facilities during unloading	3 Moderate	3 Possible	M(13)	Trained and competent Operators Spotters to be used where required Appropriately trained Safety Observer where required Exclusion Zones Use correctly rated lifting equipment  <b>REFERENCES</b> <i>Project Training Register</i> <i>WHS Legislation (relevant jurisdiction)</i> <i>Managing Risks in the Workplace CoP</i> <i>AS2550 Set - 2011 Cranes, Hoists and Winches - Safe Use Set</i>	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept				2 Minor	2 Unlikely	L(5)	

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	37	ACTV	WHS	Emergency services	Emergency services unaware of site location	5 Critical	3 Possible	H(22)	Emergency services to be notified prior to site works commence. Informing them of location and type of works  <b>REFERENCES</b> <i>Emergency Response Plan</i>	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)
	38	ACTV	WHS	Project operating during summer	Bush fire, other fire resulting in injury / damage, fatality	5 Critical	1 Rare	M(15)	Hot works permit, CFS details of Fire ban days, removing of hazardous materials, trained Fire spotter, Water cart, Fire extinguishers, Land owners details, burns kit as well as fire aiders on site, managing work load not in the hot part of the day,  <b>REFERENCES</b> Address awareness within daily pre-start everyday Snake bite kit to be on site at all times and one at each work front during the transmission line works, Include this risks in the CPP site induction First Aid Trained Personnel. Only use qualified Snake handling personnel for removal of snakes from site	Level 3 Admin PPE	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)
	39	ACTV	WHS	Snakes, spiders, vermin in and around site	Snake, spider bites resulting in personal injury	3 Moderate	3 Possible	M(13)	Address awareness within daily pre-start everyday Snake bite kit to be on site at all times and one at each work front during the transmission line works, Include this risks in the CPP site induction First Aid Trained Personnel. Only use qualified Snake handling personnel for removal of snakes from site  <b>REFERENCES</b> <i>Emergency Response Plan</i> <i>Nature Conservation Act (relevant jurisdiction)</i>	Level 3 Admin PPE	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)
	40	ACTV	WHS	Smoking on site	Bush Fire, Environmental Impact	5 Critical	1 Rare	M(15)	Smoking only permitted with 5 meters of smoke bin All butts to be extinguished and disposed of in smoke bin Signage, - Talk about in the site induction the risks out on the farmers property and smoking areas  <b>REFERENCES</b> <i>WHSMP</i>	Level 3 Admin PPE	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)
	41	ACTV	PUBLIC RELATIONS	Waste Controls	Increased waste, waste not appropriately disposed of, negative impact on the environment	3 Moderate	3 Possible	M(13)	Waste disposal bins on site and in use Avoid waste where practicable Reuse, reprocess, recycle where practicable Environmentally responsible waste disposal  <b>REFERENCES</b> <i>Construction Environmental Management Plan</i> <i>FRM-G002 Waste Management &amp; Minimisation Assessment</i> <i>FRM-C040 Waste Disposal Register</i>	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)
	42	ACTV	WHS	Event Reporting	Events not reported to either CPP or the client or the regulator	2 Minor	3 Possible	M(8)	CPP site Manager/Project Manager to ensure all site incidents are reported appropriately Ensure all incidents are phoned and emailed in to either PM or WHSE Officer.  <b>REFERENCES</b> <i>WHSMP</i> <i>SOP-S001 Event Reporting and Investigation Procedure</i> <i>FRM-S001 Event Notification Report Form</i> <i>FRM-S02 Event Investigation Form</i> <i>FRM-S005 Event Investigation Report (ICAM)</i>	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	43	ACTV	WHS	Heavy Vehicle Access to Site	Vehicle Load Limits on Underground assets causing damage	2 Minor	3 Possible	M(8)	Communicate 20-tonne maximum axle load limit to contractors / delivery drivers Area coned off Further material placed over road surface  <b>REFERENCES</b> <i>National Heavy Vehicle Regulations</i> <i>WHSMP</i>	Level 3 Admin PPE	2 Minor	1 Rare	L(3)	Accept					2 Minor	1 Rare	L(3)
	44	ACTV	WHS	Hazardous Waste Segregation and Tracking	Incorrect Hazardous Waste Disposal	3 Moderate	3 Possible	M(13)	Dedicated waste disposal bins on site and in use Avoid waste where practicable Reuse, reprocess, recycle where practicable Environmentally responsible waste disposal  <b>REFERENCES</b> <i>Environmental Management Plan</i> <i>Environmental Protection Act (relevant jurisdictions)</i> <i>WHS Legislation (relevant jurisdictions)</i> <i>Managing risks of hazardous chemicals in the workplace MCoP</i>	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)
	45	ACTV	WHS	Site Access / Set Up	Underground services located in the area of CPP laydown / Access Road / Site Office area	2 Minor	3 Possible	M(8)	Underground services survey to identify potential services DBYD 10t per axle weight limit - Investigate further controls if deemed required  <b>REFERENCES</b> <i>FRM-S041 Excavation Permit</i>	Level 1 Eliminate	2 Minor	1 Rare	L(3)	Accept					2 Minor	1 Rare	L(3)
	46	ACTV	WHS	Breach of Site Security during earthworks	Theft / Vandalism of plant, equipment, tools and materials	2 Minor	3 Possible	M(8)	Use temporary gate panels for the Wind Farm gate entrance Install temporary fencing around perimeter of the Office Compound as soon as earthworks complete Equipment to be locked If possible equipment to be located in fenced area over night / weekends  <b>REFERENCES</b> <i>Traffic Management Plan</i>	Level 1 Eliminate	2 Minor	1 Rare	L(3)	Accept					2 Minor	1 Rare	L(3)
	47	ACTV	WHS	Hazardous Waste and Chemicals Refueling of Plant and Equipment	Storage of Chemicals and Hazardous waste near existing stormwater assets resulting in an environmental breach through water/land contamination	4 Major	2 Unlikely	M(14)	Nominate spot on the CAZ minimum 30 meters from drainage areas Construct temporary bund Fit for purpose spill kit Appropriate storage cupboards for hazard substances Use approved fuel cell  <b>REFERENCES</b> <i>Environmental Management Plan</i> <i>Environmental Protection Act (relevant jurisdictions)</i> <i>WHS Legislation (relevant jurisdictions)</i> <i>Managing the risk of hazardous chemicals in the workplace MCoP</i>	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)

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	48	ACTV	WHS	Use of equipment/machinery	Breakdown of Equipment/Machinery resulting in property damage and project delays	3 Moderate	3 Possible	M(13)	Mobile plant inspection and service history report - Risk assessment - manuals on plant Equipment / Machinery has to be Weed and seed inspection on arrival to site Pre-start checklists  <b>REFERENCES</b> WHSMP FRM-S123 Mobile Plant Inspection Form Managing risk of plant in the workplace MCoP	Level 3 Admin PPE	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)
	49	ACTV	WHS	Use of equipment/machinery	Hazardous Chemical Spill resulting from machinery breakdown	3 Moderate	2 Unlikely	M(9)	Pre-starts checklist / Spill Kits Minimise any spills of hazardous materials or hydrocarbons, and clean up any spills as soon as possible after they occur.  <b>REFERENCES</b> WHSMP FRM-S123 Mobile Plant Inspection Form Environmental Management Plan Environmental Protection Act (relevant jurisdictions) WHS Legislation (relevant jurisdictions) Managing the risks of hazardous chemicals in the workplace MCoP Managing risk of plant in the workplace MCoP	Level 3 Admin PPE	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	50	ACTV	WHS	Sediment not appropriately controlled	Uncontrolled Release of Material and/or sediment to surrounding area resulting in environmental breach and damage to environment	2 Minor	3 Possible	M(8)	Employ sediment controls around any stockpiles Sediment fencing to be employed along drainage  <b>REFERENCES</b> Environmental Protection Act (relevant jurisdictions) Environmental Management Plan Erosion and Sediment Control Plan	Level 1 Eliminate	1 Negligible	2 Unlikely	L(2)	Accept					1 Negligible	2 Unlikely	L(2)
	51	ACTV	WHS	Management of Subcontractors	Increased Incidents Non conformances	3 Moderate	3 Possible	M(13)	Sub contractors pre evaluated prior to attending on site Subcontractor SWMS reviewed and approved Subcontractors monitored onsite 3 monthly WHSEQ audits undertaken WHSEQ Officer to be present during High Risk tasks  <b>REFERENCES</b> WHSMP SOP-A001 Supply of Goods and Services FRM-017B New contractor evaluation form FRMA019 New contractor OA Performance evaluation	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	52	ACTV	WHS	Site Access	Clearance issues to 415V - clearances not correct or observed and / or breached resulting in injury/damage	3 Moderate	3 Possible	M(13)	Have conductors surveyed and height measurement signs in place Investigate the use of tiger tails Level 3 Safety Observer where required  <b>REFERENCES</b> WHSMP WHS Legislation (relevant jurisdictions) Electrical Safety Legislation (relevant jurisdictions) AS/NZS 3012:2010 Electrical installations - construction and demolition sites Managing electrical risks in the workplace MCoP	Level 3 Admin PPE	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)
	53	ACTV	WHS - HRW	Site Access	Clearance to High Voltage Power Lines (11kv to 500kv) - clearances not correct or observed and / or breached resulting in injury/damage	5 Critical	2 Unlikely	H(19)	Install conductor height signage either side of the High Voltage Power lines Nominate dedicated crane areas away from the existing High Voltage Power line conductors Provide clear bunting to delineate activities in these areas Level 3 Safety Observer where required  <b>REFERENCES</b> WHSMP WHS Legislation (relevant jurisdictions) Electrical Safety Legislation (relevant jurisdictions) AS/NZS 3012:2010 Electrical installations - construction and demolition sites Managing electrical risks in the workplace MCoP	Level 1 Eliminate	5 Critical	1 Rare	M(15)	Accept					5 Critical	1 Rare	M(15)
	54	ACTV	WHS - HRW	Increased traffic	Potential for increase in dusty conditions and collisions	4 Major	2 Unlikely	M(14)	Dust suppression as required  <b>REFERENCES</b>	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
<b>MOBILISATION</b>																					
	55	ACTV	WHS	Inductions	Failure to induct all personnel Incorrect safety equipment and PPE Personnel unfamiliar with project site layout and procedures Licenses and industry induction cards unavailable	3 Moderate	3 Possible	M(13)	All personnel undertake a project specific induction, which includes details on the specific cultural and environmental issues for the site. Induction register and stickers to be utilised to keep track of inducted personnel. All licenses and white cards or equivalent to be verified and a copy taken to keep with personnel induction records Ensure correct PPE and equipment are available to complete project tasks  <b>REFERENCES</b> Principal WHS / OHS Legislation for the relevant state PD-02 Education & Training Process and Procedure	Level 3 Admin PPE	2 Minor	1 Rare	L(3)	Accept					2 Minor	1 Rare	L(3)
	56	ACTV	WHS	Personnel selection	Selecting people with inadequate training or competency	2 Minor	3 Possible	M(8)	Training Matrix Resource planning All licenses and white cards or equivalent to be verified and a copy taken to keep with personnel induction records  <b>REFERENCES</b> Principal WHS / OHS Legislation for the relevant state PD-02 Education & Training Process and Procedure	Level 3 Admin PPE	1 Negligible	1 Rare	L(1)	Accept					1 Negligible	1 Rare	L(1)

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	57	ACTV	WHS-HRW	Working adjacent to Roads and Traffic	Vehicle collision Personal injury or death when struck by a vehicle	5 Critical	3 Possible	H(22)	Resources and equipment will be available in sufficient numbers to adequately cover all work fronts Additional consideration will need to be given when undertaking night works e.g. flashing lights, visibility of plant and construction zone Consideration must be given to the safe access and egress with in the construction zone for all pedestrians Where applicable notification to affected residents shall be given prior to implementing the TMP Local and council, client and relevant government departments may require prior notification and possible approval of any TMP All personnel will obey all site speed limits All plant / vehicles will be a serviceable condition when driven on site Where required barrier systems (such as fencing, plastic water filled, iron man etc.) to adequately protect pedestrians from entering the work zone and workers inside the work zone, shall be installed and maintained and documented on the TMP Minimum requirements for traffic barriers are detailed in the traffic barrier standard	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept						3 Moderate	2 Unlikely	M(9)
	58	ACTV	WHS	Driver Fatigue, while driving heavy vehicles long (>100 km) distances to the work site.	Injury or death from vehicle accident	5 Critical	3 Possible	H(22)	Ensure shift and rosters are included in the WHS Plan Driving is NOT continuous, with many short breaks throughout the day (eg waiting time while water cart fills) scheduled breaks at smoko and lunch	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)	
	59	ACTV	WHS - HRW	Installation of electricity to site locations	Potential electrocution	4 Major	3 Possible	H(18)	Use only licensed electricians Installation to Australian Standards Task specific Safe Work Method Statement (SWMS) to be developed	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)	
	60	ACTV	WHS	Install toilets and washing facilities	Failure to provide adequate facilities	2 Minor	3 Possible	M(8)	Sufficient toilets and washing facilities allowed for each crew. Facilities will be mobile and moved with the crews	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)	
	61	ACTV	WHS	Erecting fence	Static electricity Manual handling Fence collapse	2 Minor	2 Unlikely	L(5)	Erect fence with at least 2 people to assist with lifting panels into place. Where possible use mechanical aids for lifting/moving heavy items. Erect fence to Australian Standard design	Level 1 Eliminate	2 Minor	1 Rare	L(3)	Accept					2 Minor	1 Rare	L(3)	
	62	ACTV	PUBLIC RELATIONS	Failure to notify residents	Resident becomes aggressive / violent	3 Moderate	3 Possible	M(13)	Communication with residents and members of the community is provided in accordance with the PMP and CEMP. Ensure relevant stakeholders are informed in advance of works that may impact. Reply immediately to complaints and representations.	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)	
	63	ACTV	WHS	Install compound access signs	Slow moving vehicles entering high speed traffic zones	4 Major	3 Possible	H(18)	Traffic management plan Specialist traffic management personnel to be used as needed	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)	
	64	ACTV	WHS	Loading / Unloading Plant	Plant falls from low loader, potentially injuring personnel or damaging the plant	4 Major	3 Possible	H(18)	Exclusion Zone Experienced Ticketed Operators Ensure loading and unloading is conducted on level ground in good weather conditions utilise rubber tracks or mates as required. Utilise remote operator controls on available plant Wear plant seat belts when fitted	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)	
BULK EARTHWORKS / CIVIL																						
	65	ACTV	WHS	Stock pile bulk fill	Increase in Dust, Weed spread, erosion resulting in contaminated soil and environmental breach	3 Moderate	3 Possible	M(13)	Approved Stockpile location Left over Contaminated soil to be tested prior to removal from site Silt fencing around stock piles Dust Suppression as required	Level 1 Eliminate	1 Negligible	2 Unlikely	L(2)	Accept					1 Negligible	2 Unlikely	L(2)	
	66	ACTV	WHS	Concrete works where there is no concrete washout area	Contamination of soil and surrounding flora	3 Moderate	3 Possible	M(13)	Approval of location Correct installation, monitoring and catchment. Ensure concrete wash out area is of adequate size/depth and properly lined prior to any concrete works initiated.	Level 1 Eliminate	1 Negligible	1 Rare	L(1)	Accept					1 Negligible	1 Rare	L(1)	

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	67	ACTV	WHS	Chemical spills	Risk of chemical spills from plant resulting in a negative impact on the environment and potential EPA action	3 Moderate	3 Possible	M(13)	Plant inspection on all plant arriving onsite Pre-starts checklist  <b>REFERENCES</b> WHSMP <i>Environmental Protection Act (relevant jurisdictions)</i> <i>WHS Legislation (relevant jurisdictions)</i> <i>Managing risks of hazardous chemicals in the workplace MCoP</i>	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	68	ACTV	WHS	Mobile Plant Operation	Potential for unwanted interaction between mobile plant/ mobile plant/ people resulting in injury, equipment damage	4 Major	3 Possible	H(18)	Positive Communications between personnel and mobile plant operators at all times Maintain 5 meter clearance from operating mobile equipment Spotter to be used where required Safety Observer where required Operate to conditions Fitness for Work Competent Operators Plant and Vehicle numbers  <b>REFERENCES</b> <i>Traffic Management Plan</i> <i>Competency Register</i> <i>WHS Legislation (relevant jurisdiction)</i> <i>Managing Risks in the Workplace CoP</i>	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	69	ACTV	WHS	HV Clearances not to the current standard	During construction/demolition safe approach to existing live equipment could be breached resulting in fatality	5 Critical	2 Unlikely	H(19)	During construction approach to live equipment must be done with consideration to reduced clearances Safety Observer to be used Lock out devices fitted to mobile where recommended  <b>REFERENCES</b> <i>WHS Legislation (relevant jurisdictions)</i> <i>Electrical Safety legislation (relevant jurisdictions)</i> <i>SOP-S119 Isolations and Lock Out</i>	Level 1 Eliminate	5 Critical	1 Rare	M(15)	Accept					5 Critical	1 Rare	M(15)
	70	ACTV	WHS	Loss of control of a load being moved into position by a crane	Injury to individual(s), damage to plant and equipment, damage to material	4 Major	3 Possible	H(18)	Competent operator No lift in strong winds  <b>REFERENCES</b> <i>FRM-S045 Planning and Selection of Cranes</i> <i>FRM-C077 Lifting Assessment Review Form</i> <i>WHS Legislation (relevant jurisdiction)</i> <i>Managing Risks in the Workplace MCoP</i> <i>AS2550 Set - 2011 Cranes, Hoists and Winches - Safe Use Set</i>	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	71	ACTV	WHS - HRW	Cranes/Lifting operations	Equipment failure resulting in property damage or injury	4 Major	3 Possible	H(18)	Operational log books are checked for currency. Maintenance log books are checked for currency, including slings, chains, lifting bars etc. All lifting equipment is tested in accordance with the lifting equipment register Lifting equipment visually inspected for defects prior to use. Any lifting of weight that is >75% of the SWL a Lift plan MUST be developed by a Dogman or Rigger Any lifting of weight over 85% of the SWL MUST be approved by the Project Manager  <b>REFERENCES</b> <i>FRM-S045 Planning and Selection of Cranes</i> <i>FRM-S121 Lifting Equipment Register</i> <i>WHS Legislation (relevant jurisdiction)</i>	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	72	ACTV	WHS - HRW	Cranes/Lifting operations	Equipment damage	4 Major	3 Possible	H(18)	A Lifting Plan has been developed and has been implemented. The Lift Plan has been developed by a competent person(s) and includes an assessment of the lift, the lift methodology and the equipment and personnel required. Competent operators with an appropriate HRWL  <b>REFERENCES</b> <i>REG-H003 Competency Register</i> <i>WHS Legislation (relevant jurisdiction)</i> <i>Managing Risks in the Workplace CoP</i> <i>AS2550 Set - 2011 Cranes, Hoists and Winches - Safe Use Set</i>	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	73	ACTV	WHS - HRW	Cranes/Lifting operations	Dropped loads from equipment failure or non competent operator	4 Major	3 Possible	H(18)	The potential "Drop Zone" shall be identified . All personnel to be kept outside of the "Drop Zone". Competent operators rated and inspected equipment  <b>REFERENCE</b> WHSMP <i>REG-H002 Company Qualifications &amp; Training Matrix</i> <i>WHS Legislation (relevant jurisdiction)</i> <i>Managing Risks of plant in the Workplace CoP</i>	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	74	ACTV	WHS - HRW	Cranes/Lifting operations	Overtuned crane from use on unstable ground	4 Major	3 Possible	H(18)	The ground conditions have been assessed and are addressed in the lift plan A suitable stable working platform has been chosen and is identified in the Lift Plan If necessary a geotechnical engineers report is included in the Lift Plan The proximity to any structures (concrete, pipes, buildings, footings) has been assessed as part of the Lift Plan. Competent operators Wind loading to be considered during the development of lifting plans  <b>REFERENCES</b> WHSMP <i>FRM-S045 Planning and Selection of Cranes</i> <i>FRM-C077 Lifting Assessment Review Form</i> <i>WHS Legislation (relevant jurisdiction)</i> <i>Managing Risks in the Workplace MCoP</i>	Level 1 Eliminate	4 Major	1 Rare	L(10)	Accept					4 Major	1 Rare	L(10)



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	75	ACTV	WHS - HRW	Cranes/Lifting operations	Collisions with other plant, equipment or personnel	3 Moderate	3 Possible	M(13)	Exclusion zones Competent operators Vehicle Numbers  <b>REFERENCES</b> Project WHSMP REG-H003 Competency Register WHS Legislation (relevant jurisdiction) Managing the risk of plant in the workplace CoP (SA) Moving plant on construction sites CoP (NSW) Code of Practice No19 Plant CoP (VIC) Plant CoP (QLD)	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)
	76	ACTV	WHS	Deep excavation	Potential for people and animals to fall in excavations resulting in injury	3 Moderate	3 Possible	M(13)	Physical barrier to be used around deep excavations Appropriate flagging and bunting to be used around shallow excavations Signage Benching, Shoring to be used for all trenches over 1.5m deep  <b>REFERENCES</b> SOP-S116 Excavations FRM-S041 Excavation Permit WHS Legislation (relevant jurisdiction) Managing Risks in the Workplace MCoP	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	77	ACTV	WHS - HRW	Existing UG assets damaged by new excavations	Injury to people and damage to plant and equipment Underground services damaged through excavation and/or trenching	3 Moderate	3 Possible	M(13)	Excavation permit Site walkover with personnel before starting any excavation/potholing Dial before you Dig  <b>REFERENCES</b> FRM-S041 Excavation Permit FRM-S045 Planning and Selection of Cranes FRM-C077 Lifting Assessment Review Form WHS Legislation (relevant jurisdiction) Managing Risks in the Workplace MCoP	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	78	ACTV	WHS	Damage to Fibre Optic during Footing Excavations for Tower	Property Damage to 3rd Party Assets	2 Minor	3 Possible	M(8)	Dial before you Dig Pot Hole with Vac Truck No mechanical excavation within 1.5m until u/g service exposed and confirmed  <b>REFERENCES</b> FRM-S041 Excavation Permit FRM-S045 Planning and Selection of Cranes FRM-C077 Lifting Assessment Review Form WHS Legislation (relevant jurisdiction)	Level 1 Eliminate	2 Minor	1 Rare	L(3)	Accept					2 Minor	1 Rare	L(3)
	79	ACTV	WHS	Fatigue	Fatigue from long hours of work resulting in incidents and accidents on site or during travel to and from work	5 Critical	3 Possible	H(22)	A normal shift shall not exceed 10 hours or 12 including travel There shall be a minimum break between shifts of at least 10 hours A standard roster will be 11 days on 3 days off  <b>REFERENCES</b> SOP-S003 Fatigue Management WHS legislation (relevant jurisdictions)	Level 1 Eliminate	4 Major	1 Rare	L(10)	Accept					4 Major	1 Rare	L(10)
	80	ACTV	WHS	Inclement weather conditions	Exposure to inclement weather resulting in illness	2 Minor	3 Possible	M(8)	Work planning to take into consideration all conditions (weather, light, environmental etc.) PPE requirements to take into account weather, light and environmental conditions. Sun screen, wide brims for hard hats, long sleeve shirt, long pants, gloves, safety glasses and steel cap shoes/boots to be available for all conditions. Water must be available.  <b>REFERENCES</b> WHS Legislation (relevant jurisdictions)	Level 1 Eliminate	1 Negligible	2 Unlikely	L(2)	Accept					1 Negligible	2 Unlikely	L(2)
	81	ACTV	WHS	Inclement weather conditions	Loose debris blown around site	2 Minor	3 Possible	M(8)	Ensure all equipment is tied down Dust Suppression where required Personnel to be advised of conditions at pre-start Safety Glasses to be worn at all times  <b>REFERENCES</b> WHSMP FRM-S063 Weekly WHSE Inspection Form	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	82	ACTV	WHS	Interactions between work Groups	Personal Injury and / or property Damage	3 Moderate	3 Possible	M(13)	Clear communication between parties Discuss issues during pre-start Site induction Interface meetings  <b>REFERENCES</b> WHSMP	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	83	ACTV	WHS	240V Hand tool use with nil RCD protection on 240V power outlets	Electric shock, personal injury	5 Critical	3 Possible	H(22)	All 240V power tools to be portable protected by RCD Current electrical test tag on all portable equipment Power tools without current test tag to be placed out of service/ quarantined  <b>REFERENCES</b> WHS Legislation (relevant jurisdictions) Electrical Safety Legislation (relevant jurisdictions) AS/NZS 3012:2010 Electrical installations - construction and demolition sites Managing electrical risks in the workplace MCoP	Level 1 Eliminate	1 Negligible	1 Rare	L(1)	Accept					1 Negligible	1 Rare	L(1)

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	84	ACTV	WHS	Travel from Parking/laydown area to site work area	Accidents, injury to animals, vehicle damage	3 Moderate	3 Possible	M(13)	Drive to conditions Travel during daylight hours where possible Fitness for Work - Good Sleep, Hydrated, Free from impairments Driver to slow if approaching fauna Speed limit not to be exceeded Use scanning technique to spot wild life No loose items in cab Loads secured where required Contact number to be provided if wildlife is effected IVMS  <b>REFERENCES</b> WHSMP WHS legislation (relevant jurisdiction) SOP-S003 Fatigue Management	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	85	ACTV	WHS - HRW	Trenching excavation	Working in the swing radius of excavators	4 Major	3 Possible	H(18)	SWMS Exclusion Zones to be maintained Utilise 30/10 rule Weather Forecast to be monitored Conduct Mobile Plant Checklist Maintenance schedule adhered to Operator Competency Site/plant inspections Minimise number of ground personnel whilst machines operational & use of spotter. PPE as per site requirements DBYD  <b>REFERENCES</b> SOP-S116 Excavation Procedure Excavation Permit	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	86	ACTV	ENV - HRW	Excavation	Spoil management Concrete washout	3 Moderate	3 Possible	M(13)	Designated/approved stock pile Designated/approved washout location  <b>REFERENCES</b> CEMP Traffic Management Plan	Level 1 Eliminate	1 Negligible	2 Unlikely	L(2)	Accept					1 Negligible	2 Unlikely	L(2)
	87	ACTV	WHS	Civil earthworks	1. Excessive dust generation from the plant or from windy conditions. 2. Illness to site personnel including foreign objects (dust) in eyes, and respiratory illness. 3. Vehicle accident due to reduction in visibility. Personnel falling into excavations	2 Minor	3 Possible	M(8)	PPE Water cart to manage dust  <b>REFERENCES</b> WHSMP CEMP	Level 1 Eliminate	1 Negligible	3 Possible	L(4)	Accept					1 Negligible	3 Possible	L(4)
	88	ACTV	ENV	Storage of Materials	Incorrect storage of dangerous or hazardous substances leading to fire or explosion, or escape of substance to the environment. 1. Localised soil contamination.	3 Moderate	3 Possible	M(13)	Storage Cabinets for Chemicals SDS and Register on site  <b>REFERENCES</b> WHSMP	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	89	ACTV	ENV	Civil earthworks	Erosion issues created through incorrect installation or maintenance of sediment and erosion control measures. This is an existing site so spoil material could contaminate yard screenings	3 Moderate	3 Possible	M(13)	Installation of erosion & sediment controls  <b>REFERENCES</b> CEMP	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	90	ACTV	ENV	Dewatering of excavations	Waste water disposal Inappropriate release of sediment laden water to local water ways.	3 Moderate	3 Possible	M(13)	Water removed from excavations will be assessed before being discharged to ground No discharge to any waterways  <b>REFERENCES</b> CEMP EPA	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	91	ACTV	ENV	Concrete Wash-down	Accidental discharge of caustic concrete wash water to waterways. Soil Contamination with concrete slurry. General degradation of site caused by concrete washout solids.	3 Moderate	3 Possible	M(13)	Washdown area established and controlled No discharge to any waterways Sludge and waste removed from site as contaminated waste  <b>REFERENCES</b> CEMP EPA	Level 1 Eliminate	2 Minor	1 Rare	L(3)	Accept					2 Minor	1 Rare	L(3)
	92	ACTV	ENV	Vehicle Movements	Flora Accidental introduction of weeds/invasive flora species causing degradation of site (substation) and surrounding habitat.	4 Major	3 Possible	H(18)	No contaminated weeds identified on site Vehicles arrive on site clean and are inspected prior to commencing operation Vehicles to keep to access roads where possible  <b>REFERENCES</b> CEMP WHSMP FRM-S126 Mobile Plant Inspection form	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	93	ACTV	ENV	Vehicle Movements	Concrete Batch Trucks Accident / personnel injury Increase traffic Movements speeding	4 Major	3 Possible	H(18)	Vehicles arrive on site clean and are inspected prior to commencing operation Vehicles to keep to access roads where possible Vehicles are to obey speed rules and be inducted to site Site TMP to be implemented and reviewed  <b>REFERENCES</b> CEMP WHSMP FRM-S126 Mobile Plant Inspection form	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)

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	94	ACTV	ENV	Stockpiling	Erosion and water runoff from incorrectly stockpiled soils/spoil causing release of sediment to local waterways and surrounding vegetation.	3 Moderate	3 Possible	M(13)	Installation of erosion & sediment controls Inspection and maintenance of erosion and sediment controls  <b>REFERENCES</b> CEMP Erosion and Sediment Control Plan FRM-S063 WHSE Inspection Massive Urban Stormwater Soils and Construction Volume 1, 4th Edition, March 2004	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	95	ACTV	ENV - HRW	Excavation vehicle and mobile plant Movements	Vehicle emissions Concentrated vehicle movements during site excavation activities, causing high levels of emissions. Poorly maintained vehicles causing excessive emissions/pollutants.	3 Moderate	3 Possible	M(13)	Maintenance as per Manufacturers instructions Pre-operational inspections on machinery  <b>REFERENCES</b> WHSMP	Level 1 Eliminate	1 Negligible	1 Rare	L(1)	Accept					1 Negligible	1 Rare	L(1)
	96	ACTV	WHS	Civil earthworks	Illegal / unauthorised operation of plant or equipment by members of the public. Damage to plant or local environment.	3 Moderate	2 Unlikely	M(9)	Competent Operators Plant and Operator inducted to site Training Matrix  <b>REFERENCES</b> WHSMP	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	97	ACTV	WHS	Concrete pouring	Hazardous substances Concrete Burns etc.	2 Minor	3 Possible	M(8)	Induction PPE SDS  <b>REFERENCES</b> WHSMP	Level 3 Admin PPE	1 Negligible	1 Rare	L(1)	Accept					1 Negligible	1 Rare	L(1)
	98	ACTV	WHS	Concrete pouring	Manual handling - cuts and abrasions	2 Minor	3 Possible	M(8)	PPE SWMS / Take 5  <b>REFERENCES</b> WHSMP	Level 3 Admin PPE	1 Negligible	2 Unlikely	L(2)	Accept					1 Negligible	2 Unlikely	L(2)
	99	ACTV	WHS	Concrete pouring	Concrete Pumping Truck roll over personnel and damage to plant Concrete damage Manual handling Overhead damage	2 Minor	3 Possible	M(8)	PPE Site Inductions SWMS / Take 5 Spotter and hose assistant is required Competent Personnel Truck to be setup on stable ground  <b>REFERENCES</b> WHSMP	Level 3 Admin PPE	1 Negligible	2 Unlikely	L(2)	Accept					1 Negligible	2 Unlikely	L(2)
	100	ACTV	WHS	Installation of Formwork and Steel Reinforcing	Electrical hazard to personnel using power tools in the excavation resulting in:- 1. Electric shock 2. Loss of communications 3. Damage to equipment	3 Moderate	3 Possible	M(13)	Tested and Tagged Power Tools RCD in use  <b>REFERENCES</b> AS 3670 In service Inspection & Testing of Electrical Equipment WHSMP	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	101	ACTV	WHS	Installation of Formwork and Steel Reinforcing	Incorrect manual handling techniques resulting in personal injury due to strains on the body	3 Moderate	3 Possible	M(13)	Manual handling training in induction  <b>REFERENCES</b> WHSMP	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	102	ACTV	WHS	Installation of Formwork and Steel Reinforcing	Unprotected and exposed ends of reinforcing bars within the excavation resulting in personal injury from unintended contact with exposed reinforcing bars	2 Minor	4 Likely	M(12)	The end of all vertical reo bars to be capped PPE - Gloves  <b>REFERENCES</b> WHSMP	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	103	ACTV	WHS	Installation of Formwork and Steel Reinforcing	Slips, trips or falls from Formwork or reo resulting in personal injury and or body strains	3 Moderate	3 Possible	M(13)	Steelwork Design Edge Protection  <b>REFERENCES</b> WHSMP SOP-S116 Excavation Procedure	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	104	ACTV	WHS	Installation of Formwork and Steel Reinforcing	Improperly secured loads dropping onto personnel working within the excavation resulting in serious injury from being struck by falling objects	4 Major	3 Possible	H(18)	Trained licensed operators Inspected and tagged lifting equipment HRWL No working under suspended load Lift Plan if required  <b>REFERENCES</b> WHSMP AS2550 Set - 2011 Cranes, Hoists and Winches - Safe Use Set	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)
	105	ACTV	WHS	Installation of Formwork and Steel Reinforcing	Incorrect supporting of hold down bolt assembly can resulting in serious injury from being struck by falling objects	4 Major	3 Possible	H(18)	Exclusion Zones Experienced operators ITC to confirm hold down bolts are tightened  <b>REFERENCES</b> Inspection Test Plan	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)
<b>SUBSTATION WORKS</b>																					
	104	ACTV	WHS	Incorrect storage of dangerous or hazardous substances	Potential for fire or explosion, or escape of substance to the environment and damage to site equipment / plant and facilities	3 Moderate	3 Possible	M(13)	Flammable locker onsite Double skinned diesel storage Self banded containers used in the laydown area  <b>REFERENCES</b> Environmental Protection Act (relevant jurisdictions) Construction Environmental Management Plan Erosion and Sediment Control Plan	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)

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	105	ACTV	WHS	Incorrect storage of dangerous or hazardous substances	Potential for fire or explosion, or escape of substance to the environment and damage to the local environment Potential EPA breach	3 Moderate	3 Possible	M(13)	Flammable locker in container Double skinned diesel storage Self banded containers used in the laydown area  <b>REFERENCES</b> <i>Environmental Protection Act (relevant jurisdictions)</i> <i>Construction Environmental Management Plan</i> <i>Erosion and Sediment Control Plan</i>	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)		
	106	ACTV	WHS	Manual Handling	Personal injury from performing hazardous manual handling tasks or from incorrect manual handling techniques	3 Moderate	3 Possible	M(13)	Mechanical aids to be used for lifting where possible. If mechanical aids cannot be used for lifting heavy items then multiple person lifts must be used. Personnel must assess the weight of the item and ensure they are fit for the task prior to commencing any lift. Material handling equipment must be available. Train personnel in correct manual handling techniques.  <b>REFERENCES</b> <i>WHS Legislation (relevant jurisdictions)</i> <i>Manual Handling CoP</i>	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)		
	107	ACTV	WHS	Roller use	Tip Over, Slip, Slide, Loss of control resulting in personal injury / damage to equipment	4 Major	3 Possible	H(18)	Operator to be aware of ground conditions in the work area When rolling fill areas, rollers will stay 1/2 drum width from the edge of batters To roll edges and batters, the roller will approach at a 45° angle to the edge, drum first, and gently roll batters in a vertical direction, with the drum always facing uphill Light vehicles are not to park closer than 10m to any plant Radio or visual contact must be made with the operator prior to approaching any plant  <b>REFERENCES</b> <i>Traffic Management Plan</i> <i>REG-H003 Company Competency &amp; Training Mat</i> <i>WHS Legislation (relevant jurisdiction)</i> <i>Managing Risks in the Workplace MCoP</i> <i>Managing Risks of Plant in the Workplace MCoP</i>	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept						2 Minor	2 Unlikely	L(5)	
	108	ACTV	WHS	Faulty or poorly maintained mobile plant - not fit for purpose	Harm to the environment or personnel	2 Minor	3 Possible	M(8)	Hire of plant conducted through approved supplier Incoming plant and equipment checked prior to use Pre-start checks conducted daily Damage, breakdown, repairs & maintenance requirements, reported immediately to the Supervisor Unsafe or unserviceable equipment to be isolated/tagged Competent operators Include feedback on equipment servicing / out of service at pre-start meeting discussion Vehicle Numbers  <b>REFERENCES</b> <i>WHS Legislation (relevant jurisdiction)</i> <i>Managing the risk of plant in the workplace MCoP</i> <i>FRM-S123 Mobile Plant Inspection Form</i>	Level 1 Eliminate	2 Minor	1 Rare	L(3)	Accept						2 Minor	1 Rare	L(3)	
	109	ACTV	WHS	Damage to services/utilities on site	Energisation, electric shock, gas explosion, damage to communications etc	4 Major	3 Possible	H(18)	Site specific risk assessment to be carried out prior to commencing work Review "Dial before you Dig". Check for any underground services Underground services to be located by potholing, in presence of asset owner if required Power lines to be clearly defined by use of "goalposts" and flagging if there is a risk of breach Approach zones are to be clearly signposted "Overhead Power Lines" Spotters to be used where necessary Maintain distance clearances  <b>REFERENCES</b> <i>WHSMP</i> <i>WHS Legislation (relevant jurisdictions)</i> <i>Electrical Safety Legislation (relevant jurisdictions)</i> <i>AS/NZS 3012:2010 Electrical installations - construction and demolition sites</i> <i>Managing electrical risks in the workplace MCoP</i>	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept							3 Moderate	1 Rare	L(6)
	110	ACTV	WHS	Working in Confined Space	Asphyxiation. Poisoning. Drowning due to solids or fluids being introduced into the space. Flammable atmospheres causing fire or explosion. Inability to retrieve injured workers.	5 Critical	3 Possible	H(22)	Avoid working in the confined space if able All options for the need to enter a confined space have been considered Unauthorised personnel are prevented from entering the CS Signage is in place at the entrance of the CS. Conditions of the confined space have been communicated to all personnel involved in the activity A valid Confined Space Entry Permit is obtained and current and issued by a competent person Personnel under Confined Space Entry (CSE) have been specifically trained in CSE and Personal Gas Monitoring (PGM) use before entry A "Standby Person" is in place at all times to raise an alarm, "They will not attempt a rescue." All energy sources (Electrical, Gas, Water etc.) to the confined space have been identified and isolated prior to entry Harmful concentrations and types of airborne contaminants are known Maximum duration inside the confined space is defined and documented in the Safe Work Method Statement (SWMS) A rescue plan and rescue equipment (if required) must be in place and a trained first aider with first aid equipment is on site Emergency contact details are documented, and with the Stand by Person The need for ventilation (either forced or mechanical) must be considered in the risk assessment Adequate resources (people and equipment) must be on site in sufficient numbers to meet the above requirements <b>People and equipment must be in fit and serviceable condition in order to complete the activity</b>	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept							2 Minor	2 Unlikely	L(5)
	111	ACTV	WHS	Unauthorised persons or animals being struck by plant	Serious injury to people and animals	5 Critical	3 Possible	H(22)	Site to be fenced off from public access All personnel/visitors to report to appropriate contractor for induction and sign in All gates to be kept closed  <b>REFERENCES</b> <i>Traffic Management Plan</i> <i>REG-H003 Company Competency &amp; Training Mat</i> <i>WHS Legislation (relevant jurisdiction)</i> <i>Managing Risks in the Workplace MCoP</i> <i>Managing Risks of Plant in the Workplace MCoP</i>	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept							3 Moderate	2 Unlikely	M(9)

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	112	ACTV	WHS	Unauthorised persons or animals falling into trench	Serious injury to people and animals	3 Moderate	3 Possible	M(13)	Physical barrier to be used around deep excavations Appropriate flagging and bunting to be used around shallow excavations Signage Benching, Shoring to be used for all trenches over 1.5m deep  <b>REFERENCES</b> SOP-S116 Excavations FRM-S041 Excavation Permit WHS Legislation (relevant jurisdiction) Managing Risks in the Workplace MCoP	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept					2 Minor	2 Unlikely	L(5)
	113	ACTV	WHS	Electrocution	Injury or death	5 Critical	3 Possible	H(22)	Only qualified electrician to connect power Test for Dead .  <b>REFERENCES</b> Managing Electrical hazards in the workplace MCoP WHS Legislation (relevant jurisdiction) Electrical Safety Legislation (relevant jurisdictions) AS/NZS 3012:2010 Electrical installations - construction and demolition sites Emergency Response Plan AS3745-2010 Planning for emergencies in facilities	Level 3 Admin PPE	3 Moderate	2 Unlikely	M(9)	Accept					3 Moderate	2 Unlikely	M(9)
	114	ACTV	WHS	Tampering with equipment	Electrocution, Damage to equipment, injury, death	5 Critical	3 Possible	H(22)	Specific locks to be used Energisation form to be used from first day Complete site toolbox to held on the Day prior to Energisation  <b>REFERENCES</b> Managing Electrical hazards in the workplace MCoP WHS Legislation (relevant jurisdiction) Emergency Response Plan AS3745-2010 Planning for emergencies in facilities SOP-S005 Isolation and LockOut	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept					3 Moderate	1 Rare	L(6)
<b>CABLE RETICULATION</b>																					
	120	ACTV	WHS	Landowner excavations	Assets are damaged by landowner excavations	4 Major	3 Possible	H(18)	Communication with local landowners by Main Contractor Trench line marker posts installed as part of reinstatement CPP PM to liaise with landowners following cable installation for landowner awareness Weekly landowner meetings – landowners can use this forum to approach main contractor prior to excavations which may affect assets installed by the project	Level 3 Admin PPE	3 Moderate	1 Rare	L(6)	Accept		Site Manger, All Supervisors and Workers			3 Moderate	1 Rare	L(6)
	121	ACTV	WHS	All activities	Trip, slip and fall risks Injury or damage from fire Increased risk of snake and spider bites Waste blown around on site by wind. Injury from being struck by airborne debris.	3 Moderate	3 Possible	M(13)	Weekly Site Inspections conducted All Personnel to observe potential hazards in work area, report hazards to supervisors. Waste to be removed or secured daily Effective securing of items at site and whilst transporting across site. Supervisors monitoring of worksites PPE – gloves to be worn for manual handling tasks Consider snakes and spiders when cleaning site rubbish	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept		Site Manger, All Supervisors and Workers			2 Minor	2 Unlikely	L(5)
	123	ACTV	WHS	All activities	Damage to property Injury due to power line. Electrocution. Damage to cables at any crossover points. Work under the HV lines at various points	5 Critical	3 Possible	H(22)	SWMS CoP: Managing Electrical Risks at the Workplace. Technical Regulators requirements for working near overhead power. Signage highlighting overhead lines Spotter to monitor movements of trenching machine across identified stage cable runs. Extra spotters in place whilst trenching activities pass under overhead powerlines Cross over points are to be on GPS points for accurate future location finding. Toolbox meeting at daily prestart if performing cable crossing or passing under overhead powerlines 30/10 rule communicated in Induction and SWMS	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept		Site Manger, All Supervisors and Workers			3 Moderate	2 Unlikely	M(9)
	124	ACTV	WHS - HRW	Operating Mobile Plant and Equipment on site.	Machinery breaking down. Repairs not actioned. Personal injuries or fatality. Equipment damage. Mobile plant collision with nearby structure or equipment. Plant tipping or driving into excavations. Operator not being able to clearly see or hear signals or directions given by spotter Hearing loss. Equipment failure. Uncontrolled Loads. Mobile plant rollover. Damage to plant Damage to roads and infrastructure Contact between plant/plant or plant/people Vehicle becoming bogged on site	5 Critical	2 Unlikely	H(19)	Training Matrix Keep monitoring and coaching plant and vehicle operators to maintain positive communications – pre-starts/toolbox Spotter used as appropriate as per SWMS task Pre-start checklists Licensed, competent operators PRA's in all mobile plant Trained and experienced workers to be used wherever possible in unstable terrain. Terrain to be assessed prior to works being undertaken and to ensure suitability of machine for task required. 50/30/10 rule for all plant interactions Appropriately rated and inspected lashings to be used whenever required Site mandated PPE to be worn always. Hearing protection mandatory within 10m of operating machinery SWMS – Trenching Cable Laying, Inlet and Outlet Excavations, Mobilisation and Demobilisation Trench run survey, trench run checklist Unique Plant ID's Vehicle recovery SOP Emergency retrieval plans MUST be considered when developing Safe Work Method Statement (SWMS)'s Safe Work Method Statement (SWMS)'s to include instructions for safe practices appropriate to the hazards Pedestrian walkways and restricted zones Warning devices will be fitted to all plant and used when plant is operating. Site is fenced off from the general public Vehicle Numbers  <b>REFERENCES</b> Traffic Management Plan REG-H003 Company Competency & Training Matrix WHS Legislation (relevant jurisdiction)	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept		Site Manger, All Supervisors and Workers			3 Moderate	1 Rare	L(6)
	125	ACTV	WHS	All activities	Interference with radio communication. Poor reception. Unable to communicate with our crews in an emergency or as part of general communications	3 Moderate	3 Possible	M(13)	UHF radio to be in all mobile plant and vehicles. Hand held radios available Personnel encouraged to not 'chat' on the radio. To be used for work purposes only Dedicated Channel for site  <b>References</b>	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept		Site Manger, All Supervisors and Workers			2 Minor	2 Unlikely	L(5)

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	126	ACTV	WHS - HRW	Operating Mobile Plant and equipment on site – Preparation of trenching routes	Personal injuries or fatality. Equipment damage. Mobile plant collision with nearby structure or equipment. Plant tipping, or driving into excavations Operator not being able to clearly see or hear signals or directions given by spotter/supervisor Hearing loss. Equipment failure. Uncontrolled Loads. Breakdown Injury to personnel interacting with mobile plant	5 Critical	2 Unlikely	H(19)	Exclusion Zones to be maintained Weather Forecast to be monitored Conduct Mobile Plant Checklist Maintenance schedule adhered to Lifting Equipment Inspection Operator Competency Site/plant inspections Minimise number of ground personnel whilst machines operational & use of spotter. Utilise 50/30/10 rule PPE as per site requirements DBYD  <b>REFERENCES</b> SOP-S118 Excavation Procedure Excavation Permit	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept		Site Manger, All Supervisors and Workers			3 Moderate	1 Rare	L(6)
	127	ACTV	WHS	Stripping the surface of the area required for the trenching activities	Grass fire	3 Moderate	3 Possible	M(13)	SWMS Trenching Cable Laying Fire Ute to shadow grader during trench route stripping in fire danger season – 1000L fire fighting tank mounted to trailer. Perform fire risk assessment on trencher prior to works commencing  <b>REFERENCES</b> CEMP	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept		Site Manger, All Supervisors and Workers			3 Moderate	1 Rare	L(6)
	128	ACTV	WHS	Distribution of cable drums around site Disposal of cable drums once empty	Cable drum rolls due to inadequate or lack of chocks Cable drum becomes unsecured from transport vehicle on site Inexperienced operator damages cable due to poor load handling Collision between mobile plant or plant and vehicle Cable drums stored on unstable ground Plant unable to lift cable drum Personnel struck by load or mobile plant Cut or crush injury during disposal of	4 Major	3 Possible	H(18)	Licensed, experienced operators to be used Lashings to be appropriately rated for load Cable drums protected by stainless steel or wood covers Radio communication to be maintained at all times Maintain 30/10 Rule Consult with Main Contractor regarding ideal location for storage of cable drums SWMS Wood chocks to be used for controlling cable drums on ground or if empty consider storing on side to prevent possibility of rolling Use Drum Lifters  <b>REFERENCES</b> CEMP	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept		Site Manger, All Supervisors and Workers			2 Minor	2 Unlikely	L(5)
	129	ACTV	WHS - HRW	Excavation and Access to Excavations	Damage to existing services. Injury to personnel and equipment damage. Personnel or items fall into the trench collapse Damage services that have been installed by the project Injury to fauna or stock due to open trench	3 Moderate	3 Possible	M(13)	SWMS DBYD Excavation Permit to Work Lanyards for hand tools Vicinity Access Permit Electrical trench location is marked at pre- determined locations GPS surveying and tracking of trench locations Notice given (ideally 5 days) to CPP to organise stock movements out of works area Portable electric fence available to barricade open excavations if stock in same area  <b>REFERENCES</b> Code of Practice – Managing the risk of falls in the workplace WHSMP CEMP	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept		Site Manger, All Supervisors and Workers			2 Minor	2 Unlikely	L(5)
	130	ACTV	WHS - HRW	Trenching and Cable Laying operations	Personnel injury. Damage to plant and equipment. Mobile equipment colliding with other equipment or personnel. Equipment failure Personnel falling/tripping. Personnel being hit by load. Unable to exit/rescue easily. Fire. Environmental incident Industrial diseases – deafness, lung issues Running out of cable Striking in-ground services Striking above ground services Stop works due to damaging cable Falls from height Equipment Fire / Environmental Damager / Bush Fire	3 Moderate	3 Possible	M(13)	Mobile Plant Inspection Maintenance schedule Wear correct PPE according to site requirements Trenching crew to maintain position assigned unless otherwise directed. Make contact with mobile plant before moving location Fire Ute to shadow trenching operations on fire danger days Spill Kits on trencher Trenching routes pre-stripped according to GPS Cable schedule Spotters in place for cable crossings - 4m exclusions Step-potential toolbox prior to cable crossings SWMS Spotters at front and back of trenching machine observing cable install if required Sand cart or hopper used to pack around cable with approved sand Daily pre-start checks on all mobile plant and machinery Reinstatement occurs as part of trenching process Mobile phones not to be used during trenching process Exclusion zones to be included in pre-works induction and toolbox Ongoing toolbox talks 3 Points of contact at all times, face the equipment whilst ascending / descending Fire Extinguishers located on machines, further fire extinguishers available from other machines in cable laying train	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept		Site Manger, All Supervisors and Workers			2 Minor	2 Unlikely	L(5)
	131	ACTV	WHS	Cable unspooling	Personnel injury through poor manual handling of cable Damage to Plant and Equipment Damage to cable whilst unspooling on machine Damage to cable due to rocks on ground	2 Minor	3 Possible	M(8)	SWMS Rollers to hold cable up if terrain presents a risk to cable integrity Daily pre-start checks on all mobile plant and machinery	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept		Site Manger, All Supervisors and Workers			2 Minor	2 Unlikely	L(5)
	132	ACTV	WHS	Reinstatement and trench compaction	Personnel falling into trench Personnel injured due to uneven terrain Plant or vehicles become bogged in soft ground Soil washed away due to inadequate compaction Rubbish on site, in landowner's paddocks	3 Moderate	3 Possible	M(13)	Plant and personnel site induction Monitor weather conditions to ensure reinstatement can be completed satisfactory Do not drive vehicles directly on trench line Compaction tests and Test Pits to check for quality of work No project vehicles to drive on trench lines  <b>REFERENCES</b> CEMP ITC	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept		Site Manger, All Supervisors and Workers			2 Minor	2 Unlikely	L(5)

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	133	ACTV	WHS	Fencing	Fencing contractors strike buried services (project assets). Stock escape through open fence line	4 Major	3 Possible	H(18)	Site Inductions. Permit System Wall map to show buried services. Map used by fencers MUST be in possession of fencers at all times highlighting potential services and accompany the permit application before a permit is formally issued. SWMS Consult with landowners regarding stock locations and movements	Level 1 Eliminate	3 Moderate	2 Unlikely	M(9)	Accept		Site Manger, All Supervisors and Workers			3 Moderate	2 Unlikely	M(9)
	136	ACTV	WHS	Work near public roads or railways	Damage to infrastructure. Collisions. Delays to traffic. Confusion for users.	3 Moderate	3 Possible	M(13)	Site specific and council requirements Traffic Control Plan Communicate trenching movements to other work groups and local landowners/council prior to work commencing	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept		Site Manger, All Supervisors and Workers			2 Minor	2 Unlikely	L(5)
	137	ACTV	WHS	Driving on public roads and around site.	Traffic accident Unlicensed driver. Inappropriate response after an accident Incidents / Near Misses. Injury / death to fauna	3 Moderate	3 Possible	M(13)	Obey the road rules Vehicle maintenance to OEM standards Park on level ground on site with the handbrake applied. Drive to conditions – Message to be re-enforced during inductions / pre-starts 4x4, diesel powered vehicles only	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept		Site Manger, All Supervisors and Workers			2 Minor	2 Unlikely	L(5)
	138	ACTV	WHS	Receive unload and store materials and equipment on site	Personal injury. Load or part of load shifts when ties are released. Sprains and strains. Rigging or lifting equipment failure causing load to fall. Slipping and tripping. Personnel not clearly visible to mobile plant operator. Delivery personnel unaware of site requirements.	3 Moderate	3 Possible	M(13)	PPE Supervision Planning activities Communicate deliveries to work groups at pre- starts – 1-day notice if possible Crane operator(s) and Dogman/Riggers licensed Utilise platform ladders if required to access flat deck trailers or maintain 3 points of contact during flat deck access Utilise radio communications wherever possible during loading and unloading procedures Exclusion Zones	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept		Site Manger, All Supervisors and Workers			2 Minor	2 Unlikely	L(5)
	139	ACTV	WHS	Relocating materials from laydown areas to work areas	Personal injury and injury to others, equipment damage. Sprains and strains. Collision with other equipment or vehicles on roads.	3 Moderate	3 Possible	M(13)	Obey site traffic rules Monitor ground conditions and weather Maintain site specific UHF channel for communicating travel intentions Lightning monitoring ongoing. Site shutdown if lightning detected within 10km before tower erections and 50km after tower erections	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept		Site Manger, All Supervisors and Workers			2 Minor	2 Unlikely	L(5)
	140	ACTV	WHS	Traffic	Impatience leading to accidents Speeding vehicles Damage to tyres	3 Moderate	3 Possible	M(13)	All personnel to attend site induction Specific plans for road crossings/demobilisations etc. Comply with site rules. Stay on site roads once constructed. Road Crossings and Closures raised at weekly site meeting for planning activities across site. All changes of site road speeds or conditions will be raised at pre-start 4WD vehicles only unless authorised by site manager.	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept		Site Manger, All Supervisors and Workers			2 Minor	2 Unlikely	L(5)
COMMISSIONING																					
	141	ACTV	WHS	Interaction between other stakeholders / contractors	Exposure to risk on other projects. Personal Injury Property Damage	4 Major	4 Likely	E(21)	Communications between CPP, Vestas, BayWa and Powercor Pre-mobilisation interface meeting Weekly Interface meetings Discuss interface concerns during Daily Prestart Include in Site Induction	3	4 Major	2 Unlikely	M(14)	Accept		Site Manger, All Supervisors and Workers			4 Major	2 Unlikely	M(14)
	142	ACTV	WHS	Cable testing	Personnel electrocuted by residual charge left in cable	3 Moderate	3 Possible	M(13)	Only trained personnel to complete test using calibrated plant (megger) PPE to be worn	Level 3 Admin PPE	2 Minor	2 Unlikely	L(5)	Accept		Site Manger, All Supervisors and Workers			2 Minor	2 Unlikely	L(5)
	143	ACTV	WHS	Configure HV AC Breakers	Equipment Failure Equipment Damage Project Delays	3 Moderate	3 Possible	M(13)	Follow Manufacturer Instructions Personnel are not to work alone Only Qualified Personnel. LV Kit to be located nearby. CPP Testing Crew to have completed LV Training.	2	3 Moderate	2 Unlikely	M(9)	Accept		Site Manger, All Supervisors and Workers			3 Moderate	2 Unlikely	M(9)
	144	ACTV	WHS	Configure LV AC Breakers	Equipment Failure Equipment Damage Project Delays	3 Moderate	3 Possible	M(13)	Follow Manufacturer Instructions Personnel are not to work alone Only Qualified Personnel. LV Kit to be located nearby. All Tesla/ CPP Crew to have completed LV Training.	2	3 Moderate	2 Unlikely	M(9)	Accept		Site Manger, All Supervisors and Workers			3 Moderate	2 Unlikely	M(9)

DIVISION	LINE ITEM	ACTIVE / NOT ACT	CATEGORY OF RIS	TASK OR HAZARD	RISK/S (Including details of how and why this event would occur)	CONSEQUENCE RATING	LIKELIHOOD RATING	INHERENT RISK RATING	EXISTING CONTROLS	HIGHEST CONTRO LEVEL	CONSEQUENCE RATING	LIKELIHOOD RATING	CURRENT RISK RATING	TREAT OR ACCEPT	ADDITIONAL CONTROLS SPECIFIC TO THE PROJECT	RESPONSIBLE FOR IMPLEMENTING ACTION PLANS	DUE DATE	STATUS (COMPLETE INCOMPLETE)	CONSEQUENCE RATING	LIKELIHOOD RATING	RESIDUAL RISK RATING
	145	ACTV	WHS	Apply/Remove Electrical Isolations (LV Only)	Electric Shock Equipment Failure Equipment Damage Project Delays	4 Major	3 Possible	H(18)	Follow LOTO Procedure for LV Wear appropriate PPE for the task Personnel are not to work alone Discussed in Morning Pre-Start Meeting.  <b>REFERENCES:</b> LOTO Procedure - for LV Site JHA - for HV	3	4 Major	2 Unlikely	M(14)	Accept		Site Manger, All Supervisors and Workers			4 Major	2 Unlikely	M(14)
	146	ACTV	WHS	Switching (During Commissioning not Live)	Equipment Failure Equipment Damage Project Delays	3 Moderate	3 Possible	M(13)	Site Notification - Radio Work-Group to have a minimum of two personnel Work-Group to visually confirm no personnel are working in the vicinity of the equipment to be switched Wear appropriate PPE for the task Personnel are not to work alone Only Qualified Personnel. LV Kit to be located nearby. All CPP Crew to have completed LV Training.	2	3 Moderate	2 Unlikely	M(9)	Accept		Site Manger, All Supervisors and Workers			3 Moderate	2 Unlikely	M(9)
<b>ENERGISATION</b>																					
	147	ACTV	WHS	Tampering with equipment prior to energisation	Electrocution, Damage to equipment, death	4 Major	3 Possible	H(18)	Site HV Operating Procedures to be used Specific locks to be used with controlled keys (HVOA Instruction) Energisation form to be used from first day and provided if required or requested so the condition of the plant is clear Complete site toolbox to be held on the Day prior to Energisation  <b>REFERENCES</b> <i>Managing Electrical hazards in the workplace MCoP</i> <i>WHS Legislation (relevant jurisdiction)</i> <i>Emergency Response Plan</i> <i>AS3745-2010 Planning for emergencies in facilities</i> <i>COB, COES Isolation and LockOut</i>	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept		Site Manger, All Supervisors and Workers			3 Moderate	1 Rare	L(6)
	148	ACTV	WHS	Energisation Checklist and documents	Electric Shock Equipment Failure Equipment Damage Project Delays	4 Major	3 Possible	H(18)	Confirm all CPP construction documentation is complete and signed Confirm all CPP commissioning documentation is complete and signed Confirm Vestas/BayWa Construction Checklist is complete and signed Clearance to energise form completed (HV Switching Procedures) Confirm no personnel are working in the vicinity of the equipment to be operated Confirm equipment is ready to be operated  <b>REFERENCES</b> <i>Managing Electrical hazards in the workplace MCoP</i> <i>WHS Legislation (relevant jurisdiction)</i> <i>Site Commissioning and Construction ITP and ITC's</i> <i>Powercor/Vic Inspection Forms Completed</i>	3	4 Major	2 Unlikely	M(14)	Accept		Site Manger, All Supervisors and Workers			4 Major	2 Unlikely	M(14)
	149	ACTV	WHS	Energisation Substation	Electrocution, Damage to equipment, death	5 Critical	3 Possible	H(22)	Site HV Operating Procedures to be used Correct HV locks to be used Clearance to energise form Electrical ECOES form Essential personnel only in substation Pre-energisation checklist completed by commissioning engineer (leads to clearance to energise form) No vehicles within the substation LIVE signs in place HVOA aware and incontrol of HV apparatus being energised Switching sheet checked and all controls implemented  <b>REFERENCES</b> <i>Managing Electrical hazards in the workplace MCoP</i> <i>WHS Legislation (relevant jurisdiction)</i> <i>Emergency Response Plan</i> <i>AS3745-2010 Planning for emergencies in facilities</i> <i>HV Operating Procedures</i>	Level 1 Eliminate	3 Moderate	1 Rare	L(6)	Accept		Site Manger, All Supervisors and Workers			3 Moderate	1 Rare	L(6)
	150	ACTV	WHS	Landowners and stakeholders	Electrocution, Damage to equipment, death	5 Critical	3 Possible	H(22)	Brief landowners/stakeholders and notify of equipment "energisation" Ensure live equipment is locked and under the control of site HV Procedures Ensure Substation gates/kiosks or turbines remains locked and areas are controlled  <b>REFERENCES</b> <i>Managing Electrical hazards in the workplace MCoP</i> <i>WHS Legislation (relevant jurisdiction)</i> <i>Emergency Response Plan</i> <i>AS3745-2010 Planning for emergencies in facilities</i>	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept		Site Manger, All Supervisors and Workers			2 Minor	2 Unlikely	L(5)
		ACTV	WHS	Delineation between WTG Construction and Energised Sub	Electrocution, Damage to equipment, death	3 Moderate	3 Possible	M(13)	HV Disconnected between Substation and WTG's HV Operating procedures to be used with the correct HV Locks and controls Radial Earth to remain connected to ensure control of design earthing remains prolific Live signs to be in place to show energised plant Tool box talks to discuss energised plant  <b>REFERENCES</b> <i>Managing Electrical hazards in the workplace MCoP</i> <i>WHS Legislation (relevant jurisdiction)</i> <i>Emergency Response Plan</i> <i>AS3745-2010 Planning for emergencies in facilities</i> <i>HV Operation Procedures</i>	2	3 Moderate	2 Unlikely	M(9)	Accept		Site Manger, All Supervisors and Workers			3 Moderate	2 Unlikely	M(9)



DIVISION	LINE ITEM	ACTIVE / NOT ACT	CATEGORY OF RIS	TASK OR HAZARD	RISK/S (Including details of how and why this event would occur)	CONSEQUENCE RATING	LIKELIHOOD RATING	INHERENT RISK RATING	EXISTING CONTROLS	HIGHEST CONTRO LEVEL	CONSEQUENCE RATING	LIKELIHOOD RATING	CURRENT RISK RATING	TREAT OR ACCEPT	ADDITIONAL CONTROLS SPECIFIC TO THE PROJECT	RESPONSIBLE FOR IMPLEMENTING ACTION PLANS	DUE DATE	STATUS (COMPLETE INCOMPLETE)	CONSEQUENCE RATING	LIKELIHOOD RATING	RESIDUAL RISK RATING
	151	ACTV	WHS	Energisation Turbines	Electrocution, Damage to equipment, death	5 Critical	3 Possible	H(22)	<p>Site HV Operating Procedures to be used Correct HV locks to be used Clearance to energise form (Turbines ready) Electrical ECOES form Essential personnel only when energising Pre-energisation checklist completed by commissioning engineer (leads to clearance to energise form) LIVE signs in place HVOA aware and incontol of HV apparatus being energised Switching sheet checked and all controls implemented</p> <p><b>REFERENCES</b> <i>Managing Electrical hazards in the workplace MCoP</i> <i>WHS Legislation (relevant jurisdiction)</i> <i>Emergency Response Plan</i> <i>AS3745-2010 Planning for emergencies in facilities</i> <i>HV Operating Procedures</i></p>	Level 1 Eliminate	2 Minor	2 Unlikely	L(5)	Accept		Site Manger, All Supervisors and Workers			2 Minor	2 Unlikely	L(5)
	152	ACTV	WHS	Soaking HV Cables (Collector Cables)	Equipment Failure Equipment Damage Project Delays	3 Moderate	3 Possible	M(13)	<p>Site Notification - Radio Follow Manufacturer Instructions Gates to Locked Permits to be completed and in place Site to be treated as Live.</p> <p><b>REFERENCES</b> <i>Manufacturer Instruction Manual</i></p>	2	3 Moderate	2 Unlikely	M(9)	Accept		Site Manger, All Supervisors and Workers			3 Moderate	2 Unlikely	M(9)
	153	ACTV	WHS	Soaking Transformers (Aux Transformer)	Equipment Failure Equipment Damage Project Delays	3 Moderate	3 Possible	M(13)	<p>Site Notification - Radio Follow Manufacturer Instructions</p> <p><b>REFERENCES</b> <i>Manufacturer Instruction Manual</i></p>	2	3 Moderate	2 Unlikely	M(9)	Accept		Site Manger, All Supervisors and Workers			3 Moderate	2 Unlikely	M(9)
		ACTV	WHS	Arc Flash	Switching during energisation (22kV Switchboard)	3 Moderate	3 Possible	M(13)	<p>ARC Flash contained within the switchboard and vented via the arc ducting fitted to the switchboard Remote switching is the preferred option and to be used wherever practicable</p> <p><b>REFERENCES</b> <i>Manufacturer Instruction Manual</i> <i>HV Operating procedures</i></p>	2	3 Moderate	2 Unlikely	M(9)	Accept		Site Manger, All Supervisors and Workers			3 Moderate	2 Unlikely	M(9)
		ACTV						#N/A					#N/A	###					0	0	#N/A
		ACTV						#N/A					#N/A	###					0	0	#N/A
		ACTV						#N/A					#N/A	###					0	0	#N/A
		ACTV						#N/A					#N/A	###					0	0	#N/A
		ACTV						#N/A					#N/A	###					0	0	#N/A
		ACTV						#N/A					#N/A	###					0	0	#N/A
		ACTV						#N/A					#N/A	###					0	0	#N/A
		ACTV						#N/A					#N/A	###					0	0	#N/A
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		ACTV						#N/A					#N/A	###					0	0	#N/A