

**SCHEME: DUNOON – LOCH LONG CROSSING**

**TITLE: CONDUCTOR RETRIEVAL / CONDUCTOR INSTALLATION**

	Position	Signed	Date
Prepared by:	General Foreman - TOHL	[Redacted]	29-03-22
Reviewed by:	Operations Manager	[Redacted]	29-03-22

Method Statement

**REVISION SCHEDULE**

Revision	Issue date	Details of issue/amendment	Status
0	29/03/2022	First Issue	For Comment
01	21/04/2022	Amended drawings	For comment
02	02/11/2022	Updated Following Review	For Comment
03	02/12/2022	Updated following Review	For Comment
04	24/01/2023	Updated following Review	For comment
05	03/02/2023	Final Review and Issue	For Issue



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# Method Statement

## 1 PURPOSE

This document details the working method for conductor retrieval & installation spanning the Loch Long Crossing.

## 2 RESOURCE REQUIREMENTS

### 2.1 Personnel

The table below shows the minimum personal requirements for the activity. Personnel can be substituted with personnel of a higher level.

Quantity	Role	Additional Information
2	Site supervisor	Charge hand/Foreman
12	LE1	
2	Pilot(helicopter)	
2	Stand-by boats	Guard Vessels to enforce exclusion zone

### 2.2 Skill Requirements

The working party detailed above must, between them, have all of the skills listed below to complete the works detailed within this document.

Skill Requirements	Skill Requirements
CCNSG Safety Passport, CSCS Card or EUSR SHEA Power	All
Manual Handling	All
First Aid	All
Tower Rescue	Min. 2 Personnel
Slinger Signaller certification/qualification	Slinger Signaller
Appropriate Competencies required for Vessel operations (As determined by Vessel Operator and verified through vessel assurance process)	Vessel Operators

### 2.3 PPE

The minimum PPE requirement for everyone is listed below. PPE items must be worn at all time.

Item	Description	Additional Information
1	Hard Hat	c/w Chin Strap
2	Approved Coveralls	Flame Retardant & Arc Protection
3	High Visibility Clothing	
4	Foot Protection	Ankle support, steel mid-sole & toe protection

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5	Protective Gloves / Gauntlets	Suitable for task
6	Safety Glasses	Tinted when required
	<i>Appropriate PPE required for Vessel Classification (As determined by Vessel Operator and verified through vessel assurance process)</i>	<i>Vessell Operators Only</i>

2.4 Plant and Equipment

Item	Description	Quantity Required
1	Tesmec Puller / tensioner	2
2	Telescopic Tele-handler (ROTO)	2
3	Various Lifting slings – fit for purpose	As Required
4	Drum stands & spindles	4
5	Hand tools – Spanners, Ratchet/Sockets etc	As Required
6	20mm Tesmec COY Dyneema rope	2000m
7	Stockings & connectors	As Required
8	Demarcation – as required by risk assessment	As Required
9	EPZ Zones	2
K10	Stand-by Guard boat	2
11	Catchblocks for CSS	TBD
12	Helicopter (Required for Contingency)	1
13	MOD Guard Vessel	If deemed necessary by KHM

2.5 Materials

Item	Description	Quantity Required
1	Conductor drums	As specified / drawing

2.6 Permits Required

	PTW	Yes
	MSLOT – Marine License and Peel Ports – Works License	Yes
	Security Clearance (Coulport and Glen Falloch)	TBC

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MOD Permit/Consent	Yes
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2.7 Safety Documentation

Point of Work Risk Assessment (POWRA)	As Required
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2.8 Quality Documentation

Conductor installation record	Yes
Conductor sagging record	Yes
Steelwork strengthening record	Yes

SAFETY NOTES

2.9 Safety

- 2.9.1 All work will be in accordance with this Method Statement.
- 2.9.2 Only operatives with sufficient relevant training and with a valid current certificate may operate a crane.
- 2.9.3 Plant and equipment must not be left unattended on site, all plant and equipment must be secured and locked off to prevent 3<sup>rd</sup> parties vandalising or attempting to steal.
- 2.9.4 Ensure all safety documentation has been issued by the SAP (where required).
- 2.9.5 When working in close proximity to overhead lines – minimum safety distances must be adhered to at all times.
- 2.9.6 Ensure that a site-specific risk assessment has been completed and all, operatives undertaking the work have signed on to the Point of Work Risk Assessment (POWRA) stating that they have read and understand the contents.
- 2.9.7 All lifting equipment must clearly display the current colour code for the period. Any items found with the incorrect colour code must be placed in quarantine and reported to the material controller who will send it back to the plant department and remove it from the LOLER Register.
- 2.9.8 Linesmen to be attached at all times from leaving ground level.

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2.9.9 Drip trays and emergency spill kits to be used with all plant.

2.9.10 Emergency Response Plan will be available on site which will detail all safety critical information such as nearest hospital and key personnel contact information

2.9.11 A Stand-by boat to be situated on either side of the crossing to act as guard vessels to prevent any traffic from passing under conductor whilst works are ongoing.

2.9.12 Communication method between all parties to be agreed prior to works and briefed before works can commence.

### 2.10 Quality Check

2.10.1 Upon completion of the work all quality check sheets **must** be completed, if applicable.

### 2.11 Client Rules & Requirements

#### SHET Golden Rules and 30-minute Reporting Rule

- Assess risks
- Wear personal protective equipment (PPE)
- Accept challenges
- Reverse Park
- Everyone holds the handrail

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### 3 METHODS OF WORK

**Note:** This method of works assumes the current condition of the conductor is suitable to allow traditional ‘continuous tension stringing’ works.

#### 3.1 Method of work

- 3.1.1 Existing conductor (currently in-situ spanning Loch long between steel lattice crossing towers) vertical bottom conductor air draft clearance from water approx. 75m.
- 3.1.2 Equi-potential zones (EPZ) set up adjacent to anchor towers (anchor towers sit behind the crossing towers). See Figure 1 below. The EPZ will be Approx 10x15m (Figure 4) and will be installed from 2 weeks prior to the first water closures in preparation of the reconductoring works. Figures 2 and 3 show the location of the EPZ set ups at either side of the crossing.
- 3.1.3 Existing conductor is placed into Running out wheels (ROW) on both crossing towers & both anchor towers in preparation for ‘continuous tension stringing’ works.
- 3.1.4 Tensioner (West side of the crossing) - Existing conductor is connected via Tesmec stockings to the Tesmec COY Dyneema rope at the tension end of the pull.
- 3.1.5 Puller (East side of the crossing) - Existing conductor is connected to Tesmec puller via Dyneema rope.
- 3.1.6 A catenary Support System (CSS) consisting of a number of Catchblock is to be deployed on the phase/Earthwire conductor to be replaced. The catchblocks are connected using a rope on either side of the conductor and span full span at a pre-determined spacing. This CSS acts as a safeguard and prevents the conductor from dropping into the water in the event of a failure when replacing conductor.

**Note: Conductor pulling operations can only commence during agreed waterway closures, schedule of required closures below. Wind speed and direction will also be checked prior to works, works to cease if wind speed exceeds 15mph. Proposed area to be closed is 500m either side of the outer most conductors. (As illustrated Below)**



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**3.1.7 Note: Guard vessel(s) to be present during closures to ensure waterway remains free from any traffic during operations. In the event of an emergency these will be used to assist recover of conductor by maintaining the exclusion zones.**

**Cct 1 & E/W:**

- 6 hr closure (10am-4pm) per day for 3 days for E/W Replacement
- 6 hr closure (10am-4pm) per day for 3 days for Top Phase Replacement
- 6 hr closure (10am-4pm) per day for 3 days for Middle Phase Replacement
- 6 hr closure (10am-4pm) per day for 3 days for Bottom Phase Replacement

**Cct 2 :**

- 6 hr closure (10am-4pm) per day for 3 days for Top Phase Replacement
- 6 hr closure (10am-4pm) per day for 3 days for Middle Phase Replacement
- 6 hr closure (10am-4pm) per day for 3 days for Bottom Phase Replacement

**3.1.8** Existing conductor is pulled 1 phase at a time in sequence Top, Mid , Bottom. Current conductor tension is reduced during this operation, but sufficient tension will remain to ensure conductor never comes into contact with the water, 20m clearance above the waterline to be aimed for throughout the operation.

Note: if an emergency vehicle has to pass under the crossing, all parties to be made aware via agree communication method. Operations will be halted and provisions made to allow emergency vessel through. It will take approximately 5 minutes for the works to be halted and made safe to allow an emergency vessel to pass.

**3.1.9** During the conductor stringing works the Dyneema rope will be used to hold back & tension the conductor. When the existing conductor is fully retrieved the Dyneema rope will be in place having replaced the old conductor.

**3.1.10** This Dyneema rope will then be used for pulling the new conductor across the crossing, again 20m clearance will be maintained throughout this operation.

**3.1.11** When the new conductor has been strung, it will be tensioned to the agreed sag requirements to ensure clearance to waterway is as per design requirements. See Example Pull section in Figure 2.

**3.1.12 Contingency** - In the unlikely event of a conductor failure, during the operations above, the conductor will be retrieved from the catenary support system using the tesmec puller/ tensioners set up at each end of the pull. This retrieval is expected to take 30 mins to complete. A helicopter would then be utilised to fly the Dyneema rope across the Loch long crossing, tension would be maintained throughout this operation to maintain clearance to the waterway below. This Dyneema rope would then be used to pull out the new conductor as per points 3.1.9 to 3.1.11.

**Note: Any failed conductor must be earthed before this is retrieved**

**3.1.13** A double circuit outage will be required for 3.1.10

**3.1.14** All towers to be left secured at the end of each working day as agreed by the SAP

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### 4 Environmental Notes

#### 4.1 Waste management

- 4.1.1 Site waste will be managed as per the approved Site Waste Management Plan. Key principles that will be implemented during the works include:
- All waste will be segregated into recyclable, non-recyclable and hazardous waste and kept in separate containers while on site;
  - At the end of the shift all waste will be removed from site and deposited into the correct waste receptacle located at the main site yard; and
  - Littering will not be tolerated.

#### 4.2 Working areas

- 4.2.1 Works will only be undertaken within the agreed working area. Generally, this will mean that the actual works and the storage of equipment will be restricted to the provided hard standing areas. Works areas will be clearly defined before the work commence. Under no circumstances will any vehicle, plant or any of the materials encroach on the surrounding areas outside the designated works area.
- 4.2.2 As works are within MOD designated area, consent will need to be obtained from MOD to occupy area during works.

#### 4.3 Management of hazardous substances

- 4.3.1 Hazardous substances will be stored, handled and be disposed of in line with applicable legislation, the CEMP and the SWMP. Any spillages will be reported immediately to the Environmental Advisor.
- 4.3.2 All Vessels to be MARPOL compliant as applicable.

#### 4.4 Protected species and Archaeological features

- 4.4.1 The CEMP, Tower Hazard Matrix and provided maps will be consulted to ensure the works are completed without any negative impacts on protected species and any features of archaeological significance.

#### 4.5 Welfare

- 4.5.1 The team undertaking the work should familiarise themselves with the site and identify the closest welfare facility. Welfare facilities will be available on site.

#### 4.6 Housekeeping

- 4.6.1 Team members will ensure that their work area remains neat, well organised and free of any litter or unused materials. Available space will be optimized by careful planning and the prompt removal of waste and any unused materials and plant.

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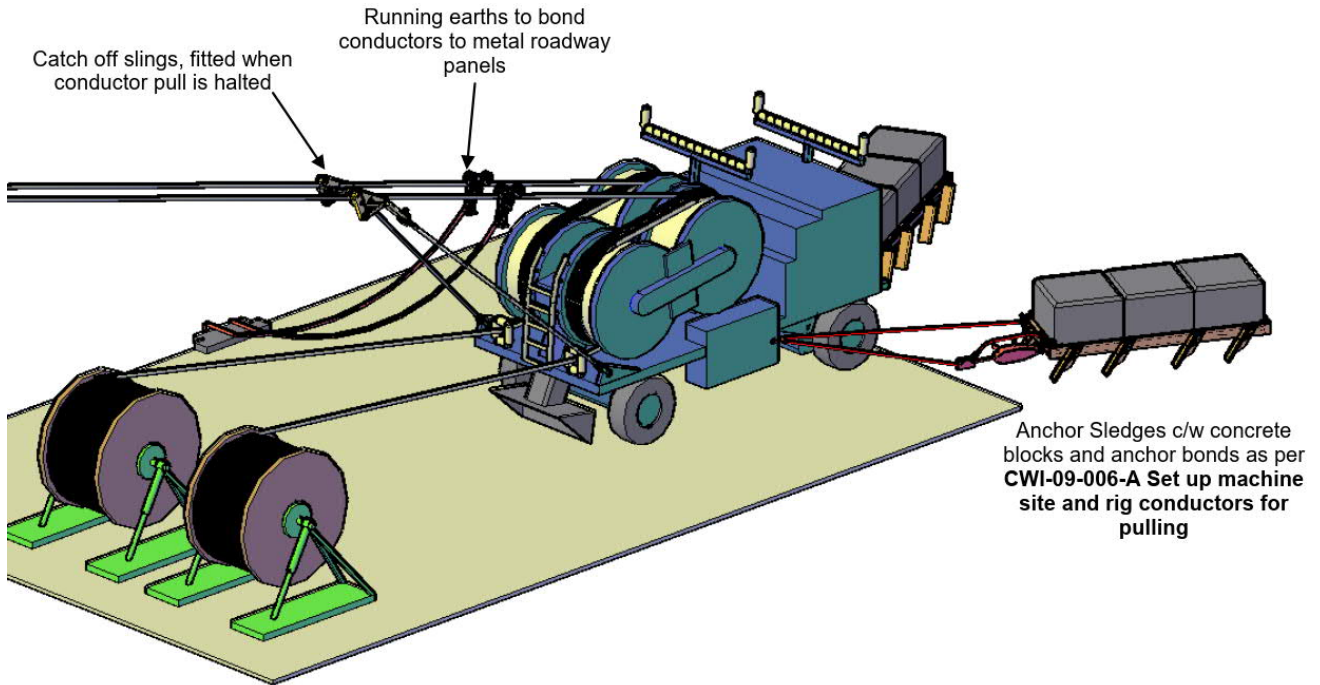
### 4.7 Noise

- 4.7.1 Teams undertaking the work will ensure that noise levels are kept low and will make any attempt not to be a nuisance to the local community.

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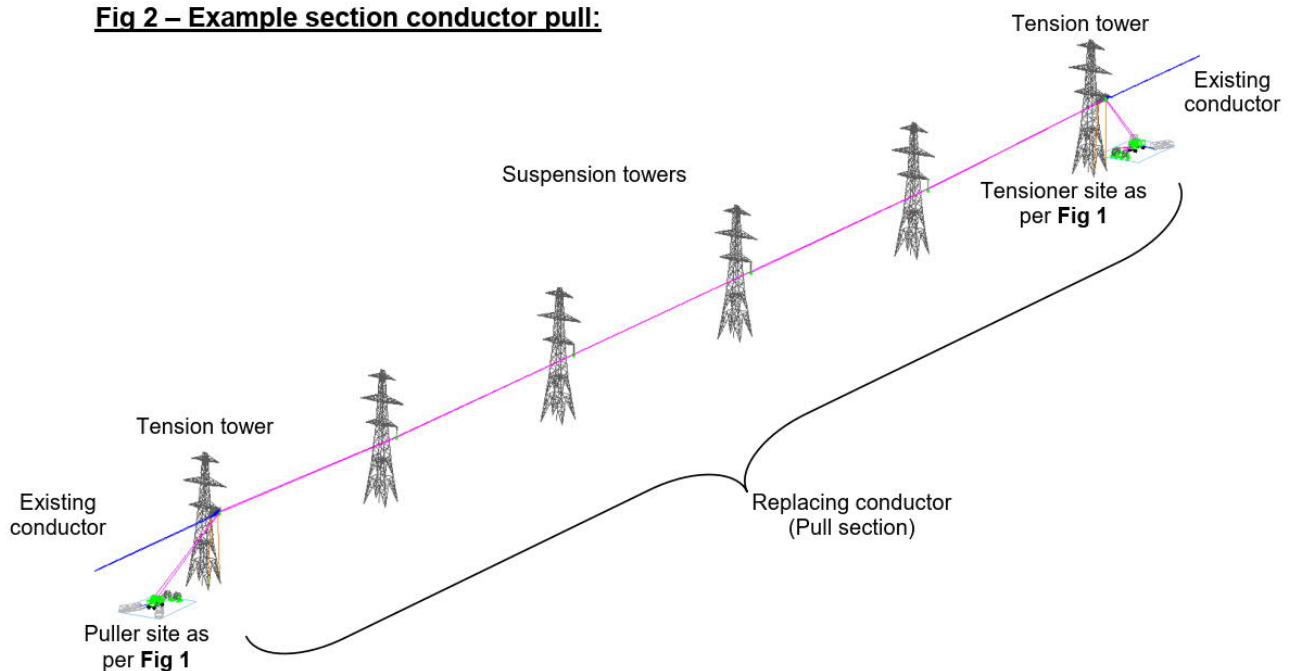
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**Fig 1 – Puller / Tensioner site setup:**



**Note:** Set up for puller and tensioner sites are much the same. The puller site will pull the old conductor and wrap it round the drums. The tensioner site will provide resistance to the pull and with a connection from old conductor to new, it will let it out and along the section. The puller and tensioner machines will control the rate of pull. The tensioner's job is to give enough resistance to keep the conductor around a predetermined tension throughout the conductor replacement process.

**Fig 2 – Example section conductor pull:**



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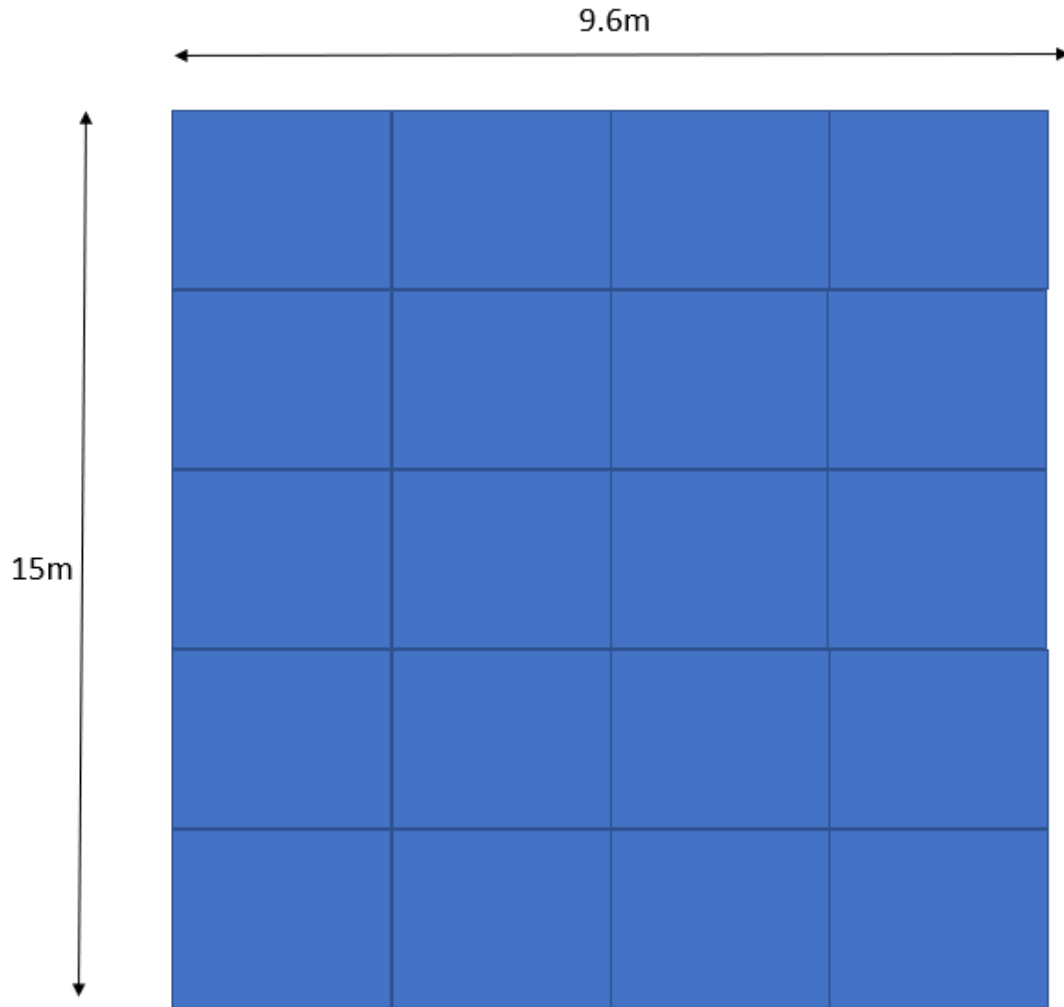


Figure 3 – EPZ Set up (20no of 2.4 x 3m metal panels)

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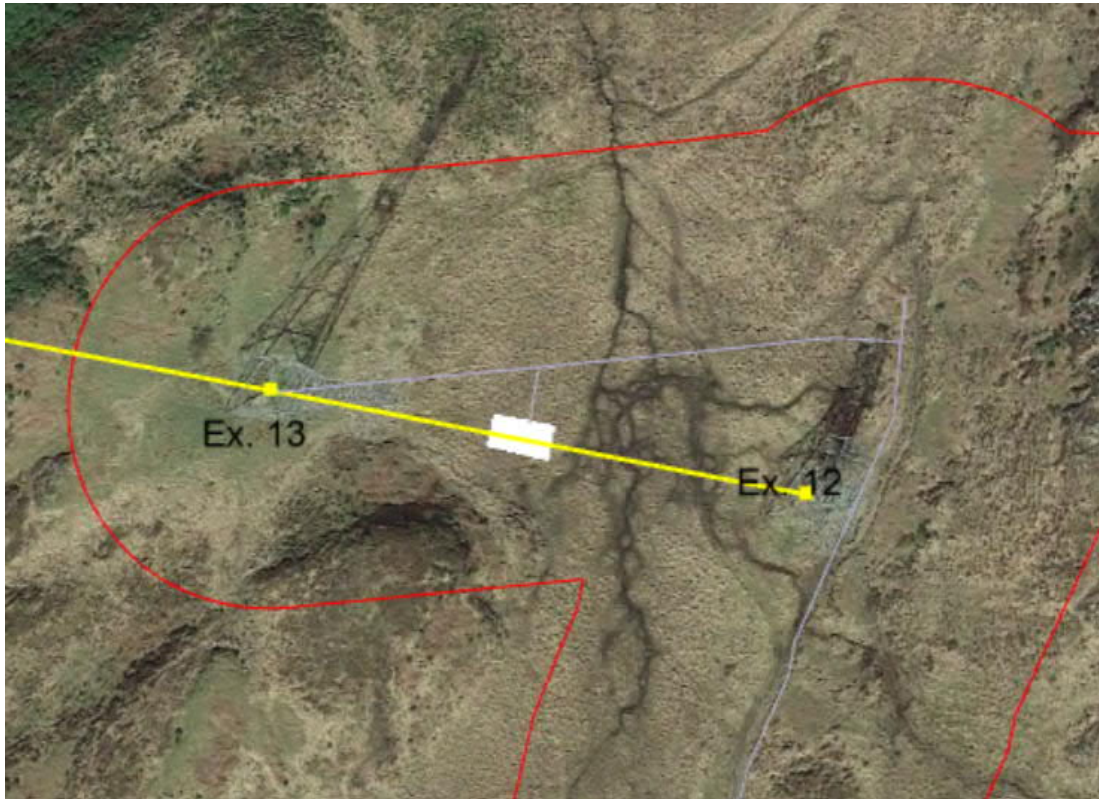


Figure 4 – Google Earth view showing EPZ Position at East side of crossing

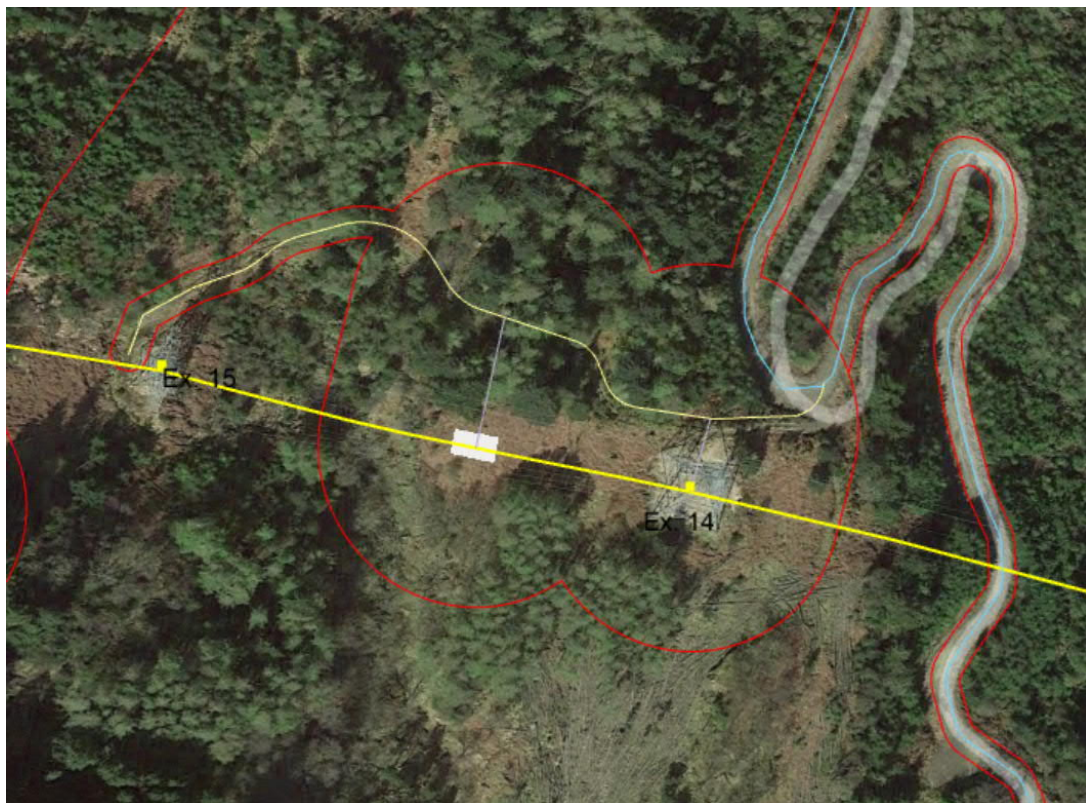


Figure 5 – Google Earth view showing EPZ Position at West side of crossing

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**Receipt Acknowledgements**

**Supervisor in charge of the Work**

I confirm that I have read and understand the requirements of this method statement and associated risk assessments and will ensure their communication to operatives under my control and to those who may be affected by its requirements

<b>Signed</b>		<b>Date</b>	
<b>Print name</b>		<b>Position</b>	

**Communication**

Communicate the contents of the Method Statement to all those involved or affected by the works and record their details below.

The following personnel have been inducted in the procedures required to carry out the operations detailed in this Method Statement.

*Note:* please complete the original OMSI attendance sheet [copy to be kept in the on-site file original to be returned to Document Control

Name	Job Description	Signature	Date	Employer	Inductor

**NOTE:** If you have any doubt about any information given or contained in this Method Statement – **ASK FOR CLARIFICATION.**

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<b>Project title and contract no.</b>		Dunoon Crossing		<b>Risk assessment no.</b>		OMSI-MS-001		Risk Factor						
<b>Activity</b>		Conductor stringing		<b>Location</b>		Dunoon		Risk Quantity	[1] Negligible No harm or injury, nuisance environmental impact. Negligible damage	[2] Slight NLTI, short term environmental contained harm	[3] Moderate LTI, semi-permanent environmental damage	[4] High Single fatality RIDDOR, major environmental event	[5] Very High Catastrophic, Multiple fatality, toxic release	
<b>Person conducting assessment</b>		John McGavin		<b>Date</b>										
<b>Person supervising work</b>		TBC		<b>Date</b>										
<b>Persons exposed</b>														
<b>Employees</b>	14	<b>Other workers</b>	2-4	<b>Public/ visitors</b>	0	<b>Young persons</b>	0							
<b>New / expectant mothers</b>	0	<b>Disabled</b>	0	<b>Others</b>	0			[1] Rare	1	2	3	4	5	
<b>Estimated total number of persons at risk</b>			15-20						[2] Unlikely	2	4	6	8	10
<b>Hazards (what might cause harm?)</b>			<b>S</b>	<b>H</b>	<b>E</b>	<b>Q</b>		<b>S</b>	<b>H</b>	<b>E</b>	<b>Q</b>			
1	Adverse Weather Conditions	X	X	X		12	Loading/Unloading	X	X	X				
2	Cold	X	X	X		13	Materials							
3	Electricity	X	X			14	Moving Parts of Machinery	X	X					
4	Excavation					15	Proximity to Water	X	X	X				
5	Fire/Flammable Atmosphere					16	Scaffold							
6	Floor/Ground Conditions	X		X		17	Sharp Objects							
7	Flying Particle/Dust					18	Stairs/Steps							
8	Hand or Power Tool	X	X	X		19	Static Equipment/Machinery	X	X					
9	Hazardous Substance	X	X	X		20	Structure	X			X			
10	Heat/Hot Work					21	Temporary Works	X			X			
11	Lack of Experience	X	X		X	22	Vehicle/Mobile Equipment	X	X	X				
12	Lack of Training					23	Working Hours/Fatigue	X	X					
13	Lack of/too much Oxygen					24	Workstation Design							
14	Access	X	X	X		25	Work at Height	X	X					
15	Lifting Equipment Appliances	X	X	X	X	26	Other							
16	Lighting	X	X	X	X									
								<b>Risk Level</b>	<b>Action</b>					
								Acceptable	No further preventative actions. Consideration shall be given to more cost-effective solutions or improvements that impose no additional cost burden. Monitoring required to ensure that controls in place are properly maintained.					
								Caution	Ensure that all reasonable measures are in place and adhered to, if practicable implement additional control measures					
								Unacceptable	Work shall not be started or continued until the risk level has been reduced to an acceptable risk level. While the control measures selected shall be cost-effective, legally there is an absolute duty to reduce the risk, this means that if it is not possible to reduce the risk even with unlimited resources, then the work shall not be started or shall remain prohibited.					
								Notes: 1. Physical Hazards are the nature of issues that may cause harm. Tick box for hazard. 2. Preventative / Control Measures are the actions that will stop it going wrong. 3. Control measures are to ensure that residual risks are reduced to a minimum. Where controls fail to reduce the risk to a acceptable level then refer assessment to your line manager. 4. If the operations are likely to affect the public or the safe operation of a public infrastructure or transport system, the control measures must reduce the likelihood of significant harm to the level that existed before our work commenced.						

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Hazard no. <small>(from page 1)</small>	Nature of risk (What might go wrong?)	Likely Consequence	Risk before controls U / A			Control measures (How do you stop it going wrong?)	Control measure implemented by (name)	Risk after controls U / A		
			Likelihood	x	Consequence					
<b>Weather</b>	Adverse weather conditions Exposed to elements, lack of protection, hypothermia	Hypothermia Heat Stroke Sun burn Dehydration	3	3	9	Close monitoring of the weather conditions on a daily basis. Ensure PPE is suitable for the expected weather conditions. Works to cease if wind speed exceeds 20 mph	Supervisor All Team members.	2	3	6
<b>Electricity</b>	Induced voltages, Infringement of Safety distances by Vehicles/ plant and materials	Electrocution leading to death or serious injury / burns	5	5	25	Adhere to Client safety rules at all times. Full PPE required for work site per Method Statement. Insulated measuring tapes to be used. Double circuit outage required for helicopter hauling across waterway (in the event of a conductor failure)	Supervisor All Team members.	1	5	5
<b>Moving machinery /parts</b>	Collision with operatives, buildings, machinery.	Injury, impairment and material damage	3	5	15	Clear demarcation to be set up on site, all operatives to be briefed prior to works. 4m exclusion zone to be maintained around moving plant. Helicopter landing area to be set up and secured in advance of the works.	Supervisor All Team members.	1	5	5
<b>Plant Failure</b>	Wrong decision making, wrong	Falling Materials				All plant operators shall be	Supervisor	2	4	8

5. Where young persons or expectant mothers are involved in the activity, ensure that any additional controls are put in place in accordance with local procedures.
6. In addition to the above, consideration must be given to other individuals' susceptibility due to pre-existing health conditions, e.g. bad back, poor hearing. Additional 'human factors' such as ergonomics, workplace design, etc. should also be considered.
7. Where a hazard is identified that is not listed in the Physical Hazards list, enter the hazard description followed by other in brackets i.e. (Other).

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	<p>selection of plant and auxiliary lifting equipment. Hydraulic/Pressurised system failure Loss of fluids/oils</p>	<p>Failure of Plant Impact from Debris Fuel/ Chemical Spill Damage to Environment</p>	3	4	12	<p>trained and authorised in the use of the machines and equipment to be used for the lifting operation Hydraulic hoses and fittings will be inspected prior to use for damage and any dirt / debris must be cleaned and removed from the hydraulic hose joints. This should be recorded on a daily/weekly inspection sheet. Fuel and Chemical Spill Kits will be provided and all operatives trained.</p>	All Team members.			
<b>Damage</b>	<p>Damage to buried cables and/or other utilities leading to potential for electrocution, explosion or water system contamination  Proximity to live Overhead Lines and introduction of induced current into the exposed / buried steelwork.</p>	<p>Electrocution Electric Burns Explosions Water contamination</p>	3	4	12	<p>All utility drawings to be referred to prior to work commencing Area to be surveyed by CAT and GENNY detector Services to be proved by hand dig trial holes prior to excavation works. A permit to break ground must be issued before any breaking ground. All excavation works to be completed under the control of a permit to break ground HSG47 guidance to be followed No spiking or spearing of hand tools, no pointed tools to be used below ground level. Adhere to OMSI Induced current procedures. Maintain as much distance as possible from existing live</p>		1	4	4

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						Overhead Lines. (minimum of 16m) in accordance with GS6.  All safety clearance checks carried out in accordance with MSVE-PM-FRM-04				
<b>Proximity to water</b>	Operatives / material entering water	Injury, impairment and material damage	3	5	15	All working areas are in excess of 100m from water, however a stand-by boat either side of the crossing will be in place during stringing operations to ensure waterway is clear. Boat operatives shall have suitable experience and safety equipment available	Supervisor All Team members.	1	5	5
<b>Lifting Operations</b>	Dropped load crushing or trapping Failure of plant equipment		3	5	15	All lifting operations in accordance to OMSI procedures and provided lift plan.  Exclusion Zone to be set up during lifting operations (4m) <i>(500m Exclusion on waterway)</i>  Anchor Points and lifting accessories to be checked before commencing activities. Know the weight of the load and check SWL/WLL, date of last inspection of all gear.  Ensure all slings attached do not rub against sharp edges and are in accordance to lift plan	Supervisor All Team Members	1	5	5

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						procedure. Slings must be trained and authorised to attach slings correctly. Each individual will know their role within the lift before commencing.				
<b>Climbing</b>	Falls from height Items Falling from Height	Death Broken Limbs/Fractures Trauma Permanent Injury	3	5	15	All personnel will be trained and competent for working at height. Safety harness and lanyards to be worn at all times. Visual checks to be carried out on harness by user prior to every use.		2	5	10
<b>Lack of experience.</b>	Personal injury, Injury to others, Falls from height and Damage to plant/equipment	Death Broken Limbs/Fractures Trauma Permanent Injury	3	5	15	All personnel will be trained and competent for working at height. Safety harness and lanyards to be worn at all times. Visual checks to be carried out on harness by user prior to every use. Suitably experienced personnel to be included in the working party to monitor activities		1	5	5
<b>Use of Small Tools</b>	Use of small tools may lead to over exposure of operatives to HAVS	Permanent Injury, Personal Injury or LTI. HAVS, Disabilities associated.	3	4	12	Utilise tools with the lowest possible vibration levels where practicable.  Ensure the required level of PPE is being worn by operatives engaged in this activity.  Monitor/record exposure times		2	3	6

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						for each operative and ensure trigger levels are not exceeded. Complying with Combined Noise vibration assessment form within pack.  Ensure all powered tools are PAT tested and in date.  All Operatives to undergo Abrasive wheel Testing and manual handling training.				
<b>Access and egress to site.</b>	Interface with other contractor work force, other operatives and land owners/occupants. Slips, trips and falls from uneven ground conditions	Employees/members of the public: Possible death and serious injury. Musculoskeletal injuries sprains/strains, bruising, broken bones, etc.	2	3	6	Working party to be briefed on all access routes, and to have a copy of the access maps. Due care and attention at all times.  No vehicles are to be driven off any hard-standing area unless access maps state this is acceptable and the landowner or access engineer has given permission.	Site manager Workforce, sub-contractors/ deliveries	1	3	3
<b>Communication</b>	Failed communication with other contractor work force, other operatives and land owners/occupants.	Injury, impairment and material damage	2	4	8	Communication methods to be discussed and agreed prior to works to ensure full communication between all parties is maintained throughout works	All Team Members	1	4	4

<b>Method Statement required?</b>		Yes	<input checked="" type="checkbox"/>	No	<b>Method Statement number:</b>		OMSI-001						
<b>Additional Risk Assessment (Tick box as required)</b>					<b>PPE (Tick box as required)</b>								
Noise	<input type="checkbox"/>	COSHH	<input type="checkbox"/>	Handling	<input type="checkbox"/>	Helmet	<input type="checkbox"/>	Respiratory	<input type="checkbox"/>	Boots	<input type="checkbox"/>	High Vis	<input type="checkbox"/>
Asbestos	<input type="checkbox"/>	Lead	<input type="checkbox"/>	Radiation	<input type="checkbox"/>	Hearing	<input type="checkbox"/>	Eye	<input type="checkbox"/>	Harness	<input type="checkbox"/>	Others	<input type="checkbox"/>



Method Statement Risk assessment

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	Name	Signature	Date
Person completing the assessment:	D Schoular	[Redacted]	02/11/2022
Person reviewing the assessment:	J McGavin	[Redacted]	02/11/2022
Date to be reviewed:			