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PROJECT Nederwiek I

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1 INTRODUCTION

1.1 General

The purpose of this plan is to appraise all significant risks associated with emergency and/or significant unplanned events and to compile a comprehensive response plan for all site-based managers and operatives to use in the event of marine and onshore emergencies within project (ADM_13878). Reference to the obligations (ADMs) included in this plan can be found in Appendix 2, with a further description of the requirements in Appendix 3.

Notice to the Employer of alignment meeting with the Authority, if needed, will be submitted to the Employer (ADM_13879). External emergencies services will be agreed if needed (ADM_13881).

These emergency procedures detail the steps to be taken if one of the following, but not limited to, significant occurrences is detected:

- Casualty (i.e. incidents involving injury or sudden illnesses) on-Board Installation Vessel
- Casualty (including Electrocution) on OSS
- Assistance for a third party
- Man Overboard / Hypothermia
- Fire/Explosion Onboard Vessel
- Fire Onboard OSS
- Installation Vessel Unable to Maneuver, Drifting, Collision or any other distress
- Marine Pollution or other environmental incidents
- Drifting / Foundered Plant Components
- Any form of terrorism / terrorist threat
- Media
- Unexploded Ordnance
- Medical Emergencies at onshore site
- Fire at onshore site Interruption - ERS No:1 Personnel Stranded on OSS
- Interruption - ERS No:2 Thunderstorm / Adverse Weather on OSS
- Interruption - ERS No:3 Defective Crew Transfer Vessel

It is highlighted that the above list is not exhaustive, but it has been defined based on the results of the Risk Assessment process and experience of PPL in similar projects. In case of unforeseen circumstances requiring emergency response, the ERP will be activated as applicable. The ERP will be updated if needed (ADM_13882).

It is highlighted that PPL are responsible for starting their own Emergency response chain.

This emergency response plan is intended as being a dynamic document that will evolve through the development of the project. Persons working on or visiting the project will be made aware of its availability and contents as applicable.

Emergency arrangements for the project will be explained to all workers as part of the project induction. This instruction will be reinforced by details posted throughout the site accommodation including details of First Aiders.

At least 28 days before the commencement of Works at a Site, an Emergency Response Plan will be sent to the Employer, Contractor's Personnel and to other parties present on the Site (ADM_13932).

Visitors to site will always be accompanied and informed of emergency procedures.

This ERP will be reviewed when necessary to ensure that all emergencies have been captured and continue to be addressed.

1.2 Scope

The scope of this plan is intended to cover the offshore installation activities to be performed by PPL within the project.

The PPL Emergency Response Plan applies to marine emergencies within the project. The PPL ERP shall be integrated into the Employer ERP and adherence to the PPL ERP will ensure an effective coordinated response by both parties in the event of an emergency.

Emergency response on the vessels involved in this project is the responsibility of the Vessel Master which has an Emergency Response plan. Emergency response actions are not repeated in this document but rather, the local notifications and communications are given as well as a description of how PPL will manage the planning and execution of the incident following immediate shipboard response. This plan is applicable to PPL's scope of works only.

2 References

2.1 Codes, Standards and Specifications

- ISO 45001:2018- Occupational health and safety management systems
- ISO 14001:2015 - Environmental Management Systems – Requirements with guidance for use

2.2 Employer's HSE Requirement

- Project Contract agreement
- Project Technical specifications

2.3 Relevant project documentation

- Technical Realization Requirements
- Technical Specifications

3 Definitions and abbreviations

3.1 Definitions

Contractor	Prysmian PowerLink srl
Damage to health	Identifiable injury to the state of health (physical or mental) as a result of work activities
Employer	TENNET
Environment	Surroundings in which an organization operates including air, water, land, natural resources, flora, fauna, humans and their interrelation.
Environmental Damage	Any significant deterioration and measurable, direct or indirect, of a natural resource or the function of a natural resource (in reference to national / international regulations)
Hazard	Source, situation or act with a potential for arm in terms of human injury or ill health or a combination of these
Hazard identification	Process of recognizing that a hazard exists and defining its characteristics
Incident	Work related event in which an injury or ill health (regardless the severity) or fatality occurred, or could have occurred. Environmental incident: event occurring during the work that has caused environmental damage or that could cause it (e.g. environmental spill).
Accident	Incident which has given rise to injury, ill health or fatality
Near miss	An undesired event that, under slightly different circumstances, could have resulted in harm to people, damage to assets, environmental harm or unplanned operational shutdown
Emergency	Any departure from normal operating procedures that brings about situations that pose a danger to people, the environment and objects.
Procedure	Specified way to carry out an activity or a process
Subcontractor	Any person named by the Contract as a Subcontractor, or any person appointed as Subcontractor, for a part of the works, and the legal successors in title to this person
Supervisors	Are the persons responsible of the organization and supervision of a specific team of workers that carries out the same activity

3.2 Abbreviations

ENF	Emergency Notification Flowchart
ERP	Emergency Response Plan
ERS	Emergency Response Scenarios
ERT	Emergency Response Team

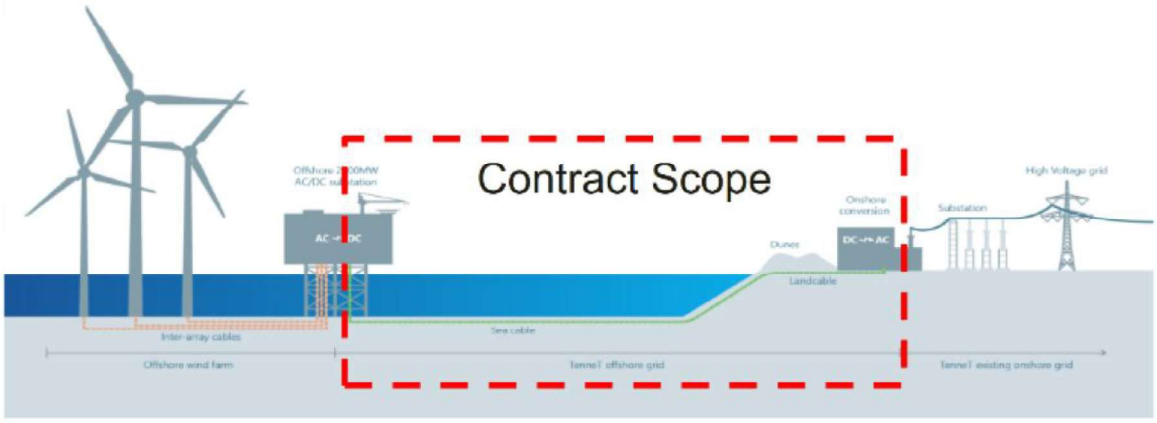
FCP	Fire Contingency Plans
HR	Human Resources
HSE	Safety Health and Environment
MCO	Marine Coordination Office
MOB	Man Over Board
MRCC	Marine Rescue and Coordination Centre
OIM	Offshore Installation Manager
OSS	Offshore Sub Station
OWF	Offshore Wind Farm
OWT	Offshore Wind energy Turbine
PPL	Prysmian PowerLink srl
POB	Persons On Board
SOLAS	Safety of Life at Sea
SOPEP	Shipboard Oil Pollution Emergency Plan
TBA	To Be Announced
UXO	Unexploded Ordinance
VHF	Very High Frequency
WTG	Wind Turbine Generators

4 Project overview

4.1 Project description

Nederwiek 1 project comprises up to 217 km of ± 525 kV DC cable with a power capacity of up to 2000MW, it will track a route-length of respectively: 196 km of submarine cable, 12 km of inshore cable, 9 km of land cable and 0,2 km at platform side. (Note: Projects Nederwiek 1 and IJmuiden Ver Alpha will have the same landing site, and their route will go to Borssele via the Veerse Meer.)

The DC Cable system will encompass the design, engineering, manufacturing and installation of 2 x Power Cables (incl. integrated FO- Subsea, Platform and Onshore), the delivery of Spares, the design and manufacturing of Accessories, as well as Type Tests. With reference to DC Land Cable, the system will comprise logistics (transport and disposal of empty drums), supervision of cable transport to site, cable pulling, delivery and installation of DC/FO terminations, joints and all necessary accessories, and it will ultimately include the commissioning procedure and tests.



Power cables and Monitoring

- 2x HVDC land/OSS 2500 mm² Cu – **P-Laser** - WAS - SWA - Embedded FO
- 1x DMR land/OSS 2500 mm² Cu - **XLPE** - WAS - SWA - Embedded FO
  - ST7 sheath
- 2x HVDC submarine 2300 mm² Cu - **XLPE** - Lead - SWA - Embedded FO
- 1x DMR submarine 2300 mm² Cu - **XLPE** - Lead - SWA - Embedded FO
- 2x HVDC land/OSS 2500 mm² Cu – **P-Laser** - WAS - SWA – **NO** Embedded FO
- 1x DMR land/OSS 2500 mm² Cu - **XLPE** - WAS - SWA - **NO** Embedded FO
  - Flame retardant sheath
- 3x TV01566 – 24 FO – G.652.D → 1 FO cable in parallel of each power cable)
  - Flame retardant sheath

Power cable accessories

- GMS
- GESM
- TES 640 (SF6, for HVDC), FD-123 (dry-type, for DMR)

Telecommunication

- 1x A-DOF(ZN)2Y – 192 FO – G.652.D
- 1x Minisub SA 288 – 192 FO – G.652.D
- S/L joint – Beach Joint Sec 15
- Submarine joint - SeaFlex

NB : Not all the accessories are represented

4.1.1 Submarine Section

Submarine section has in scope the design, manufacturing, delivery, installation and testing of a cable route of **approximately 208 km** 525 KV HVDC submarine cable system and FO cable system consisting of:

- 525 kV HVDC XLPE + pole, 525 kV – pole
- Dedicated Metallic Return (DMR) cable
- Separate Fibre Optic (FO) cable for Telecom
- All accessories and protection systems

4.1.2 Land Section

Land Section has in scope the design, manufacturing, delivery, jointing, supervision of installation and testing of a cable route of **approximately 9 km** of 525 KV HVDC underground cable system and Fiber Optic cable system consisting of:

- 525 kV HVDC P-Laser, + pole, 525 kV – pole
- Dedicated Metallic Return (DMR) cable
- Separate Fibre Optic (FO) cable for Telecom
- All accessories and protection systems

NOTE: The **civil work and installation** from the transition Joint until the termination (including all trenches, HDD's and cable pulling) of the underground cable sections will be performed by another Contractor employed by Employer)

4.1.3 Platform Section

Approximately a cable route of 0.2 km:

- 525 kV HVDC P-Laser, + pole, 525 kV – pole
- Dedicated Metallic Return (DMR) cable
- Separate Fibre Optic (FO) cables for Monitoring
- All accessories and protection systems

5 Escalation Process

5.1 General

PPL require all accidents, incidents, near misses are reported in compliance with the procedures. The report must be initiated as soon as practicable after attending to the immediate needs of any injured person(s). All crises are managed as described in emergencies scenarios reported in this document (ADM_13933) the emergency communication will follow the site emergency notification flowchart (see Appendix 1).

5.2 Identification of Essential Personnel

(ADM_13934)

Vessel Master - The Vessel Master or his deputy has ultimate responsibility for managing the on-scene incident and for making decisions regarding immediate shipboard actions required. He is the primary point of contact with the TENNET's Marine Coordinator.

Installation Superintendent (OIM) - Directs working parties to Muster Stations and ensures all operatives and members of the crew are accounted for and have left the working area they are in control of with particular focus to the installation phase. Establishes communications with appropriate agencies, senior management and Employer representatives.

First Aid trained personnel - All personnel trained and approved as a first aider, from the elementary training level to the advanced as identified within the project First Aid Risk Assessment, will report to the Assembly Point. They will make first aid provision and ensure first aid equipment is deployed on site. They will use their skill to assist in the emergency and ensure any casualties are monitored until the professional services become available. They will update doctors and paramedics upon their arrival at site as to the status of any injured persons. Routine medical assistance to PPL employees will be managed through PPL HR department. Sub-contractors shall manage on-going medical assistance through their own processes (ADM_13940 - ADM_13941).

Vessel crews - Will assist as directed by supervisors and if trained to fight fires will use the on-site firefighting equipment, at no time will any site personnel place themselves in danger or take risks that could put themselves or others at risk.

All personnel - will act as directed by the Vessel Master. Unless otherwise specified the method of evacuation will be determined in consultation with the Vessel Master and emergency services.

5.3 Identification of Non-Essential Personnel

Personnel who have no predefined role in the emergency response are considered nonessential to the mitigation actions. All non-essential personnel inside the vessel are briefed on actions to take in an emergency as part of the vessel induction process. On being notified of an emergency non-essential personnel shall proceed to the muster station by a route that does not endanger their safety. They will present themselves to be checked off the vessel persons on board (POB) list which will allow to identify eventual missing people. POB list is updated on daily basis or in case of any crew change.

5.4 Detection, Classification and On-Site Alert to an emergency

Detection of an on-site incident is most likely to occur by direct reporting from offshore structure/vessel personnel. Should an incident on WTG/OSS/vessel be witnessed, immediately contact the Supervisor/Vessel Master or other person on the emergency contact list and report the nature of the incident and location. It is the Vessel Master on board who makes the decision, based on the information received; to implement the on-site emergency plan, this will not preclude any person dealing with life threatening situations by dialling the contact numbers specified in Appendix 2.

5.5 Equipment used in the Emergency Response

In the event of a major emergency all the parties will follow the instructions as defined in this Emergency Response Plan and the project HSE Plan. This outlines the communications protocols and evacuation routes for emergency vehicles.

The initial response to a fire shall be to use the site/vessel fire extinguishers for small scale fires only by trained individuals.

First aid equipment shall be available up to the standards required for suitably trained first aiders to apply first response treatment and assistance.

The vessels will maintain a suitable room that can be converted into a treatment room or rest room for any casualties.

Emergency spill response will be available at strategic points around the vessel, at all points where working near controlled waters. All site personnel shall receive awareness spill response training during induction. Selected site team members shall undergo detailed spill response training.

5.6 Containing Measures

Mitigation measures have been planned to reduce the risk of fire and chemical spills and they include the following:

- All fuels and chemicals shall be stored in suitable marked containers within secondary containment as appropriate and sited away from controlled waters and drains. Chemical storage areas are depending on Vessel layouts.
- Refuelling of equipment shall only be allowed in designated areas and with all appropriate spill and firefighting kit available.
- No smoking except in designated areas.

6 Communication

The safe communication during routine activities and in case of any emergency are granted through the following means of communications which ensures a coverage of oceanic areas A1+A2+A3 as per SOLAS 74/83 regulation I/9:

- VHF radio installation
- MF radio installation
- MF/HF radio installation for radiotelephony
- Immarsat C
- IRIDIUM satellite telephone

- INMARSAT FBB sim card satellite telephone
- Internet connection V-sat
- Internet connection Star-link
- SSAS anti-piracy system

As per the above reported list, at least two means of communication are always granted in case of an emergency

The Installation Superintendent shall maintain a list of all required contacts including local authorities, HSE, local police and medical services within this plan as included in Appendix.

All communication shall be precise and factual, they will not speculate, and no information shall be provided to any organisation not affected by or responding to the emergency.

6.1 Emergency Notification Flowchart (ENF)

The ENF formalises the reporting process and ensures that the vessel has specific contact information during the operations. It allows personnel to familiarise themselves with the project reporting requirements in the event of an emergency and describes the reporting process to be followed.

Each vessel working on the project will have a specific ENF produced to be utilised for the duration of its time on the project. ENFs will be displayed in all project offices and work locations on the vessel including but not limited to the bridge, communal and working areas.

Vessel specific ENFs will be issued when the relevant details are known and finalised prior to the commencement of marine operations. A copy of the ENF will be share with RWS.

The ENF located in Appendix 1 is an example of the standard layout.

6.2 Emergency Response Contacts

A table of ERP contacts can be found in Appendix 1. Emergency contact information for vessels can be also included on the vessel specific ENF (ADM_13937).

6.3 VHF Radio Communication

All the vessels engaged on the project shall have a number of VHF radios as agreed with Employer. Emergency ship - shore communication by VHF radios from all vessels (including small crafts) are able to be maintained at a distance of 35 km (ADM_13936).

6.4 Satellite Assisted Mobile Telephony (VSAT)

All installation vessels will be equipped with a set of satellite telephones (see section 6) whilst engaged in any work on the project or whilst transiting within its boundary area.

6.5 Evacuation Method

The rescue method for a casualty within the boundaries of the OWF is via Crew Transfer Vessel or ascent rescue by helicopter as coordinated by the TENNET's ERT. In case a helicopter evacuation is unfeasible due to weather conditions, one or more CTVs, as needed, will be utilised to evacuate project personnel. The different evacuation scenarios including all the sequential steps to be taken and involved parties are fully described in sect. 7.2.

Whenever the emergency is declared clear, after an evacuation, if the conditions of the site are not compromised (e.g. no damage to the structures due to fire), personnel can return to the job. In all

other cases, an assessment have to be performed by the site representative, before resuming the activities.

6.6 Drill

A drill will be organized before the starting of the activities to test the communication between all sites on-and offshore, emergency services, vessels and crew transfer services and onshore emergency response centre (ADM_13935).

To minimize miscommunication with the competent authorities, the drill procedure will be shared with Rijkswaterstaat well in advance of the drill. Results of the drill will be shared with Rijkswaterstaat afterwards.

Offshore drills will be conducted as per SOLAS requirements (ADM_13938). Emergency Drills are also performed in case of any change in the contents of the ERP affecting the communication means or general response procedure.

Emergency trainings will cover different scenarios and will be documented (ADM_13939).

7 Emergency Preparedness Response

7.1 Evacuation and Emergency Response Scenarios (ERS)

Evacuation and Emergency Response Scenarios have been produced for the following potential occurrences (ADM_13877 - ADM_13880):

- ERS No:1 Evacuation of casualty from OSS by Crew Transfer Vessel
- ERS No:2 Evacuation of casualty from OSS by Helicopter
- ERS No:3 Evacuation from Installation Vessel
- ERS No:4 Casualty (i.e. incidents involving injury or sudden illnesses) on-Board Installation Vessel
- ERS No:5 Casualty (including Electrocution) on OSS
- ERS No:6 Assistance for a third party
- ERS No:7 Man Overboard / Hypothermia
- ERS No:8 Fire/Explosion Onboard Vessel
- ERS No:9 Fire Onboard OSS
- ERS No:10 Installation Vessel Unable to Manoeuvre, Drifting, Collision or any other distress
- ERS No:11 Marine Pollution or other environmental incidents
- ERS No:12 Drifting / Foundered Plant Components
- ERS No:13 Any form of terrorism / terrorist threat
- ERS No:14 Media
- ERS No:15 Unexploded Ordnance
- ERS No:16 Medical Emergencies at onshore site
- ERS No:17 Fire at onshore site

Interruption - ERS No:1 Personnel Stranded on OSS

Interruption - ERS No:2 Thunderstorm / Adverse Weather on OSS

Interruption - ERS No:3 Defective Crew Transfer Vessel

For any ERS that requires external action the Coastguard will be informed via channel 16.

Additional note:

Please note that the total number of pages in the document in word and pdf is not the same, due to the attachments being merged in the pdf.

7.2 Emergency Scenario

COLOR KEY	
	OSS
	Vessels/Site (All types)
	Helicopter
	Actions to be taken

ERS No: 1 - Evacuation of Casualty from OSS by Crew Transfer Vessel	
OSS	
• Raise alarm, inform Installation Vessel – **Where** did it happen? - OSS location / call sign or GPS coordinates – **What** has happened? - Brief description – **How** many people are injured? – **Which** type of injuries? – **Wait** for return answer • Initiate first aid measures • Transfer casualty to Crew Transfer Vessel • Secure incident location for investigation	**Actions**
Installation Vessel	
• **Contact the Offshore Installation Manager** • Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM) • Coordinate movements of Crew Transfer Vessel • Prepare to receive casualty if required • Provide additional medical help and facilities • Transfer casualty to perimeter of wind farm for evacuation if required • Remain on Channel 16 VHF and await developments	**Actions**
Crew Transfer Vessel	
• Liaise with OSS and Installation Vessel • Liaise with rescue services, coordinate further action • Transfer casualty to perimeter of wind farm for heli-hoist evacuation if required • Collect remaining personnel from OSS • Remain on Channel 16 VHF and await developments	**Actions**

ERS No:2 - Evacuation of Casualty from OSS by Helicopter
OSS

Raise alarm, inform Installation Vessel – **Where** did it happen? - OSS location / call sign or GPS coordinates – **What** has happened? - Brief description – **How** many people are injured? – **Which** type of injuries? **Wait** for return answer • Initiate first aid measures • Transfer casualty to platform (with or without stretcher) • Carry out flying object debris (FOD) walkdown prior to helicopter arrival • Maintain visual contact with helicopter, winch operator and watch for signals (in accordance with operating instructions) • Secure casualty to stretcher. Check attachment points • Follow all instructions from the helicopter winch operator • Remaining personnel to take shelter from downdraft during transfer • Secure incident location for investigation	Actions
Installation Vessel	
• **Contact the TENNET/EMF Marine Coordinator** • Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM) • Remain on Channel 16 VHF and await developments	Actions
Helicopter	
• Take responsibility for casualty	Actions
Crew Transfer Vessel	
• Remain on channel 16 VHF and await developments • Remain on standby in case assistance is required	Actions

ERS No:3 - Evacuation from Installation Vessel	
Installation Vessel	
• Follow vessel's Emergency Contingency Plans (ECPs) • **Contact the TENNET/EMF Marine Coordinator immediately** - State vessel name, call sign, position and status • Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM) • Ensure casualties are brought to a place of safety and initiate First Aid as required • Where personnel are on OSS, keep them informed of the situation	Actions
OSS	

• Maintain contact with the Installation Vessel • Prepare to evacuate OSS if required to do so	Actions
Crew Transfer Vessel	
• Maintain contact with the Installation Vessel • Prepare to assist in evacuating Installation Vessel personnel to OSS or Third-party vessels in vicinity if required • Prepare to evacuate persons from the OSS if required • Remain on channel 16 VHF • Remain on standby in case assistance is required	Actions

ERS No:4 - Casualty (ie incidents involving injury or sudden illnesses) on-Board Installation Vessel	
Installation Vessel	
• Initiate first aid measures • **Contact the TENNET/EMF Marine Coordinator immediately** – Where did it happen? - vessel location / call sign or GPS coordinates – What has happened? - Brief description – How many people are injured? – Which type of injuries? – Wait for return answer • Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM) • Decision after assessing situation and consultation with TENNET/EMF Marine Coordinator – Vessel returns to port – Transfer casualty to another vessel (only if faster means of return to port) – Evacuation by helicopter (Ref: Vessel Emergency Contingency Plans) – Consider transfer to OSS • Secure incident location for investigation	Actions
Crew Transfer Vessel	
• Remain on channel 16 VHF and await developments • Remain on standby in case assistance is required	Actions

ERS No:5 – Casualty (including Electrocution) on OSS
OSS

• In case of electrocution, look first, don't touch!! The person may still be in contact with the electrical source, touching the person may pass the current through you. • Turn off the source of electricity, if possible. This could involve: – activating emergency stop buttons or switching off generators – electrical isolation of equipment via isolation switches or by physical disconnection • If it is not possible to isolate the source of electricity, move the source away from you and the person, using a dry, nonconducting object made of cardboard, plastic or wood. • Initiate first aid measures • Raise alarm, inform Installation Vessel and Crew Transfer Vessel • Method for evacuation of casualty to be decided after assessing situation and consultation with Installation Vessel – Casualty is transferred to Crew Transfer Vessel (see ERS 1) – Helicopter med-evac is required (see ERS 2) • Leave scene undisturbed to aid incident investigation	Actions
Installation Vessel	
• **Contact the TENNET/EMF Emergency Response Team and inform whether helicopter evacuation is needed** • Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM) • Remain on Channel 16 VHF and await developments	Actions
Crew Transfer Vessel	
• Remain on channel 16 VHF and await developments • Remain on standby in case assistance is required	Actions

ERS No:6 - Assistance for 3rd Party	
Installation Vessel	
• Where a third-party vessel is observed to be in an emergency, raise the alarm immediately • Contact the TENNET/EMF Marine Coordinator immediately giving details of: – Vessel characterisitics (colour, size,type etc) – Location, Heading and speed – Vessel on fire, drifting etc – Distress signals (flares etc) • Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM) • Maintain contact with the TENNET/EMF Marine Coordinator and request evacuation assistance if personnel on OWT foundation/OSS are at risk	Actions
OSS	

• If the OSS cannot be evacuated because the Crew Transfer Vessel is providing assistance, remain on the OSS. • If the OSS is in danger of being struck by a drifting vessel then alert Installation Vessel	Actions
Crew Transfer Vessel	
• If an emergency arises on an unknown vessel, make contact with the ship; where necessary raise the alarm and relay information to the Installation Vessel – Immediately assist the vessel in trouble, if safe to do so – Maintain contact with the Installation Vessel, relay information and respond to further instructions • Remain on Channel 16 VHF and await developments • Remain on standby in case assistance is required	Actions

ERS No:7 - Man Overboard (MOB) / Hypothermia	
Installation Vessel	
• Follow vessel internal MOB procedure; alternatively: ○ Loudly shout '**Man Overboard'** until help arrives ○ Vessel/Bridge to mark location of MOB with GPS location ○ Watch the man overboard continuously and throw a lifebuoy to the casualty ○ Vessel to initiate rescue / recovery procedure ○ Inform Ships Medical Officer to prepare for hypothermic casualty ○ Undertake first aid procedures once casualty is recovered • If the MOB is not visible issue a MAYDAY message (Ch 16) • **Contact the TENNET/EMF Marine Coordinator immediately** • Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM)	Actions
Crew Transfer Vessel	
• Remain on channel 16 VHF and await developments • Remain on standby in case assistance is required	Actions

ERS No:8 – Fire/Explosion Onboard Vessel
Installation Vessel

• Follow vessel Fire Contingency Plans (FCPs) • **Contact the TENNET/EMF Marine Coordinator immediately giving details of:** – vessel name, call sign , position and status • Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM) • Ensure any casualties are brought to a place of safety and initiate first aid as required • Where personnel are on the OSS, keep them informed of the situation	Actions
Crew Transfer Vessel	
• Remain on channel 16 VHF and await developments • Remain on standby in case assistance is required	Actions

ERS No:9 Fire On OSS	
OWT foundation/OSS	
• Contact the Installation Vessel by radio: state Emergency • If possible tackle the fire at a local level – do not put yourself or others in danger • Muster all operatives to the evacuation point • Evacuate the OSS	Actions
Installation Vessel	
• **Contact the TENNET/EMF Marine Coordinator immediately giving details of incident:** • Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM) • Ensure any casualties are brought to a place of safety and initiate first aid as required • Where personnel are on the OSS, keep them informed of the situation	Actions
Crew Transfer Vessel	
• Evacuate personnel from the OSS • Remain on channel 16 VHF • Remain on standby in case assistance is required	Actions

ERS No:10 - Installation Vessel Unable to Manoeuvre, Drifting, Collision or any other distress
Installation Vessel

• Assess the situation on board • **Contact the TENNET/EMF Marine Coordinator immediately** • Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM) • State vessel name, location, call sign, and briefly describe the situation • Follow vessel's Emergency Contingency Plans (ECPs)	Actions
OWT foundation/OSS	
• Evacuate the OSS if: – the OSS is in danger of being struck by the Installation Vessel – weather conditions are deteriorating and there is a risk of stranding on the OSS	Actions
Crew Transfer Vessel	
• Transfer OSS personnel to OSS if required • Remain on channel 16 VHF and await developments • Remain on standby in case further assistance is required	Actions

ERS No:11 - Marine Pollution or other environmental incidents	
Installation Vessel	
• Isolate the source of the leak/spillage if it is safe to do so • If possible, contain leak /spillage using absorbent materials • Follow Vessel SOPEP procedure • **Contact the TENNET/EMF Marine Coordinator immediately** – State vessel name, call sign, position and status • Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM) • Initiate incident investigation and reporting process	Actions
OSS	
• If the source of the spillage is an OSS inform the Installation Vessel immediately giving the location / identification number	Actions
Crew Transfer Vessel	

• Isolate the source of the leak/spillage if it is safe to do so • If possible, contain leak /spillage using absorbent materials • Follow Vessel SOPEP procedure • Notify the Installation Vessel – State vessel name, call sign, position and status • Remain on standby and await instructions • Remain on Channel 16 VHF	**Actions**

ERS No:12 - Drifting / Foundered Plant Components	
Installation Vessel	
• Assess the situation • **Contact the TENNET/EMF Marine Coordinator immediately** • Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM) • State vessel name, location, call sign, and briefly describe what has fallen into the water, location, time etc • Where personnel are on the OSS, keep them informed of the situation	**Actions**
OWT foundation/OSS	
• Recover or secure component if it is practical and safe to do so • Maintain contact with the Installation Vessel • Prepare to evacuate the OSS if there is a risk of impact	**Actions**
Crew Transfer Vessel	
• Evacuate persons from the OSS if there is a risk of impact • Plot position of object, maintain contact with the Installation Vessel • Recover or secure component if it is practical and safe to do so • Warn other vessels in the vicinity • Remain on channel 16 VHF • Remain on standby in case assistance is required	**Actions**

ERS No:13 – Any form of terrorism / terrorist threat

• Follow vessel's Emergency Contingency Plans (ECPs)
• In the event of a bomb threat being made by telephone, remain calm:
• Note down exactly what the caller is saying
• Try to enter into conversation with the caller in order to obtain as much information as possible
• Get someone else close by to listen to the call with you
• Agree with the caller, take a sympathetic approach, in order to obtain more information
  ▪ When will the bomb explode?
  ▪ Where is the bomb located?
  ▪ What does the bomb look like?
  ▪ Why is this bomb threat being made?
• Check whether the caller's telephone number is visible in the telephone's display
• **Contact the TENNET/EMF Marine Coordinator immediately**
• Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM)
	Actions

OWT foundation	
• Maintain contact with the Installation Vessel • Prepare to evacuate the OSS if required to do so	**Actions**
Crew Transfer Vessel	
• Immediately inform the Installation Vessel in detail • Follow Crew Tranfer Vessel's Emergency Contingency Plans (ECPs) • Prepare to evacuate persons from the OSS if required • Remain on channel 16 VHF • Remain on standby in case assistance is required	**Actions**

ERS No:14 - Media	
OSS	**All Vessels**
▪ Take a firm but friendly tone ▪ **No information is to be given to the media** ▪ **No comments, opinions or statements are to be given regarding any incident** ▪ Give all callers the TENNET/EMF contact numbers	**Actions**

ERS No:15 Unexploded Ordnance (UXO)
Installation Vessel

• Do not move the suspect UXO • Get all personnel as far from the suspect UXO as possible • **Contact the TENNET/EMF Marine Coordinator immediately** - Give the vessel name and location • Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM) • Pass on as much detail about the suspect UXO as is possible • If practical email a photograph of the suspect UXO	Actions
Crew Transfer Vessel	
• Remain on channel 16 VHF • Remain on standby in case assistance is required	Actions
OSS	
• Abort work as applicable and prepare for emergency evacuation if required	Actions

ERS No:16 Medical Emergencies at onshore site	
Onshore Site	

• Alert the Emergency Worksite Response Team
• Initiate first aid measures
• Contact Medical Rescue (call emergency number 112) if necessary stating:
  - Who you are;(caller's name, employer and telephone number)
  - What happened;
  - Where it happened (exact location if possible);
  - Location of the incident
  - Extent of injuries
  - Description of symptoms
  - Seriousness and nature of the emergency
• Get all personnel far from the worksite area
• Remain at the worksite until emergency has been resolved
	Actions

ERS No:17 Fire at onshore site
Onshore Site

• Raise the alarm • Alert the Emergency Worksite Response Team • Initiate fire fighting measures • Get all personnel far from the worksite area • Contact Fire Brigade (call emergency number 112) if necessary stating: - Who you are;(caller's name, employer and telephone number) - What happened; - Where it happened (exact location if possible); - Possible consequences within and/or outside the department/company.(the extant of the fire) • Remain at the worksite until emergency has been resolved	**Actions**

Interruption ERS No:1 Personnel Stranded on Offshore Structure	
OSS	
• Contact the Installation Vessel • Remain calm and familiarise yourself with the emergency facilities, abandonment survival packs etc • Shelter in a safe location • Provide regular status updates to Installation Vessel	**Actions**
Installation Vessel	
• **Contact the TENNET/EMF Marine Coordinator immediately** - Give location, weather updates and structure number - Confirm ID / TETRA (if available) / Personnel Numbers for those stranded - Provide regular status updates including position and weather conditions • Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM) • Maintain contact with the OSS and Crew Transfer Vessel	**Actions**
Crew Transfer Vessel	
• Maintain contact with the Installation Vessel • Recover operatives from the structure when safe to do so • Remain on channel 16 VHF • Remain on standby in case assistance is required	**Actions**

Interruption ERS No:2 Thunderstorm / Adverse Weather on Offshore Structure
OWT Foundation/OSS

• N.B To be read in conjunction with Interruption ERS No:1 • Remain calm and familiarise yourself with the emergency facilities; retreat to a safe location • Do not contact the ladders or touch the OSS walls. Personnel should sit or stand on platforms at least 0.5m from the OSS wall or any vertical metal brackets, ladders, wires or cables in the OSS • Contact the Installation Vessel • Provide regular status updates	Actions
Installation Vessel	
▪ **Contact the TENNET/EMF Marine Coordinator immediately** - Give location, weather updates and structure number - Confirm ID / TETRA (if available)/ Personnel Numbers for those stranded - Provide regular status updates including position and weather conditions ▪ Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM) ▪ Maintain contact with the OSS and Crew Transfer Vessel	Actions
Crew Transfer Vessel	
• Recover operatives from the structure if safe to do so • Remain on channel 16 VHF • Remain on standby in case assistance is required	Actions

Interruption ERS No:3 Defective Crew Transfer Vessel	
Crew Transfer Vessel	
• Assess situation on board • Inform the Installation Vessel of the situation	Actions
Installation Vessel	
• **Contact the TENNET/EMF Marine Coordinator immediately** • Where external action is required, inform the Coastguard and/or the Rescue Brigade (KNRM) • State Crew Transfer Vessel name, location, call sign, and briefly describe the situation • Arrange alternative Crew Transfer Vessel deployment as applicable • Maintain contact with the OSS and Crew Transfer Vessel	Actions

APPENDIX 1 Emergency Flowchart – generic form

The main emergency response and chart contact numbers are indicated on the Emergency Notification Flowchart which shall be checked by personnel new to the site and as part of the site induction prior to entry into the operational field. All personnel will be made aware of the PPL Emergency Notification Flowchart and this should also be prominently displayed on its bridge.

PRYSMIAN POWERLINK

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Designated Person Ashore (DPA)
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Project Team Tennet

Project Cable Lead
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Email :

Project Lead HSE
Name : Annet Reumer
Mob : +31 (6) 41182337
Email :

Project Manager Nearshore
Name :
Mob : +49 (0)
Email :

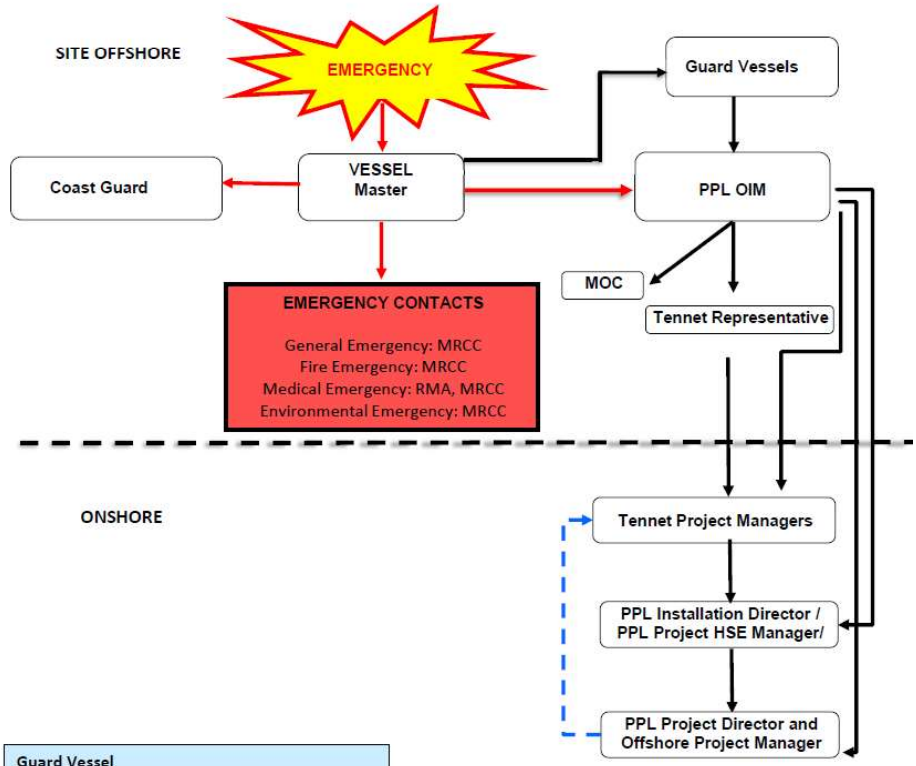
Project Manager Offshore
Name :
Mob : +49 (0)
Email :



VESSEL - "CABLE ENTERPRISE" - Contact Information
Call Sign: 9HA4326 IMO Number: 8688535 MMSI: 249651000

Contact Numbers:
Bridge VSat: +44 203 553 4824
FBB: +870 773 402 423
Master Mob: +44 7483 112 784

Email addresses:
Master: ul.master@prysmiangroup.com
Bridge : ul.bridge@prysmiangroup.com
Chief Officer: ul.chiefmate@prysmiangroup.com



Guard Vessel
VHF Ch.: **16 or 76 (International)**
& Ch: **70**

Netherlands Authorities

Netherlands Coastguard

- Telephone (Alarm): 0900 0111 / +31 (0)88 958 4040
- Telephone (Operations): +31 (0)88 958 4000
- Email: ccc@kustwacht.nl
- Website: https://kustwacht.nl/
- Radio: VHF Channel 16
- DSC: VHF Channel 70 and MF 2187.5 kHz
- Call sign: Netherlands Coastguard
- Call sign during SAR: Den Helder Rescue
- MMSI number: 002442000

Radio Medical Service:

- All INMARSAT-telex
- Email:
- 38@rmd.knrm.nl (Urgent MEDEVAC)
- 32@rmd.knrm.nl (Regular MEDICAL)
- 00@rmd.knrm.nl (Non Urgent)
- Radio (VHF/MF)
- INMARSAT B/F/M
- Phone:
- 0900-0111
- +31 88 – 958 4020

In case of questions or requests by radio, INMARSAT or phone the Coastguard will arrange contact between the caller and medical staff.

APPENDIX 2 – Reference to TenneT requirements

Regulations

ADM_13877 14
ADM_13878 5
ADM_13879 5
ADM_13880 14
ADM_13881 5
ADM_13882 5
ADM_13932 6
ADM_13933 11
ADM_13934 11
ADM_13935 13
ADM_13936 13
ADM_13937 13
ADM_13938 14
ADM_13939 14
ADM_13940 11
ADM_13941 11

APPENDIX 3 – Verification Plan

Specification Code	Specification	Workpackage/object/interface code	Workpackage/object/interface Name	Activity-deliverable Code	Activity-deliverable	Requirement Code	Requirement title	Text	Test Explanation	Applicable Document Title	Tense1 - Verification phase	Tense1 - Verification method	Verification Phase - Contractor (choose one of prescribed phases)	Verification method - Contractor (Choose accepted method)	Verification description - Contractor (describe application of method)	Responsible person and/or Role (role and/or function)	Planned document of proof ID (according to MOR)	Planned document of proof title (according to MOR)	Status (Conform, conditional conformity, non-conform)	Document of proof ID (According to MOR)	Document of proof title (According to MOR)	Document Revision (According to MOR)	Reference to document of Proof (Specify location in document of proof & explain status if not	Explanation (Optional, mandatory for conditional conformity or nonconformity)
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Act_3432	Emergency Preparedness	ADM_13677	Set-up Emergency response plan	The Contractor shall, based on an inventory (emergency scenarios identified), set up and implement site emergency response plan(s) and organization(s).	This is valid for all sites on- and offshore (incl. vessels, jack-up barge etc.) and means of transfer.		E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Act_3432	Emergency Preparedness	ADM_13678	Align Emergency response plan	The Contractor shall submit the emergency response plan Construction phase to Authorities and align applicability and compliance.			E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Act_3432	Emergency Preparedness	ADM_13679	Invite to alignment Emergency response plan	The Contractor shall give a Notice to the Employer of (a) alignment meeting(s) with the Authority to establish Emergency Response Plan for the Construction Phase of the Works.	This Notice should be given in reasonable time, having regard to the location of the meeting, for the Employer's		E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Act_3432	Emergency Preparedness	ADM_13881	Entry points	The Contractor shall define and agree with external emergency services (e.g. Veiligheidsregio) the entry points for emergency services for Onshore sites and Offshore projects.			E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Act_3432	Emergency Preparedness	ADM_13882	Update Emergency response plan	The Contractor shall review and update the emergency response plan(s) when necessary (for different project phases according to a defined schedule, after incidents or evaluation of drills and exercises).			E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Act_3432	Emergency Preparedness	ADM_13932	Submission Emergency Response Plan	The Contractor shall prepare, submit and implement, at least 28 days before the commencement of Works at a Site, an Emergency Response Plan to the Employer, Contractor's Personnel and to other parties present on the Site.	Exception is when commencement of the work is performed directly after Contract award. However, this only counts for the		E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Act_3432	Emergency Preparedness	ADM_13933	Upscaling Emergency Response Plan	The Contractor shall prepare and implement a crisis management plan for managing crisis that involves crisis organizations of the Contractor and the Employer (upscaling crisis).			E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Act_3432	Emergency Preparedness	ADM_13934	Emergency communications	The Contractor shall identify all relevant stakeholders and groups who shall be contacted in the event of an emergency.			E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Act_3432	Emergency Preparedness	ADM_13935	Emergency communications	The Contractor shall establish and test frequently the communication between all Sites on-and offshore, emergency services, vessels and crew transfer services and onshore emergency response center.			E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Act_3432	Emergency Preparedness	ADM_13936	Emergency communications	The Contractor shall establish two independent communication channels for Emergency communications.			E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Act_3432	Emergency Preparedness	ADM_13937	Emergency response teams on site	The Contractor shall define, establish and train emergency response team(s).			E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Act_3432	Emergency Preparedness	ADM_13938	Drills and exercises	The Contractor shall plan and conduct drills and exercises to test the emergency response plan and to train the crew: - Every 14 days; - After changes to the emergency response plan (ERP); - Prior to start of a new phase of the works (must be included in the project time schedule).	Drills should include and be aligned with all parties on site.		E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Act_3432	Emergency Preparedness	ADM_13939	Drills and exercises	The Contractor shall ensure that the training covers different scenarios, is documented and evaluated.			E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Act_3432	Emergency Preparedness	ADM_13940	First Aid	The Contractor shall identify the minimum number of Individuals required to be competent to provide first aid.			E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Act_3432	Emergency Preparedness	ADM_13941	First Aid	The Contractor shall appoint sufficient competent first aiders according to [Applicable document].		Training and medical requirements	E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	
PMO.01.201-2GW	SHE Requirements (NL)	NL_CA_WP_g2.01	SHE management (NL)	Del_2783	Emergency Response Plan	ADM_13880	Emergency response plan content	Emergency response plan(s) shall incorporate coordinating everything related to the (SHE) emergency such as: - Procedures to handle the emergency (including reporting to MOC/ link to the Employer's incident and crisis management); - Procedures to notify all personnel of the emergency; - Define for all people their role and responsibility in emergency response; - Escape of people to predetermined safe areas and evacuation from the Site - A system for mustering to identify missing people; - The designation of a central control area; - Instructions for each department, building, area or asset including the site drawing indicating all relevant equipment and escape routes; - Procedures for drills and exercises to test the emergency response plan(s); - The control of hazardous materials; - A search and rescue plan; - 'All clear' and re-entry procedures; - Procedure to keep an actual list of people on site at all times; - Essential emergency service contact/ telephone numbers; - Pollution containment; - Offshore weather conditions in relation to rescue operations; - Contingency plans.			E - Execution	Proposal by Contractor	E1 - Project Setup	Document review	To check if the requirement is satisfied in the planned document	Health Safety & Environment Manager	PPL19040-HSE-PLN-002	Emergency Response Plan	Conform	A-1000007_000000021-PPL19040-HSE-PLN-002-AL	Emergency Response Plan	01	APPENDIX 2	

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