CROSSWIND

TECHNICAL QUERY
Hollandse Kust Noord

No. TQ :	CW-ROS-TQ-0017	Rev:	2.0

Originating Party	Crosswind					
Subject	Loss of communication from Land station / Loss of data from Crosswind wind farm					
Author	Edwin Klom	TQ Aconex unique number: CWHKN-DEN-BPH-TQ-00007				
Interface TQ - from		TQ interface source Aconex unique number:				
Type	Query		x	Interface		
	Deviation			Derogation (SHALL[PS])		
	Note: No deviations nor derogations which have an adverse effect on HSSE will be granted					
Workpackage	SCADA / EMCS					
Area(s) of application	Design & Eng.	x	Procurement		Construction	
	Commissioning		Operations		Other	
Issue date	Monday 1st of July		Urgent reply 5 days		Routine reply 10 days	x
Close-out date						
Closed-out by			TQ status:		Closed-out	

1. Description

Reference documents / Aconex unique numbers:

Company requests to Contractor to provide details and actions relevant to the following 2 scenarios:

1) **LOSE COMUNICATION WITH LANDSTATION (Yokogawa system, not related to CW Windfarm system)**
2) **LOSE WTG SIGNAL DATA WITH HV SCADA (WTG issues or Siemens Gamesa Signal)**
   Company expects to not open CB in case of lost signals from HNA5 WTG.
   WTG Signals list will be provided by company, *ref to doc HVAC SCADA – BLPH Signal List.*

2. Response

Reference documents / Aconex unique numbers

1) Yokogawa CI Core servers in ITER are connected to CI Portal servers in OER by a redundant communication. If both communication links are down, a timer will start. After the timeout period (settable), a ESD-1D shutdown command will be automatically generated. If the communication is re-established (at least for one communication link), the timer is reset.

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2) ROS considers that this point refers only to the communication between HV-SCADA (Wind Farm) and BLPH over protocols OPC-UA and IEC-61850.
If IEC 61850 communication between the HV-SCADA and 66kV GIS is lost, the GIS does not take any automatic action.
If OPC-UA communication between the HV-SCADA and EMCS is lost, the EMCS does not take any automatic action on 66kV GIS. In conjunction with this loss EMCS will immediately command the platform in IDLE MODE.
We expect that signal HNA6-QA1-Ready to close (command) from HV-SCADA to EMCS trough OPC-UA will be set to 0 in case of communication loss.

3. Engineer's Response

Reference documents / Aconex unique numbers

Please include the above in the FDS.

4. Response

Reference documents / Aconex unique numbers

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