CROSSWIND

TECHNICAL QUERY
Hollandse Kust Noord

No. TQ :	CW-STA-TQ-0001	Rev:	A

Originating Party	Crosswind					
Subject	Electrical data from CPI					
Author	Stephen Bremner	TQ Aconex unique number: CWHKN-INN-BPH-TQ-00012				
Interface TQ - from	Rosetti	TQ interface source Aconex unique number: ROSMA-INN-BPH-TQ-00028				
Type	Query			Interface		
	Deviation		x	Derogation (SHALL[PS])		
	Note: No deviations nor derogations which have an adverse effect on HSSE will be granted					
Workpackage						
Area(s) of application	Design & Eng.	x	Procurement		Construction	
	Commissioning		Operations		Other	
Issue date	20/09/2023		Urgent reply 5 days	X	Routine reply 10 days	
Close-out date	02-01-2024					
Closed-out by	WT		TQ status:		Closed-out	

1. Description

Reference documents / Aconex unique numbers:

Contractor kindly asks to receive following information from CPI vendors necessary to perform system study of the platform:

BESS:

1) Secondary voltage of the transformer of 1 MVA
2) Vector group of the transformer of 1 MVA
3) Impedance of the transformer of 1 MVA
4) Impedance of Neutral Earthing Resistor (NER)
5) Detailed Electrical Load List

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2. Response

Reference documents / Aconex unique numbers

1) Secondary voltage of 1.25 MVA transformer:
   Please note that the transformer is 1.25 MVA (not 1 MVA)
   Secondary voltage: 0.62 kV (also refer to data sheet extract below)

2) Vector group of the transformer of 1.25 MVA:
   Dyn5

3) Impedance of the transformer of 1.25 MVA:
   6% @ 120°C

4) Impedance of Neutral Earthing Resistor (NER)
   Not applicable. We are planning to use TN-C (S) system without NER

5) Detailed Electrical Load List
   Please refer to transmittal:
   STATRON-INN-BPH-TN-00005
   K559-2254-CWIWP4202201-E14-00 - Load List

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TECHNICAL DATA THREE-PHASE CAST RESIN TRANSFORMER

Position	1			
Reference Standards	IEC 60076-1,IEC 60076-11, EU 548/2014,EN 50588-1			
Type	TPZ3K7.2.1250	Application	Converter	6 Pulse
Rated Power – AN	1250 kVA	Duty Class	I	
Type of Cooling	AN	Frequency	50 Hz	
Degree of Protection	IP00			

CHARACTERISTICS

	HV	LV		
Voltage	7 kV	0,62 kV		
Insulation Class	7.2/20/60 kV	1,1/3/- kV		
Tapping	±2x2,5%	-		
Material	Aluminium	Aluminium		
Insulation class	F	F		
Temperature rise	100 K	100 K		
Connections location	Top	Top		
Vector Group	Dyn5			
Level of losses	EcoDesign TIER II			
No-Load Losses (Po)	1620 W			
On-Load Losses 120°C (Pcc)	11000 W			
Tolerance on the losses	0%			
Impedance 120°C (Uk%)	6%			
Power Noise (Lwa)	≤ 66 dB(A)			
Pressure Noise (Lpa)	≤ 52 dB(A)			
Ambient Temperature	-25°C ; + 40°C			
Installation	≤ 1.000 m			
Fire (F), Environmental (E), Climatic (C) Classes	F1/E2/C2			
HV/LV earth screen	YES			
Dimensions IP00 (AxBxC)	1680x1050x1990 mm	Wheel Base (D)	820 mm	
Wheels Dimensions (E)	160 mm	Total Weight IP00	3600 Kg	

STANDARD ACCESSORIES

Earthing terminal
Primary voltage tapping
MV output insulators
Output bars from LV windings
4 orthogonal revolving wheels
Name plate IEC 60076
Eyesbolts for Horizontal and Vertical movements
3 thermal sensors PT100 for temperature control
Routine tests report according to IEC 60076

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