Workstream 3 Content requirement for customer information



Who are part of WS3







What is the purpose of WS3 and what is it based on?

If the industry becomes more aligned on the deliverables of information/documentation, then it saves time for all parties

The work is based on censured versions of a real contract

"Documentation" gives a perception of a lot of pdf documents

Therefore we instead use the word "<u>Information</u>" because it indicates that the needed info doesn't necessarily needs to be provided as pdf documents



- Guideline describing e.g.
 - Scope
 - Terms and definitions
 - Technical information content requirements
 - The four Tiers



The 4 Tiers

<u> Tier 1</u>

Information and documentation required according to the Machinery Directive and EN ISO 20607:2019 and IEC 82079-1:2019. here the O&M is done outside design specification)

Tier 2

A minimum package of Information (In addition to the information specified under tier 1) which a turbine owner must be in possession of for Normal Operation purposes.

Tier 3

Information (In addition to the information specified in tiers 1+2) which is required for the parties which takes over the performance of O&M and/or Installation (where such activities are done within design specification). Receivers of the information shall be identified via an agreement.

<u> Tier 4</u>

Information (In addition to the information specified in tiers 1+2+3) based on individual negotiations. Some Tier 4 information may be required for the party other than the OEM which take over the performance of O&M (where the O&M is done outside design specification)



Two of the important definitions in the work

Shall Supply

Supply is a mode of communication of information, where the OEM must deliver the information to the relevant parties, in a format, that enables the relevant parties to have access to the information for continuous use for an agreed duration within limitations of non-disclosure agreements, if required by the parties

Make Available

Make Available is a mode of communication of information, where the OEM must, on request, provide the relevant parties with the content of the information concerned. The format for sharing information must take into consideration (1) the sensitivity of the information, (2) the purpose for sharing the information, and (3) the resources spent on accessing the information by the OEM and the receiver of the information.

However, the OEM is not required to Supply the information to the relevant parties.

How are workstream 1-3 getting interconnected?

A	В	С		D				
Referei	nce 🚽 System	✓ Information set	New proposal			-		
E18	High Voltage Systems	High Voltage Systems Technical Information		Concept single line diagrams for the High Voltage systems.				
E18	High Voltage Systems	Technical Information	Single line diagram for the High Voltage system.					
E18	High Voltage Systems	Data sheet for High Voltage	cable and other HV equipment.					
E18	High Voltage Systems	Design Information	Technical report describing all HV internal arc flash safe areas and unsafe areas e.g. blow out areas and dangerous areas.					
E18	High Voltage Systems	Design Information	15kV and for enclosures ab a reference made to the cor	ove 15kV or above 1500V DC. Al	lent energy level calculations for all HV cabine I arc flash mitigations shall be included in the r cing test report or other arc flash mitigation va	eport with		
E18	High Voltage Systems	Testing / Verification Information	Type test report.					
							1	
		E	F	G	Н	1	J	К
	1 Content requirement		👻 Standard (if any)	✓ Delivery format	Indicative Deadline	👻 Tie	- DCC	▼ RDS-PS ▼
E18	2 The Contractor shall Supply a concept single line diagrams for the High Voltage systems			Supply	01 - Project Design Phase	2		
210	3 The Contractor shall Supply a single line diag		Supply	08 - Test on Completion (incl. 240h test)	2			
	4 The Contractor shall Supply data sheet for Hi		Supply	01 - Project Design Phase	3			
	The Contractor shall Supply a technical report blow out areas and dangerous areas.	rt describing all HV internal arc flash safe areas and unsafe are	eas e.g.	Supply	01 - Project Design Phase	2		
E18 E18 E18	The Contractor shall Supply additionally to the energy level calculations in accordance to IEI enclosures above 15kV or above 1500V DC.	e arc flash technical report an ammendment that shall include EE 1584 for all HV cabinets up to 15kV and NFPA 70E Annex I All arc flash mitigations shall be included in the report with a re I arcing test report or other arc flash mitigation validation report rea) for eference	Supply	01 - Project Design Phase	3		
	7 The Contractor shall Make Available type test report according to IEC 60840.		IEC 60840	Make Available	01 - Project Design Phase	4		
E18	The Contractor shall Make Available type test 1, IEC 60754-1, IEC 60754-2, IEC 61034 and	Relevant parts of: IEC60332-1 IEC 60754-1 IEC 60754-2 IEC 61034 IEC 60811	Make Available	01 - Project Design Phase	4			
	62271-200 (this requirement shall be applied Switchgears but all HV enclosures e.g. HV ca converter enclosures, HV Generator enclosur 9		d to HV	Supply	01 - Project Design Phase	4		
	10 test of functionality of smoke sensors and fi			Supply	01 - Project Design Phase	2	4	
	11 • test of switchgear control and tripping functi	ione incl. trom transformer sunveillance		Supply	01 - Project Design Phase	2		1