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TRANSFORMER QUESTIONNAIRE

PROJECT	DESCRIPTION	UNITS	REQUESTED	COMMENTS
A	GENERAL BACKGROUND			
A.1	Name of Company			
A.2	Key Representative(s)			
A.3	Address:			
A.4	City, State, Postal Code			
A.5	Telephone Nos:			
A.6	Email:			
A.7	Website:			
A.8	Delivery Term , DDP, EXW, CIF (INCOTERMS 2020)			
A.9	Type: Dry Type, Oil Immersed, Air-Cooled etc			
A.10	Rules – IEEE			
A.11	Quantity of Units to Supply			
A.12	Site Location (Coordinates/ Address)			
A.13	Energization Date:			
B	ENVIRONMENTAL CHARACTERISTICS & NETWORKS			
B.1	CHARACTERISTICS OF THE NETWORKS TO WHICH THE EQUIPMENT WILL BE CONNECTED			
	Voltage	Frequency (50/60)	Hz	
		Nominal voltage(NSEG 8.E.n.75)	kV	
	Nominal voltage(NSEG 8.E.n.76)	kV		
B.2	ENVIRONMENTAL CONDITIONS OF THE INSTALLATION PLACE			
B.2.1	Maximum ambient temperature	°C		
B.2.2	Minimum ambient temperature	°C		
B.2.3	Average daily maximum temperature	°C		
B.2.4	Maximum height of sea level (see Note 1)	m		
B.2.5	Average annual rainfall	m		
B.2.6	Maximum wind pressure	kg/m2		
B.2.7	Seismic Rating or Zone	#		
C	GENERAL CHARACTERISTICS			
C.1	Standards used in manufacturing: IEEE Std.			
D	SERVICE TECHNICAL CHARACTERISTICS			
D.1	Primary winding tension	kV		
D.2	Secondary winding tension	kV		
D.3	System short circuit current	kA		
D.4	No. of phases			
E	TECHNICAL CHARACTERISTICS			
E.1	Type of cooling: i.e. ONAN/ONAF/ONAF?			
E.2	Powers at 65° C according to type of cooling			
E.2.1	-Power ONAN	MVA		
	-Power ONAF	MVA		
	-Power ONAF	MVA		
E.3	Impedance at ____ MVA, 65° C, Nominal Voltage	%		
E.4	Temperature rise coiled to the installation temperature (coiled - oil - hottest point)	°C		
E.5	Nominal Voltage (between phases):			
E.5.1	- Primary winding	kV		
E.5.2	- Secondary winding	kV		
E6	Preferred or Required Winding material i.e. Copper			
E.7	Winding Connection i.e. Dyn1 ?			

E.7.1	- Primary winding i.e. Delta?			
E.7.2	- Secondary winding i.e. Wye?			
E.8	Basic Impulse Level Rolled Up - IEEE?			
E.8.1	- Primary winding	kV		
E.8.2	- Secondary winding	kV		
E.9	Polarity i.e. (-) ?			
E.10	No-load loss at rated voltage	kW		
	On-load loss at rated voltage, corrected 85 °C	kW		
E.11	Total loss	kW		
E.12	Efficiency			
C.12.1	Full(35mva)	%		
C.12.2	75% on-load(_____mva)	%		
C.12.3	50% on-load(_____mva)	%		
C.12.4	20% on-load(_____mva)	%		
E 13	HV side tap range i.e. $\pm 2 \times 2.5\%$?	%		
E 14	LV side tap range (Automatic)?	%		
E.15	Bushing:			
E.15.1	Manufacturing Standard i.e. IEEE/IEC?			
E.15.2	HV bushing type i.e. Porcelain?			
E.15.3	Mounting position i.e. Top mounted ?			
E.15.4	Insulator color: i.e. Grey 70			
E.15.5	LV bushing: Porcelain?			
E.15.6	Mounting position: i.e. Top Mounted?			
F	CONTACTS OF CONTROL ACCESSORIES, AND ADDITIONAL ACCESSORIES			
F.1	Buchholtz relay (with 2 contacts) Yes/No?			
F.2	Mechanical overpressure valve without contacts			
F.3	OTI with alarm contacts Yes/No?			
F.4	WTI with alarm contacts Yes/No?			
F.5	Oil level indicator with contacts Yes/No?			
F.6	Tap changer in HV side i.e. NLTC $\pm 2 \times 2.5\%$ / other?			
F.7	Tap changer in LV side ?			
F.8	Welded or detachable radiators?			
F.9	Screwed top cover for Transformer Yes/No?			
F.10	Record-Hand hole for internal inspection Yes/No?			
F.11	Stainless steel name plate Yes/No?			
F.12	Protection and control equipment for the cooling system Yes/No?			
F.13	Sudden overpressure relief Yes/No?			
F.14	Auxiliary voltage of 220 Volts 1 phase 3 wires			
F.15	Oil preservative tank with neoprene bag and silica gel Yes/No?			
F.16	Manovacuumeter (pressure and vacuum indicator)			
F.17	Sea Ladder with top cover protection			
F.18	Drain and sampling valve Yes/No?			
F.19	Control cabinet Yes/No?			
F.20	Lightning Arrester Yes/No?			
G	OIL PROPERTIES			
G.1	Commercial designation			
G.2	Oil Type i.e. Mineral			
G.3	Rule (ASTM?)			
G.4	PCB Yes/No?			
H	TESTS ACCORDING TO CONSTRUCTION STANDARD			
H.1	Routine Tests (ANSI C.57.12.90) i.e. IEEE C57.12.90			
I	Warranty			
I.1	Minimum Years?			

IF YOU HAVE A DRAWING PLEASE ATTACH. PDF WHEN FINISHED AND RETURN VIA EMAIL TO:
SALES@CTGPOWERSYSTEMS.COM OR FAX TO: (941) 220-6612 IF YOU HAVE ANY QUESTIONS PLEASE CALL CTG AT:
(813) 920-3500