



ISO 9001 CERTIFIED

Form 3.2.1-D Rev. 0

TECHNICAL PROPOSAL INFORMATION

Customer: G2044 Date: _____

Proposal No: _____ Spec No: _____ Item No: _____

RATING							
Type	Transformer	Class	H Winding		X Winding		Y Winding
Phase	3		400 Wye	kV	18 Delta	kV	kV
Hertz	60	ONAN	130,000	KVA	130,000	KVA	KVA
Temp Rise	43 °C Average, 48°C Hot Spot	ONAF	175,000	KVA	175,000	KVA	KVA
Insul Liquid	NON PCB OIL TYPE IEC	Fut-ONAF	192,500	KVA	192,500	KVA	KVA
Top Oil Rise	40°C, Ambient 50°C			KVA		KVA	KVA

ADDITIONAL TAP VOLTAGES		
H Winding (Kv)	± 10 of 1.25 %	On Load, Full Power Tapping
X Winding (Kv)		

CONNECTIONS FOR OPERATION						
Transformers in Bank	To Transformer From	Phase	Connected	To Transformer To	Phase	Connected
-	-	-	-	-	-	-

PERFORMANCE BASED ON A LOADING OF				DIELECTRIC TESTS				INSULATION LEVELS			
								ITEMS	Basic Lightning Impulse (kV)		
								Winding	Bushing		
H Winding	400.0	kV	175.0	MVA	Applied Voltage (To other winding and ground)	H Winding	275	kV	H Line	1425fw/1050ss	1425
X Winding	18.0	kV	175.0	MVA		X Winding	50	kV	H neutral	650	650
Y Winding		kV	-	MVA		Y Winding	-	kV	X line	150	150
-	-	-	-	-		Induced Voltage	One Hour Enhancement	436	kV	X neutral	-
-	-	-	-	-			485	kV	Y line	-	-

PERFORMANCE DATA, Based on 75 °C Reference Temperature, 175 MVA Altitude: 1000 Mts.					
Losses and Exciting Current				Regulation	
Excitation	% Ex	No Load Kw (20°C)	Total Loss Kw	Power Factor	% Regulation
100%	0.330	106	475	0.80	9.699
110%	0.650	140	509 *	0.85	8.720
-	-	* Not Guaranteed		1.00	1.298

AUXILIARY (COOLING) LOSSES			
Transformer KVA	Class	KWatts Loss	
130,000	-	ONAN	0
175,000	-	ONAF	30
192,500	-	Fut-ONAF	40 for 110 % future load
-	-	-	-
-	-	-	-
Average Sound Level 82/84/85 dB ONAN/ONAF/Fut-ONAF			

PERCENT IMPEDANCE VOLTS					
% IZ	Between Windings	At kVA	% IZ Zero	Between Windings	At kVA
14.75	H-X	175,000	13.75*	H-X	175,000
*		-	*		-
*		-	*		-

* APPROXIMATE ONLY, NOT GUARANTEED

EFFICIENCIES (p.f = 1) AT 175 MVA				
Load	Full Load	3/4 Load	1/2 Load	1/4 Load
%	99.729	99.762	99.774	99.706

MECHANICAL DATA		
Not for Construction Purposes		
Outline Dwg No:	215379E1	
Operation dimensions are Including external radiator bank Mts.		
Height	(A)	7.79
Width	(B)	22.95
Depth	(C)	8.85
Height over Cover	(D)	4.72
Untanking (Plus slings)	(E)	9.44
Shipping Dimensions: Ft	WxDxH	10.06x5.33x4.72
Masses (Approximate)	Kg	
Core and Coils	147,460	
Tank and Fittings	118,631	
Liquid	125,990	Liters 113,391
Total Mass	379,481	
Shipping without OIL	188,733	
Shipping with OIL H=	-----	