MPT Detail Sheet

GSU Transformer - Specification Summary

Transformer Classification:	GSU		Operation:	Step-Up	
Winding Configuration:	Two windings		Vector Group:	YNd1	
Phases:	Three		Rated Frequency:	60	Hz
Continuous Ratings (MVA):	33.333	37.34			
Cooling:	ODAF	ODAF			
Temperature Rise	55°C	65°C			
Winding:	Nominal Voltage (kV)	Connection	BIL (kV)	Bushing BIL	Current minimum Rating (A)
HV:	67	Wye	350	350	400
H0	-	Wye	110	150	400
LV:	13.8	Delta	110	150	2000
X0	-	-			
Tap Changer Type	Steps Above	Steps Below	% Range	Total %	Location
De-Energized (DETC)	2	2	2.69	5.37	HV
On-Load (LTC)	16	16	0.675	10	HV
Oil Preservation System:	Nitrogen Blanket		Maximum Core Flux Density:		
Coolant Liquid:	Mineral Oil type II		1.67 Tesla		
No Load Losses (kW)		Rating:			
Load Losses (kW)		Rating:			
% Impedance HV / LV	15.1%	Rating:	33.3%		
Sound Level dB(A):	72	dB(A) at No-Load w/all cooling			
Lightning Arrestors Rating (kV):	HV:	57	LV:	10	MCOV
Current Transformers	Ratio (A)	Accuracy	Quantity	type	leads
HV winding	600:5	C800	6	Multi-ratio	5
Hot-spot CT					
HV Neutral	600:5	C400	1	Multi-ratio	5
LV winding	1200:5	C800	6	Multi-ratio	5
Hot-spot CT	1200:5		1		
LV Neutral					
Site Conditions					
Site Design Temperature Range		Average Annual Precipitation (in)			
Site Design Elevation (ft)	3300	Storm intensity 10 year - 1 hour (in/hr)			
Ambient Temperature Rating (°C)		Maximum Storm intensity 1 hour (in/hr)			
Reference Wind Velocity		Seismic Load			

Loss Evaluation: the following penalties will be assigned to transformer losses for evaluation

$	5,200	/ kW No-Load at 100% voltage rating and 20C
$	1,800	/ kW Load at 85 C (ONAN)
$	-	/ kW Auxiliary, ONAF rating

Quantity:	1
Location:	2274 Custer Ave., Fayetteville, NC 28312
Delivery to Site Date:	
Available for Energization Date:	
Technical Contact:	Joel C. Valley
Telephone number:	910-257-2198
email address:	joel.valley@faypwc.com

Notes: