Transformer dis-1

[redacted]

[redacted]

Type OA/FA Phase 3 Cycles 60 Insulating Fluid 10C oil

H-WINDING 7500/9375 KVA 67000 Volts X-WINDING 7500/9375 KVA 13800Y/7970 Volts Y-WINDING KVA Volts

ALL LOSSES, RESISTANCE AND REGULATION BASED ON A TEMPERATURE OF 85 °C

RESISTANCES, EXCITING CURRENT, LOSSES AND IMPEDANCE—Based on normal rating, unless otherwise stated. Losses and regulation are based on wattmeter measurements. For three-phase transformers the resistances are the sum of the three phases in series.

[redacted]

RESISTANCE IN OHMS AT 75°C WINDINGS H	X		% Excite Current at 100% Rated Voltage	No Load Loss Watts at 100% Rated Voltage	67.0 Kv to 13.8 Kv 7500 Kva Load Loss Watts 75°C	% Imp 75°C	Kv to Kv Kva Load Loss Watts 75°C	% Imp 75°C	Kv to Kv Kva Load Loss Watts 75°C	% Imp 75°C
18.45	.197		.88	13468	49695	7.95				
					Total Loss	% Imp 75°C	Total Loss	% Imp 75°C	Total Loss	% Imp 75°C
AVERAGE			.88	13468	63163	7.95				
GUARANTEE						7.50				

REGULATION AT 75°C		100% PF	% PF	80% PF	% PF
	AVERAGE	1.0		5.5	
	GUARANTEE				

TEMPERATURE RISES—Average rise in degrees C., corrected to instant of shutdown, of transformer.

Serial No. determined from thermally similar unit with windings connected and loaded as follows:

H Winding 63.4 Kv 68.3 Amp.; X Winding 13.8 Kv 314 Amp.;

Winding Kv Amp. until constant temperature rise was reached.

KVA	RISE OF WINDINGS BY RESISTANCE H	X		Guarantee	Top Fluid Rise	AMBIENT TEMP. Ingoing Water	Idler or Room	Rise	WATER Gallons Per Min.	Pounds Pressure
7500	63.1	62.9		65	53.7		30			

INSULATION TESTS	Winding	VOLT RATING	Test Voltage Applied in Kv	Duration of Test in Seconds
APPLIED POTENTIAL TESTS (Voltage applied between each winding and all other windings connected to core and ground.)	H	67000	140	60 Seconds for All Tests
	X	13800	34	

INDUCED POTENTIAL TEST: 2 times rated voltage across full winding; Kv from Kv

Line terminal to ground; at 300 cycles per second for 7200 cycles.

REMARKS

[redacted]