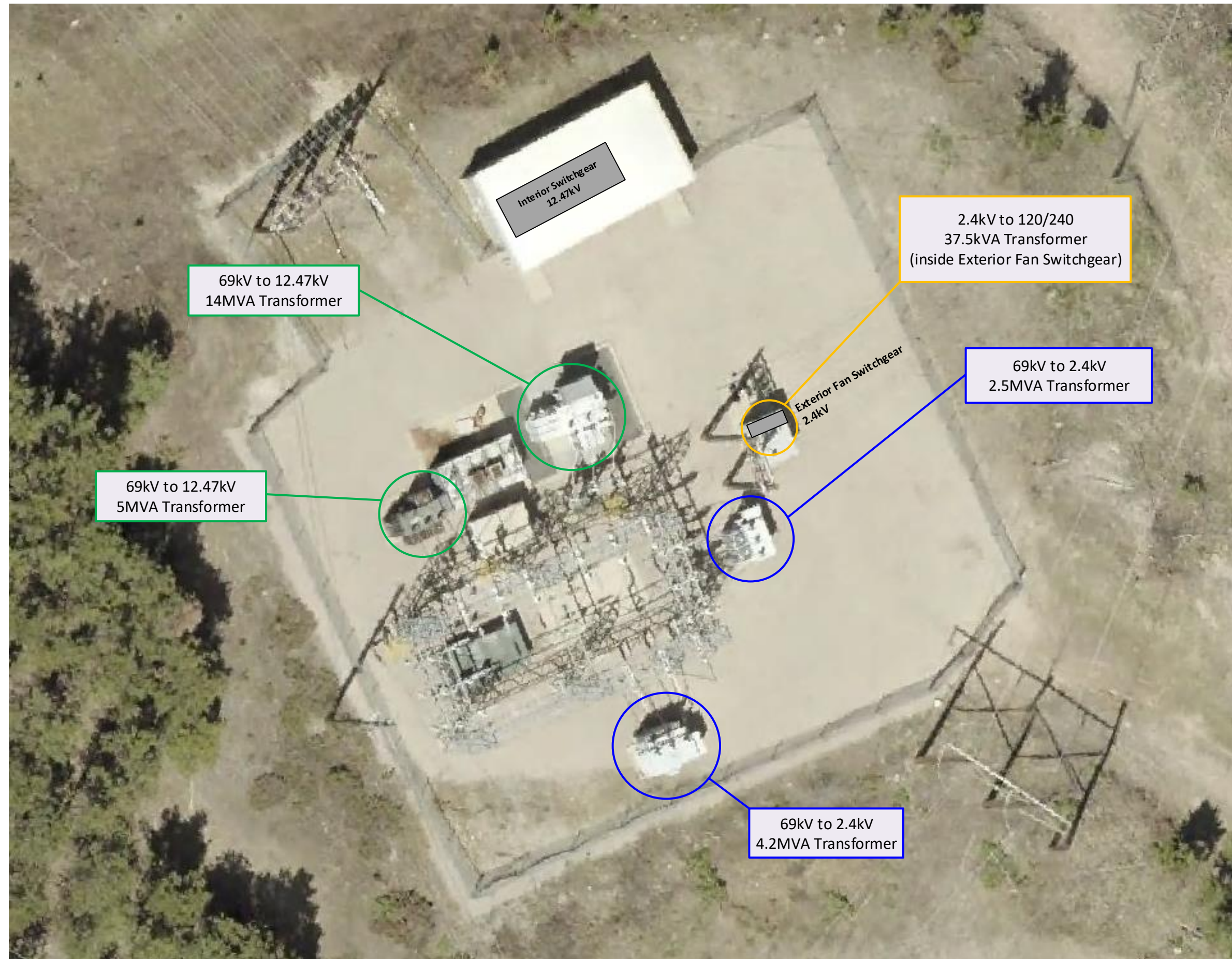


Oro Hondo Substation - Transformer Locations



GENERAL ELECTRIC

TRANSFORMER

NO. ~~110122~~ CLASS OA/FA THREE PHASE 50 HERTZ ①

CAUTION! INSTRUCTION BOOK INSIDE BOX. BEFORE INSTALLING OR OPERATING READ INSTRUCTIONS

VOLTAGE RATING 57000-2400
 KVA RATING 3000 CONTINUOUS 55 C RISE SELF COOLED
 KVA RATING 3750 CONTINUOUS 55 C RISE FORCED AIR
 KVA RATING 4200 CONTINUOUS 55 C RISE FORCED AIR
 IMPEDANCE VOLTS ~~2.0~~ % 67000-2400 VOLTS AT 3000 KVA

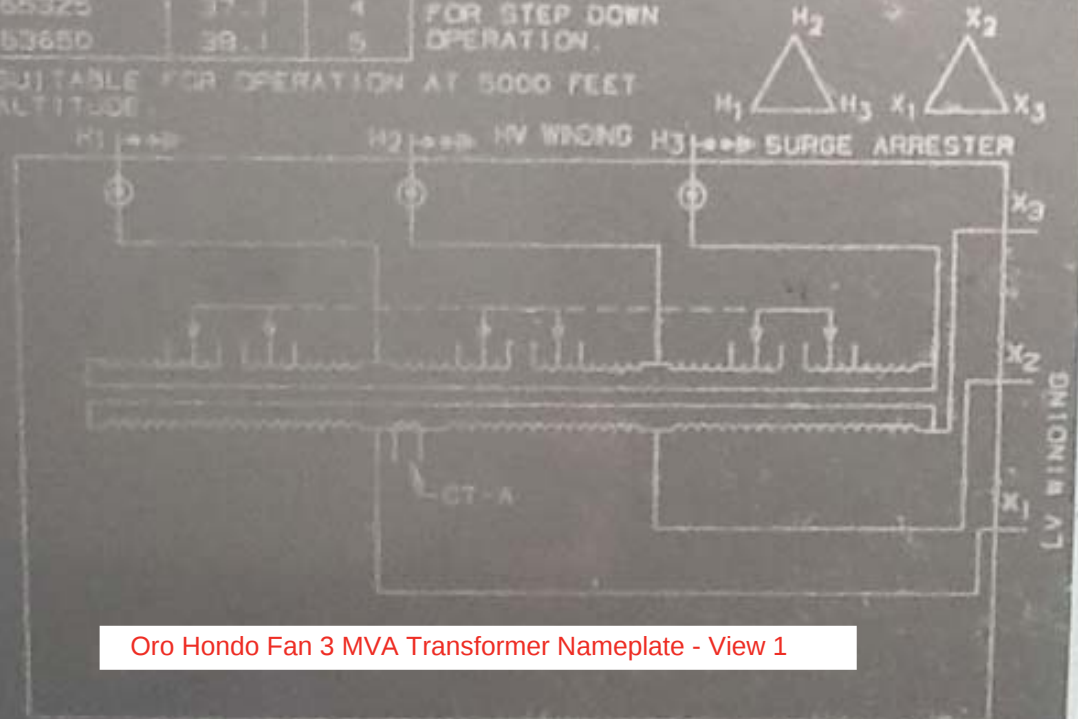
HV WINDING CONNECTIONS		
VOLTS	AMP 4200 KVA	DIAL POS
70350	34.5	1
58575	35.3	2
57000	36.2	3
55325	37.1	4
53650	38.1	5

LV WINDING CONNECTIONS	
VOLTS	AMP 4200 KVA
2400	1010

ITEM	BIL -KV
H ₁ H ₂ H ₃	350
X ₁ X ₂ X ₃	110

ALL WINDINGS COPPER
 DATE OF MANUFACTURE ~~DEC. 1955~~
 REQUISITION NUMBER 436-300024 IT. 1
 FOR STEP DOWN OPERATION.

SUITABLE FOR OPERATION AT 5000 FEET ALTITUDE.



SUITABLE FOR NONSINUSOIDAL CURRENT LOAD WITH K-FACTOR OF 4
 LIQUID LEVEL CHANGES .77 INCH PER 10 C CHANGE IN LIQUID TEMPERATURE
 LIQUID LEVEL BELOW TOP SURFACE OF HIGHEST POINT OF MANHOLE FLANGE AT 95 C IS 12.1 INCHES
 MAXIMUM OPERATING PRESSURE OF LIQUID PRESERVATION SYSTEM 7.5 LBS POSITIVE TO 0 LBS
 NEGATIVE TANK SUITABLE FOR 14.7 LBS VACUUM FILLING
 ROUND CORE AND COIL CONSTRUCTION.
 CT-A IS FOR USE WITH WINDING TEMPERATURE EQUIPMENT
 APPROX WEIGHTS IN LBS
 TOTAL 40400
 UNTANKING 14500
 TANK & FITTINGS 10200
 TYPE II OIL 2160 GAL 18600
 NP 2538-1

OMI, GEORGIA
 MADE IN U.S.A.

CONTAINS NO DETECTABLE ...
 AT TIME OF MANUFACTURE

Oro Hondo Fan 3 MVA Transformer Nameplate - View 1

NO. 105354 CLASS OA/FA THREE PHASE 60 HERTZ ①

CAUTION! INSTRUCTION BOOK INSIDE BOX. BEFORE INSTALLING OR OPERATING READ INSTRUCTIONS

VOLTAGE RATING 57000-2400
KVA RATING 3000 CONTINUOUS 55 C RISE SELF COOLED
KVA RATING 3750 CONTINUOUS 55 C RISE FORCED AIR
KVA RATING 4200 CONTINUOUS 55 C RISE FORCED AIR
IMPEDANCE VOLTS 2.01 % 57000-2400 VOLTS AT 3000 KVA

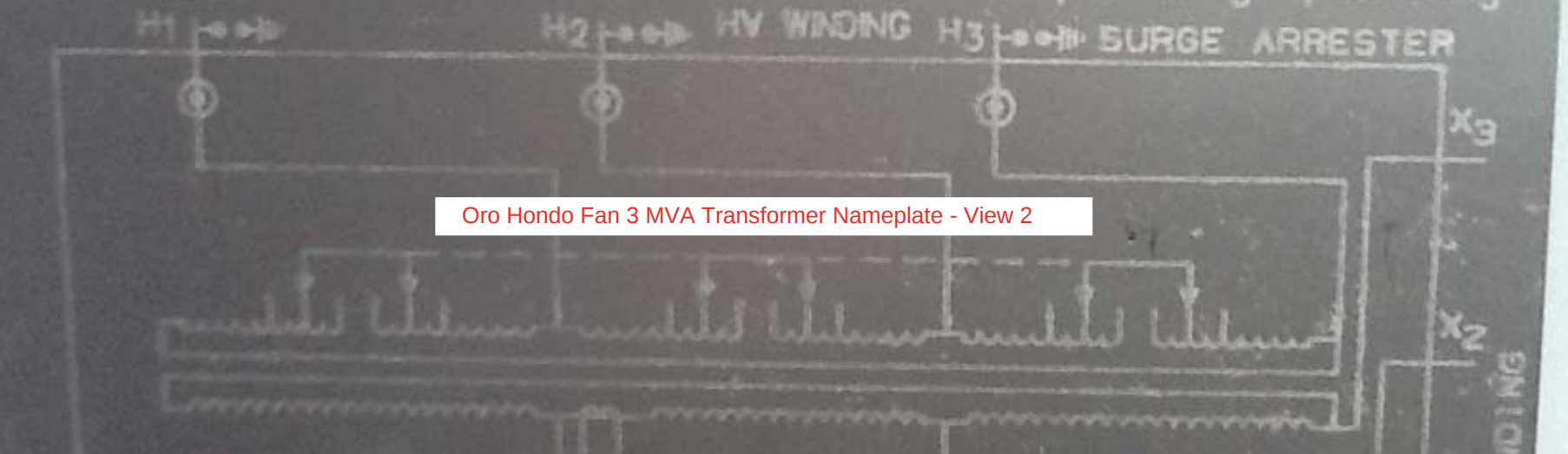
HV WINDING CONNECTIONS		
VOLTS	AMP 4200 KVA	DIAL POS
70350	34.5	1
68675	35.3	2
67000	36.2	3
65325	37.1	4
63650	38.1	5

LV WINDING CONNECTIONS	
VOLTS	AMP 4200 KVA
2400	1010

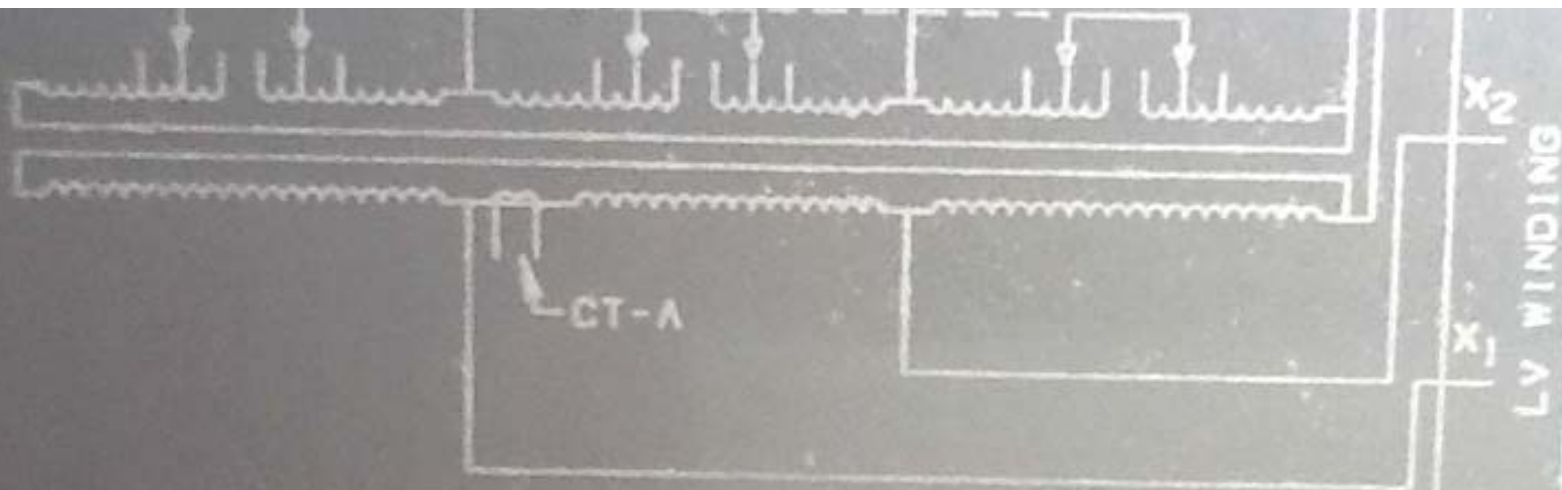
ITEM	BIL -KV
H ₁ H ₂ H ₃	350
X ₁ X ₂ X ₃	110

ALL WINDINGS COPPER
DATE OF MANUFACTURE DEC. 1995
REQUISITION NUMBER 436-300024 IT. 1
FOR STEP DOWN OPERATION.

SUITABLE FOR OPERATION AT 5000 FEET ALTITUDE.



Oro Hondo Fan 3 MVA Transformer Nameplate - View 2



Oro Hondo Fan 3 MVA Transformer Nameplate - View 3

SUITABLE FOR NONSINUSOIDAL CURRENT LOAD WITH K-FACTOR OF 4.

LIQUID LEVEL CHANGES .77 INCH PER
10 C CHANGE IN LIQUID TEMPERATURE.

LIQUID LEVEL BELOW TOP SURFACE OF
HIGHEST POINT OF MANHOLE FLANGE
AT 25 C IS 12.1 INCHES.

MAXIMUM OPERATING PRESSURE OF
LIQUID PRESERVATION SYSTEM

7.5 LBS POSITIVE TO 5.0 LBS

NEGATIVE. TANK SUITABLE FOR

14.7 LBS VACUUM FILLING.

ROUND CORE AND COIL
CONSTRUCTION.

CT-A IS FOR USE WITH
WINDING TEMPERATURE
EQUIPMENT.

APPROX WEIGHTS IN LBS

TOTAL 40400

UNTANKING 14500

TANK & FITTINGS 10200

TYPE 11 OIL 2100 GAL 18600

NP 263B4057

OME, GEORGIA
MADE IN U.S.A.

CONTAINS NO DETECTABLE PCB
AT TIME OF MANUFACTURE.

Westinghouse



67000-2300 VOLTS

60 HERTZ

L. SPEC. 885839

THREE PHASE
TYPE SL
TRANSFORMER
CLASS OA
INSULUR INSULATION

FULL LOAD CONTINUOUSLY
2500 KVA-55°C. RISE
2800 KVA-65°C. RISE
SERIAL

PCP-1770

INSTRUCTION BOOK

PCP-1770

GALLONS OIL

1375

FULL WAVE IMPULSE TEST LEVEL: HIGH VOLTAGE 350 KV., LOW VOLTAGE 60 KV.

IMPEDANCE 7.4 % AT 2500 KVA, 67000 TO 2300 VOLTS

APPROX. WEIGHT IN LBS.
CORE AND COILS

10300

CASE

7350

OR

8800

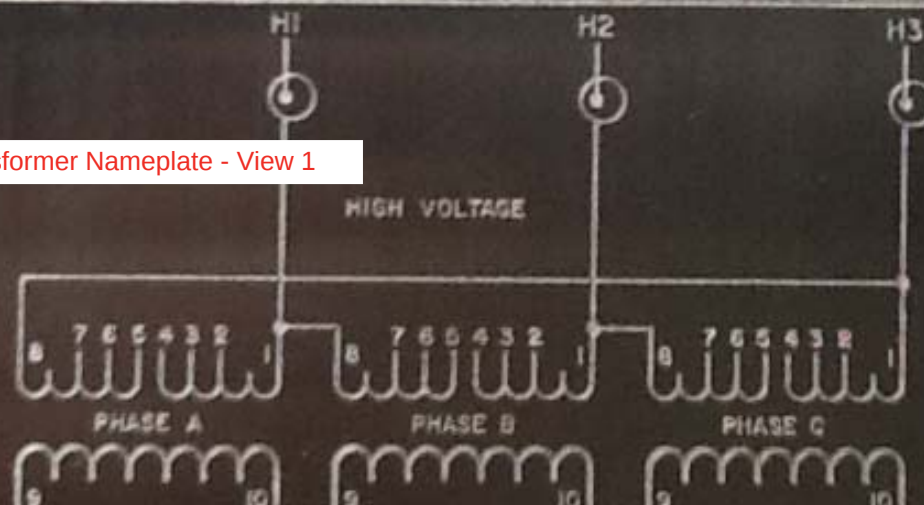
TOTAL

27450

MADE IN U.S.A. 1971

WESTINGHOUSE ELECTRIC CORPORATION

214P290H01



Oro Hondo Fan 2.5 MVA Transformer Nameplate - View 1

APPROX. WEIGHT IN LBS.
CORE AND COILS

10300

CASE

7350

OIL

3800

TOTAL

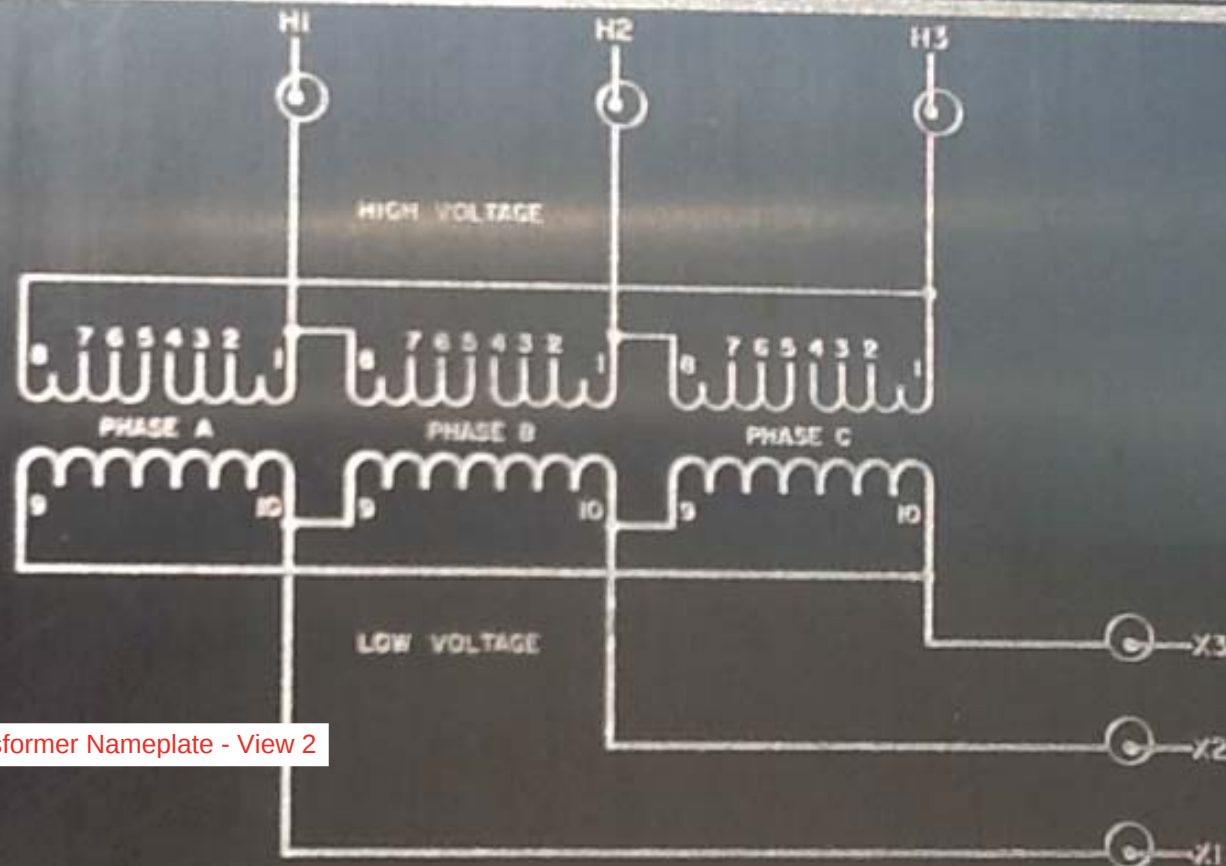
27450

MADE IN USA

1971

WESTINGHOUSE ELECTRIC CORPORATION

214P290H01



Oro Hondo Fan 2.5 MVA Transformer Nameplate - View 2

CONNECTIONS					
WINDING	VOLTS	2500 KVA AMPERES	NO LOAD TAP CHANGER CONNECTS		
			POS		
HIGH VOLTAGE DELTA	70600	20.4	1	4	TO 5
	68800	21.0	2	3	TO 5
	67000	21.5	3	3	TO 6
	65200	22.1	4	2	TO 6
	63400	22.8	5	2	TO 7
LOW VOLTAGE DELTA	2300	627.6			

Oro Hondo Fan 2.5 MVA Transformer Nameplate - View 3

CONNECTIONS					
WINDING	VOLTS	2500 KVA AMPERES	NO LOAD TAP CHANGER		
			POS.	CONNECTS	
HIGH VOLTAGE DELTA	70600	20.4	1	4	TO 5
	68800	21.0	2	3	TO 5
	67000	21.5	3	3	TO 6
	65200	22.1	4	2	TO 6
	63400	22.8	5	2	TO 7
LOW VOLTAGE DELTA	2300	627.6			

THIS TRANSFORMER WILL CARRY 3500 KVA WITHOUT EXCEEDING 65°C. AVERAGE TEMPERATURE RISE WHEN ADEQUATE COOLING EQUIPMENT IS ADDED.

THE 25°C. LIQUID LEVEL IS 15 INCHES BELOW TOP OF HIGHEST MANHOLE FLANGE.

LIQUID LEVEL CHANGES $1\frac{1}{16}$ INCHES FOR EACH 10°C. CHANGE IN AVERAGE LIQUID TEMPERATURE.

THE TRANSFORMER IS DESIGNED FOR OPERATION BETWEEN PRESSURE LIMITS OF 6.5 LBS. PER SQUARE INCH POSITIVE AND 6.5 LBS. PER SQUARE INCH NEGATIVE.

THE TRANSFORMER MUST NOT BE ENERGIZED FROM ANY VOLTAGE SOURCE WHEN NO LOAD TAP CHANGERS ARE OPERATED.

THE TRANSFORMER TANK IS DESIGNED TO WITHSTAND COMPLETE VACUUM.

CONDUCTOR MATERIALS H.V. AL., L.V. AL.

H2

X2

Westinghouse



THE TRANSFORMER TANK IS DESIGNED TO WITHSTAND COMPLETE VACUUM.
CONDUCTOR MATERIALS H.V. AL. L.V. AL.

H2

X2

Westinghouse



THIS UNIT HAS BEEN
UPGRADED TO 125% OF
THE ORIGINAL SELF-
COOLED NAMEPLATE
RATING

H 61

3D04017

