



Y-W ELECTRIC
ASSOCIATION
AKRON, COLORADO
COLORADO 38 YUMA

250 Main Ave, Akron, Colorado 80720

POWER TRANSFORMER

CLASS ONAN/ONAF 3-PHASE 60 HZ ORIG. SER. NO 282520-1
MVA 10/12.5 CONT. TEMP. RISE 55° C
MVA 11.2/14 CONT. TEMP. RISE 65° C
HV 110000 VOLTS BIL 450 KV
LV 12470Y/7200 VOLTS BIL 110 KV
LV NEUTRAL BIL 110 KV
IMPEDANCE 7.5 % AT 110000-12470 VOLTS AND 10.0 MVA

REBUILD J. O. 1150P

BUSHING CURRENT TRANSFORMER
MULTI-RATIO RELAYING
ACCURACY CLASS UNKNOWN
CT: A, B, C, D, E, F, G

CURRENT RATIO	TAP	CURRENT RATIO	TAP
100:5	X2-X3	600:5	X2-X4
200:5	X1-X2	800:5	X1-X4
300:5	X1-X3	900:5	X3-X5
400:5	X4-X5	1000:5	X2-X5
500:5	X3-X4	1200:5	X1-X5

BUSHING CURRENT TRANSFORMER
CT: FOR LINE DROP COMP.
700:5 RATIO

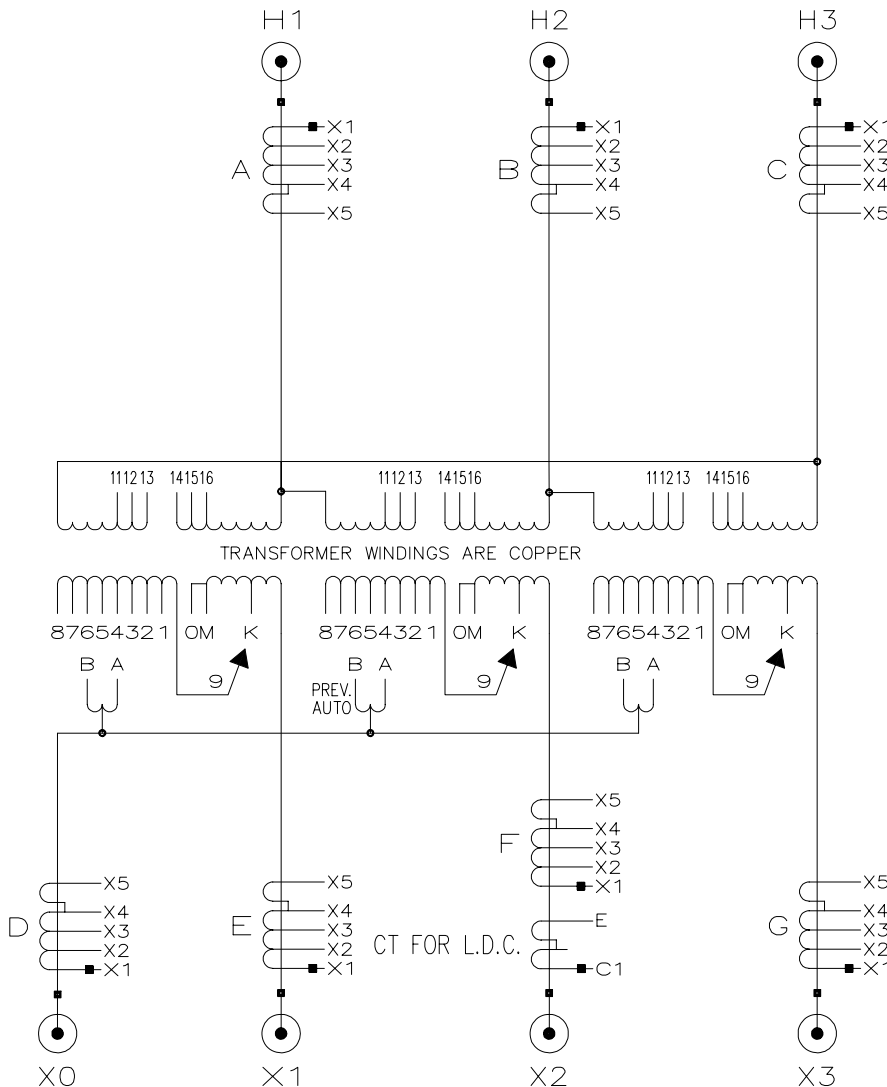
HIGH VOLTAGE TAPCHANGER DE-ENERGIZED OPERATION			
VOLTS H1-H2-H3	AMPS AT 14.0 MVA	POS	CONNECTS
115500	70.0	A	13-14
112750	71.7	B	13-15
110000	73.5	C	12-15
107250	75.4	D	12-16
104500	77.4	E	11-16

LOW VOLTAGE TAPCHANGER CONNECTIONS				
VOLTS X1-X2-X3	AMPS AT 14.0 MVA	POS	LOAD TAP CHANGER	
			A	ON B ON 9 ON
13715	589	16R	8	8
13640	593	15R	7	8
13560	596	14R	7	7
13485	599	13R	6	7
13405	603	12R	6	6
13325	607	11R	5	6
13250	610	10R	5	5
13170	614	9R	4	5
13095	617	8R	4	4
13015	621	7R	3	4
12940	625	6R	3	3
12860	629	5R	2	3
12780	632	4R	2	2
12705	636	3R	1	2
12625	640	2R	1	1
12550	644	1R	0	1
12470		N	0	0
12390		1L	8	0
12315		2L	8	8
12235		3L	7	8
12160		4L	7	7
12080		5L	6	7
12000		6L	6	6
11925		7L	5	6
11845	648	8L	5	5
11770		9L	4	5
11690		10L	4	4
11615		11L	3	4
11535		12L	3	3
11455		13L	2	3
11380		14L	2	2
11300		15L	1	2
11225		16L	1	1

FOR STEP DOWN OPERATION

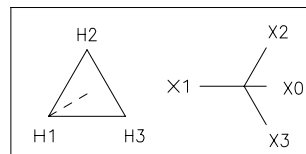
LOAD TAP CHANGER MOTOR IS
REMOVED. CONTACTS ARE FIXED
IN "N" POSITION.

ORIG MANUFACTURE 1979
KUHLMAN ELECTRIC COMPANY
REMANUFACTURED 9/1992
U. S. TRANSFORMER



TRANSFORMER WINDINGS ARE COPPER

CT FOR L.D.C.



OIL LEVEL BELOW TOP SURFACE OF THE HIGHEST POINT OF
THE HIGHEST MANHOLE FLANGE AT 25°C IS 11.13 INCHES
OIL LEVEL CHANGES 0.89 INCHES PER 10°C CHANGE IN OIL
TEMPERATURE.

OPERATING PRESSURE OF OIL PRESERVATION SYSTEM IS
5 LBF/IN² POSITIVE TO 0.5 LBF/IN² POSITIVE

TANK DESIGNED FOR 10 LBF/IN² POSITIVE PRESSURE
AND 14.7 LBS VACUUM FILLING.

BEFORE OPERATING READ IM 3.010 AND 01X3223

DE-ENERGIZE TRANSFORMER BEFORE CHANGING H.V. TAPS
CD NO. 282520

APPROXIMATE WEIGHTS		LBS.
CORE & COIL (UNTANKING WEIGHT)		35000
TANK AND FITTINGS		25400
OIL-MAIN TANK	3734 GALS.	27600
OIL-LTC COMP	219 GALS.	1640
LTC MECHANISM		460
TOTAL WEIGHT		90100
UNTANKING HEIGHT	287 IN.	