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TRANSFORMER

SERIAL No G2044-__, THREE-PHASE, 60 Hz, ALTITUDE UP TO 1000 MASL

VOLTAGE RATING 400 000 - 18 000 YNd1	
130 000 KVA CONTINUOUS @ 43° AVERAGE WINDING RISE ONAN	
180 000 KVA CONTINUOUS @ 43° AVERAGE WINDING RISE ONAF	
234 000 KVA SHORT TIME (4 HRS)	

DESIGN AMBIENT TEMPERATURE	50 °C
MAXIMUM HOT SPOT RISE	48 °C
MAXIMUM TOP OIL RISE	40 °C
MAXIMUM HOT SPOT TEMPERATURE	88 °C

HIGH VOLTAGE WINDING	
AMPERES	LOAD TAP CHANGER
1U, 1V, 1W	DNL POS. SELECTION
400 000	1
440 000	2
475 000	3
500 000	4
525 000	5
550 000	6
575 000	7
600 000	8
625 000	9
650 000	10
675 000	11
700 000	12
725 000	13
750 000	14

LOW VOLTAGE WINDING	
VOLTS	AMPERES
2U, 2V, 2W	180 000 KVA
18 000	5 775

PURCHASER: GE / SAUDI ELECTRICITY COMPANY
 P.O. No.: _____
 DATE TEST: _____

CTS LOCATIONS PURPOSE
CTS-1: BUSHING 1U CLIENT USE
CTS-2: BUSHING 1V CLIENT USE
CTS-3: BUSHING 1W CLIENT USE
CTS-4: BUSHING 1U CLIENT USE
CTS-5: BUSHING 1V CLIENT USE
CTS-6: BUSHING 1W CLIENT USE
CTS-7: BUSHING 2U WITH MEASUREMENT
CTS-8: BUSHING 2V WITH MEASUREMENT

3000.0A	3000.0A	3000.0A
1000.0A	1000.0A	1000.0A
500.0A	500.0A	500.0A
250.0A	250.0A	250.0A
125.0A	125.0A	125.0A
62.5A	62.5A	62.5A
31.25A	31.25A	31.25A
15.625A	15.625A	15.625A
7.8125A	7.8125A	7.8125A
3.90625A	3.90625A	3.90625A
1.953125A	1.953125A	1.953125A
0.9765625A	0.9765625A	0.9765625A

APPROXIMATE WEIGHTS (KGS)	
CORE AND COILS	147460
TANK AND FITTINGS	43900
MAIN TANK LIQUID (103450 LIT)	93100
LTC CONSERVATOR TANK LIQUID (42 LIT)	39
LTC TANK LIQUID (170 LIT)	157
HO CONSERVATOR TANK LIQUID (882 LIT)	790
TOTAL WEIGHT	284657
UNWINDING WEIGHT (HEAVIEST PIECE)	147459
SHIPPING WEIGHT (WITHOUT OIL)	188733
APPROXIMATE WEIGHTS OF RADIATORS BANK (KGS)	
RADIATORS & FITTINGS	7550
CONSERVATOR TANK LIQUID (4588 LIT)	4130
COOLING EQUIPMENT LIQUID (18849 LIT)	15164
TOTAL WEIGHT	94844

IMPEDANCE @ 75 °C
 @ 180 000 KVA BASE
 HV - LV
 DNL POS. 1 %
 11 %
 21 %

MAXIMUM SYMMETRICAL SHORT CIRCUIT CURRENT (5 sec)
 WINDING KA
 HV 92.176
 LV 2.1928

"TRANSFORMER DESIGNED FOR A NOMINAL HV - LV IMPEDANCE OF 14.75% @ 180 MVA (TOLERANCE +/- 5%). THE ACTUAL MEASURED IMPEDANCE VALUE WILL BE SHOWN ON THE NAMEPLATE AFTER TESTS".

CERTIFIED FINAL DRAWING
 ENGINEERING DEPARTMENT

GE / Saudi Electricity Company
 Building 59, 1 Sher Road
 Dhahran, Near Yeddah
 P.O. No. _____
 GE Proj # : _____
 Drawing & Project
 GE PROLEC Serial N° : G2044-18

GENERATOR UNIT TRANSFORMER
 130/180 KVA, ONAN/ONAF, 60 Hz,
 THREE PHASE, 43° AVERAGE WINDING RISE,
 UP TO 1000 MASL,
 PRIMARY : 400/230.34 KV
 SECONDARY : 18 KV

GE Energy
 GENERAL ELECTRIC COMPANY
 GENERAL ELECTRIC INTERNATIONAL, INC
 POWER GENERATION - POWER PLANT SYSTEMS

NAMEPLATE

PROJECT NAME: Qurayyah II
 STATION: Saudi Arabia

IPS NO: 504868

SIZE B DWG NO G204416D802
 MDL NO

SCALE NONE SHEET 1 of 1

NAMEPLATE
 Scale: mm=mm
 Dimensions: mm=mm
 Drawing No. G204416D802

Sheet: 1 of 1
 Rev: 0

SEC CAD-A (2004/04)
 CANADA

REV 9	REV 7	REV 5	REV 3	REV 1
REV 10	REV 8	REV 6	REV 4	REV 2

REFERENCE DRAWINGS	
DRAWING TITLE	DRAWING NO.

AS-BUILT BY	DATE

DRAWN BY	CHECKED BY	SCALE
DATE STARTED	DATE COMPLETED	
ORIG. DEPT.	ENG. DEPT.	
THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ORDERING MATERIAL UNTIL CERTIFIED AND DATED		APPROVAL/CERTIFICATION INFORMATION
		BY: _____ REV. NO. _____

MATERIAL: STAINLESS STEEL
 DIMENSIONS: 20.5 * 7.12

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