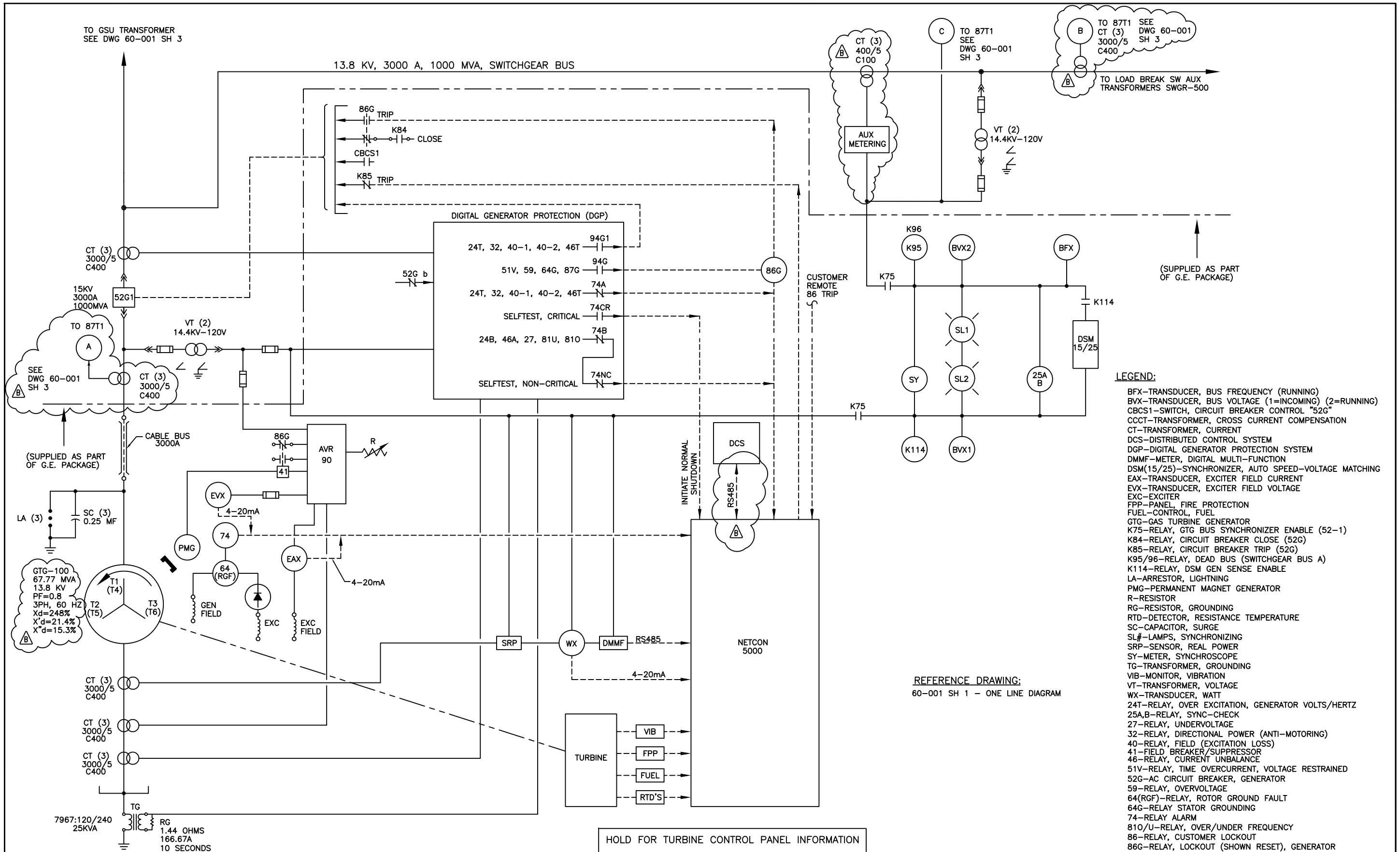

REFERENCE DRAWING:
60-001 SH 1 – ONE LINE DIAGRAM

LEGEND:

BFX–TRANSDUCER, BUS FREQUENCY (RUNNING)
BVX–TRANSDUCER, BUS VOLTAGE (1=INCOMING) (2=RUNNING)
CBCS1–SWITCH, CIRCUIT BREAKER CONTROL "52G"
CCCT–TRANSFORMER, CROSS CURRENT COMPENSATION
CT–TRANSFORMER, CURRENT
DCS–DISTRIBUTED CONTROL SYSTEM
DGP–DIGITAL GENERATOR PROTECTION SYSTEM
DMMF–METER, DIGITAL MULTI-FUNCTION
DSM(15/25)–SYNCHRONIZER, AUTO SPEED-VOLTAGE MATCHING
EAX–TRANSDUCER, EXCITER FIELD CURRENT
EVX–TRANSDUCER, EXCITER FIELD VOLTAGE
EXC–EXCITER
FPP–PANEL, FIRE PROTECTION
FUEL–CONTROL, FUEL
GTG–GAS TURBINE GENERATOR
K75–RELAY, GTG BUS SYNCHRONIZER ENABLE (52-1)
K84–RELAY, CIRCUIT BREAKER CLOSE (52G)
K85–RELAY, CIRCUIT BREAKER TRIP (52G)
K95/96–RELAY, DEAD BUS (SWITCHGEAR BUS A)
K114–RELAY, DSM GEN SENSE ENABLE
LA–ARRESTOR, LIGHTNING
PMG–PERMANENT MAGNET GENERATOR
R–RESISTOR
RG–RESISTOR, GROUNDING
RTD–DETECTOR, RESISTANCE TEMPERATURE
SC–CAPACITOR, SURGE
SL#–LAMPS, SYNCHRONIZING
SRP–SENSOR, REAL POWER
SY–METER, SYNCHROSCOPE
TG–TRANSFORMER, GROUNDING
VIB–MONITOR, VIBRATION
VT–TRANSFORMER, VOLTAGE
WX–TRANSDUCER, WATT
24T–RELAY, OVER EXCITATION, GENERATOR VOLTS/HERTZ
25A,B–RELAY, SYNC-CHECK
27–RELAY, UNDERVOLTAGE
32–RELAY, DIRECTIONAL POWER (ANTI-MOTORING)
40–RELAY, FIELD (EXCITATION LOSS)
41–FIELD BREAKER/SUPPRESSOR
46–RELAY, CURRENT UNBALANCE
51V–RELAY, TIME OVERCURRENT, VOLTAGE RESTRAINED
52G–AC CIRCUIT BREAKER, GENERATOR
59–RELAY, OVERVOLTAGE
64(RGF)–RELAY, ROTOR GROUND FAULT
64G–RELAY STATOR GROUNDING
74–RELAY ALARM
810/U–RELAY, OVER/UNDER FREQUENCY
86–RELAY, CUSTOMER LOCKOUT
86G–RELAY, LOCKOUT (SHOWN RESET), GENERATOR
87T – DIFFERENTIAL PROTECTIVE RELAY
94–RELAY, TRIP

EDG International

REVISED	CUSTOMER INFORMATION

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				REVISIONS
B	6/06/09	SLP		ADDED CT'S, REVISED TAG #'S

DRAWN	REB	7/1/09
CHECK		
DESIGN	RS	7/1/09
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PROJ MGR		
QA MGR		
SCALE	NONE	SIZE D

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ProEnergy EPC Services, LLC

ONE LINE DIAGRAM
GTG 100, LM-6000 PROTECTION
TACOA POWER PLANT

CARACAS VENEZUELA

JOB. NO.	DWG NO.	SH NO.	REV
0906	60-001	2	B