DRAWING NO.	SHT	REV
06BP029-185-E100D	1	D

REVISIONS

CHANGE NO.	REV	ZONE	DESCRIPTION	DWN BY DATE	APVD BY DATE
XXXX	A		UPDATED WHERE CIRCLED	REA 29SEPT06	

TO GENERATOR STEP-UP TRANSFORMER

TO 87U

TO CUSTOMER

TO CUSTOMER REVENUE METERING

TO TRANSMISSION BREAKER & COMPAINION GENERATOR BREAKER

PT-3 2 PT 120V:14.4KV L-L BUS PT'S

CABLE

CT-8 2 CT 200/5A

4 DBR

F VS V VT

AUX WX AUX VARX

CT-5 3CT 4000/5A C200

CT-9 3CT 4000/5A C200

SYN 25 25 SC

4000A VACUUM C.B.-G. 1000MVA 65KA 3

1

CT-6 3CT 4000/5A C200

CT-7 3CT 4000/5A

PT-4 3 PT 120V:14.4KV L-L BUS PT'S

59BG

REMOVABLE LINK

86AT

50/51

CT-10 3CT 400/5A C200

TA DRY TYPE TRANSFORMER 1500 KVA @ 80°C 13.8KV/480V. DYn1

800A CB

MANUAL TRANSFER SWITCH

N E TO CUSTOMER'S BACKFED ELECTRICAL POWER SUPPLY

TO MCC STARTERS & BREAKERS

BOP

PT-1 2 PT 120V:14.4KV L-L GEN PT'S

PT-2 2 PT 120V:14.4KV L-L GEN PT'S

81 27 59 24 27 50 50 BF

87 60FL 40L 27 21 78 32 46

M3425A

21 27 32 46 50/27 59 78 81 → 86G1

24 40 → 86G2

87 → 86E

AS A W VAR VARX WX WH

AUTO VOLTAGE REGULATOR (AVR)

UNIT 34

UNIT CONTROL

POWER SYSTEM STABILIZER

SC LA

76E A

ROTATING RECTIFIERS 64F FIELD

PMG BRUSHLESS EXCITER

4000A TENV NON SEGREGATED PHASE BUS

BRUSH BDAX 72.290 ER 82.235MVA, 0.85PF 69.9MW 13.8KV 60HZ

RTD'S

UNIT 49

UNIT 38

209 208 209

CT-4 1CT 4000/5A C200

CT-3 3CT 4000/5A C200

CT-2 3CT 4000/5A C200

CT-1 3CT 4000/5A C200

N

REMOVABLE LINK

TD DISTRIBUTION TRANSFORMER 13.8KV/240V 96.6 KVA 30 SEC RATED

M3425A M3425AR 27 27TN 59N 59N

209 209

R RESISTOR 30 SEC RATED 0.25 Ω

59N → 86E 59N → 86E

24 59 27 81 27 50 50 BF 87

46 50 32 51V 40L 60FL 27

M3425AR

27 32 46 50/27 51V 59 81 → 86G1

24 40 → 86G2

87 → 86E

FOR PROPSAL PURPOSES ONLY
NOT FOR CONSTRUCTION

CONFIGURATION; SP62, GF, WATER INJECTED, STANDARD FIRE SUPPRESSION, SCR/CO CATALYST SYSTEM, BRUSH BDAX 72.290ER ELECTRIC GENERATOR FT8-3, MANUAL TRANSFER SWITCH, INLET FOGGING

NOTES:

1. CT'S ONLY ARE PROVIDED
2. NOT USED
3. CKT BREAKER RATED 3000A CONT. NON FAN COOLED AND 4000A CONT. FORCED FAN COOLED.
4. DBR CONTACT USED AS PERMISSIVE FOR SYNCHRONIZER TO OPERATE IN ISOLATED MODE.

DRAWING NO. 06BP029-185-E100D SHT 2 REV D

STARWOOD POWER - MIDWAY, LLC PEAKING PROJECT	Figure 3.4-4B	DIAGRAM, ONE LINE FT8-3 TWIN PAC 13.8KV, 60 HZ	2006