TRASCO 100 12-78 MC 8878#

713 715 723 733

T.V.A METER

69KV 3/0 ACSR

3/0 ACSR

657 637 647

69/2.4 KV 7.5 MVA Z = 7.28%

69/13.2 KV 20 MVA 875 A Z = 7.37

PRI. FUSE SMD-4 175E

66000/13200 15/20/25 MVA Z = 7.25

3000 KVAR

3600 KVAR

4500 KVAR

OIL SW.

OCB

Meter

3-50 KVA 2400/480V

1000 AAC (1030A)

795 AAC (900A)

556.5 AAC

1/0 ACSR

2400V METAL CLAD SWITCHGEAR NOT IN USE

OIL SW. 1800 KVAR

1-5 KVA 2400/120/240V TO TVA

$I_{sc}$ = 16880

400A

200A

500 MCM (495A)

250 MCM (315A)

3-333 KVA 2400/277-480

#4 (97A)

#2 (130A)

PARALLEL 100A FUSES

375 KVA

NO. 2 NO. 1

#2 (130A)

FINISHING LEADER NO. 2 MILL MCC 1-900 HP 198A (SEE DWG. B-90)

NO. 2 MILL MCC RM 2-400 HP MOTORS 92A (SEE DWG B-88)

BREAKDOWN MILL MCC 1-900 HP 218A

$I_{sc}$ = 11,490 A

250 HP

PLANT AIR 3-167 KVA

$I_{sc}$ = 16897 A

3-500 KVA 2400/480 V

CASTER MCC (SEE DWG. B-92)

$I_{sc}$ = 14900 A

BAGHOUSE MCC 2400V 2-400 HP @ 9%

BAGHOUSE MCC 480V

13200/277/480 3-333 KVA

DEMAND LIMIT CONTROL

MOTOR OPERATED GOAB

VACUUM BREAKER

GOAB MOTOR OPERATED

VACUUM BREAKER $I_{sc}$ = 10,270

13.8 KV / 150-240V 10 MVA Z =

13.8 KV / 150-240V 15 MVA Z =

FCE #2

FCE #3

FCE #1

FCE 1 & 2 MCC

3-250 KVA 2400/480

LAB

SERVICE

25

13.8 KV / 150-240V

VACUUM BREAKER

GOAB MOTOR OPERATED

715 AAC (900A)

NO. 1 MILL DRIVE MCC 1400 HP

MILL NO. 1 MCC 480V

3-333 KVA 2.4KV / 277/480

25 KVA

25 AMOR

SW

BREAKDOWN MILL DRIVE MCC 1500 HP

1000 MCM

556.5 AAC

1200 KVAR

1200 KVAR

1500 KVAR

3000 KVAR

3000 KVAR

METER

REG

69 KV / 2400V 4200/5250 KVA Z = 6.8

PRI FUSE 50E

627

69 KV / 13.2 KV 15 MVA Z = 6.7

PRI FUSE 175E

617

6A

200A

3-250 KVA 2400 / 480V

POND PUMP MCC

| NO | REVISION | DATE |
|---|---|---|
| 1 | Added conductor ampacities | 6-12-79 |
| 2 | ADDED DETAIL DWG. NO. | 8-6-79 |
| 3 | DENOTED LINE & CAPACITORS | 1-29-80 |
| 4 | REVISED SUB 574 SWITCH | 1-30-81 |
| 5 | REV SVB & Added Cable # | 8-15-81 |

TENNESSEE FORGING STEEL
HARRIMAN, TENNESSEE

SCALE NTS APPROVED BY DRAWN BY R. HALL

DATE 3-24-79

SINGLE LINE DIAGRAM ELECTRIC FEEDERS 69,000 13,200 AND 2400 VOLTS

DRAWING NUMBER B-86

SHEET #1