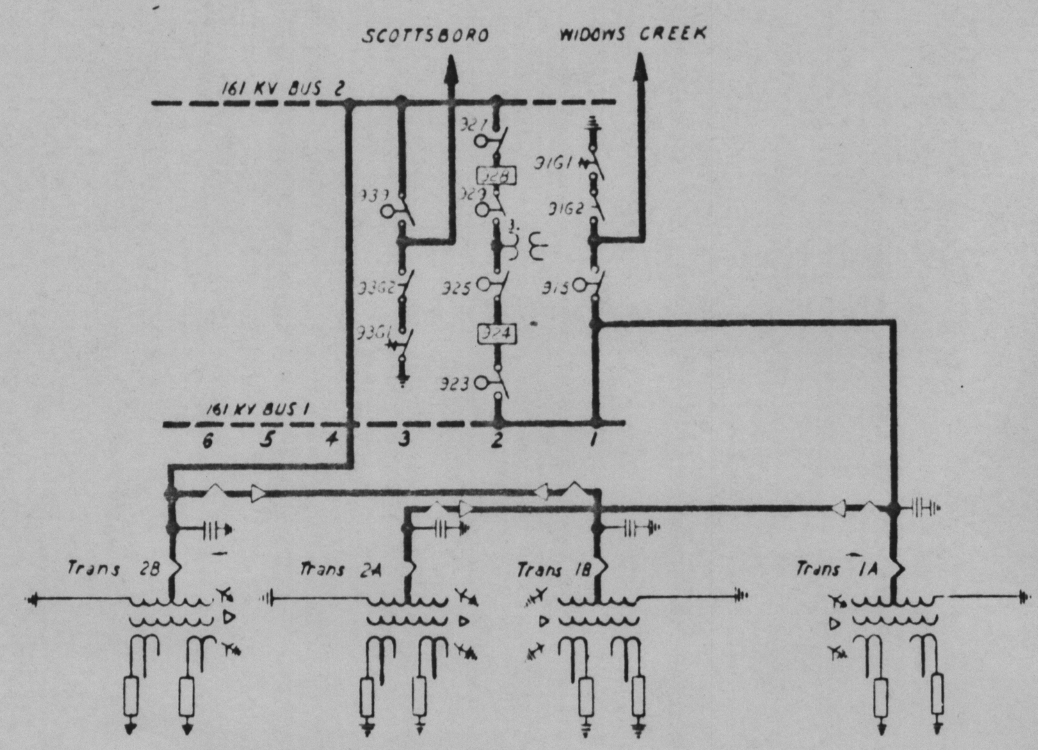
2BW0500-00-01 | E | 88



161 KV EQUIPMENT RATINGS

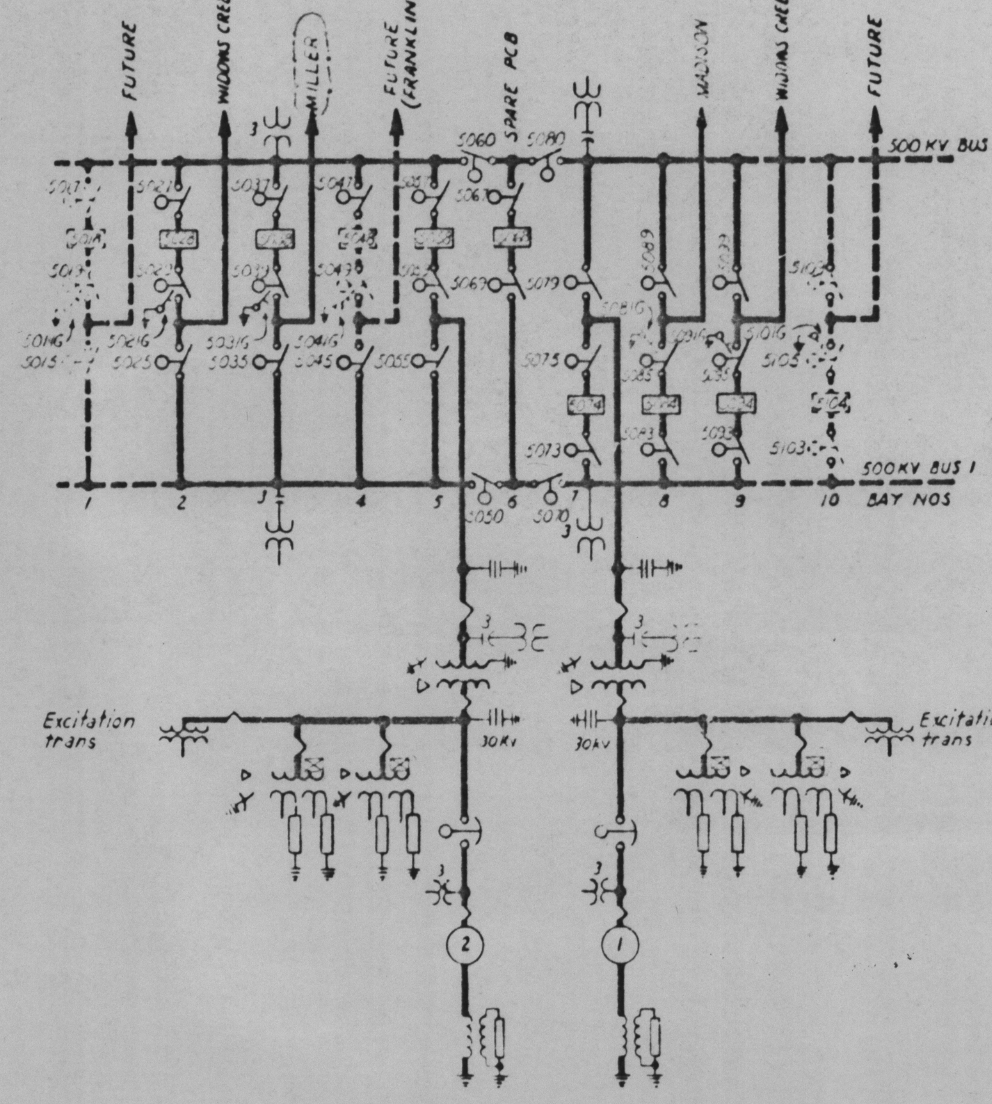
All switches 1600 amps

All pcbs 2000 amps, 50k amps interrupting

Grd switches 40,000 amps momentary

LA 144 kv

Reserve SS transformer
161-13.8 12 kv, 3ø
36/48/60 mva 161 kv winding
24/32/40 mva 12 kv winding
18/24/30 mva 13.8 kv winding
OA/FA (FUT FOA)



500 KV EQUIPMENT RATINGS

All switches 3000 amps

All breakers 3000 amps
40k amps interrupting

LA 420 kv

Main trans 3-1ø, 22.5-500 KV
455 mva FOA 55°C rise
(1 spare to serve both banks

Excitation trans 1-3ø
10,000 KVA, 24 KV/720 V

Unit SS trans 24 (LTC ±10%)-13.8-7.2KV
45/60/75-22.5/30/37.5-30/40/50 KVA
OA/FA (FUT FOA)

Load break switches
31,500 amps

Generator
1332 mw
0.9pf, 24 kv

REFERENCE DRAWINGS:

DRAWING NO.	TITLE
2NW0502 (3 01	Main single line 161kv switchyard
2MW0504 (E 01	Main single line sh 1 500kv switchyard
2MW0504 (E 02	Main single line sh 2 Gen 2 and 500kv switchyard
2MW0504 (E 03	Main single line sh 3 Gen 1 and 500kv switchyard

PRC APERTURE CARD

Changed Murphy Hill Line to Miller

Added load tap changers to USS trans per ECN 107

Updated the rating of the USS and exciter trans per ECN 67. Changed Madison line and Gen 1 in bays 7&8 ECN 55. Changed rating of USS/RSS trans per ECN 17. Updated 500kv bus & minor changes per ECN 53

Changed drawing no. and added project title

REV NO.	ECN NO.	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	CSP	SUPV	RECM	APPR

DSGN T.S. Woodson
DRWN J.W. Turner
CHKD Sud
SUPV Sud

POWERHOUSE

WIRING DIAGRAMS
DEVELOPMENT SINGLE LINE

BELLEFONTE NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

SUBMITTED R.H. Herndon | RECOMMENDED M.N. [illegible] | APPROVED [illegible]

KNOXVILLE 11-15-72 | 88 | E | 2BW0500-00-01 R4

STATION NO. 6065

PSAR

ORIGINAL DRAWING NO. 75N500

RECORD DRAWING AS CONSTRUCTED

Docket # 50-438
8304050536
Control #
Date 3-25-83 of Document
REGULATORY DOCKET FILE

PRINTS REQD-A
BR
PROJ DWG SIZE
F H
ME
EE
CE
AD
CD
ED
MD
DF
SW
DL
PA