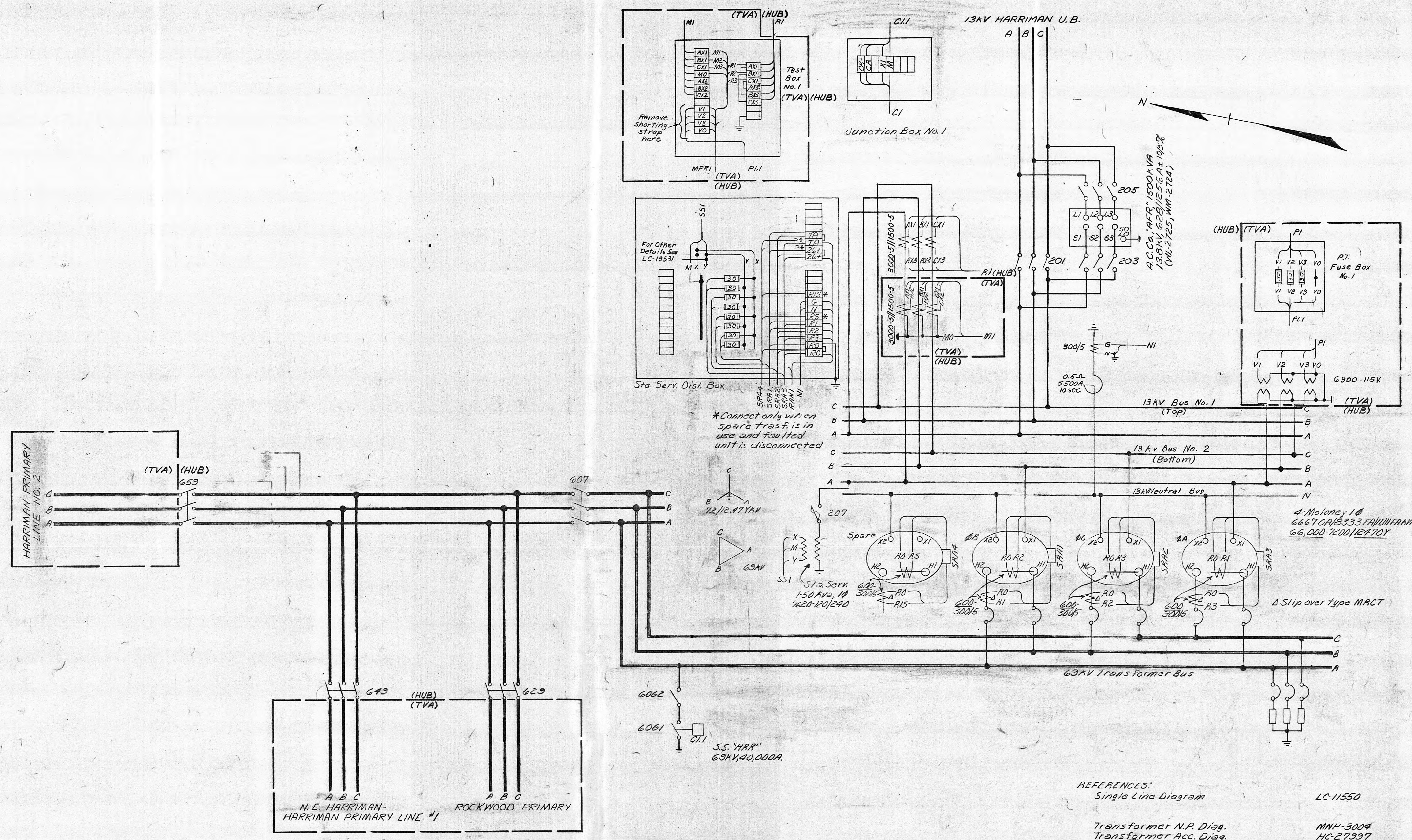
LC-28710


(TVA) (HUB)
M1
R1
AX1 M1
BX1 M2
CX1 M3
M0
AX2
BX2
CX2
R1
R2
R3
AX1
BX1
CX1
AX3
BX3
CX3
V1
V2
V3
V0
Remove shorting strap here
Test Box No. 1
(TVA) (HUB)
MPR1
P1.1
(TVA)
(HUB)
C1.1
CR-
CA
X1
M
C1
Junction Box No. 1
13KV HARRIMAN U.B.
A B C
N
SS1
For Other Details See LC-19531
M X Y
Y X
30
TA
TA
26+
26+
R1S *
G
N
RS *
R1
R2
R3
R0
R0
Sta. Serv. Dist. Box
SRA4
SRA1
SRA2
SRA3
RAN1
N1
*Connect only when spare trasf. is in use and faulted unit is disconnected
3000-5/1500-5
AX1 BX1 CX1
AX3 BX3 CX3
R1 (HUB)
(TVA)
3000-5/1500-5
AX1 AX2
BX1 BX2
CX1 CX2
M0
M1
(TVA)
(HUB)
205
L1 L2 L3
S1 S2 S3
S0 L0
201
203
A.C.Co. "AFR" 1500 KVA 13.8KV, 628/1256A ± 10 5/8% (WL-2725, WM-2724)
(HUB) (TVA)
P1
V1 V2 V3 V0
30 30 30
V1 V2 V3 V0
P.T. Fuse Box No. 1
P1.1
P1
V1 V2 V3 V0
6900-115V.
(TVA)
(HUB)
300/5
G
N
N1
0.5Ω 5500A. 10 sec.
13KV Bus No. 1 (Top)
C
B
A
13 kv Bus No. 2 (Bottom)
C
B
A
13kV Neutral Bus
N
HARRIMAN PRIMARY LINE NO. 2
(TVA) (HUB)
659
C
B
A
607
C
B
A
C
B A
7.2/12.47 YKV
C
A
B
69KV
207
X
M
Y
SS1
Sta. Serv. 1-50 Kva, 1Ø 7620-120/240
Spare
ØB
ØC
ØA
X2 X1
R0 RS
R0 R2
R0 R3
R0 R1
H2 H1
SRA4
SRA1
SRA2
SRA3
600-300/5
R0
R1S
R1
R2
R3
4-Moloney 1Ø 6667 OA/8333 FA/11111 FA KVA 66,000-7200/12470Y
Δ Slip over type MRCT
C
B
A
69KV Transformer Bus
6062
6061
C1.1
S.S. "HRR" 69KV, 40,000A.
649
(HUB)
(TVA)
629
A B C
N. E. HARRIMAN-HARRIMAN PRIMARY LINE #1
A B C
ROCKWOOD PRIMARY

REFERENCES:

Single Line Diagram	LC-11550
Transformer N.P. Diag.	MNH-3004
Transformer Acc. Diag.	HC-27997
Reactor N.P. Diag.	SNP-3005
Outdoor Cond. & Lighting Plan	LC-19531
Conduit & Cable List	CMC-8655
Conn. Diag. For 69KV Grd. Sw.	WS-3223

REVISION NOTES:

2. Retired OCB's 614, 624, 644, 654, and assoc. equipment, 69KV Bus P.T.'s, Old sw. 607; HARRIMAN 161KV Sub-MELTON HILL 69KV Line was MELTON HILL 69KV Line; HARRIMAN 161KV SUB. - 69KV Line was PETROS 69KV Line; New sw. 607 was Sw 609. 13KV Diff. C.T.'s were Y connected; Added 600-300/5 C.T.'s, grd. sw. 6061 and disconnect sw. 6062, Junction Box No. 1, cables C1, C1.1
3. Lease-purchase to Harriman U.B. except Rockwood Primary & Harriman Primary Nos. 1 & 2 69kV Lines, 13kV metering C.T.'s & V.T.'s, Test Box No. 1, P.T. Fuse Box No. 1, cables P1, P1.1, M1, MPR1.

REV. NO.	DATE	WORK ORDER	DSGN	DRWN	CHKD	SUPV.	SUBM
10	Lease-Purchase. See Revision Note 3.						
	2/10/84	A7830.01	DOA	DOA	EWT		
9	Fld. Chg.-Completion of W.O.						
	11-6-74	35982	RJS	RJS	JHT		
8	Added Volt. Reg. to Harriman U.B 13Kv Line						
	9-11-71	35644	DST	DST	LMS	DNR	
7	Field Change EEG-723, 3/2/67						
	1/27/71		HMS	HMS	SHJ	SHJ	
6	Redrawn. See Rev. Note 2						
	5-31-66	35262	JWL	LSH	DWA		

DSGN JWL
DRWN LSH
CHKD DWA
SUPV.
W.O. 35262
PROJ. ENGR.

This dwg. supersedes TEP Co. Dwg. No. 66256

STATION NO. 337

TENNESSEE VALLEY AUTHORITY
DIVISION OF POWER ENGINEERING AND CONSTRUCTION
HARRIMAN, TENN. DIST. SUBSTATION-69KV
THREE LINE DIAGRAM

DATE 5-31-66
SUBMITTED MCC/DBH
APPROVED Fred Chambers 6-13-66
SHEET 1 OF 1 SHEETS
SCALE N.T.S.
D303
LC-28710

R-10

MICROFILMED 9