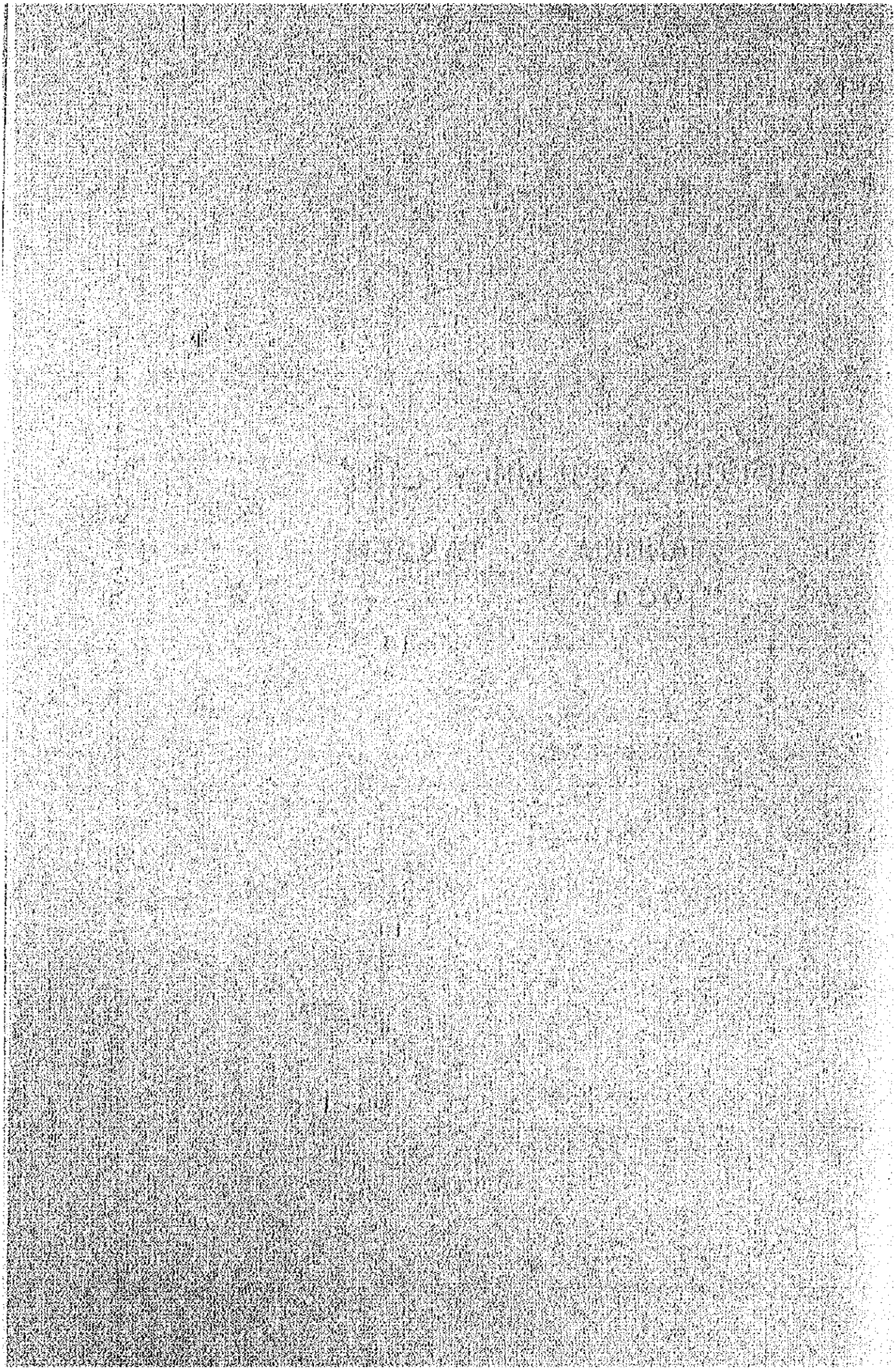
ANNEX B - 2

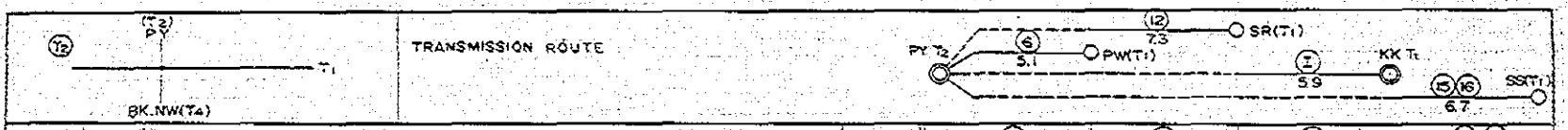
CIRCUIT ASSEMBLY LIST



SYMBOLS

⊙ ●	LOCAL OFFICE
◎	TANDEM OFFICE
●	BRANCH POINT
⑥ / 5.1	CABLE SECTION NUMBER / CABLE SECTION DISTANCE IN KM
KK, PY, PL, LS, TH, PN, SW	LOCAL TANDEM EXCHANGE
KK TOLL	TOLL EXCHANGE IN KK FOR STD SERVICE
PY TOLL	TOLL EXCHANGE IN PY FOR STD SERVICE
OTD	TOLL EXCHANGE IN KK FOR OTD SERVICE
KK MC, LS MC, TH MC, PN MC	MAINTENANCE CENTER
SW "13"	SPECIAL SERVICE EXCHANGE IN SW
□	0 dB CIRCUIT
⊙	2 dB CIRCUIT
●	4 dB CIRCUIT
△	6 dB CIRCUIT
×	11 dB CIRCUIT

IN LOSS TOTAL COLUMN, FIGURES IN PARENTHESIS SHOW GAINED LOSS BY NEGATIVE IMPEDANCE REPEATER.

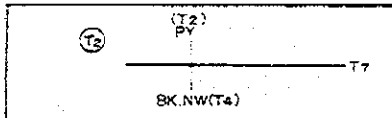


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	6 CABLE	6 PCM	12 CABLE	12 PCM	1 CABLE	1 PCM	15 16 CABLE	15 16 PCM
PY	5.4	PY 5L 5.4 KK	KK					△ 42			
PY	5.6	" 5L 5.6 "	KK					△ 30			
PY	9.0	" 5NL 9.0 "	KK					× 100			
PY	2.1	" 9L 2.1 "	KK					◦ 69			
PY	3.7	" 65L 3.7 "	KK TOLL					◦ 66			
PY TOLL	3.7	" 65L 3.7 "	KK					◦ 76			
PY	3.7	" 65L 3.7 "	OTD					• 12			
PY	5.7	" 9NL 3.4 SSb 9NL 2.3 SS	SS							△ 27	
PY	5.7	" 9NL 3.4 " 9NL 2.3 "	SS							× 62	
PY TOLL	2.3	" 9L 1.4 " 9L 0.9 "	SS							◦ 38	
PY	5.3	" 9L 1.4 " 9L 0.9 " 65NL 3.0 BP	BP	PY		PW		SR		KK △ 23	SS
PY	9.5	" 9NL 3.4 " 9NL 2.3 " 5NL 3.6 "	BP							× 48	
PY	4.7	" 5L 4.7 PW	PW		△ 44						
PY	7.8	" 5NL 7.8 "	PW		× 120						
PY TOLL	4.7(3.9)	" 5L 4.7 "	PW		◦ 85						
PY	4.4	" 65L 4.4 SR	SR				△ 94				
PY	11.0	" 5NL 11.0 "	SR				× 248				
PY TOLL	4.4(3.7)	" 65L 4.4 "	SR				◦ 256				
IM	5.5	IM 65L 2.0 PY 65L 3.5 KK	KK					△ 39			
IM	9.4	" 65NL 4.0 " 5L 5.4 "	KK					× 36			
IM	3.9	" 65L 2.0 " 9L 1.9 "	KK TOLL	PY		PW		◦ 33		KK	SS
IM	3.9	" 65L 2.0 " 9L 1.9 "	OTD					◦ 6			
IM	10.7	" 5NL 5.0 " 9NL 5.7 SS	SS							× 17	
IM	10.0	" 65L 2.2 " 5NL 7.8 PW	PW		× 36						
LP1	5.2	LP1 65L 1.2 LPb 65L 2.1 PY 9L 1.9 KK	KK					△ 16			
LP1	8.5	" 65L 1.2 " 65L 2 " 5L 5.2 "	KK					× 30			
LP1	3.7	" 9L 0.7 " 9L 1.1 " 9L 1.9 "	OTD					◦ 6			
LP1	5.4	" 65L 1.2 " 65L 2.1 " 9L 2.1 SS	SS	PY		PW		SR		KK × 8	SS
LP1	9.6	" 65L 1.2 " 65L 2.1 9L 2.1 " 65NL 3.0 BP	BP							× 14	
LP1	7.8	" 65L 1.2 " 65L 2.1 " 5L 4.5 PW	PW		× 38						
LP1	7.5	" 65L 1.2 " 65L 2.1 " 65L 4.2 SR	SR				× 60				
LP2	5.2	LP2 9L 1.7 LP1 9L 0.5 LPb 9L 1.1 PY 9L 1.9 KK	KK					△ 17			
LP2	8.3	" 9L 1.7 " 65L 1.0 " 65L 2.1 " 65L 3.5 "	KK					× 32			
LP2	5.2(3.9)	" 9L 1.7 " 9L 0.5 " 9L 1.1 " 9L 1.9 "	OTD					◦ 6			
LP2	6.9	" 9L 1.7 " 65L 1.0 " 65L 2.1 " 9L 2.1 SS	SS	PY		PW		SR		KK × 13	SS
LP2	9.9	" 9L 1.7 " 65L 1.0 " 65L 2.1 " 9L 2.1 " 65NL 3.0 BP	BP							× 13	
LP2	7.8	" 9L 1.7 " 9L 0.5 " 9L 1.1 " 5L 4.5 PW	PW		× 36						
LP2	9.0	" 9L 1.7 " 65L 1.0 " 65L 2.1 " 65L 4.2 SR	SR				× 64				

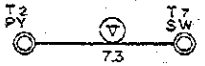
NO.

TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	6 CABLE	6 PCM	12 CABLE	12 PCM	1 CABLE	1 PCM	15 16 CABLE	15 16 PCM
SS	4.6	BS 9L 1.0 SSb 9L 0.8 SS 5L 2.8 KK	KK							△ 15	
BS	9.3	" 9NL 2.4 " 9NL 2.3 " 5NL 4.6 "	KK							x 52	
SS	3.7	" 9L 1.0 " 9L 0.8 " 65L 1.9 "	OTD							- 7	
BS	4.7	" 9NL 2.4 " 9NL 2.3 "	SS	PY						x 37	SS
BS	8.5	" 9NL 2.4 " 9NL 2.3 " 5NL 3.8 BP	BP							x 28	
BS	10.1	" 9L 1.0 " 9L 1.0 " 5NL 4.6 KK 5NL 3.5 PW	PW							x 42	
BS	9.9	" 9L 1.0 " 9L 1.0 " 5NL 4.6 " 5NL 3.3 SR	SR							x 80	
NN	5.3	NN 9L 1.8 BS 9L 0.8 SSb 9L 0.8 SS 65L 1.9 KK	KK							△ 44	
NN	4.5(3.8)	" 9L 1.8 " 9L 0.8 " 9L 0.8 " 9L 1.1 "	OTD	PY						- 5	SS
BK	5.9	BK 9L 0.4 NWb 9L 2.0 PY 65L 3.5 KK	KK						△ 8		
BK	4.3(3.7)	" 9L 0.4 " 9L 2.0 " 9L 1.9 "	OTD						- 6		
BK	7.8	" 65L 0.5 " 65L 3.9 " 65L 3.5 "	KK						x 46		
BK	6.4	" 65L 0.5 " 65L 3.8 " 9L 2.1 SS	SS	PY		PW		SR		KK x 25	SS
BK	7.8	" 65L 0.5 " 65L 3.8 " 9L 1.9 " 65L 1.6 BP	BP							x 15	
BK	8.8	" 65L 0.5 " 65L 3.8 " 5L 4.5 PW	PW		x 34						
BK	8.8	" 9L 0.4 " 9L 2.0 " 5L 6.4 SR	SR				x 64				
NW	5.7	NW 9L 1.9 NWb 9L 2.0 PY 9L 1.9 KK	KK						△ 61		
NW	5.7(3.9)	" 9L 1.8 " 9L 2.0 " 9L 1.9 "	OTD						- 11		
NW	7.8	" 9L 1.8 BK 65L 4.1 " 9L 1.9 "	KK						x 40		
NW	7.2	" 9NL 3.6 NN 9L 1.8 BS 9L 0.8 SSb 9L 1.0 SS	SS	PY		PW				KK x 42	SS
NW	7.8	" 9L 1.4 " 9L 1.6 " 9L 0.8 " 9L 1.0 " 65NL 3.0 BP	BP							x 14	
NW	8.5	" 9L 1.8 BK 9L 2.2 PY 5L 4.5 PW	PW		x 28						
NW	8.2	" 9L 1.8 " 9L 2.2 " 65L 4.2 SR	SR				x 68				
			TOTAL		- 85		-256		- 69		- 50
					△ 44		△ 86		△ 223		△ 109
					x 292		x 504		x 286		x 510
			GRAND TOTAL		421		844		800		669

NO. 2

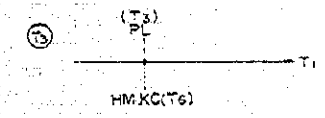


TRANSMISSION ROUTE

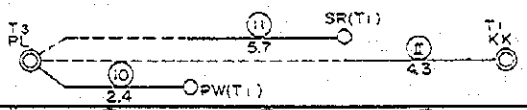


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	CABLE	PCM	CABLE	PCM	CABLE	PCM	CABLE	PCM
PY	4.4	PY 65L 4.4 SW	SW		△ 67						
PY	4.4	" 65L 4.4 "	SW		△ 36						
PY	2.0	" PCM 2.0 "	SW				○ 95				
PY	8.8	" 65NL 8.8 "	SW		× 150						
PY TOLL	2.5	" 9L 2.5 "	SW		○ 232						
PY	4.4	" 65L 4.4 "	SW "13"		△ 39						
PY	6.5(4.9)	" 65L 4.2 " 5L 2.7 MM 9L 1.6 SP	SP	PY	△ 23	SW					
PY TOLL	6.6(4.2)	" 9L 2.3 " 5L 2.7 " 9L 1.6 "	SP		○ 24						
PY	8.4(4.8)	" 65L 4.2 " 5L 2.3 TKb 5L 1.9 TC	TC		△ 46						
PY	8.4	" 65L 4.2 " 5L 2.3 " 5L 1.9 "	TC		× 12						
PY TOLL	6.5(4.2)	" 9L 2.3 " 5L 2.3 " 5L 1.9 "	TC		○ 62						
PY	5.9	" 65L 4.2 " 9L 0.8 " 9L 0.9 TK	TK		△ 21						
PY TOLL	4.0	" 9L 2.3 " 9L 0.8 " 9L 0.9 "	TK		○ 24						
IM	4.3	IM 65L 2.0 PY 9L 2.3 SW	SW		△ 36						
IM	9.4	" 5NL 5.0 " 65L 4.4 "	SW	PY	× 18	SW					
LP1	5.6	LP1 65L 1.2 LPb 65L 2.1 PY 9L 2.3 SW	SW		△ 27						
LP1	7.5	" 65L 1.2 " 65L 2.1 " 65L 4.2 "	SW	PY	× 48	SW					
LP2	5.6	LP2 9L 1.7 LP1 9L 0.5 LPb 9L 1.1 PY 9L 2.3 SW	SW		△ 30						
LP2	9.0	" 9L 1.7 " 65L 1.0 " 65L 2.1 " 65L 4.2 "	SW		× 45						
LP2	9.9	" 9L 1.7 " 9L 0.5 " 9L 1.3 " PCM 2.0 " 5L 2.5 TKb 5L 1.9 TC	TC	PY		× 6	SW				
BS	5.5	BS 9L 1.0 SSb 65L 2.2 PY 9L 2.3 SW	SW		△ 27						
BS	7.4	" 9L 1.0 " 65L 2.2 " 65L 4.2 "	SW		× 60						
BS	8.5	" 9L 1.0 " 9L 1.2 " 9L 2.1 " 5L 2.3 TKb 5L 1.9 TC	TC	PY	× 12	SW					
NN	6.1	NN 9L 1.8 BS 9L 0.8 SSb 9L 1.2 PY 9L 2.3 SW	SW	PY	△ 21	SW					
BK	4.7	BK 9L 0.4 NWb 9L 2.0 PY 9L 2.3 SW	SW		△ 33						
BK	8.5	" 65L 0.5 " 65L 3.8 " 65L 4.2 "	SW	PY	× 74	SW					
NW	6.1	NW 9L 1.8 NWb 9L 2.0 PY 9L 2.3 SW	SW		△ 58						
NW	8.0	" 9L 1.8 " 9L 2.0 " 65L 4.2 "	SW	PY	× 64	SW					
			TOTAL			○ 95					
					△ 342						
					△ 463						
					× 483	× 6					
			GRAND TOTAL		1288	101					

NO. 3

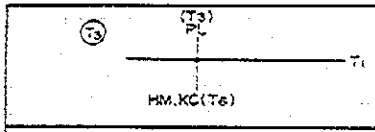


TRANSMISSION ROUTE

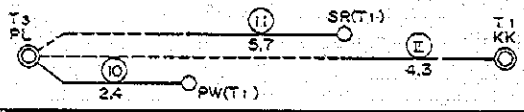


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	10 CABLE	10 PCM	11 CABLE	11 PCM	12 CABLE	12 PCM	CABLE	PCM
PL	4.1	PL 5L 4.1 KK	KK					△ 46			
PL	4.1	〃 5L 4.1 〃	KK					△ 30			
PL	1.6	〃 9L 1.6 〃	KK					○ 78			
PL	6.5	〃 5NL 6.5 〃	KK					× 210			
PL	4.1	〃 5L 4.1 〃	KK TOLL					○ 147			
PL	4.1	〃 5L 4.1 〃	OTD					○ 25	KK		
PL	4.1	〃 5L 4.1 〃	KK MC	PL		PW		SR △ 14			
PL	5.8	〃 5L 3.9 〃 65L 1.9 SS	SS					△ 27			
PL	9.5	〃 5NL 6.5 〃 5L 3.0 〃	SS					× 59			
PL	5.9	〃 65L 2.6 〃 (SSL 1.7) 〃 65L 1.6 BP	BP					△ 16			
PL	10.5	〃 5L 3.9 〃 5L 2.8 〃 5NL 3.8 〃	BP					× 72			
PL	3.7	〃 5NL 3.7 PW	PW	△ 46							
PL	3.7	〃 5NL 3.7 〃	PW	× 337							
PL	5.3	〃 5L 5.3 SR	SR			△ 60					
PL	8.7	〃 5NL 8.7 〃	SR			× 396					
ASD	5.4	ASD 5L 4.0 PL 9L 1.4 KK	KK					△ 20			
ASD	10.7	〃 5L 4.2 〃 5NL 6.5 〃	KK					× 62			
ASD	54(39)	〃 5L 4.0 〃 9L 1.4 〃	KK TOLL					○ 54			
ASD	54(39)	〃 5L 4.0 〃 9L 1.4 〃	OTD					△ 11			
ASD	8.3	〃 5L 4.0 〃 65L 2.4 〃 65L 1.9 SS	SS	PL		PW		SR × 17	KK		
ASD	8.5	〃 5L 4.0 〃 9L 1.2 〃 65L 1.7 〃 65L 1.6 BP	BP					× 18			
ASD	10.4	〃 5NL 6.7 〃 5NL 3.7 PW	PW	× 99							
ASD	7.3	〃 5L 4.0 〃 65L 3.3 SR	SR			× 152					
SV	5.5	SV 5L 2.9 PL 65L 2.6 KK	KK					△ 10			
SV	9.6	〃 5L 3.1 〃 5NL 6.5 〃	KK					× 46			
SV	3.4	〃 65L 2.0 〃 9L 1.4 〃	KK TOLL					○ 35	KK		
SV	3.4	〃 65L 2.0 〃 9L 1.4 〃	OTD					○ 7			
SV	8.5	〃 65L 2.0 〃 5L 3.7 〃 5L 2.8 SS	SS	PL		PW		SR × 16			
SV	10.6	〃 65L 2.0 〃 5L 3.7 〃 65L 1.9 〃 65NL 3.0 BP	BP					× 13			
SV	8.6	〃 5NL 4.9 〃 5NL 3.7 PW	PW	× 60							
SV	10.2	〃 5NL 4.9 〃 5L 5.3 SR	SR			× 76					
MM	5.3	MM 65L 2.3 MM 65L 0.4 PL 65L 2.6 KK	KK					△ 7			
MM	10.8	〃 65NL 4.7 〃 65NL 0.9 〃 65NL 5.2 〃	KK					× 34			
MM	2.9	〃 9L 1.3 〃 9L 0.2 〃 9L 1.4 〃	KK TOLL					○ 33	KK		
MM	2.9	〃 9L 1.3 〃 9L 0.2 〃 9L 1.4 〃	OTD					○ 6			
MM	10.0	〃 65L 2.3 〃 65L 0.4 〃 65L 2.4 〃 65L 1.9 SS 65NL 3.0 BP	BP	PL		PW		SR × 16			
MM	9.3	〃 65NL 4.7 〃 65NL 0.9 〃 5NL 3.7 PW	PW	× 63							
MM	7.8	〃 65L 2.3 〃 65L 0.4 〃 5L 5.1 SR	SR			× 108					

NO. 4

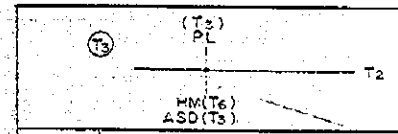


TRANSMISSION ROUTE

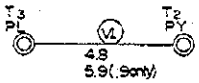


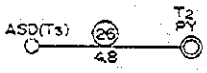
TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	(10) CABLE	(10) PCM	(11) CABLE	(11) PCM	(II) CABLE	(II) PCM	○ CABLE	○ PCM
KT	5.2	KT 9L 1.3 HM 6S 2.1 HM 6SL 0.4 PL 9L 1.4 KK	KK					△ 21			
KT	8.7	〃 6SL 2.3 〃 6SL 2.1 〃 6SL 0.4 〃 5L 3.9 〃	KK					× 34		KK	
KT	4.0	〃 9L 1.3 〃 9L 1.1 〃 9L 0.2 〃 9L 1.4 〃	KK TOLL					▪ 33			
KT	4.0	〃 9L 1.3 〃 9L 1.1 〃 9L 0.2 〃 9L 1.4 〃	OTD					▪ 6			
KT	8.3	〃 9L 1.3 〃 6SL 2.1 〃 6SL 0.4 〃 9L 1.2 〃 6SL 1.7 SS 6SL 1.6 BP	BP	PL		PW		SR × 18			
KT	8.7	〃 6SL 2.3 〃 6SL 2.1 〃 6SL 0.6 〃 5NL 3.7 PW	PW		× 60						
KT	10.7	〃 6SNL 4.7 〃 6SL 2.3 〃 6SL 0.4 〃 6SL 3.3 SR	SR				× 92				
HM	5.1	HM 9L 2.5 PL 6SL 2.6 KK	KK					△ 18			
HM	8.6	〃 6SL 4.7 〃 5L 3.9 〃	KK					× 42		KK	
HM	3.9	〃 9L 2.5 〃 9L 1.4 〃	OTD					▪ 7			
HM	9.0	〃 6SL 4.7 〃 6SL 2.4 〃 6SL 1.9 SS	SS	PL		PW		SR × 16			
HM	9.8	〃 9L 2.5 〃 6SL 2.4 〃 6SL 1.9 〃 6SNL 3.0 BP	BP					× 14			
HM	8.6	〃 6SL 4.9 〃 5NL 3.7 PW	PW		× 44						
HM	8.0	〃 6SL 4.7 〃 6SL 3.3 SR	SR				× 80				
KC	5.8	KC 9L 2.1 HM 9L 2.3 PL 9L 1.4 KK	KK					△ 56			
KC	8.0	〃 9L 2.1 〃 6SL 4.5 〃 9L 1.4 〃	KK					× 34			
KC	5.8(4.0)	〃 9L 2.1 〃 9L 2.3 〃 9L 1.4 〃	OTD					▪ 11			
KC	8.7	〃 9L 2.1 〃 9L 2.3 〃 6SL 2.4 〃 6SL 1.9 SS	SS					× 18			
KC	8.9	〃 9L 2.1 〃 9L 2.3 〃 9L 1.2 〃 6SL 1.7 〃 6SL 1.6 BP	BP	PL		PW		SR × 12		KK	
KC	10.5	〃 9L 2.1 〃 6SL 4.7 〃 5NL 3.7 PW	PW		× 31						
KC	7.7	〃 9L 2.1 〃 9L 2.3 〃 6SL 3.3 SR	SR				× 56				
								▪ 78			
								▪ 375			
			TOTAL		△ 46		△ 60		△ 265		
					× 694		× 960		× 751		
			GRAND TOTAL		74.0		1.020		1.469		

NO. 5



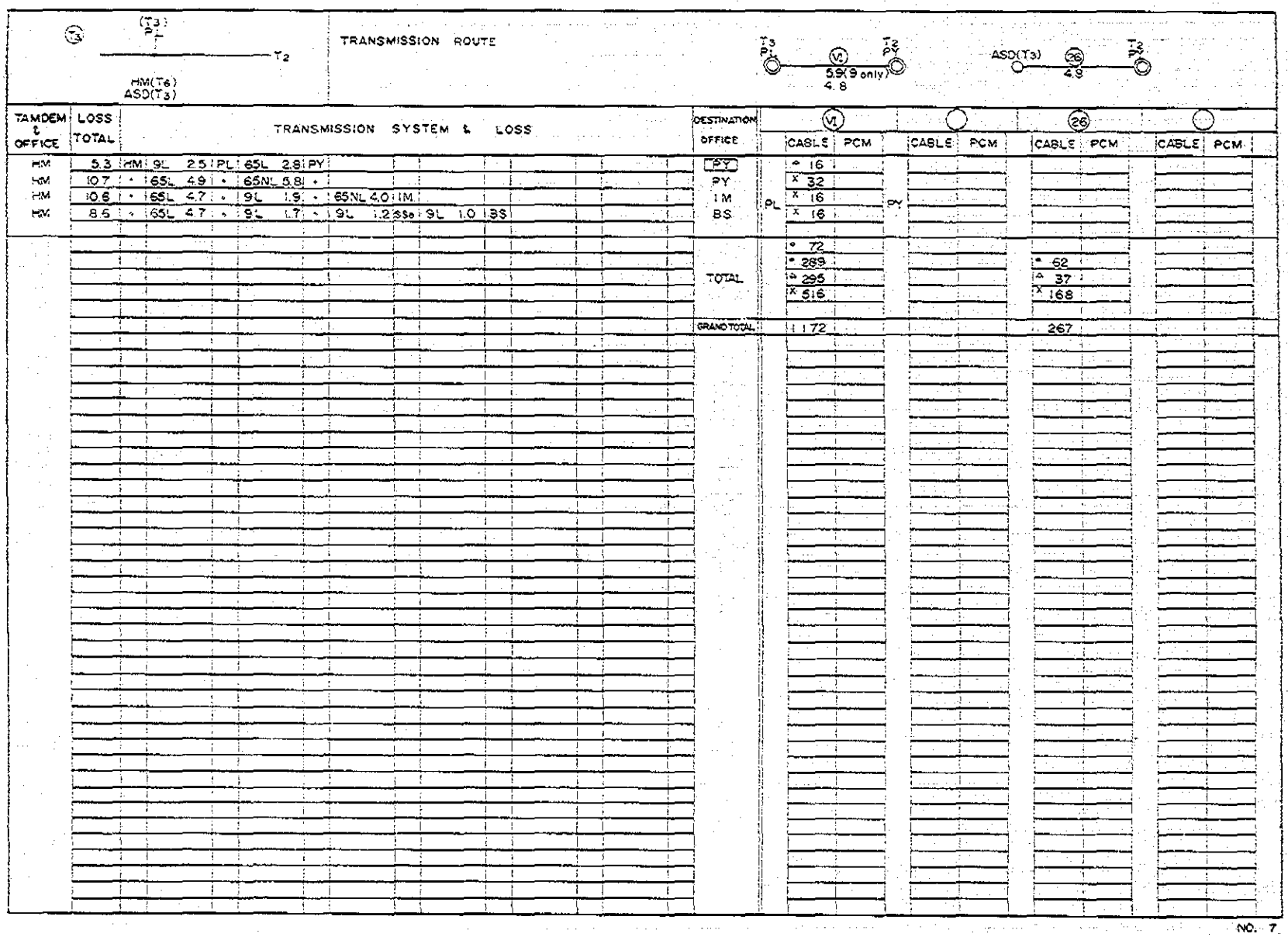
TRANSMISSION ROUTE

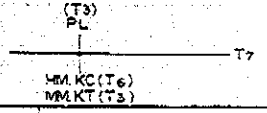




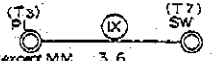
TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	V1 CABLE	V1 PCM		V1 CABLE	V1 PCM	26 CABLE	26 PCM		26 CABLE	26 PCM
PL	4.5	PL 5L(65L) 4.5 PY	PY	△ 28									
PL	4.5	" 2(65L) 4.5 "	PY	△ 74									
PL	2.1	" 9L 2.1 "	PY	• 72									
PL	7.3	" 5NL(65NL) 7.3 "	PY	× 108									
PL	3.0	" 65L 3.0 "	PY TOLL	• 172									
PL	4.8	" 65L 2.8 " 65L 2.0 IM	IM	△ 18	PL	PY							
PL	9.5	" 3(65L) 4.5 " 5NL 5.0 "	IM	× 28									
PL	6.0	" 65L 2.8 " 65L 2.2 SSb 9L 1.0 BS	BS	△ 26									
PL	7.5	" 3(65L) 4.3 " 65L 2.2 " 9L 1.0 "	BS	× 30									
PL	5.7	" 9L 1.9 " 9L 1.2 " 9L 0.8 " 9L 1.8 NN	NN	△ 25									
PL	5.2	" 9L 1.9 " 65L 2.1 LPb 65L 1.2 LP1	LP1	△ 22									
PL	7.6	" 3(65L) 4.3 " 65L 2.1 " 65L 1.2 "	LP1	× 30									
PL	5.2	" 9L 1.9 " 9L 1.1 " 9L 0.5 " 9L 1.7 LP2	LP2	△ 25									
PL	10.6	" 65L 2.8 " 65L 2.1 " 65L 1.2 " 9NL 4.5 "	LP2	× 42									
ASD	5.8	ASD 65NL 5.8 PY	PY						△ 37				
ASD	5.8	" 65NL 5.8 "	PY						× 82				
ASD	3.0	" 65L 3.0 "	PY TOLL						• 62				
ASD	10.8	" 65NL 5.8 " 5NL 5.0 IM	IM						× 37	ASD	PY		
ASD	9.2	" 65NL 5.8 " 65L 2.4 SSb 9L 1.0 BS	BS						× 18				
ASD	9.3	" 65NL 5.8 " 65L 2.3 LPb 65L 1.2 LP1	LP1						× 16				
ASD	10.8	" 65NL 5.8 " 65L 2.3 " 65L 1.0 " 9L 1.7 LP2	LP2						× 15				
SV	5.7	SV 5L 2.9 PL 65L 3.8 PY	PY	△ 14									
SV	6.3	" 65L 2.0 " 3(65L) 4.3 "	PY	× 34									
SV	3.9	" 65L 2.0 " 9L 1.9 "	PY TOLL	• 41									
SV	9.8	" 65L 2.0 " 65L 2.8 " 5NL 5.0 IM	IM	× 15									
SV	7.8	" 65L 2.0 " 65L 2.6 " 65L 2.2 SSb 9L 1.0 BS	BS	× 14	PL	PY							
SV	7.9	" 65L 2.0 " 65L 2.6 " 65L 2.1 LPb 65L 1.2 LP1	LP1	× 13									
SV	7.9	" 65L 2.0 " 65L 2.6 " 9L 1.1 " 9L 0.5 " 9L 1.7 LP2	LP2	× 16									
MM	5.5	MM 65L 2.3 MMb 65L 0.4 PL 65L 2.8 PY	PY	△ 17									
MM	10.1	" 65NL 4.7 " 65NL 0.9 " 3(65L) 4.5 "	PY	× 26									
MM	3.4	" 9L 1.3 " 9L 0.2 " 9L 1.9 "	PY TOLL	• 38	PL	PY							
MM	8.5	" 65L 2.3 " 65L 0.4 " 65L 2.6 " 65L 2.2 SSb 9L 1.0 BS	BS	× 6									
MM	8.6	" 65L 2.3 " 65L 0.4 " 65L 2.6 " 65L 2.1 LPb 65L 1.2 LP1	LP1	× 12									
MM	8.6	" 65L 2.3 " 65L 0.4 " 65L 2.6 " 9L 1.1 " 9L 0.5 " 9L 1.7 LP2	LP2	× 13									
KT	5.5	KT 65L 2.3 MM 9L 1.3 PL 9L 1.9 PY	PY	△ 30									
KT	10.2	" 65NL 4.7 " 65L 2.7 " 65L 2.8 "	PY	× 14									
KT	4.5(3.8)	" 9L 1.3 " 9L 1.3 " 9L 1.9 "	PY TOLL	• 38									
KT	10.8	" 65NL 4.7 " 9L 1.5 " 65L 2.6 " 65L 2.0 IM	IM	× 6	PL	PY							
KT	11.0	" 65NL 4.7 " 9L 1.5 " 65L 2.6 " 9L 1.2 SSb 9L 1.0 BS	BS	× 13									
KT	10.9	" 65NL 4.7 " 9L 1.5 " 9L 1.4 " 65L 2.1 LPb 65L 1.2 LP1	LP1	× 14									
KT	10.9	" 65NL 4.7 " 9L 1.5 " 9L 1.4 " 9L 1.1 " 9L 0.5 " 9L 1.7 LP2	LP2	× 16									

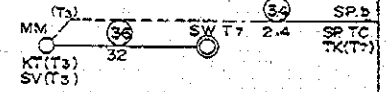
NO. 6


(T3)
PL
T2
HM(T6)
ASD(T3)
TRANSMISSION ROUTE
T3 PL
(V1)
T2 PY
5.9(9 only)
4.8
ASD(T3)
(26)
4.9
T2 PY
TANDEM & OFFICE
LOSS TOTAL
TRANSMISSION SYSTEM & LOSS
DESTINATION OFFICE
(V1)
CABLE
PCM
(26)
HM 5.3 HM 9L 2.5 PL 65L 2.8 PY
HM 10.7 " 65L 4.9 " 65NL 5.8 "
HM 10.6 " 65L 4.7 " 9L 1.9 " 65NL 4.0 IM
HM 8.5 " 65L 4.7 " 9L 1.7 " 9L 1.2 BSo 9L 1.0 BS
PY
PY
IM
BS
PL
PY
° 16
X 32
X 16
X 16
TOTAL
° 72
• 289
▲ 295
X 516
° 62
▲ 37
X 168
GRAND TOTAL
172
267
NO. 7



TRANSMISSION ROUTE



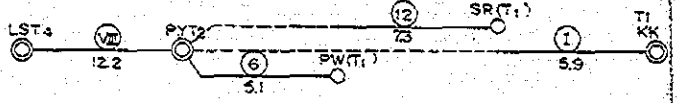


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	IX CABLE	IX PCM		○ CABLE	○ PCM	36 CABLE	36 PCM	34 CABLE	34 PCM	
PL	5.5	PL 5NL 5.5 SW	SW		△ 64								
PL	5.5	" 5NL 5.5 "	SW		△ 68								
PL	1.4	" 9L 1.4 "	SW		○ 67								
PL	5.5	" 5NL 5.5 "	SW		X 464								
PL	5.5	" 5NL 5.5 "	SW "13"		△ 42								
PL	5.5	" 9L 1.2 " 5L 2.7 MM 9L 1.6 SP	SP	PL	△ 21								
PL	5.4	" 9L 1.2 " 5L 2.3 TKD 5L 1.9 TC	TC		△ 33		SW						
PL	9.9	" 5NL 5.5 " 5L 2.5 " 5L 1.9 "	TC		X 82								
PL	5.0	" 5L 3.3 " 9L 0.8 " 9L 0.9 TK	TK		△ 21								
ASD	5.2	ASD 5L 4.0 PL 9L 1.2 SW	SW		△ 37								
ASD	9.7	" 5L 4.2 " 5NL 5.5 "	SW	PL	X 115		SW						
SV	4.2	SV 65L 2.0 PL 65L 2.2 SW	SW		△ 19								
SV	10.4	" 5NL 4.9 " 5NL 5.5 "	SW		X 84								
SV	10.2	" 6SNL 65L 3.0 MM 6SNL 65L 4.7 MM 9NL 5L 2.1 SP 9NL 5L 0.4 TC	TC	PL			SW		MM		X 13		SPb
MM	4.9	MM 5NL 1.7 SPb 5NL 3.2 SW	SW		△ 13								
MM	4.9	" 5NL 1.7 " 5NL 3.2 "	SW		X 138								
MM	4.4	" 9NL 2. SPb 9NL 2.3 SP	SP						MM		X 16		
MM	2.5	" 9NL 5L 2.1 " 9NL 5L 0.4 TC	TC				SW			SW	X 53		SPb
MM	9.8	" 5NL 4.9 SW 5L 4.9 TK	TK						X 13				
KT	5.2	KT 65L 2.3 MM 5L 2.9 SW	SW		△ 22								
KT	9.6	" 65NL 4.7 " 5NL 4.9 "	SW		X 131								
KT	9.	" 65NL 4.7 " 9NL 2.0 SPb 9NL 2.4 SP	SP						MM		X 15		SPb
KT	7.2	" 65NL 4.7 " 9NL 5L 2.0 " 9NL 5L 0.5 TC	TC							SW	X 49		
KT	9.7	" 65L 2.3 " 5L 2.9 SW 9NL 4.5 TK	TK						X 6				
HM	4.7	HM 9L 2.5 PL 65L 2.2 SW	SW		△ 30								
HM	10.4	" 65L 4.9 " 5NL 5.5 "	SW	PL	X 63								
HM	8.7	" 9L 2.5 " 65L 2.0 " 5L 2.3 TKD 5L 1.9 TC	TC		X 13		SW						
KC	5.6	KC 9L 2.1 HM 9L 2.3 PL 9L 1.2 SW	SW		△ 50								
KC	8.8	" 9L 2.1 " 65L 4.5 " 65L 2.2 "	SW	PL	X 54		SW						
			TOTAL		○ 67								
					△ 385				△ 35				
					X 876				X 288		X 146		
			GRAND TOTAL		1 328				323		146		

NO. 8

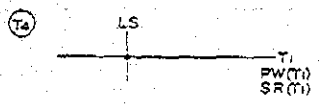
(T4) LS — TI (except BSN) — PW(T1) SR(T1)

TRANSMISSION ROUTE

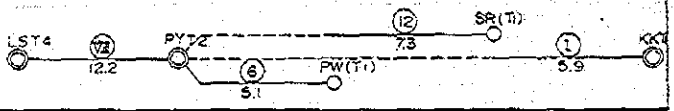


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	VII CABLE	VII PCM	6 CABLE	6 PCM	12 CABLE	12 PCM	I CABLE	I PCM
LS	2.0	LS PCM 2.0 PY PCM- KK	KK		°117						°117
LS	2.0	" PCM 2.0 " PCM- "	KK		△42						△42
LS	2.0	" PCM 2.0 " PCM- "	KK		△46						△46
LS	0	" PCM 0 " PCM- "	KK TO I		°193						°193
LS	2.0	" PCM 2.0 " PCM- "	QTD		• 5						• 5
LS MC	2.0	" PCM 2.0 " PCM- "	KK MC		• 14						• 14
LS	5.6	" PCM 2.0 " PCM- " 65NL 3.6 SS	SS	LS	△20	PY		PW		SR	△20 KK
LS	5.5	" PCM 2.0 " PCM- " 65L 1.9 " 65L 1.6 BP	BP		△23						△23
LS	5.3	" PCM 2.0 " PCM- " 5NL 3.3 SR	SR		△88						△88
LS	5.5	" PCM 2.0 " PCM- " 5NL 3.5 PW	PW		△55						△55
LS	8.2	" 9L 3.7 " 5L 4.5 PW	PW	x 6		x 6					
DM	4.1	DM PCM 2.0 LS PCM- PY 9L 2.1 KK	KK		△28					△28	
DM	4.1	" PCM 2.0 " PCM- " 9L 2.1 "	KK		x 34					x 34	
DM	4.1	" PCM 2.0 " PCM- " 9L 2.1 "	QTD	LS	• 5	PY				• 5	KK
DM	5.8	" PCM 2.0 " PCM- " 9L 1.9 " 65L 1.9 SS	SS		x 23					x 23	
DM	6.0	" PCM 2.0 " PCM- " 9L 1.9 " 5L 2.1 SR	SR		x 56					x 56	
RS	4.1	RS PCM 2.0 LS PCM- PY 9L 2.1 KK	KK		△12					△12	
RS	4.1	" PCM 2.0 " PCM- " 9L 2.1 -	QTD	LS	• 3	PY				• 3	KK
NWN	4.1	NWN PCM 2.0 LS PCM- PY 9L 2.1 KK	KK		△18					△18	
NWN	4.1	" PCM 2.0 " PCM- " 9L 2.1 "	QTD	LS	• 3	PY				• 3	KK
RID	5.1	RID 9L 3.1 LS PCM-2.0 PY PCM- KK	KK		△25						△25
RID	5.1	" 9L 3.1 " PCM-2.0 " PCM- "	KK		x 30						x 30
RID	5.1(3.9)	" 9L 3.1 " PCM-2.0 " PCM- "	QTD		• 6						• 6
RID	9.1	" 9L 3.1 " PCM-2.0 " PCM- " 5L 3.0 SS	SS	LS	x 12	PY					x 12 KK
RID	8.6	" 9L 3.1 " PCM 2.0 " PCM- " 65L 1.9 " 65L 1.6 BP	BP		x 13						x 13
RID	8.4	" 9L 3.1 " PCM-2.0 " PCM- " 5NL 3.3 SR	SR		x 52						x 52
NC	2.0	NC PCM 2.0 LS PCM- PY PCM- KK	KK		△8						△8
NC	2.0	" PCM 2.0 " PCM- " "	QTD	LS	• 2	PY					• 2 KK
			SUB TOTAL		°193						°193
					°117						°117
					• 38					• 11	• 27
					△365					△58	△307
				x 6	x 220	x 6				x 113	x 107

NO. 9



TRANSMISSION ROUTE

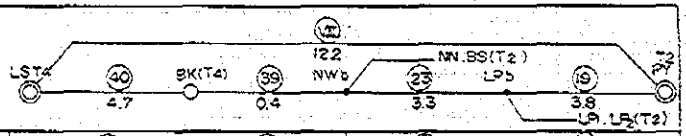


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	VIII CABLE	VIII PCM	6 CABLE	6 PCM	12 CABLE	12 PCM	I CABLE	I PCM
CW	6.0	CW 5L 4.0 LS PCM 2.0 PY PCM- KK	KK		△28						△28
CW	(2.0)	" 5L 4.0 " PCM 2.0 " PCM- "	OTD	LS	• 5	PY					• 5 KK
PK	5.5	PK 9L 3.5 LS PCM 2.0 PY PCM- KK	KK		△14						△14
PK	(3.5)	" 9L 3.5 " PCM 2.0 " PCM- "	OTD	LS	• 3	PY					• 3 KK
PT	4.1	PT PCM 2.0 LS PCM- PY 9L 2.1 KK	KK		△16					△16	
PT	4.1	" PCM 2.0 " PCM- " 9L 2.1 "	OTD	LS	• 3	PY				• 3	KK
BT	2.0	BT PCM 2.0 LS PCM- PY PCM- KK	OTD	LS	• 2	PY					• 2 KK
TY	2.0	TY PCM 2.0 LS PCM- PY PCM- KK	KK		△7						△7
TY	2.0	" PCM 2.0 " PCM- " PCM- "	OTD	LS	~ 2	PY					• 2 KK
			SUB TOTAL		• 15					• 3	• 12
					△65					△16	49
			TOTAL		• 193						• 193
					• 117						• 117
					• 53					• 14	• 39
					△430					△74	△356
				X 6	X 220	X 6				X 113	X 107
			GRAND TOTAL	6	1013	6				20	812

NO. 10

(74) LS —— T2 8S.NN(T2)

TRANSMISSION ROUTE

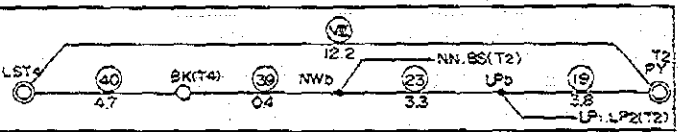


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	(40) CABLE	(40) PCM	(39) CABLE	(39) PCM	(23) CABLE	(23) PCM	(19) CABLE	(19) PCM
LS	2.0	LS PCM 2.0 BK PCM- NWb PCM- LPb PCM- PY	PY		° 93		° 93		° 93		° 93
LS	2.0	" PCM 2.0 " PCM- " PCM- " PCM- "	PY		△ 20		△ 20		△ 20		△ 20
LS	2.0	" PCM 2.0 " PCM- " PCM- " PCM- "	PY		△ 36		△ 36		△ 36		△ 36
LS	0	" PCM 0 " PCM- " PCM- " PCM- "	PY TO LS		°230		°230		°230		°230
LS MC	2.0	" PCM 2.0 " PCM- " PCM- " PCM- "	PY		△ 10		△ 10		△ 10		△ 10
LS	4.6	9L 1.6 " 9L 0.2 " 9L 1.4 NW 9L 1.4 NN	NN	△ 21		△ 21					
LS MC	4.6	" 9L 1.6 " 9L 0.2 " 9L 1.4 " 9L 1.4 "	NN	△ 4		△ 4					
LS TO LS	66(3.8)	" 9L 1.6 " 9L 0.2 " 9L 1.4 " 9L 1.4 "	NN	° 35		° 35					
LS	6.0	" 9L 1.6 " 9L 0.2 " 9L 0.9 LPb 9L 1.1 PY 9L 1.2 8S 9L 1.0 8S	8S	△ 21		△ 21		△ 21		△ 21	
LS	7.0	" 9L 1.6 " 9L 0.2 " 9L 0.9 " 9L 1.1 " 65L 2.2 " 9L 1.0 "	8S	LS × 7	BK	× 7	NWb	× 7	LPb	× 7	PY
LS TO LS	63(4.1)	" 9L 1.6 " 9L 0.2 " 9L 1.5 NW 9L 1.2 NN 9L 1.8 8S	8S	° 72		° 72					
LS MC	6.0	" 9L 1.6 " 9L 0.2 " 9L 0.9 LPb 9L 1.1 PY 9L 1.2 8S 9L 1.0 8S	8S	△ 5		△ 5		△ 5		△ 5	
LS	4.5	" 65L 2.8 " 9L 0.2 " 9L 0.9 " 9L 0.7 LP1	LP1	△ 22		△ 22		△ 22			
LS	7.7	" 65NL 5.7 " 9L 0.4 " 9L 0.9 " 9L 0.7 "	LP1	× 13		× 13		× 13			
LS MC	4.6	" 65L 2.8 " 9L 0.2 " 9L 0.9 " 9L 0.7 "	LP1	△ 5		△ 5		△ 5			
LS TO LS	3.4	" 9L 1.6 " 9L 0.2 " 9L 0.9 " 9L 0.7 "	LP1	° 53		° 53		° 53			
LS	4.9	" 9L 1.6 " 9L 0.2 " 9L 0.9 " 9L 0.5 " 9L 1.7 LP2	LP2	△ 26		△ 26		△ 26			
LS	9.1	" 65L 2.8 " 9L 0.2 " 9L 0.9 " 9L 0.7 " 9NL 4.5 "	LP2	× 7		× 7		× 7			
LS MC	4.9	" 9L 1.5 " 9L 0.2 " 9L 0.9 " 9L 0.5 " 9L 1.7 "	LP2	△ 5		△ 5		△ 5			
LS TO LS	49(4.0)	" 9L 1.6 " 9L 0.2 " 9L 0.9 " 9L 0.5 " 9L 1.7 LP2	LP2	° 54		° 54		° 54			
LS	5.8	" 9L 1.6 " 9L 0.2 " 9L 0.9 " 9L 1.1 PY 65L 2.0 IM	IM	△ 17		△ 17		△ 17		△ 17	
LS MC	5.8	" 9L 1.6 " 9L 0.2 " 9L 0.9 " 9L 1.1 " 65L 2.0 "	IM	△ 5		△ 5		△ 5		△ 5	
DM	2.0	DM PCM 2.0 LS PCM- BK PCM- NWb PCM- LPb PCM- PY	PY		° 27		° 27		° 27		° 27
DM	2.0	" PCM 2.0 " PCM- " PCM- " PCM- "	PY		× 56		× 56		× 56		× 56
DM	5.4	" PCM 2.0 " PCM- " PCM- " PCM- " 8SL 3.4 8S	8S		× 24		× 24		× 24		× 24
DM	5.5	" PCM 2.0 " PCM- " PCM- " PCM- PY 9L 1.8 LP1 9L 1.7 LP2	LP2	LS	× 6	BK	× 6	NWb	× 6	LPb	× 6
DM	6.0	" PCM 2.0 " PCM- " PCM- " PCM- " 65NL 4.0 IM	IM		× 6		× 6		× 6		× 6
RS	2.0	RS PCM 2.0 LS PCM- BK PCM- NWb PCM- LPb PCM- PY	PY	LS	△ 8	BK	△ 8	NWb	△ 8	LPb	△ 8
NWN	2.0	NWN PCM- 2.0 LS PCM- BK PCM- NWb PCM- LPb PCM- PY	PY	LS	△ 10	BK	△ 10	NWb	△ 10	LPb	△ 10
RID	5.1	RID 9L 3.1 LS PCM 2.0 BK PCM- NWb PCM- LPb PCM- PY	PY		△ 26		△ 26		△ 26		△ 26
RID	5.1	" 9L 3.1 " PCM 2.0 " PCM- " PCM- " PCM- "	PY		× 16		× 16		× 16		× 16
RID	7.5	" 9L 3.1 " PCM 2.0 " PCM- " PCM- PY 9L 1.4 8S 9L 1.0 8S	8S		× 17		× 17		× 17		× 17
RID	8.6	" 9L 3.1 " PCM 2.0 " PCM- " PCM- " 65L 3.5 LP1	LP1	LS	× 17	BK	× 17	NWb	× 17	LPb	× 17
RID	8.6	" 9L 3.1 " PCM 2.0 " PCM- " PCM- " 9L 1.8 " 9L 1.7 LP2	LP2		× 24		× 24		× 24		× 24
RID	7.3	" 9L 3.1 " PCM 2.0 " PCM- " PCM- " 65L 2.2 IM	IM		× 14		× 14		× 14		× 14
			SUB TOTAL		°230		°230		°230		°230
					° 93		° 93		° 93		° 93
				°214		°214		°107			
				△131		△131		△106	137	△ 48	△137
				× 27	180	× 27	180	× 27	180	× 7	× 80

NO. 11

(T4) LS ——— T2
BS.NN(T2)

TRANSMISSION ROUTE

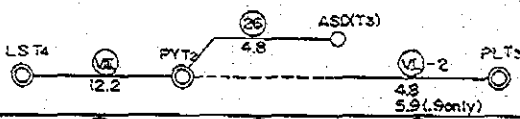


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	(40) CABLE	(40) PCM	(39) CABLE	(39) PCM	(23) CABLE	(23) PCM	(19) CABLE	(19) PCM
C W	6.0	CW 5L 4.0 LS PCM 2.0 BK PCM- N_b^W PCM- L_b^P PCM- PY	PY	LS	△ 23	BK	△ 23	NW_b	△ 23	LP_b	△ 23	PY
P K	5.5	PK 5L 3.5 LS PCM 2.0 BK PCM- N_b^W PCM- L_b^P PCM- PY	PY	LS	△ 9	BK	△ 9	NW_b	△ 9	LP_b	△ 9	PY
P T	2.0	PT PCM 2.0 LS PCM- BK PCM- N_b^W PCM- L_b^P PCM- PY	PY	LS	△ 8	BK	△ 8	NW_b	△ 8	LP_b	△ 8	PY
			SUB TOTAL		△ 40		△ 40		△ 40		△ 40
			TOTAL		○ 230		○ 230		○ 230		○ 230
					○ 93		○ 93		○ 93		○ 93
				○ 214		○ 214		○ 107			
				△ 131	△ 177	△ 131	△ 177	△ 106	△ 177	△ 48	△ 177
				× 27	× 180	× 27	× 180	× 27	× 180	× 7	× 180
			GRAND TOTAL	372	680	372	680	240	680	55	680

NO 12

(T4) LS ——— T3 ASD(T3)
(except SK NW SSN)

TRANSMISSION ROUTE

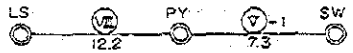


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	(VF) CABLE	(VF) PCM	(26) CABLE	(26) PCM	(VF)-2 CABLE	(VF)-2 PCM	○ CABLE	○ PCM
[LS]	2.0	LS PCM 2.0 PY PCM- PL	PL		△56				△56		
LS	2.0	" PCM 2.0 " PCM- "	[PL]		△29				△29		
[LS]	2.0	" PCM 2.0 " PCM- "	[PL]		°113				°113		
[LS]	4.9	" PCM 2.0 " PCM- " 65L 0.6 MM 65L 2.3 MM	MM	LS	△20 PY	△40	ASD		△20 PL		
[LS]	5.0	" PCM 2.0 " 65L 3.0 ASD	ASD	LS	△40 PY				PL		
[LS]	4.2	" PCM 2.0 " PCM- PL 65L 2.2 SV	SV	LS	△22 PY				△22 PL		
[LS]	5.8	" PCM 2.0 " PCM- " 9L 0.4 MM 9L 1.1 MM 65L 2.3 KT	KT	LS	△23 PY				△23 PL		
DM	4.1	DM PCM 2.0 LS PCM- PY 9L 2.1 PL	PL	LS	×28 PY			×28	PL		
DM	4.1	" PCM 2.0 " PCM- " 9L 2.1 "	[PL]	LS	△30 PY			△30	PL		
RS	4.1	RS PCM 2.0 LS PCM- PY 9L 2.1 PL	[PL]	LS	△8 PY			△8	PL		
NWN	4.1	NWN PCM 2.0 LS PCM- PY 9L 2.1 PL	[PL]	LS	△13 PY			△13	PL		
RID	5.1	RID 9L 3.1 LS PCM 2.0 PY PCM- PL	PL		×30				×30		
RID	5.1	" 9L 3.1 " PCM 2.0 " PCM- "	[PL]		△31				△31		
RID	8.0	" 9L 3.1 " PCM 2.0 " PCM- " 65L 0.6 MM 65L 2.3 MM	MM	LS	×7 PY				×7 PL		
RID	7.3	" 9L 3.1 " PCM 2.0 " PCM- " 65L 2.2 SV	SV	LS	×6 PY				×6 PL		
RID	7.9	" 9L 3.1 " PCM 2.0 " PCM- " 9L 0.4 MM 9L 1.1 MM 9L 1.3 KT	KT	LS	×14 PY				×14 PL		
CW	6.0	CW 5L 4.0 LS PCM 2.0 PY PCM- PL	[PL]	LS	△19 PY				△19 PL		
PK	5.5	PK 9L 3.5 LS PCM 2.0 PY PCM- PL	[PL]	LS	△8 PY				△8 PL		
PT	4.1	PT PCM 2.0 LS PCM- PY 9L 2.1 PL	[PL]	LS	△9 PY			△9	PL		
					°113				°113		
			TOTAL		△308	△40		△60	△208		
					×85			×28	×57		
			GRAND TOTAL		506	40		88	378		

NO. 13

(T6) LS ——— T7
(except BSN)

TRANSMISSION ROUTE

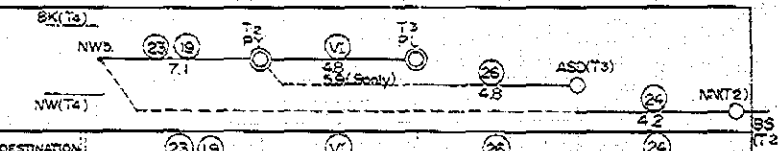


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	(VII) CABLE	(VII) PCM	(V)-1 CABLE	(V)-1 PCM	○ CABLE	○ PCM	○ CABLE	○ PCM
LS	2.0	LS PCM 2.0 PY PCM- SW	SW		°123		°123				
LS	2.0	" PCM 2.0 " PCM- "	SW		△ 27		△ 27				
LS	2.0	" PCM 2.0 " PCM- "	SW		△ 79		△ 79				
LS	2.0	" PCM 2.0 " PCM- "	SW "13"		△ 40		△ 40				
LS	3.9	" PCM 2.0 " PCM- " 9L 1.9 TK	TK	LS	△ 18	PY	△ 18	SW			
LS	6.4(4.2)	" PCM 2.0 " PCM- " 5L 2.5 TK 5L 1.9 TC	TC		△ 38		△ 38				
LS	6.5(4.2)	" PCM 2.0 " PCM- " 5L 2.7 MM 9L 1.6 ISP	SP		△ 18		△ 18				
DM	4.7	DM 9L 2.7 LS PCM 2.0 PY PCM- SW	SW		△ 28		△ 28				
DM	4.7	" 9L 2.7 " PCM 2.0 " PCM- "	SW	LS	× 57	PY	× 57	SW			
RS	4.5	RS PCM 2.0 LS PCM- PY 9L 2.5 SW	SW	LS	△ 8	PY	△ 8	SW			
NWN	4.5	NWN PCM 2.0 LS PCM- PY 9L 2.5 SW	SW	LS	△ 9	PY	△ 9	SW			
RID	5.1	RID 9L 3.1 LS PCM 2.0 PY PCM- SW	SW		△ 32		△ 32				
RID	5.1	" 9L 3.1 " PCM 2.0 " PCM- "	SW	LS	× 54	PY	× 54	SW			
RID	9.5	" 9L 3.1 " PCM 2.0 " PCM- " 5L 2.5 TK 5L 1.9 TC	TC		× 6		× 6				
CW	6.0	CW 5L 4.0 LS PCM 2.0 PY PCM- SW	SW	LS	△ 19	PY	△ 19	SW			
PK	5.5	PK 9L 3.5 LS PCM 2.0 PY PCM- SW	SW	LS	△ 8	PY	△ 8	SW			
PT	4.5	PT PCM 2.0 LS PCM- PY 9L 2.5 SW	SW	LS	△ 8	PY	△ 8	SW			
					°123		°123				
			TOTAL		△ 332		△ 307				
					× 117		× 117				
			GRAND TOTAL		572		547				

NO. 14

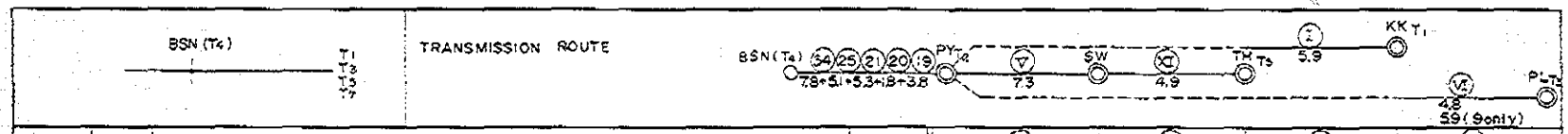
BK, NW(T4) — T2 / T3

TRANSMISSION ROUTE



TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	23 19 CABLE	23 19 PCM	VC CABLE	VC PCM	26 CABLE	26 PCM	24 CABLE	24 PCM
BK	4.5	BK 65L 0.5 NW 65L 4.0 PY	PY	△ 16							
BK	9.1	" 65NL 0.8 " 65NL 8.3 "	PY	× 82							
BK	9.5	" 65L 0.5 " 65L 4.0 " 5NL 5.0 IM	IM	× 20							
BK	7.6	" 65L 0.5 " 65L 3.8 " 65L 3.3 LP1	LP1	NW × 27	PY						NN
BK	7.6	" 65L 0.5 " 65L 3.8 " 9L 1.6 " 9L 1.7 LP2	LP2	b × 23							
BK	4.8	" 9L 0.4 NW 9L 1.4 NW 9L 1.2 NN 9L 1.8 BS	BS							× 41	
BK	5.9	BK 65L 0.5 NW 65L 3.8 PY 9L 1.6 PL	PL	△ 26		△ 26					
BK	7.1	" 65L 0.5 " 65L 3.8 " 65L 2.8 "	PL	× 42		× 42					
BK	8.9	" 65L 0.5 " 65L 3.8 " 65L 2.6 " 65L 2.0 SV	SV	× 12		× 12					
BK	11.0	" 65L 0.5 " 65L 3.8 " 65L 2.8 " 9NL 3.9 MM	MM	NWb × 7	PY	× 7	PL		ASD		
BK	10.8	" 65L 0.5 " 65L 3.8 " 9L 1.7 " 9L 1.5 " 9NL 3.3 KT	KT	× 12		× 12					
BK	10.3	" 65L 0.5 " 65L 4.0 " 65NL 5.8 ASD	ASD	× 12				× 12			
NW	4.0	NW 9L 1.7 NW 9L 2.3 PY	PY	△ 42							
NW	6.1	" 9L 1.8 BK 65L 4.3 "	PY	× 56							
NW	10.1	" 9L 1.8 " 65L 4.3 " 65NL 4.0 IM	IM	× 23							
NW	10.8	" 9L 1.7 NW 9L 2.3 " 65NL 6.8 LP1	LP1	× 14							
NW	8.6	" 9L 1.7 " 9L 2.1 " 65L 3.1 " 9L 1.7 LP2	LP2	NWb × 12	PY						NN
NW	8.2	" 9NL 3.6 NN 9NL 4.6 BS	BS							× 69	
NW	3.6	" 9NL 3.6 "	NN							× 16	
NW	5.7	NW 9L 1.7 NW 9L 2.1 PY 9L 1.9 PL	PL	△ 56		△ 56					
NW	7.5	" 9L 1.8 BK 65L 4.1 " 9L 1.6 "	PL	× 38		× 38					
NW	11.0	" 9L 1.7 NW 9L 2.1 " 9L 1.6 " 65NL 5.6 MM	MM	NWb × 6	PY	× 6	PL				
NW	8.1	" 9L 1.7 " 9L 2.1 " 9L 1.7 " 9L 1.3 " 9L 1.3 KT	KT	× 6		× 6					
			TOTAL	△ 140		△ 82					
				× 392		× 123		× 12		× 126	
			GRAND TOTAL	532		205		12		126	

NO. 15

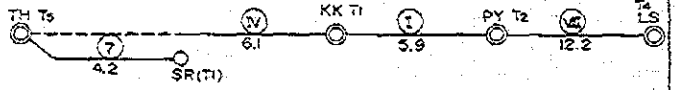


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	⑦ CABLE	⑦ PCM	XI CABLE	XI PCM	① CABLE	① PCM	VI CABLE	VI PCM
BSN	4.1	BSN PCM 2.0 KC PCM- 1/2 PCM- 1/4 PCM- PY 9L 2.1 KK	KK					△ 22			
BSN	4.1	〃 PCM 2.0 〃 PCM- 〃 PCM- 〃 PCM- 〃 PCM- 〃 9L 2.1 〃	KK OTO	PY		SW		TH		KK	PL
BSN	4.1	〃 PCM 2.0 〃 PCM- 〃 PCM- 〃 PCM- 〃 PCM- 〃 9L 2.1 PL	PL					▽ 4		△ 16	
BSN	5.9	〃 PCM 2.0 〃 PCM- 〃 PCM- 〃 PCM- 〃 9L 2.3 SW 9L 1.6 TH	TH	△ 11		△ 11					
BSN	4.5	〃 PCM 2.0 〃 PCM- 〃 PCM- 〃 PCM- 〃 9L 2.5 〃	SW	△ 12							
								▽ 4			
			TOTAL	△ 23		△ 11		△ 22		△ 16	
			GRAND TOTAL	23		11		26		16	

NO. 16

(T3) TH — TI / TI(SR) / T4(BT)

TRANSMISSION ROUTE

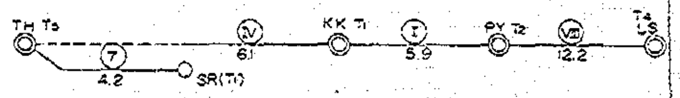


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	(7) CABLE	(7) PCM	(IV) CABLE	(IV) PCM	(I) CABLE	(I) PCM	(VI) CABLE	(VI) PCM
TH	3.8	TH 65L 3.8 KK	KK			△ 22					
TH	3.8	" 65L 3.8 "	KK			△ 64					
TH	7.4	" 65NL 7.4 "	KK			× 38					
TH	2.0	" PCM 2.0 "	KK				• 84				
TH	0	" PCM 0 "	KK TO I				• 180				
TH	3.8	" 65L 3.8 "	OTO			• 12					
TH MC	3.8	" 65L 3.8 "	KK MC			• 13					
TH	5.8	" 65L 3.6 " 5L 2.2 PW	PW			△ 72					
TH	10.9	" 65NL 7.4 " 5NL 3.5 "	PW			× 112					
TH	5.5	" 65L 3.6 " 65L 1.9 SS	SS			△ 27					
TH	11.0	" 65NL 7.4 " 65NL 3.6 "	SS			× 32					
TH	4.0	" 5L 4.0 SR	SR	△ 140							
TH	6.4	" 5NL 6.4 "	SR	× 216							
TH	5.8	" 65L 3.8 KK PCM 2.0 PY PCM- LS PCM- CW PCM- PK PCM- BT	BT			△ 2			△ 2		△ 2
DK	4.5	DK 65L 2.5 TH 9L 2.0 KK	KK			△ 12					
DK	10.0	" 5NL 6.2 " 65L 3.8 "	KK			× 32					
DK	3.4	" 9L 1.4 " 9L 2.0 "	OTO			• 6					
DK	9.6	" 65L 2.5 " 65L 3.6 " 5NL 3.5 PW	PW			× 46					
DK	10.9	" 5L 3.7 " 65L 3.6 " 65NL 3.6 SS	SS			× 12					
DK	10.3	" 5L 3.9 " 5NL 6.4 SR	SR	× 104							
EC	8.6(4.7)	EC 9L 2.5 DK 65L 2.3 TH 65L 3.6 KK	KK			△ 38					
EC	5.7(3.9)	" 9L 2.5 " 9L 1.2 " 9L 2.0 "	OTO			• 4					
RB	5.4	RB 65L 2.2 DK 9L 1.2 TH 9L 2.0 KK	KK			△ 40					
RB	5.4(4.0)	" 65L 2.2 " 9L 1.2 " 9L 2.0 "	OTO			• 4					
PD	5.6	PD 9L 1.1 RB 9L 1.3 DK 9L 1.2 TH 9L 2.0 KK	KK			△ 17					
PD	9.4	" 9NL 3.3 " 9L 1.3 " 9L 1.2 " 65L 3.6 "	KK			× 38					
PD	4.2	" PCM 2.0 " PCM- " PCM- " 9L 2.2 "	OTO			• 6					
PD	10.7	" 9L 1.1 " 9L 1.3 " 9L 1.2 " 65L 3.6 " 5NL 3.5 PW	PW			× 40					
PD	10.8	" 9L 1.1 " 9L 1.3 " 9L 1.2 " 65L 3.6 " 65NL 3.6 SS	SS			× 13					
PD	10.2	" 9L 1.1 " 9L 1.3 " 9L 1.2 " 5NL 6.4 SR	SR	× 108							
PD	7.9	" 9L 1.3 " 9L 1.1 " 9L 1.2 " 9L 1.8 KK 9L 0.9 SS 65L 1.6 BP	BP			× 14					
PP	5.8	PP PCM 2.0 TH 65L 3.8 KK	KK			△ 8					
PP	4.2	" PCM 2.0 " 9L 2.2 "	OTO			• 2					
BC	5.1	BC 5L 3.1 TH 9L 2.0 KK	KK			△ 14					
BC	10.7	" 5L 3.3 " 65NL 7.4 "	KK			× 30					
BC	3.2	" 9L 1.2 " 9L 2.0 "	OTO			• 6					
BC	10.2	" 5L 3.1 " 65L 3.6 " 5NL 3.5 PW	PW			× 35					
BC	9.7	" 5L 3.3 " 5NL 6.4 SR	SR	× 92							

NO. 17

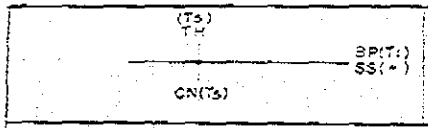
Ts —— TH —— Ti, Ti(SR) (except Bp)

TRANSMISSION ROUTE



TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE		⑦ CABLE	⑦ PCM		Ⅳ CABLE	Ⅳ PCM		Ⅰ CABLE	Ⅰ PCM	Ⅷ CABLE	Ⅷ PCM
PC	6.0	PC 65L 3.0 BC 9L 1.0 TH 9L 2.0 KK	KK					△47						
PC	6.0(4.0)	" 65L 3.0 " 9L 1.0 " 9L 2.0 "	OTD	TH				•5		KK				
MK	6.0	MK 9L 1.6 PC 9L 1.4 BC 9L 1.0 TH 9L 2.0 KK	KK					△17						
MK	6.0(4.0)	" 9L 1.6 " 9L 1.4 " 9L 1.0 " 9L 2.0 "	OTD	TH				•3		KK				
NK	4.2	NK PCM 2.0 TH 9L 2.2 KK	KK					△17						
NK	4.2	" PCM 2.0 " 9L 2.2 "	OTD	TH				•3		KK				
CN	6.4	CN 5L 4.4 TH 9L 2.0 KK	KK					△11						
CN	8.0	" 5L 4.4 " 65L 3.6 "	KK					×48						
CN	6.4(4.2)	" 5L 4.4 " 9L 2.0 "	OTD	TH				•6		KK				
CN	9.9	" 5L 4.4 " 9L 2.0 " 5NL 3.5 PW	PW					×34						
CN	11.0	" 5L 4.6 " 5NL 6.4 SR	SR		×108		SR							
			TOTAL		△140 ×628			•70 △408 ×574	△180 •84			△2		△2
			GRAND TOTAL		768			1 052	264			2		2

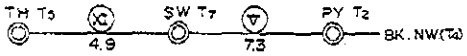
NC 18



TRANSMISSION ROUTE

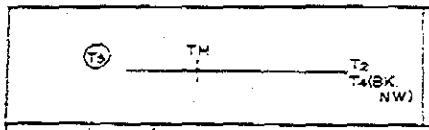
TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	(61) CABLE	(61) PCM	(14) CABLE	(14) PCM	(4) CABLE	(4) PCM	○ CABLE	○ PCM
TH	7.2(4.4)	TH 5L 4.4 CN 65L 2.8 BP	BP	△ 24		△ 24					
TH	10.4	" 5L 4.6 " 65NL 5.8 "	BP	× 38		× 38					
TH TQ	7.2(4.4)	" 5L 4.4 " 65L 2.8 "	BP	* 63		* 63					
TH MC	7.2(4.4)	" 5L 4.4 " 65L 2.8 "	BP	△ 5		△ 5					
CN	5.8	CN 65NL 5.8 BP	BP	TH		CN		BP			
CN	9.6	" 65NL 5.8 " 5NL 3.8 SS	SS	TH		CN	× 23	BP	× 23	SS	
OK	8.4	OK 9L 1.4 TH 5L 4.2 CN 65L 2.8 BP	BP	TH × 14		CN × 14		BP			
BC	8.2	BC 9L 1.2 TH 5L 4.2 CN 65L 2.8 BP	BP	TH × 16		CN × 16		BP			
			TOTAL	* 63		* 63					
				△ 29		△ 29					
				× 68		× 117		× 23			
			GRAND TOTAL	160		209		23			

NO. 19

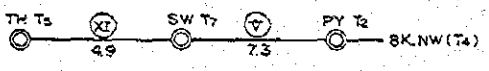


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	CABLE	PCM	CABLE	PCM	CABLE	PCM	CABLE	PCM
TH	3.9	TH 9L 1.6 SW 9L 2.3 PY	PY	△ 56		△ 56					
TH	7.1	" 6SL 2.9 " 6SL 4.2 "	PY	× 54		× 54					
TH	3.9	" 9L 1.6 " 9L 2.3 "	PY	△ 34		△ 34					
TH	2.0	" PCM 2.0 " PCM- "	PY		○ 112		○ 112				
TH	0	" PCM 0 " PCM- "	PY TOLL		○ 215		○ 215				
TH	5.9	" 9L 1.6 " 9L 2.1 " 9L 2.2 BS	BS	△ 31		△ 31					
TH	7.8	" 9L 1.6 " 6SL 4.0 " 9L 2.2 "	BS	× 24		× 24					
TH	5.7	" 9L 1.6 " 9L 2.1 " 6SL 2.0 IM	IM	△ 32		△ 32					
TH	8.9	" 6SL 2.9 " 6SL 4.0 " 6SL 2.0 "	IM	× 14		× 14					
TH	5.5	" PCM 2.0 " PCM- " 6SL 3.5 LP1	LP1		△ 39		△ 39				
TH	8.3	" 6SL 2.9 " 9L 2.1 " 6SL 3.3 "	LP1	× 20		× 20					
TH	5.5	" PCM 2.0 " PCM- " 9L 1.8 " 9L 1.7 LP2	LP2		△ 36		△ 36				
TH	5.5	" PCM 2.0 " PCM- " 9L 1.8 " 9L 1.7 "	LP2		× 21		× 21				
TH	6.0	" PCM 2.0 " PCM- " 9L 2.2 BS 9L 1.8 NN	NN		△ 23		△ 23				
TH	8.5	" 9L 1.6 " 9L 2.1 " 6SL 2.2 SS 9L 0.8 BS 9L 1.8 NN	NN	× 6		× 6					
DK	5.7	DK 5L 3.7 TH PCM 2.0 SW PCM- PY	PY		△ 28		△ 28				
DK	8.1	" 6SL 2.5 " 9L 1.4 " 6SL 4.2 "	PY	× 12		× 12					
DK	9.0	" 9L 1.4 " 9L 1.4 " 6SL 4.0 " 9L 2.2 BS	BS	× 13		× 13					
DK	8.2	" 9L 1.4 " 9L 1.4 " 9L 2.1 " 9L 1.6 LP1 9L 1.7 LP2	LP2	× 6		× 6					
EC	5.9	EC 9L 2.5 DK 9L 1.4 TH PCM 2.0 SW PCM- PY	PY		△ 16		△ 16				
RB	5.6	RB 6SL 2.2 DK 9L 1.4 TH PCM 2.0 SW PCM- PY	PY		△ 17		△ 17				
PD	5.8	PD 9L 1.1 RB 9L 1.3 DK 9L 1.4 TH PCM 2.0 SW PCM- PY	PY		△ 32		△ 32				
PD	8.8(6.0)	" 6SL 1.9 " 6SL 2.5 " 6SL 2.4 " PCM 2.0 " PCM- "	PY		× 16		× 16				
PD	12(10.4)	" 6SL 4.4 DK 6SL 2.4 TH PCM 2.0 SW PCM- PY 9L 2.4 BS	BS		× 14		× 14				
PD	11.0(8.2)	" 6SL 4.4 " 6SL 2.4 " PCM 2.0 " PCM- " 6SL 2.2 IM	IM		× 6		× 6				
PD	9.3	" 9L 2.4 " 9L 1.4 " PCM 2.0 " PCM- " 9L 1.8 LP1 9L 1.7 LP2	LP2		× 12		× 12				
BC	5.3	BC 5L 3.3 TH PCM 2.0 SW PCM- PY	PY		△ 29		△ 29				
BC	10.0	" 9NL 2.9 " 6SL 2.9 " 6SL 4.2 "	PY	× 12		× 12					
BC	10.7	" 9NL 2.9 " 9L 1.6 " 6SL 4.0 " 9L 2.2 BS	BS	× 13		× 13					
PC	5.2	PC 6SL 3.0 BC 9L 1.2 TH PCM 2.0 SW PCM- PY	PY		△ 20		△ 20				
MK	2.0	MK PCM 2.0 PC PCM- BC PCM- TH PCM- SW PCM- PY	PY		△ 9		△ 9				
NK	2.0	NK PCM 2.0 TH PCM- SW PCM- PY	PY		△ 7		△ 7				
CN	8.1(4.7)	CN 5L 4.4 TH 9L 1.4 SW 9L 2.3 PY	PY	△ 30		△ 30					
CN	8.1	" 5L 4.4 " 9L 1.4 " 9L 2.3 "	PY	× 12		× 12					
CN	10.0	" 5L 4.6 " PCM 2.0 " PCM - " 9L 6SL 3.4 BS	BS		× 13		× 13				

NO. 20



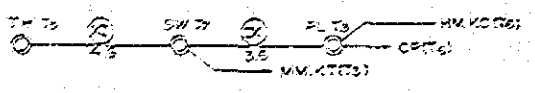
TRANSMISSION ROUE



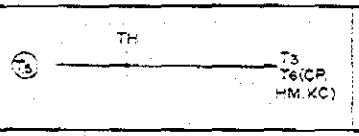
TANDEM OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	XT CABLE	XT PCM	▽ CABLE	▽ PCM	○ CABLE	○ PCM	○ CABLE	○ PCM
[T H]	4.6	TH PCM 2.0 SW PCM- PY 9L 2.6 8K	8K(T4)		△ 32		△ 32				
[T H]	6.0	" PCM 2.0 " PCM- " 9L 4.0 NW	NW(T4)	TH	△ 54	SW	△ 54	PY			
T H	8.8	" 65L 2.9 " 9L 2.1 " 9L 3.8 "	NW(T4)		× 27		× 27				
T H	8.9	" 5L 4.4 " 9L 2.1 " 9L 2.4 8K	8K(T4)		× 18		× 18				
D K	8.5	DK 5L 3.9 TH PCM 2.0 SW PCM- PY 9L 2.6 8K	8K(T4)	TH	× 6	SW	× 6	PY			
D K	9.9	" 5L 3.9 " PCM 2.0 " PCM- " 9L 4.0 NW	NW(T4)		× 7		× 7				
P D	4(8.6)	PD 65L 4.6 DK 65 2.4 TH PCM 2.0 SW PCM- PY 9L 2.6 8K	8K(T4)	TH	× 6	SW	× 6	PY			
P D	9.8	" 9L 2.6 " 9L 1.6 " PCM 2.0 " PCM- " 9L 4.0 NW	NW(T4)		× 7		× 7				
B C	7.9	BC 5L 3.3 TH PCM 2.0 SW PCM- PY 9L 2.6 8K	8K(T4)	TH	× 12	SW	× 12	PY			
B C	9.3	" 5L 3.3 " PCM 2.0 " PCM- " 9L 4.0 NW	NW(T4)		× 7		× 7				
			TOTAL		○ 215		○ 215				
					○ 112		○ 112				
					△ 183		△ 183				
					△ 342		△ 342				
					× 231		× 231				
					× 127		× 127				
			GRAND TOTAL	414	796	414	796				

NO. 21

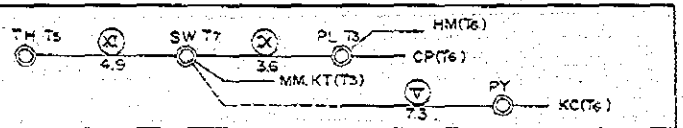
TRANSMISSION ROUTE



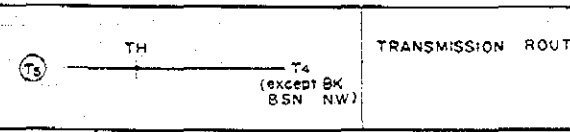
TRANSM. % OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	CABLE	PCM	CABLE	PCM	CABLE	PCM	CABLE	PCM
TH	5.1	TH 65L 2.3 SW 65L 2.2 PL	PL	△ 51		△ 51					
TK	5.1	" 65L 2.3 " 65L 2.2 "	ST	△ 50		△ 50					
TH	10.1	" 5L 4.6 " 5ML 5.5 "	PL	× 77		△ 77					
TH	2.0	" PCM 2.0 " PCM - "	ST		" 108		" 108				
TM	9.8	" 65L 2.3 " 5L 2.3 MM	MM	△ 31							
TM	6.4	" 5L 4.6 " 5ML 4.5 "	MM	× 24							
TK	10.1	" 65L 2.3 " 5L 2.7 " 5L 1.3 KT	KT	△ 41							
TM	8.4	" 5L 4.4 " 5L 2.7 " 5L 1.3 "	KT	× 23							
TH	7.8	" 65L 2.3 " 5L 1.0 PL 5L 4.0 ASD	ASD	× 53		△ 53					
TM	8.9	" 65L 2.3 " 65L 2.0 " 5L 4.0 "	ASD	× 22		× 22					
TH	9.9	" 65L 2.3 " 5L 1.0 " 65L 2.0 SV	SV	△ 37		△ 37					
TH	8.4	" 5L 4.4 " 65L 2.0 " 65L 2.0 "	SV	× 25		× 25					
SK	4.7	SW 65L 2.3 TH PCM 2.0 SW PCM - PL	PC		△ 29		△ 29				
SK	5.9	" 65L 2.3 " 5L 4.2 " 65L 2.2 "	PL	△ 14		× 14					
SK	10.2	" 65L 2.3 " 65L 2.3 " 5ML 4.5 MM	MM	× 16							
SK	8.9	" 65L 2.3 " 5L 1.4 " 5L 2.7 " 65L 2.2 KT	KT	× 15							
SK	8.1	" 5L 1.4 " 65L 2.7 " 65L 2.0 PL 65L 2.0 SV	SV	× 12		× 13					
SC	5.9	SC 5L 2.0 SK 5L 1.4 TH PCM 2.0 SW PCM - PL	PL		△ 22		△ 22				
MC	5.6	MC 65L 2.2 SK 5L 1.4 TH PCM 2.0 SW PCM - PL	PL		△ 22		△ 22				
PC	5.9	PC 5L 1.1 MC 5L 1.3 SK 5L 1.4 TH PCM 2.0 SW PCM - PL	PL		△ 28		△ 28				
PC	8.8 (SC)	" 65L 2.4 " 65L 2.0 " 65L 2.4 " PCM 2.0 " PCM -	PL		× 42		× 43				
PC	9.0	" 5L 1.1 " 5L 1.3 " 65L 2.3 " 5L 1.4 " 5L 2.9 MM	MM	× 16							
PC	9.6	" 5L 2.4 SK 5L 1.4 TH PCM 2.0 SW PCM - PL 5L 1.3 " 65L 2.3 KT	KT		× 18		× 18				
PC	10.0	" 5L 1.3 MC 5L 1.1 SK 5L 1.4 TH PCM 2.0 SW PCM - PL 5L 4.2 ASD	ASD		× 6		× 6				
PC	11.4 (SC)	" 65L 2.4 " 65L 2.0 " 65L 2.4 " PCM 2.0 " PCM - " 5L 3.1 SV	SV		× 15		× 15				
MP	4.8	MP PCM 2.0 PC PCM - TH 5L 1.6 SW 5L 1.2 PL	PL	△ 6		△ 5					
PC	5.7	SC 5L 3.1 TH 5L 1.4 SW 5L 1.2 PL	PL	△ 32		△ 32					
PC	6.2	PC 65L 2.0 SC 5L 1.2 TH PCM 2.0 SW PCM - PL	PL	△ 26		△ 26					
MX	2.0	MX PCM 2.0 PC PCM - SC PCM - TH PCM - SW PCM - PL	PL	△ 10		△ 10					
NK	2.0	NK PCM 2.0 MK PCM - PC PCM - SC PCM - TH PCM - SW PCM - PL	PL	△ 10		△ 10					



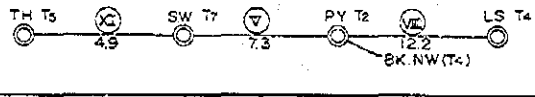
TRANSMISSION ROUTE



TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	⑪ CABLE	⑪ PCM	⑫ CABLE	⑫ PCM	Ⓐ CABLE	Ⓐ PCM	Ⓑ CABLE	Ⓑ PCM
C N	8.3(=8)	CN 5L 4.4 TH 65L 2.7 SW 9L 1.2 PL	PL	△ 22		△ 22					
C N	8.3	〃 5L 4.4 〃 65L 2.7 〃 9L 1.2 〃	PL	× 28		× 28					
C N	8.7	〃 5L 4.4 〃 9L 1.4 〃 5L 2.9 MM	MM	TH × 7		SW		PL			
C N	10.4	〃 5L 4.6 〃 PCM 2.0 〃 PCM — PL 9L 1.5 MM 65L 2.3 KT	KT	× 8		× 8					
C N	10.8	〃 5L 4.6 〃 PCM 2.0 〃 PCM — 〃 5L 4.2 ASD	ASD	× 12		× 12					
T H	5.9	TH 65L 2.9 SW 9L 1.0 PL 9L 2.0 CP	CP	△ 74		△ 74					
T H	4.7	〃 PCM 2.0 〃 PCM — 〃 9L 2.7 HM	HM		△ 37		△ 37				
T H	8.6	〃 65L 2.9 〃 9L 1.0 〃 65L 4.7 〃	HM	× 26		× 26					
T H	5.9	〃 9L 1.6 〃 9L 2.3 PY PCM 2.0 KC	KC	△ 53				△ 53			
T H	7.2(6.4)	〃 65L 2.9 〃 9L 2.3 〃 PCM 2.0 〃	KC	TH × 25		SW		PL × 25		PY	
T H	8.7	〃 65L 2.9 〃 65L 2.0 PL 65L 0.4 MM 65L 1.4 SV 65L 2.0 CP	CP	× 40		× 40					
D K	8.6	DK 5L 3.9 TH PCM 2.0 SW PCM — PL 9L 2.7 HM	HM	TH	× 12	SW	× 12	PL			
P D	10.1(8.2)	PD 65L 6.8 TH PCM 2.0 SW PCM — PL 9L 2.2 CP	CP		× 14		× 14				
P D	8.5	〃 9L 3.8 〃 PCM 2.0 〃 PCM — 〃 9L 2.7 HM	HM	TH	× 15	SW	× 15	PL		PY	
P D	7.9	〃 PCM 2.0 DK PCM — TH 9L 1.6 SW 9L 2.3 PY PCM 2.0 KC	KC	× 6				× 6			
					* 108		* 108				
			TOTAL	△ 490	△ 184	△ 365	△ 184	△ 53			
				× 377	× 143	× 245	× 143	× 31			
			GRAND TOTAL	867	435	610	435	84			

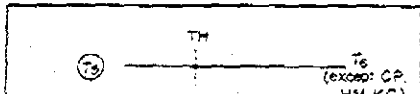


TRANSMISSION ROUTE

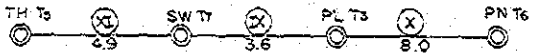


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	XL CABLE	XL PCM	V CABLE	V PCM	VIL CABLE	VIL PCM	○ CABLE	○ PCM
TH	2.0	TH PCM 2.0 SW PCM – PY PCM – LS	LS		△ 24		△ 24		△ 24		
TH	2.0	" PCM 2.0 " PCM – " PCM – "	LS		△ 50		△ 50		△ 50		
TH	2.0	" PCM 2.0 " PCM – " PCM – "	LS		° 121		° 121		° 121		
TH	4.7	" PCM 2.0 " PCM – " PCM – " 9L 2.7 DM	DM		X 19		X 19		X 19		
TH	4.7	" PCM 2.0 " PCM – " PCM – " 9L 2.7 "	DM		△ 39		△ 39		△ 39		
TH MC	2.0	" PCM 2.0 " PCM – " PCM – "	LS MC		* 13		* 13		* 13		
TH	2.0	" PCM 2.0 " PCM – " PCM – " PCM – DM PCM – RS	RS	TH	△ 7	SW	△ 7	PY	△ 7	LS	
TH	2.0	" PCM 2.0 " PCM – " PCM – " PCM – " PCM – NWN	NWN		△ 10		△ 10		△ 10		
TH	5.1	" PCM 2.0 " PCM – " PCM – " 9L 3.1 RID	RID		△ 38		△ 38		△ 38		
TH	8.7	" 65L 2.9 " 9L 2.1 " 9L 3.7 "	LS	X 14		X 14		X 14			
TH	6.0	" PCM 2.0 " PCM – " PCM – " 5L 4.0 CW	CW		△ 16		△ 16		△ 16		
TH	5.5	" PCM 2.0 " PCM – " PCM – " 9L 1.4 " 9L 2.1 PK	PK		△ 7		△ 7		△ 7		
TH	2.0	" PCM 2.0 " PCM – " PCM – " PCM – " PCM – " PCM – PT	PT		△ 8		△ 8		△ 8		
TH	5.1	" PCM 2.0 " PCM – " PCM – " 9L 3.1 RID	RID		X 19		X 19		X 19		
DK	5.9	DK 5L 3.9 TH PCM 2.0 SW PCM – PY PCM – LS	LS	TH	△ 23	SW	△ 23	PY	△ 23	LS	
EC	5.9	EC 9L 2.5 DK 9L 1.4 TH PCM 2.0 SW PCM – PY PCM – LS	LS	TH	△ 12	SW	△ 12	PY	△ 12	LS	
RB	5.8	RB 9L 1.3 DK 65L 2.5 TH PCM 2.0 SW PCM – PY PCM – LS	LS	TH	△ 15	SW	△ 15	PY	△ 15	LS	
PD	5.8	PD 9L 2.4 DK 9L 1.4 TH PCM 2.0 SW PCM – PY PCM – LS	LS		△ 28		△ 28		△ 28		
PD	8.5	" 9L 2.4 " 9L 1.4 " PCM 2.0 " PCM – " PCM – " 9L 2.7 DM	DM	TH	X 12	SW	X 12	PY	X 12	LS	
BC	5.3	BC 5L 3.3 TH PCM 2.0 SW PCM – PY PCM – LS	LS	TH	△ 25	SW	△ 25	PY	△ 25	LS	
PC	6.2	PC 65L 3.0 BC 9L 1.2 TH PCM 2.0 SW PCM – PY PCM – LS	LS	TH	△ 15	SW	△ 15	PY	△ 15	LS	
MK	5.9	MK PCM 2.0 PC PCM – BC PCM – TH PCM – SW PCM – PY 9L 3.9 LS	LS	TH	△ 6	SW	△ 6	PY	△ 6	LS	
NK	5.9	NK PCM 2.0 TH PCM – SW PCM – PY 9L 3.9 LS	LS	TH	△ 6	SW	△ 6	PY	△ 6	LS	
CN	6.6(4.2)	CN 5L 4.6 TH PCM 2.0 SW PCM – PY PCM – LS	LS	TH	△ 24	SW	△ 24	PY	△ 24	LS	
			TOTAL		* 13		* 13		* 13		
					° 121		° 121		° 121		
					△ 353		△ 353	PY	△ 12 △ 341	LS	
				X 14	X 50	X 14	X 50	X 14	X 50		
			GRAND TOTAL	14	537	14	537	26	525		

NO. 24

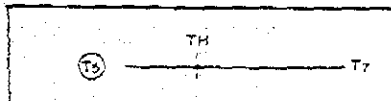


TRANSMISSION ROUTE



TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	ⓧ CABLE	ⓧ PCM	ⓧ CABLE	ⓧ PCM	ⓧ CABLE	ⓧ PCM	○ CABLE	○ PCM
TH	2.0	TH PCM 2.0 SW PCM – PL PCM – PN	PN		△ 22		△ 22		△ 22		
TH	2.0	• PCM 2.0 • PCM – • PCM – •	PN		△ 68		△ 68		△ 68		
TH	2.0	• PCM 2.0 • PCM – • PCM – •	PN		° 154		° 154		° 154		
TH MC	2.0	• PCM 2.0 • PCM – • PCM – •	PN MC		• 14		• 14		• 14		
TK	8.9	• 5L 4.4 • 65L 2.0 • 9L 2.5 •	PN	× 7		× 17		× 17			
TN	4.9	• PCM 2.0 • PCM – • PCM – • 65L 2.9 SN	SN		△ 44		△ 44		△ 44		
TH	4.9	• PCM 2.0 • PCM – • PCM – • 9L 1.5 • 9L 1.4 PS	PS		△ 37		△ 37		△ 37		
TH	8.7	• 65L 2.9 • 65L 2.0 • 9L 2.3 • 9L 1.5 •	SN	× 7		× 7		× 7			
TK	5.0	• PCM 2.0 • PCM – • PCM – • 9L 1.5 • 65L 2.5 PS	PS		× 21		× 21		× 21		
TH	2.0	• PCM 2.0 • PCM – • PCM – • PCM – • PCM – • PCM – SPK	SPK		△ 28		△ 28		△ 28		
TH	9.4(6.3)	• 65L 2.9 • 65L 2.0 • 9L 2.5 • PCM 2.0 • PCM – • PCM – •	SPK	× 15		× 15		× 15			
TH	4.5	• PCM 2.0 • PCM – • PCM – • 9L 2.5 ON	ON		△ 21		△ 21		△ 21		
TH	2.0	• PCM 2.0 • PCM – • PCM – • PCM – • PCM – LB	LB		△ 7		△ 7		△ 7		
DK	5.9	DK 5L 3.9 TH PCM 2.0 SW PCM – PL PCM – PN	PN		△ 45		△ 45		△ 45		
DK	6.2	• 5NL 6.2 • PCM 2.0 • PCM – • PCM – •	PN		× 6		× 6		× 6		
DK	8.7	• 65L 2.7 • PCM 2.0 • PCM – • PCM – • 9L 1.5 BN 65L 2.5 PS	PS		× 6		× 6		× 6		
EC	5.9	EC 9L 2.4 DK 9L 1.4 TH PCM 2.0 SW PCM – PL PCM – PN	PN		△ 23		△ 23		△ 23		
RB	5.6	RB 65L 2.2 DK 9L 1.4 TH PCM 2.0 SW PCM – PL PCM – PN	PN		△ 24		△ 24		△ 24		
PD	5.8	PD 9L 3.8 TH PCM 2.0 SW PCM – PL PCM – PN	PN		△ 50		△ 50		△ 50		
PD	8.8(6.0)	• 65L 2.4 RB 65L 2.0 DK 65L 2.4 TH PCM 2.0 SW PCM – PL PCM – PN	PN		× 6		× 6		× 6		
PD	11.7(9.0)	• 65L 2.4 • 65L 2.0 • 65L 2.4 • PCM 2.0 PN 65L 2.9 BN	SN		× 6		× 6		× 6		
PD	11.7(9.0)	• 65L 2.4 • 65L 2.0 • 65L 2.4 • PCM 2.0 • 9L 2.9 PS	PS		× 18		× 18		× 18		
PD	8.8(6.0)	• 65L 2.4 • 65L 2.0 • 65L 2.4 • PCM 2.0 • PCM – • PCM – SPK	SPK		× 12		× 12		× 12		
PP	2.0	PP PCM 2.0 TH PCM – SW PCM – PL PCM – PN	PN		△ 7		△ 7		△ 7		
BC	5.3	BC 5L 3.3 TH PCM 2.0 SW PCM – PL PCM – PN	PN		△ 42		△ 42		△ 42		
PC	6.2	PC 65L 3.0 BC 9L 1.2 TH PCM 2.0 SW PCM – PL PCM – PN	PN		△ 28		△ 28		△ 28		
MK	4.7	MK PCM 2.0 PC PCM – BC PCM – TH PCM – SW PCM – PL 9L 2.7 PN	PN		△ 10		△ 10	△ 10			
NK	4.7	NK PCM 2.0 TH PCM – SW PCM – PL 9L 2.7 PN	PN		△ 11		△ 11	△ 11			
CN	6.6(4.2)	CN 5L 4.6 TH PCM 2.0 SW PCM – PL PCM – PN	PN		△ 43		△ 43		△ 43		
			TOTAL		° 154		° 154		° 154		
					• 14		• 14		• 14		
					△ 510		△ 510	△ 21	△ 489		
				× 39	× 75	× 39	× 75	× 39	× 75		
			GRAND TOTAL	39	753	39	753	60	732		

NO. 23



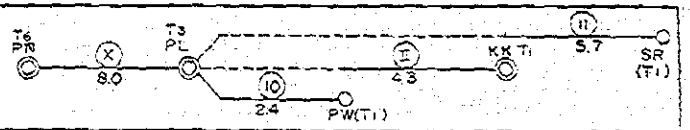
TRANSMISSION ROUTE

TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	XI CABLE	XI PCM		CABLE	PCM	CABLE	PCM	CABLE	PCM
TH	4.6	TH 5L 4.6 SW	SW	△123								
TH	4.6	" 5L 4.6 "	SW	△40								
TH	7.5	" 5NL 7.5 "	SW	×164		SW						
TH	1.8	" 9L 1.8 "	SW	○90								
TH	4.6	" 5L 4.6 "	SW "13"	△45								
TH	5.9	" 9L 1.6 " 5L 2.7 MM 9L 0.6 SPb 9L 1.0 SP	SP	△24								
TH	5.8	" 9L 1.6 " 5L 2.3 T_5^K 5L 1.9 TC	TC	△63								
TH	8.6	" 5L 4.4 " 5L 2.3 " 5L 1.9 "	TC	×54								
TH	6.1	" 5L 4.4 " 9L 0.8 " 9L 0.9 TK	TK	△29								
TH	9.1	" 5L 4.6 " 9NL 4.5 TK	TK	×16								
DK	5.4	DK 6SL 2.5 TH 6SL 2.9 SW	SW	△22								
DK	8.1	" 5L 3.7 " 5L 4.4 "	SW	×82		TH SW						
DK	8.3	" 9L 1.4 " 6SL 2.7 " 5L 2.3 T_5^K 5L 1.9 TC	TC	×20								
EC	5.3	EC 9L 2.3 DK 9L 1.2 TH 9L 1.6 SW	SW	△22		TH SW						
RB	5.4	RB 9L 1.3 DK 9L 1.2 TH 6SL 2.9 SW	SW	△25		TH SW						
PD	3.8	PD PCM 2.0 DK PCM — TH 9L 1.8 SW	SW	△33								
PD	5.1	" PCM 2.0 RB PCM — DK PCM — TH 6SL 3.1 SW	SW	×60								
PD	7.8(5.6)	" PCM 2.0 " PCM — " PCM — " 9L 1.6 " 5L 2.3 T_5^K 5L 1.9 TC	TC	×17		TH SW						
BC	6.0	BC 5L 3.1 TH 6SL 2.9 SW	SW	△23								
BC	9.8	" 5NL 5.2 " 5L 4.6 "	SW	×54		TH SW						
BC	10.0	" 9L 2.9 " 6SL 2.9 " 5L 2.3 T_5^K 5L 1.9 TC	TC	×6								
PC	5.6	PC 6SL 3.0 BC 9L 1.0 TH 9L 1.6 SW	SW	△27		TH SW						
MK	5.1	MK PCM 2.0 PC PCM — BC PCM — TH 6SL 3.1 SW	SW	△9		TH SW						
NK	5.1	NK PCM 2.0 MK PCM — PC PCM — BC PCM — TH 6SL 3.1 SW	SW	△9		TH SW						
CN	6.0	CN 5L 4.4 TH 9L 1.6 SW	SW	△25								
CN	8.8	" 5L 4.4 " 5L 4.4 "	SW	×51		TH SW						
			TOTAL	○90								
				△519								
				×524								
			GRAND TOTAL	1133								

NO 26

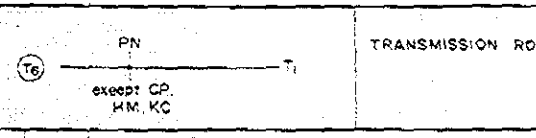
PN (T6) ——— T1
except CP HM KC

TRANSMISSION ROUTE

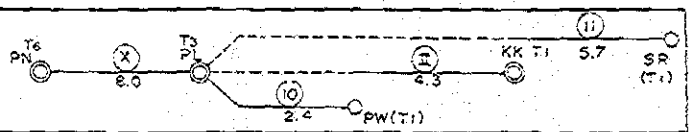


TANDEM OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	X CABLE	X PCM	10 CABLE	10 PCM	II CABLE	II PCM	11 CABLE	11 PCM
PN	5.1	PN 9L 2.5 PL 65L 2.6 KK	KK	△ 72				△ 72			
PN	5.1	" 9L 2.5 " 65L 2.6 "	KK	△ 19				△ 19			
PN	2.0	" PCM 2.0 " PCM — "	KK		° 143				° 143		
PN	0	" PCM 0 " PCM — "	KK TOLL		° 172				° 172		
PN	3.9	" 9L 2.5 " 9L 1.4 "	OTO	• 6				• 6			
PN	8.5	" 65L 4.6 " 5L 3.9 "	KK	x 12				x 12			
PN MC	3.9	" 9L 2.5 " 9L 1.4 "	KK MC	PN • 15		PL		PW • 15		KK	SR
PN	5.8	" 9L 2.5 " 65L 3.3 SR	SR	△ 62						△ 64	
PN	7.9	" 65L 4.6 " 65L 3.3 "	SR	x 24						x 24	
PN	5.5	" PCM 2.0 " PCM — KK 65L 1.9 SS 65L 1.6 BP	BP		△ 36				△ 36		
PN	4.8	" 9L 2.5 " 5L 2.3 PW	PW	△ 68		△ 68					
PN	2.5	" 65L 4.8 " 5NL 3.7 "	PW	x 30		x 30					
PN	5.6	" 9L 2.5 " 9L 1.2 KK 65L 1.9 SS	SS	△ 36				△ 36			
BN	4.9	BN 65L 2.9 PN PCM 2.0 PL PCM — KK	KK		△ 49				△ 49		
BN	3.7	" 9L 1.7 " PCM 2.0 " PCM — "	OTO		• 11				• 11		
BN	8.5	" 9L 1.5 " 65L 4.4 " 65L 2.6 "	KK	x 26				x 26		x 24	
BN	8.3	" 65L 2.7 " 9L 2.3 " 65L 3.3 SR	SR	x 24							
BN	9.8	" 9L 1.5 " 65L 4.6 " 5NL 3.7 PW	PW	x 31		x 31					
BN	8.2	" 9L 1.5 " 65L 4.4 " 9L 1.2 KK 9L 1.1 SS	SS	x 12				x 12			
PS	4.9	PS 9L 2.9 PN PCM 2.0 PL PCM — KK	KK		△ 27				△ 27		
PS	4.9(3.8)	" 9L 2.9 " PCM 2.0 " PCM — "	OTO		• 5				• 5		
PS	8.7	" 65L 5.0 " 9L 2.3 " 9L 1.4 "	KK	x 28				x 28			
PS	8.3	" 9L 2.7 " 9L 2.3 " 65L 3.3 SR	SR	PN x 52		PL		PW		KK x 52	SR
PS	10.1	" 9L 1.4 BN 65L 2.5 PN 9L 2.5 PL 5NL 3.7 PW	PW	x 31		x 31					
PS	8.5	" 9L 1.4 " 9L 1.3 " 9L 2.3 " 65L 2.4 KK 9L 1.1 SS	SS	x 6				x 6			
PS	8.7	" 9L 1.4 " 9L 1.3 " 9L 2.3 " 9L 1.2 " 9L 0.9 " 65L 1.6 BP	BP	x 6				x 6			
SPK	2.0	SPK PCM 2.0 PN PCM — PL PCM — KK	KK		△ 49				△ 49		
SPK	2.0	" PCM 2.0 " PCM — " PCM — "	OTO	PN	• 5	PL			• 5	KK	
BPO	2.0	BPO PCM 2.0 SPK PCM — PN PCM — PL PCM — KK	KK		△ 8				△ 8		
BPO	2.0	" PCM 2.0 " PCM — " PCM — " PCM — "	OTO	PN	• 2	PL			• 2	KK	
ON	5.0	ON 9L 2.3 PN 9L 2.3 PL 9L 1.4 KK	KK		△ 39				△ 39		
ON	4.5(3.8)	" 9L 2.5 " PCM 2.0 " PCM — "	OTO	PN	• 5	PL			• 5	KK	
PV	2.0	PV PCM 2.0 ON PCM — PN PCM — PL PCM — KK	KK		△ 6				△ 6		
PV	2.0	" PCM 2.0 " PCM — " PCM — " PCM — "	OTO	PN	• 2	PL			• 2	KK	
BPL	5.9(4.0)	BPL PCM 2.0 BN PCM — PN 9L 2.5 PL 9L 1.4 KK	OTO	PN	• 2	PL			• 2	KK	

NO. 27



TRANSMISSION ROUTE

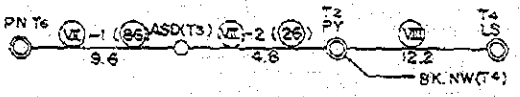


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	X CABLE	X PCM	10 CABLE	10 PCM	II CABLE	II PCM	11 CABLE	11 PCM
L B	4.8	LB PCM 2.0 PV PCM – ON PCM – PN PCM – PL 6SL 2.8 KK	KX	PN	△ 12	PL		△ 12	KK		
L B	3.6	" PCM 2.0 " PCM – " PCM – " PCM – " 9L 1.6 "	OTD		▪ 2			▪ 2			
					° 172			° 172			
					▪ 143			△ 143			
			TOTAL	▪ 23	▪ 32			▪ 25	▪ 30		
				△ 398	△ 187	△ 68		△ 178	△ 175	△ 164	
				K 282	X	X 92		X 90		X 100	
			GRAND TOTAL	703	534	160		293	520	264	

NO. 28

PN — (except CP, HM, KC) — T6, T2, T3(ASD)

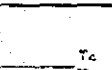
TRANSMISSION ROUTE



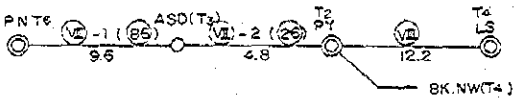
TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS
PN	4.6	PN 9L 3.0 ASD 9L 1.6 PY
PN	4.6	〃 9L 3.0 〃 9L 1.6 〃
PN	2.0	〃 PCM 2.0 〃 PCM — 〃
PN	0	〃 PCM 0 〃 PCM — 〃
PN	5.4	〃 PCM 2.0 〃 PCM — 〃 65NL 3.4 BS
PN	6.0	〃 PCM 2.0 〃 PCM — 〃 9L 2.2 〃 9L 1.8 NN
PN	6.0	〃 PCM 2.0 〃 PCM — 〃 65NL 4.0 IM
PN	5.5	〃 PCM 2.0 〃 PCM — 〃 65L 3.5 LP1
PN	5.5	〃 PCM 2.0 〃 PCM — 〃 9L 1.8 〃 9L 1.7 LP2
PN	7.7	〃 9L 3.0 〃 9L 1.4 〃 9L 1.6 〃 9L 1.7 〃
BN	4.9	BN 65L 2.9 PN PCM 2.0 ASD PCM — PY
BN	8.4	〃 5L 4.0 〃 9L 2.8 〃 9L 1.6 〃
BN	9.1	〃 65L 2.7 〃 9L 2.8 〃 9L 1.4 〃 9L 2.2 BS
BN	9.0	〃 9L 1.5 〃 9L 2.8 〃 9L 1.4 〃 9L 1.6 LP1 9L 1.7 LP2
PS	4.9	PS 9L 2.9 PN PCM 2.0 ASD PCM — PY
PS	8.3	〃 65L 3.9 〃 9L 2.8 〃 9L 1.6 〃
PS	9.4	〃 65L 4.0 〃 PCM 2.0 〃 PCM — 〃 65L 3.4 BS
PS	8.4	〃 9L 2.9 〃 PCM 2.0 〃 PCM — 〃 9L 1.8 LP1 9L 1.7 LP2
SPK	2.0	SPK PCM 2.0 PS PCM — PN PCM — ASD PCM — PY
ON	4.5	ON 9L 2.5 PN PCM 2.0 ASD PCM — PY
LB	2.0	LB PCM 2.0 PV PCM — ON PCM — PN PCM — ASD PCM — PY
PN	5.9	PN 65L 5.9 ASD
PN MC	5.9	〃 65L 5.9 〃
PS	8.4	PS 9L 2.7 PN 65L 5.7 ASD
PN	4.6	PN PCM 2.0 ASD PCM — PY 9L 2.2 NW 9L 0.4 BK
PN	6.0	〃 PCM 2.0 〃 PCM — 〃 9L 2.3 〃 9L 1.7 NW
BN	10.7	BN 5L 4.2 PN PCM 2.0 ASD PCM — PY 65L 4.1 NW 65L 0.4 BK

DESTINATION OFFICE	(VE)-1 CABLE	(VE)-1 PCM	(VE)-2 CABLE	(VE)-2 PCM	(VE) CABLE	(VE) PCM	○ CABLE	○ PCM
PY		△60		△60				
PY		△24		△24				
PY				°130				
PY TO 1				°204				
BS		△38		△38				
NN		△25		△25				
IM	PN	△43	ASD	△43	PY			
LP1		△36		△36				
LP2		△36		△36				
LP2		× 6		× 6				
PY		△48		△48				
PY		× 14		× 14				
BS	PN	× 13	ASD	× 13	PY			
LP2		× 6		× 6				
PY		△30		△30				
PY		× 12		× 12				
SS	PN	× 6	ASD	× 6	PY			
LP2		× 12		× 12				
PY	PN	△25	ASD	△25	PY			
PY	PN	△22	ASD	△22	PY			
PY	PN	△7	ASD	△7	PY			
ASD	PN	△55	ASD					
ASD		△9						
ASD	PN	× 6	ASD					
BK	PN	◇37	ASD	△37	PY			
NW		△67		△67				
BK	PN	× 6	ASD	× 6	PY			
TOTAL		°204		°204				
		°130		°130				
		△148	◇414	△84	◇414			
		× 57	× 24	× 61	× 24			
GRAND TOTAL		205	772	135	772			

NO 29



TRANSMISSION ROUTE

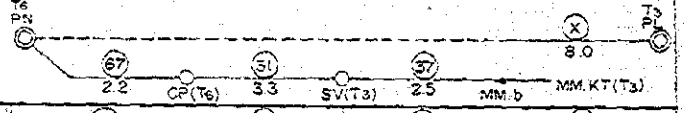


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	VF-1 CABLE	VF-1 PCM	VF-2 CABLE	VF-2 PCM	VF CABLE	VF PCM	CABLE	PCM
PN	2.0	PN PCM 2.0 ASD PCM – PY PCM – LS	LS		△34		△34		△34		
PN	2.0	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃	LS		△15		△15		△15		
PN	2.0	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃	LS		*139		*139		*139		
PN MC	2.0	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃	SMC		* 15		* 15		* 15		
PN	4.7	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 9L 2.7 DM	DM		△36		△36		△36		
PN	2.0	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 PCM – 〃 PCM – RS	RS		△10		△10		△10		
PN	2.0	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 PCM – 〃 PCM – 〃 PCM – NWN	NWN		△13		△13		△13		
PN	5.1	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 9L 3.1 RID	RID		△41		△41		△41		
PN	5.1	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 9L 3.1 〃	RID		× 6		× 6		× 6		
PN	2.0	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 PCM – RID PCM – BSN	BSN	PN	△19	ASD	△19	PY	△19	LS	
PN MC	2.0	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 PCM – 〃 PCM –	BSN		△ 3		△ 3		△ 3		
PN 9L	2.0	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 PCM – 〃 PCM –	BSN		* 26		* 26		* 26		
PN	2.0	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 PCM – 〃 PCM – 〃 PCM – NC	NC		△ 5		△ 5		△ 5		
PN MC	2.0	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 PCM – 〃 PCM – 〃 PCM – 〃	NC		△ 2		△ 2		△ 2		
PN	6.0	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 5L 4.0 CW	CW		△21		△21		△21		
PN	5.5	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 9L 1.4 〃 9L 2.1 PK	PK		△ 9		△ 9		△ 9		
PN	2.0	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 PCM – 〃 PCM – 〃 PCM – PT	PT		△11		△11		△11		
BN	4.9	BN 65L 2.9 PN PCM 2.0 ASD PCM – PY PCM – LS	LS		△37		△37		△37		
BN	6.0	〃 65L 2.9 〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 9L 3.1 RID	RID	PN	× 7	ASD	× 7	PY	× 7	LS	
PS	4.9	PS 9L 1.4 BN 9L 1.5 PN PCM 2.0 ASD PCM – PY PCM – LS	LS		△22		△22		△22		
PS	9.1	〃 65L 2.5 〃 9L 1.5 〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 9L 3.1 RID	RID	PN	× 6	ASD	× 6	PY	× 6	LS	
SPK	2.0	SPK PCM 2.0 PS PCM – PN PCM – ASD PCM – PY PCM – LS	LS	PN	△18	ASD	△18	PY	△18	LS	
ON	4.5	ON 9L 2.5 PN PCM 2.0 ASD PCM – PY PCM – LS	LS	PN	△18	ASD	△18	PY	△18	LS	
LB	5.9	LB PCM 2.0 PV PCM – ON PCM – PN PCM – ASD PCM – PY 9L 3.9 LS	LS	PN	△ 6	ASD	△ 6	PY	△ 6	LS	
			TOTAL		*139		*139		*139		
					* 41		* 41		* 41		
					△320		△320	△ 6	△314		
					× 19		× 19		× 19		
			GRAND TOTAL		519		519	6	513		

NO. 30

PN (T6) — except CP MM KC — T3 (except ASD)

TRANSMISSION ROUTE

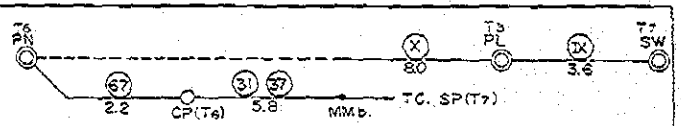


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	67 CABLE	67 PCM	3L CABLE	3L PCM	37 CABLE	37 PCM	X CABLE	X PCM
PN	4.8	PN 6.5L 4.8 PL	PL							△ 10.4	
PN	4.8	" 6.5L 4.8 "	PL							△ 2.1	
PN	2.0	" PCM 2.0 "	PL								° 12.1
PN	9.7	" 6.6NL 9.7 "	PL							X 3.6	
PN	5.1	" 5L 2.1 CP 5L 3.0 SV	SV	△ 3.8		△ 3.8					
PN	6.3	" 5NL 3.3 " 5NL 3.0 "	SV	X 2.0		X 2.0					
PN MC	5.1	" 5L 2.1 " 5L 3.0 "	SV	PN △ 5	CP	△ 5	SV		MM b		PL
PN	6.3	" 9L 0.8 " 6.5L 1.8 " 6.5L 1.4 MM 6.5L 2.3 MM	MM	△ 3.2		△ 3.2		△ 3.2			
PN	8.5	" 5L 2.1 " 5L 2.8 " 6.5L 1.4 " 6.5L 2.3 "	MM	X 7		X 7		X 7			
PN MC	6.3	" 9L 0.8 " 6.5L 1.8 " 6.5L 1.4 " 6.5L 2.3 "	MM	△ 5		△ 5		△ 5			
PN	5.9	" 9L 0.8 " 9L 1.0 " 9L 0.7 " 9L 1.1 " 6.6L 2.3 KT	KT	△ 4.2		△ 4.2		△ 4.2			
PN	10.2	" 6.5L 1.4 " 6.5L 1.8 " 6.6L 1.4 " 6.5L 2.3 " 9NL 3.3 "	KT	X 8		X 8		X 8			
PN MC	5.9	" 9L 0.8 " 9L 1.0 " 9L 0.7 " 9L 1.1 " 6.5L 2.3 "	KT	△ 5		△ 5		△ 5			
BN	5.2	BN 6.5L 2.7 PN 9L 2.5 PL	PL							△ 5.2	
BN	8.6	" 5L 4.0 " 6.5L 4.6 "	PL							X 3.2	
BN	8.9	" 5L 4.0 " 5L 1.9 CP 5L 3.0 SV	SV	X 1.7		X 1.7					
BN	8.2	" 9L 1.5 " 6.5L 1.2 " 6.5L 1.8 " 6.5L 1.4 MM 6.5L 2.3 MM	MM	PN X 1.4	CP	X 1.4	SV	X 1.4	MM b		PL
BN	8.4	" 6.5L 2.7 " 9L 0.6 " 9L 1.0 " 9L 0.7 " 9L 1.1 " 6.5L 2.3 KT	KT	X 1.6		X 1.6		X 1.6			
PS	5.2	PS 9L 2.7 PN 9L 2.5 PL	PL							△ 2.6	
PS	10.8	" 9NL 3.5 BN 6.5L 2.7 PN 6.5L 4.6 PL	PL							X 3.0	
PS	8.7	" 6.5L 5.0 PN 9L 0.7 CP 5L 3.0 SV	SV	X 1.4		X 1.4					
PS	8.8	" 9L 2.7 " 9L 0.6 " 6.5L 1.8 " 6.5L 1.4 MM 6.5L 2.3 MM	MM	PN X 1.5	CP	X 1.5	SV	X 1.5	MM b		PL
PS	9.4	" 9L 1.4 BN 9L 1.3 PN 9L 1.6 " 9L 0.7 " 9L 1.1 " 6.5L 2.3 KT	KT	X 1.7		X 1.7		X 1.7			
SPK	4.7	SPK PCM 2.0 PN 9L 2.7 PL	PL							△ 3.3	
SPK	9.1	" 9L 4.5 " 6.5L 4.6 "	PL							X 1.2	
SPK	8.3(5.9)	" PCM 2.0 " 9L 0.8 CP 6.5L 1.8 SV 6.5L 1.4 MM 6.5L 2.3 MM	MM	PN X 6	CP	X 6	SV	X 6	MM b		PL
SPK	8.3(5.9)	" PCM 2.0 " 6.5L 1.4 " 6.5L 1.8 " 9L 0.7 " 9L 1.1 " 9L 1.3 KT	KT	X 6		X 6		X 6			
SPO	4.7	SPO PCM 2.0 PN 9L 2.7 PL	PL	PN						△ 6	PL
ON	4.8	ON 9L 2.3 PN 9L 2.5 PL	PL	PN						△ 3.1	PL
LB	2.0	LB PCM 2.0 PV PCM - ON PCM - PN PCM - PL	PL	PN							△ 9 PL
											° 12.1
			TOTAL	△ 27		△ 27		△ 8.4		△ 27.3	△ 9
				X 14.0		X 14.0		X 8.9		X 11.0	
			GRAND TOTAL	267		267		173		383	130

NO. 31

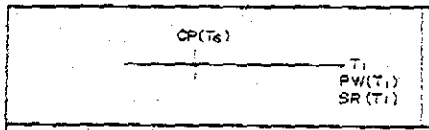
(T6) PN ——— T7
except CP
HM.KC

TRANSMISSION ROUTE

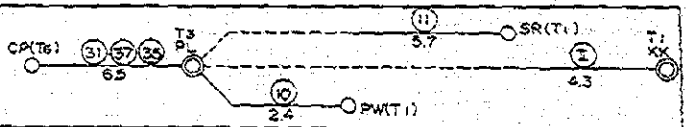


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	(67) CABLE	(67) PCM	(31)(37) CABLE	(31)(37) PCM	(X) CABLE	(X) PCM	(IX) CABLE	(IX) PCM
[PN]	5.8	PN 65L 4.6 PL 9L 1.2 SW	SW					△141		△141	
PN	5.8	〃 65L 4.6 〃 9L 1.2 〃	[SW]					△21		△21	
PN	7.9	〃 65L 4.6 〃 5L 3.3 〃	SW					×18		×18	
[PN]	2.0	〃 PCM 2.0 〃 PCM – 〃	[SW]						°155		°155
[PN]	3.7	〃 9L 2.5 〃 9L 1.2 〃	[SW] "13"					△51		△51	
[PN]	5.1	〃 9L 0.8 CP 9L 0.9 SV 9L 0.7 MMb 9L 1.1 MM 9L 1.6 SP	SP	△35		△35					
[PN]	4.6	〃 9L 0.8 〃 9L 1.0 〃 9L 0.7 〃 9L 1.1 〃 9L 0.7 〃 9L 0.3 TC	TC	△65		△65					
[PN]	5.2	〃 9L 2.5 PL 9L 1.0 SW 9L 1.7 TK	TK					△30		△30	
[PN] MC	5.4	〃 9L 0.8 CP 65L 1.8 SV 9L 1.8 MM 9L 1.0 TC	TC	△9		△9					
[PN] MC	5.1	〃 9L 0.8 〃 9L 0.9 〃 9L 1.8 〃 9L 1.6 SP	SP	△4		△4					
[PN] MC	5.2	〃 9L 2.5 PL 9L 1.0 SW 9L 1.7 TK	TK					△4		△4	
BN	6.0	BN 9L 1.5 PN 9L 2.3 PL 65L 2.2 SW	[SW]					△54		△54	
BN	8.1	〃 9L 1.5 〃 65L 4.4 〃 65L 2.2 〃	SW					×51		×51	
PS	6.0	PS 65L 2.5 BN 9L 1.5 PN PCM 2.0 PL PCM – SW	[SW]						△45		△45
PS	8.3	〃 9L 1.4 BN 9L 1.3 〃 65L 4.4 〃 9L 1.2 〃	SW					×27		×27	
PS	9.3	〃 9L 1.4 〃 9L 1.5 〃 PCM 2.0 〃 PCM – 〃 5L 4.4 TC	TC						×6		×6
SPK	2.0	SPK PCM 2.0 PN PCM – PL PCM – SW	[SW]						△31		△31
SPK	8.8(6.0)	〃 PCM 2.0 〃 65L 4.6 〃 65L 2.2 〃	SW					×18		×18	
ON	5.8	ON 9L 2.3 〃 9L 2.3 〃 9L 1.2 〃	[SW]					△23		△23	
LS	4.4	LS PCM 2.0 〃 PCM – 〃 65L 2.4 〃	[SW]						△7	△7	
			TOTAL	△113 ×		△113 ×		△324 ×114	°155 △83 ×6	△331 ×114	°155 △76 ×6
			GRAND TOTAL	113		113		438	244	445	237

NO. 32



TRANSMISSION ROUTE

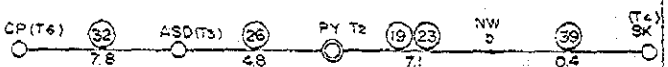


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	31 37 35 CABLE	31 37 35 PCM	10 CABLE	10 PCM	11 CABLE	11 PCM	III CABLE	III PCM
C P	5.2	CP 65L 2.0 SV 65L 1.8 PL 9L 1.4 KK	K K	△ 36						△ 36	
C P	7.7	" 65L 2.0 " 65L 1.8 " 5L 3.9 "	K K	× 100						× 100	
C P	3.5	" 9L 1.1 " 9L 1.0 " 9L 1.4 "	OTO	• 12						• 12	
C P	8.6	" 65L 2.0 " 65L 1.8 " 5L 3.7 " 9L 1.1 SS	S S	× 24						× 24	
C P	8.7	" 65L 2.0 " 65L 1.8 " 65L 2.4 " 9L 0.9 " 65L 1.6 SP	S P	× 30						× 30	
C P	9.6	" 5L 3.0 " 5L 2.9 " 5NL 3.7 PW	P W	× 112		× 112					
C P	10.9	" 65L 2.0 " 65L 2.0 " 65NL 6.9 SR	S R	× 208				× 208			
				• 12						• 12	
			TOTAL	△ 36						△ 36	
				× 474		× 112		× 208		× 154	
			GRAND TOTAL	522		112		208		202	

NO. 33

CP(T6) — T2 — ASD(T3) BK NW (T4)

TRANSMISSION ROUTE

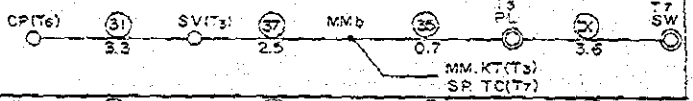


TANDEM ↓ OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	32 CABLE	32 PCM	26 CABLE	26 PCM	19 23 CABLE	19 23 PCM	39 CABLE	39 PCM
C P	5.3	CP 9L 2.4 ASD 6SL 2.9 PY	PY	△ 32		△ 32					
C P	7.4	" 6SL 4.5 " 6SL 2.9 "	PY	X 56		X 56					
C P	7.9	" 6SL 4.5 " 9L 1.4 " 6SL 2.0 IM	IM	X 12		X 12					
C P	8.3	" 9L 2.4 " 6SL 2.7 " 6SL 2.2 S^S 9L 1.0 BS	BS	X 12		X 12					
C P	8.4	" 9L 2.4 " 6SL 2.7 " 6SL 2.1 $L6^P$ 6SL 1.2 LP1	LP1	CP X 30		ASD X 30		PY		NW b	BK
C P	8.6	" 9L 2.4 " 9L 1.4 " 6SL 2.1 " 6SL 1.0 " 9L 1.7 LP2	LP2	X 36		X 36					
C P	9.4	" 6SNL 9.4 "	ASD	X 54							
C P	8.3	" 6SL 4.5 " 9L 1.4 PY 9L 2.0 NW 9L 0.4 BK	BK	X 30		X 30		X 30		X 30	
C P	7.7	" 9L 2.5 " 9L 1.4 " 9L 2.0 " 9L 1.8 NW	NW	X 12		X 12		X 12			
			TOTAL	△ 32 X 242		△ 32 X 188		X 42		X 30	
			GRAND TOTAL	274		220		42		30	

NO. 34

CP(T6) — T4 T5 T7

TRANSMISSION ROUTE



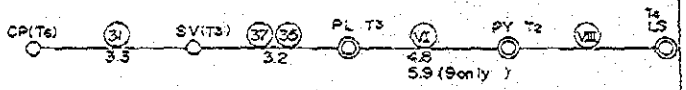
TANDEM OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS
C P	5.9	CP 5L 3.0 SV 5L 2.1 MM 5L 0.8 PL
C P	9.9	" 5NL 5.0 " 5NL 3.8 " 5NL 1.1 "
C P	5.0	" 5NL 5.0 "
C P	8.9	" 5NL 5.0 " 65L 1.5 MM 65L 2.3 MM
C P	10.0	" 5NL 5.0 " 65L 1.5 " 65L 2.1 " 9L 1.3 KT
C P	6.0	" 65L 2.0 " 65L 1.4 " 65L 0.4 PL 65L 2.2 SW
C P	6.0	" 65L 2.0 " 5L 2.1 " 5L 0.6 " 5L 3.3 "
C P	10.2	" 65L 2.0 " 65L 1.4 " 65L 2.4 MM 9NL 2.1 SP 9NL 2.3 SP
C P	9.3	" 5L 3.0 " 65L 1.4 " 65L 2.4 " 9NT 2.1 " 9NT 0.4 TC

DESTINATION OFFICE	(31) CABLE	(31) PCM	(37) CABLE	(37) PCM	(35) CABLE	(35) PCM	(X) CABLE	(X) PCM
PL		△ 48		△ 48		△ 48		
P L		× 180		× 180		× 180		
S V		× 88						
M M		× 60		× 60				
K T		× 58		× 58				
S W	CP	△ 50	SV	△ 50	MM.	△ 50	PL	△ 50 SW
S W		× 186		× 186		× 186		× 186
S P		× 12		× 12				
T C		× 30		× 30				
TOTAL		△ 98		△ 98		△ 98		△ 50
		× 614		× 526		× 366		× 186
GRAND TOTAL		712		624		464		236

NO. 35

CP(T6) ——— Ta

TRANSMISSION ROUTE

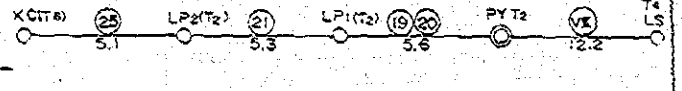


TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	(31) CABLE	(31) PCM	(37)(35) CABLE	(37)(35) PCM	(VI) CABLE	(VI) PCM	(VII) CABLE	(VII) PCM
CP	6.0	CP 65L 2.0 SV 65L 2.0 PL PCM 2.0 PY PCM – LS	LS	△ 38		△ 38		△ 38		△ 38	
CP	8.7	– 65L 2.0 – 65L 2.0 – PCM 2.0 – PCM – – 9L 2.7 DM	DM	× 28		× 28		× 28		× 28	
CP	9.1	– 65L 2.0 – 65L 2.0 – PCM 2.0 – PCM – – 9L 3.1 RIO	RIO	× 30		× 30		× 30		× 30	
				CP		SV		PL		PY	LS
			TOTAL	△ 38		△ 38		△ 38		△ 38	
				× 58		× 58		× 58		× 58	
			GRAND TOTAL	96		96		96		96	

NO. 36

KC(T6) — T2 RIC(T4) — HM(T6) — LP2 LP1

TRANSMISSION ROUTE



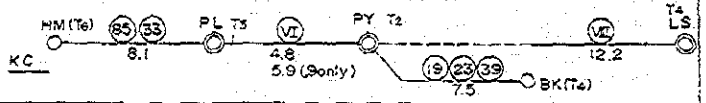
TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS
K C	2.0	KC PCM 2.0 LP2 PCM – LP1 PCM – PY
K C	2.0	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃
K C	6.0	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 65NL 4.0 IM
K C	5.4	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 65L 2.4 SS 9L 1.0 BS
K C	6.4	〃 9L 1.9 – 9L 4.5 〃
K C	1.9	〃 9L 1.9 〃
H M	10.0	HM 65L 3.8 KC 9L 1.7 LP2 9NL 4.5 LP1
H M	3.5	〃 65L 3.8 〃 9L 1.7 〃
K C	6.5	KC PCM 2.0 LP2 PCM – LP1 PCM – PY 65L 4.5 BK
K C	6.0	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 9L 2.3 NW 9L 1.7 NW
K C	5.9	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 9L 3.9 LS
K C	8.2(5.8)	〃 PCM 2.0 〃 PCM – 〃 PCM – 〃 9L 3.7 〃 9L 2.5 DM

DESTINATION OFFICE	(25) CABLE	(25) PCM	(21) CABLE	(21) PCM	(19)(20) CABLE	(19)(20) PCM	(VK) CABLE	(VK) PCM
PY		△ 41		△ 41		△ 41		
PY		× 46		× 46		× 46		
I M		× 18		× 18		× 18		
S S		× 28		× 28		× 28		
LP1	KC × 17		LP2 × 17		LP1		PY	
LP2	KC × 44							
LP1	× 18		× 18					
LP2	KC × 29		LP2		LP1		PY	
B K		× 38		× 38		× 38		
N W		× 17		× 17		× 17		
L S		△ 43		△ 43		△ 43	PY △ 43	LS
D M	KC	× 18	LP2	× 18	LP1	× 18	PY × 18	
TOTAL		△ 84		△ 84		△ 84	△ 43	
	× 108	× 165	× 35	× 165		× 165	× 18	
GRAND TOTAL	108	249	35	249		249	61	

NO. 37

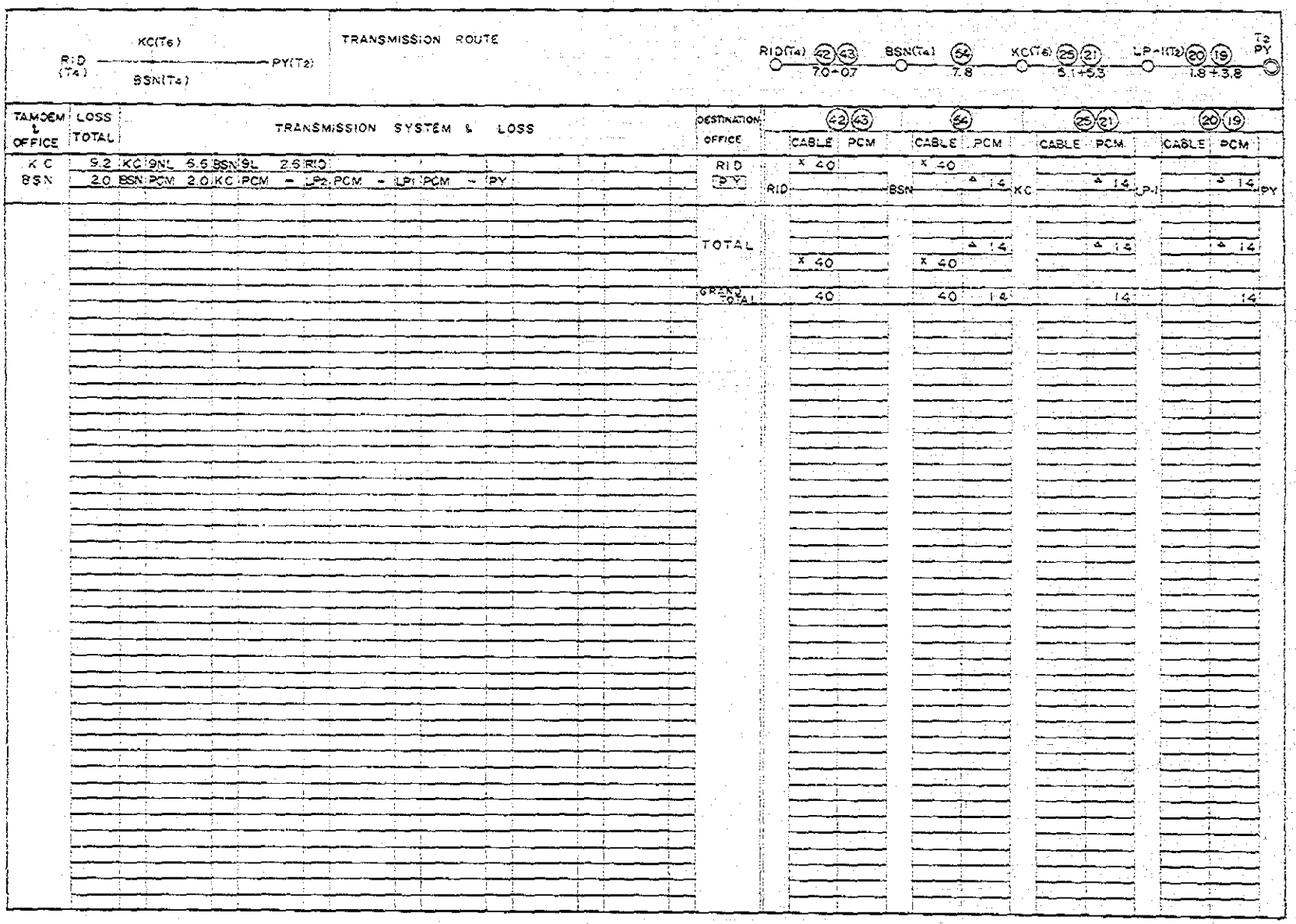
KC(T6) — HM(T6) — T3 T4

TRANSMISSION ROUTE



TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	85 33 CABLE	85 33 PCM	VF CABLE	VF PCM	19 23 39 CABLE	19 23 39 PCM	VF CABLE	VF PCM
K C	4.6	KC 9L 2.1 HM 9L 2.5 PL	PL	△ 53							
K C	8.5	" 65L 3.8 " 65L 4.7 "	PL	x 38							
K C	8.6	" 9L 2.1 " 65L 4.5 " 65L 2.0 SV	SV	x 14							
K C	8.4	" 9L 2.1 " 9L 2.3 " 5L 4.0 ASD	ASD	x 13							
K C	10.7	" 9L 2.1 " 65L 4.7 " 9NL 3.9 MM	MM	x 6							
K C	10.4	" 9L 2.1 " 9L 2.3 " 65L 2.7 " 9NL 3.3 KT	KT	x 13							
H M	4.9	HM 65L 4.9 PL	PL	△ 15							
H M	9.8	" 65NL 9.8 "	PL	x 65							
H M	9.8	" 65L 4.9 " 5NL 4.9 SV	SV	x 29							
H M	8.7	" 65L 4.7 " 5L 4.0 ASD	ASD	x 40							
H M	10.5	" 65L 4.9 " 65NL 5.6 MM	MM	x 17							
H M	10.7	" 65L 4.7 " 65L 2.7 " 9NL 3.3 KT	KT	x 18							
H M	4.7	HM 9L 2.7 PL PCM 2.0 PY PCM — LS	LS	△ 28			△ 28				△ 28
H M	8.8	" 65L 4.7 " 9L 1.7 " 9L 2.4 BK	BK	x 15		x 15		x 15			
H M	7.8	" 9L 2.7 " PCM 2.0 " PCM — LS 9L 3.1 RID	RID	x 19			x 19				x 19
			TOTAL	△ 96			△ 28				△ 28
				x 287		x 15	x 19	x 15			x 19
			GRAND TOTAL	383		15	47	15			47

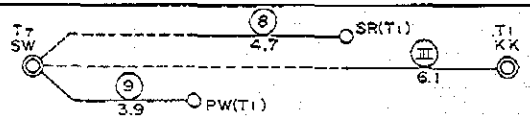
NO. 38


KC(T6)
RID (T4)
PY(T2)
BSN(T4)
TRANSMISSION ROUTE
RID(T4) 42 43 BSN(T4) 54 KC(T6) 25 21 LP-1(T2) 20 19 T2 PY
7.0+0.7
7.8
5.1+5.3
1.8+3.8
TANDEM & OFFICE
LOSS TOTAL
TRANSMISSION SYSTEM & LOSS
KC 9.2 KC-BSN 5.6 BSN-RID 2.6 RID
BSN 2.0 BSN-PCM 2.0 KC-PCM - LP2-PCM - LP1-PCM - PY
DESTINATION OFFICE
RID
PY
TOTAL
GRAND TOTAL
42 43
54
25 21
20 19
CABLE PCM
X 40
Δ 14
RID
BSN
KC
LP-1
PY
40
14

NO. 39

(T7) SW —— T1

TRANSMISSION ROUTE



TANDEM & OFFICE	LOSS TOTAL	TRANSMISSION SYSTEM & LOSS	DESTINATION OFFICE	9 CABLE	9 PCM	8 CABLE	8 PCM	III CABLE	III PCM	○ CABLE	○ PCM
SW	5.6	SW (65L) 5.6 KK	KK					△ 50			
SW	5.6	" (65L) 5.6 "	KK					△ 54			
SW	9.3	" (5NL) 9.3 "	KK					× 288			
SW	2.2	" 9L 2.2 "	KK					○ 71			
SW	3.8	" 65L 3.8 "	KK TOLL					○ 199			
SW	3.8	" 65L 3.8 "	OTO					○ 34			
SW "13"	5.6	" (65L) 5.6 "	KK					△ 57			
SW	5.6	" (65L) 5.6 "	KK MC					△ 19			
SW	5.5	" 65L 3.6 " 65L 1.9 SS	SS	SW		PW		SR △ 28		KK	
SW	11.0	" 65NL 7.4 " 65NL 3.6 "	SS					× 63			
SW	5.3	" 9L 2.0 " 65L 1.7 " 65L 1.6 BP	BP					△ 20			
SW	10.2	" 65L 3.6 " 5L 2.8 " 5NL 3.8 "	BP					× 83			
SW	5.9	" 5NL 5.9 PW	PW		△ 60						
SW	5.9	" 5NL 5.9 "	PW		× 368						
SW	4.4	" 5L 4.4 SR	SR				△ 108				
SW	7.1	" 5L 7.1 "	SR				× 720				
SP	7.9 (4.6)	SP 9L 1.0 SP 9L 0.6 MM 5L 2.7 SW 65L 3.6 KK	KK					△ 39			
SP	6.3 (4.1)	" 9L 1.0 " 9L 0.6 " 5L 2.7 " 9L 2.0 "	KK TOLL	SW				○ 21		KK	
SP	6.3 (4.1)	" 9L 1.0 " 9L 0.6 " 5L 2.7 " 9L 2.0 "	OTO					○ 5			
TC	6.2	TC 5L 1.9 TK 5L 2.3 SW 9L 2.0 KK	KK					△ 24			
TC	7.8	" 5L 1.9 " 5L 2.3 " 65L 3.6 "	KK					× 54			
TC	6.2 (4.2)	" 5L 1.9 " 5L 2.3 " 9L 2.0 "	KK TOLL					○ 54			
TC	6.2 (4.2)	" 5L 1.9 " 5L 2.3 " 9L 2.0 "	OTO					○ 11			
TC	9.8	" 5L 1.9 " 5L 2.3 " 9L 2.0 " 65NL 3.6 SS	SS	SW		PW		SR × 6		KK	
TC	10.1	" 5L 1.9 " 5L 2.3 " 9L 1.8 " 9L 1.1 " 65NL 3.0 BP	BP					× 12			
TC	10.3	" 5L 1.9 " 5L 2.5 " 5NL 5.9 PW	PW		× 59						
TC	8.4	" 5L 1.9 " 5L 2.3 " 5L 4.2 SR	SR				× 112				
TK	5.3	TK 9L 1.0 TK 9L 0.7 SW 65L 3.6 KK	KK					△ 32			
TK	3.7	" 9L 1.0 " 9L 0.7 " 9L 2.0 "	KK TOLL					○ 21			
TK	3.7	" 9L 1.0 " 9L 0.7 " 9L 2.0 "	OTO	SW		PW		○ 5		KK	
TK	10.8	" 5L 2.4 " 5L 2.5 " 5NL 5.9 PW	PW		× 12						
									○ 71		
			TOTAL						= 350		
					△ 60		△ 108		△ 323		
					× 439		× 832		× 506		
			GRAND TOTAL		499		940		1250		

NO. 40

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T7	TANONTOK (TK) NO. 1	TK (81) TKb (90) SW (80) TKb (82) TC; 2.6, 2.7, 2.7, 2.0

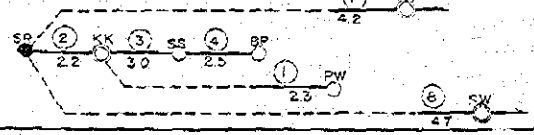
KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)				NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (81)	(90)	(80)	(82)
TDM	T1	KK	5.3 / 1154	TK 9L 1.7 / 370	SW 65L 3.6 / 784 KK		KK	TK Δ32	TKb Δ32	SW —	
TOLL	T1	KK	3.7 / 791	9L 1.7 / 370	9L 2.0 / 421		KK	• 21	• 21	—	
OTD	T1	KK	3.7 / 791	9L 1.7 / 370	9L 2.0 / 421		KK	• 5	• 5	—	
DIRECT	T1	PW	10.8 / 1181	5L 4.9 / 1080	5NL 5.9 / 731 PW		PW	x 12	x 12	—	
TDM	T2	PY	3.9 / 1302	TK 9L 1.7 / 370	SW 65L 4.2 / 932 PY		PY	TK Δ21	TKb Δ21	SW —	
TOLL	T2	PY	4.0 / 868	9L 1.7 / 370	9L 2.3 / 498		PY	• 24	• 24	—	
TDM	T3	PL	5.0 / 1093	TK 9L 1.7 / 370	SW 5L 3.3 / 723 PL		PL	TK Δ21	TKb Δ21	SW —	
DIRECT	T3	MM	9.8 / 1680	TK 5L 4.9 / 1080	SW 5NL 4.9 / 600 MM		MM	x 13	x 13	—	
DIRECT	T3	KT	9.7 / 1472	TK 9NL 4.5 / 314	SW 5L 2.9 / 646 MM	65L 2.3 / 512 KT	KT	x 6	x 6	—	
TDM	T4	LS	3.5 / 400	TK 9L 1.9 / 400	SW PCM 2.0 LS		LS	TK Δ18	TKb Δ18	SW —	
TDM	T5	TH	6.1 / 1343	TK 9L 1.7 / 370	SW 5L 4.4 / 973 TH		TH	TK Δ29	TKb Δ29	SW —	
DIRECT	T5	TH	9.1 / 1317	9NL 4.5 / 314	5L 4.6 / 1003		TH	x 16	x 16	—	
TDM	T6	PN	5.2 / 1144	TK 9L 1.7 / 370	SW 9L 1.0 / 231 PL	9L 2.5 / 543 PN	PN	TK Δ30	TKb Δ30	SW —	
MC	T6	PN	5.2 / 1144	9L 1.7 / 370	9L 1.0 / 231	9L 2.5 / 543	PN	Δ4	Δ4	—	
TDM	T7	SW	1.9 / 400	TK 9L 1.9 / 400 SW			SW	TK • 244	TKb • 244	SW	
DIRECT	T7	SW	8.1 / 994	5NL 8.1 / 994			SW	x 69	x 69		
DIRECT	T7	TC	8.9 / 1984	TK 5L 4.7 / 1050	SW 5L 4.2 / 934 TC		TC	x 16	x 16	16	TKb x 16 TC

NO. 41

CIRCUIT ASSEMBLY LIST

SR 1/2

TANDEM	OFFICE	TRANSMISSION ROUTE
T1	SAMRANRAT (S R) NO. 2	

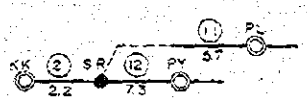


KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (2) (3) (4) (1) (7) (6)
TDM		KK	3.3 / 413 SR	SNL 3.3 / 413 KK	KK SR * 776 KK
TOLL		KK	3.3 / 413	SNL 3.3 / 413	KK " * 220 "
OTD		KK	3.3 / 413	SNL 3.3 / 413	KK " * 36 "
M C		KK	3.3 / 413	SNL 3.3 / 413	KK " △ 20 "
DIRECT	T1	KK	3.3 / 413	SNL 3.3 / 413	KK " X 432 "
		SS	7.9 / 976	SNL 3.3 / 413 , SNL 4.6 / 563 SS	SS " X 112 " X 112 SS
		BP	10.7 / 1238	SNL 3.3 / 413 , SNL 3.6 / 356 , SNL 3.8 / 469 BP	BP " X 152 " X 152 " X 152 BP
		PW	6.8 / 844	SNL 3.3 / 413 , SNL 3.5 / 431 PW	PW " X 484 " X 484 PW
TDM		TH	4.0 / 868 SR	SL 4.0 / 868 TH	TH SR △ 140 TH
DIRECT	T5	TH	6.4 / 788	SNL 6.4 / 788	TH " X 216 "
		DK	10.3 / 1637	SNL 6.4 / 788 , SL 3.9 / 849 DK	DK " X 104 " —
		PD	10.2 / 1592	SNL 6.4 / 788 , SL 1.4 / 293 , SL 2.4 / 511 PD	PD " X 108 " —
		CN	11.0 / 1791	SNL 6.4 / 788 , SL 4.6 / 1003 CN	CN " X 108 " —
		BC	9.7 / 1502	SNL 6.4 / 788 , SL 3.3 / 714 BC	BC " X 92 " —
TDM		SW	4.4 / 964 SR	SL 4.4 / 964 SW	SW SR △ 108 SW
DIRECT	T7	SW	7.1 / 881	SNL 7.1 / 881	SW " X 720 "
		TC	9.4 / 1868	SL 4.2 / 934 , SL 4.2 / 934 TC	TC " X 112 " —

NO. 42

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T1	SAMRANRAT (S R) NO. 2	



KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (2) (2) (1)
TDM	T2	PY	44 962 SR	6.5L 44 962 PY	PY SR Δ 86 PY
TOLL	T2	PY	13.7 44 50+962 SR	6.5L 44 962 PY	PY " " 256 "
DIRECT	T2	PY	11.0 " 1369 "	4W 11.0 1369 PY	PY " " X 248 "
DIRECT	T2	LP1	7.5 1634 "	6.5L 4.2 932 " 6.5L 3.3 722 LP1	LP1 " " X 60 —
DIRECT	T2	LP2	9.0 1994 "	6.5L 4.2 932 " 5.5L 3.1 692 9L 1.7 370 LP2	LP2 " " X 64 —
DIRECT	T2	BS	3.9 1399 "	5NL 7.3 KK 413 5NL 4.6 SS 563 9L 2.0 BS 413	BS KK X 80
TDM	T3	PL	5.3 1157 SR	5L 5.3 PL 1157	PL SR Δ 60 PL
DIRECT	T3	PL	8.7 1069 "	5NL 8.7 1069	PL " " X 396
DIRECT	T3	MM	7.8 1726 "	5L 5.1 " 6.5L 2.7 MM 1127 599	MM " " X 108 —
DIRECT	T3	KT	10.7 1797 "	6.5L 3.3 735 " 6.5L 2.7 599 " 6.5NL 4.7 KT 463	KT " " X 92 —
DIRECT	T3	SV	10.2 1757 "	5L 5.3 " 1157 " 5NL 4.9 SV 600	SV " " X 76 —
DIRECT	T3	ASD	7.3 1612 "	6.5L 3.3 " 735 " 5L 4.0 ASD 877	ASD " " X 152 —
TDM	T4	LS	5.3 1412 SR	5NL 3.3 KK 413 PCM 2.0 PY PCM — LS	LS KK Δ 86 SR
DIRECT	T4	BK	8.8 1946 "	5L 6.4 PY 1435 9L 2.4 BK 511	BK " " X 64 PY —
DIRECT	T4	NW	8.2 1808 "	6.5L 4.2 " 932 " 9L 2.2 " 481 9L 1.8 NW 395	NW " " X 68 —
DIRECT	T4	RID	8.4 413 / 663 "	5NL 3.3 KK 413 PCM 2.0 PY PCM — LS 9L 3.1 RID 663	RID KK X 52
DIRECT	T4	DM	6.0 861 "	5L 2.1 " 433 9L 1.9 " 408 PCM 2.0 " PCM — DM	DM " " X 56
TDM	T6	PN	5.6 1278 SR	6.5L 3.3 PL 735 9L 2.3 PN 543	PN SR Δ 164 PL —
DIRECT	T6	PN	7.9 1754 "	6.5L 3.3 " 735 " 6.5L 4.6 " 1019	PN " " X 24 —
DIRECT	T6	CP	10.9 1541 "	6.5NL 6.9 " 677 " 6.5L 2.0 SV 426 6.5L 2.0 CP 438	CP " " X 208 —
DIRECT	T6	MM	8.0 1766 "	6.5L 3.3 " 735 " 6.5L 4.7 MM 1031	MM " " X 80 —
DIRECT	T6	KC	7.7 1701 "	6.5L 3.3 " 735 " 9L 2.3 " 519 9L 2.1 KC 447	KC " " X 56 —
DIRECT	T6	BN	8.3 1934 "	6.5L 3.3 " 735 " 9L 2.3 PN 513 6.5L 2.7 BN 586	BN " " X 24 —
DIRECT	T6	PS	9.3 1829 "	6.5L 3.3 " 735 " 9L 2.3 " 513 9L 2.7 PS 581	PS " " X 52 —

CIRCUIT ASSEMBLY LIST

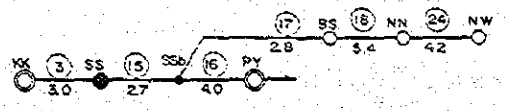
TANDEM	OFFICE	TRANSMISSION ROUTE
T1	SAMSEN (S S) NO.4	CN (14) 4.8 BP (4) 2.5 SS (3) 3.0 KK (2) 2.2 SR (1) 2.3 PW

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)							NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (14) (4) (3) (3) (1)	
TDM	T1	KK	3.6 SS 356	65NL 3.6 KK 356							KK	SS * 2.5 KK
TOLL		KK	3.6 " 356	65NL 3.6 " 356							KK	" * 3.3 "
OTD		KK	3.6 " 356	65NL 3.6 " 356							KK	" * 6 "
M C		KK	4.6 " 563	5NL 4.6 " 563							KK	" △ 5 "
DIRECT		SR	7.9 " 976	5NL 4.6 " 563	5NL 3.3 SR 413						SR	" X 1.12 " X 1.12 SR
		PW	8.1 " 994	5NL 4.6 " 563	5NL 3.5 PW 431						PW	" X 7.6 " X 7.6 PW
		BP	3.8 " 469	5NL 3.8 BP 469							BP	BP X 5.6 "
		KK	4.6 SS 563	5NL 4.6 KK 563							KK	" X 5.6 KK
TDM	T3	PL	5.8 SS 1258	65L 1.9 KK 401	5L 3.9 PL 857						PL	SS △ 2.7 KK
DIRECT		PL	9.3 " 1443	9L 3.0 " 637	5NL 6.3 " 806						PL	" X 5.9 "
		ASD	8.3 " 1809	65L 1.9 " 401	65L 2.4 " 53	5L 4.0 ASD 877					ASD	" X 1.7 "
		SV	8.5 " 1860	5L 2.8 " 607	5L 3.7 " 827	65L 2.0 SV 426					SV	" X 1.6 "
TDM	T5	TH	5.5 SS 1185	65L 1.9 KK 401	65L 3.6 TH 784						TH	SS △ 2.7 KK
DIRECT		TH	11.0 " 1080	65NL 3.6 " 356	65NL 7.4 " 724						TH	" X 3.2 "
		DK	10.9 " 1959	65NL 3.6 " 356	65L 3.6 " 784	5L 3.7 DK 819					DK	" X 1.2 "
		PD	10.8 " 1914	65NL 3.6 " 356	65L 3.6 " 784	9L 1.2 " 263	9L 2.4 PD 511				PD	" X 1.3 "
		CN	9.6 SS 1039	5NL 3.8 BP 469	65NL 5.8 CN 570						CN	CN X 2.3 BP X 2.3 SS
TDM	T4	PN	3.6 SS 1220	65L 1.9 KK 401	9L 1.2 PL 276	9L 2.5 PN 543					PN	SS △ 3.6 KK
DIRECT		BN	8.2 " 1805	9L 1.1 " 222	9L 1.2 " 276	65L 4.4 " 989	9L 1.5 BN 318				BN	" X 1.2 "
		PS	8.5 " 1847	9L 1.1 " 222	65L 2.4 " 531	9L 2.3 " 513	9L 2.7 PS 581				PS	" X 6 "
		CP	9.5 " 1882	9L 1.1 " 222	5L 3.7 " 827	65L 3.8 CP 833					CP	" X 2.4 "
		HM	9.0 " 1963	65L 1.5 " 401	65L 2.4 " 531	65L 4.7 HM 1031					HM	" X 1.6 "
		KC	8.7 " 1898	65L 1.9 " 401	65L 2.4 " 531	9L 2.3 " 519	9L 2.1 KC 447				KC	" X 1.8 "

CIRCUIT ASSEMBLY LIST

TANDEM: T1 — OFFICE: SAMSEN (SS) NO.4

TRANSMISSION ROUTE

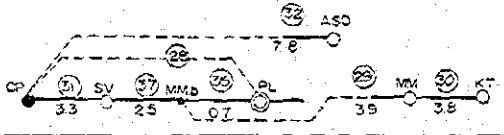


KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)									NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (3)	(15)	(16)	(17)	(18)	(24)
TOM	T2	PY	5.7 / 397 SS	9NL 5.7 / 397 PY									PY	SS ▲ 27	SS b ▲ 27	PY		
TOLL		PY	23 / 4901 "	9L 23 / 490 "									PY	" • 38	" • 38	"		
DIRECT		PY	5.7 / 397 "	9NL 5.7 / 397									PY	" x 62	" x 62	"		
		IM	10.7 / 1016 "	9NL 5.7 / 397 "	5NL 5.0 IM / 619								IM	" x 17	" x 17	" —		
		LP1	5.4 / 1182 "	9L 2.1 / 460 "	6SL 3.3 P / 722								LP1	" x 8	" x 8	" —		
		LP2	6.9 / 1522 "	9L 2.1 / 460 "	6SL 3.1 / 692 "	9L 1.7 LP / 370 12							LP2	" x 13	" x 13	" —		
		BS	4.7 / 326 "	9NL 4.7 BS / 326									BS	" x 37	"	- x 37	BS	
TOM	T4	LS	5.6 / 356 SS	6SNL 3.6 KK / 356	PCM 2.0 PY	PCM — LS							LS	KK ▲ 20	SS			
DIRECT		DM	5.8 / 809 "	6SL 1.9 / 40 "	9L 1.9 / 408 "	PCM 2.0 "	PCM — DM						DM	" x 23	"			
		RID	8.1 / 637/663 "	9L 3.0 / 637 "	PCM 2.0 "	PCM — "	9L 3.1 RD / 663						RID	" x 12	"			
		NW	7.2 / 1008 "	9L 1.8 BS / 383	9L 1.8 PY / 376	9NL 3.6 NW / 249							NW	" x 42	SS b	x 42	BS x 42	NN x 42 NW
		BK	6.4 / 1419 "	9L 2.1 PY / 460	6SL 4.3 BK / 959								BK	" x 25	" x 25	PY —		
TOM	T7	SW	5.5 / 185 SS	6SL 1.9 KK / 401	6SL 3.6 SW / 784								SW	KK ▲ 28	SS			
DIRECT		SW	11.0 / 1080 "	6SNL 3.6 / 356	6SNL 7.4 " / 724								SW	" x 63	"			
		TC	9.8 / 1711 "	6SNL 3.6 / 356 "	9L 2.0 / 421 "	3L 4.2 TC / 934							TC	" x 6	"			

NO. 45

CIRCUIT ASSEMBLY LIST

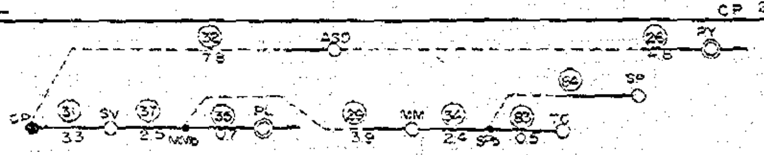
TANDEM: T6 | OFFICE: CHAIYAPRUK (CP) NO.9 | TRANSMISSION ROUTE



KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)									NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (31) (37) (33) (34) (29) (30) (28)
TDM	T1	KK	5.2 CP 1139	65L 3.8 PL 833	9L 1.4 KK 306								KK CP 36 SV 36 MM 5 36 PL —
DIRECT		KK	7.7 1690	65L 3.8 833	5L 3.9 857								KK 100 100 100 —
OTD		KK	3.5 753	9L 2.1 447	9L 1.4 306								KK 12 PL —
DIRECT		PW	8.6 1761	5L 5.9 311	5NL 3.7 PW 450								PW 12 SV 12 MM 5 12 PL —
		SR	10.3 1541	65L 2.0 SV 438	65L 2.0 PL 426	65NL 6.9 SR 677							SR 208 208 208 —
		SS	8.6 1882	65L 3.8 P 833	5L 3.7 KK 827	9L 1.1 SS 222							SS 24 24 24 —
		BP	8.7 1895	65L 3.8 833	65L 2.4 531	9L 0.9 192	65L 1.6 BP 339						BP 30 30 30 —
TDM	T3	PL	5.9 CP 1311	5L 3.0 SV 665	5L 2.1 MM P 481	5L 0.8 PL 195							PL CP 48 SV 48 MM 5 48 PL
DIRECT		PL	9.9 2219	5NL 5.0 619	5NL 3.8 469	5NL 1.1 131							PL 180 180 180
		SV	5.0 619	5NL 5.0 619									SV 88
		ASO	9.4 926	65NL 9.4 ASO 926									ASO 54 ASO
		MM	8.9 1470	5NL 5.0 SV 619	65L 1.6 MM P 339	65L 2.3 MM 512							MM 60 SV 60 MM 5 60 MM
		KT	10.0 1720	5NL 5.0 619	65L 1.6 339	65L 2.1 682	9L 1.3 KT 280						KT 58 58 58 KT 58

NO. 46

CIRCUIT ASSEMBLY LIST

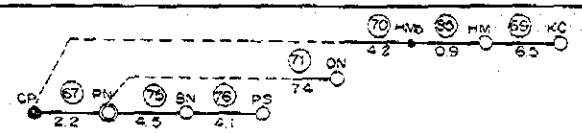
TANDEM	OFFICE	TRANSMISSION ROUTE
T5	CHAIYAPRUK (CP) NO. 9	

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)						NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS: 31	37	35	32	29	34	80	64	26	
TOM	T2	PY	5.3 / 1153	CP 9L 2.4 / 530	ASO 65L 2.9 / 623 PY				PY CP				Δ 32 ASO					Δ 32 PY	
DIRECT		PY	7.4 / 1617	65L 4.5 / 994	65L 2.9 / 623				PY				x 56					x 56	
		IM	7.9 / 1740	65L 4.5 / 994	9L 1.4 / 308	65L 2.0 / 438 IM			IM				x 12					x 12	—
		BS	8.3 / 1826	9L 2.4 / 530	65L 2.7 / 593	65L 2.2 / 494 BS b	9L 1.0 / 209 BS		BS				x 12					x 12	—
		LP1	8.4 / 1845	9L 2.4 / 530	65L 2.7 / 593	65L 2.1 / 459 LP b	65L 1.2 / 253 LP		LP1				x 30					x 30	—
		LP2	8.6 / 1900	9L 2.4 / 530	9L 1.4 / 308	65L 2.1 / 470	65L 1.0 / 222	9L 1.7 / 370 LP	LP2				x 36					x 36	—
TOM	T4	LS	6.0 / 854	CP 65L 2.0 / 438 SV	65L 2.0 / 426 PL	PCM 2.0 SY	PCM- LS		LS CP	Δ 38 SV	Δ 38 MM b	Δ 38 PL	—						
DIRECT		DM	8.7 / 864/ 565	65L 2.0 / 438	65L 2.0 / 425	PCM 2.0	PCM-	9L 2.7 / 566 DM	DM	x 28	x 28	x 28	—						
		RID	9.1 / 864/ 663	65L 2.0 / 438	65L 2.0 / 426	PCM 2.0	PCM-	9L 3.1 / 663 RD	RID	x 30	x 30	x 30	—						
		BK	8.3 / 1813	65L 4.5 / 994 ASO	9L 1.4 / 308 PY	9L 2.0 / 442 NW b	9L 0.4 / 69 BK		BK				x 30 ASO					x 30 PY	—
		NW	7.7 / 1663	9L 2.5 / 530	9L 1.4 / 308	9L 3.8 / 825 NW			NW				x 12					x 12	—
TOM	T5	TH	5.9 / 1314	CP 9L 2.0 / 447 PL	9L 1.0 / 231 SW	65L 2.9 / 636 TH			TH CP	Δ 74 SV	Δ 74 MM b	Δ 74 PL	—						
DIRECT		PD	(8.2) 11.0 / 477/(60+494)	9L 2.2 / 477	PCM 2.0	PCM-	65L 6.8 / 1494 PD		PD	x 14	x 14	x 14	—						
		TH	9.7 / 1915	65L 2.0 / 438 SV	65L 1.8 / 396 PL	65L 2.0 / 449 SW	65L 2.9 / 636 TH		TH	x 40	x 40	x 40	—						
TOM	T7	SW	5.0 / 1308	CP 65L 2.0 / 438 SV	65L 1.4 / 309 MM b	65L 0.4 / 86 PL	65L 2.2 / 475 SW		SW CP	Δ 50 SV	Δ 50 MM b	Δ 50 PL	—						
DIRECT		SW	8.0 / 1777	65L 2.0 / 438	5L 2.1 / 481	5L 0.6 / 135	5L 3.3 / 723		SW	x 186	x 186	x 186	—						
		TC	9.3 / 1658	5L 3.0 / 665	65L 1.4 / 309	65L 2.4 / 512 MM	9N 2.1 / 142 SP b	9N 0.4 / 30 TC	TC	x 30	x 30			x 30 MM	x 30 SP b	x 30 TC			
		SP	10.2 / 1561	65L 2.0 / 438	65L 1.4 / 309	65L 2.4 / 512	9NL 2.1 / 142	9NL 2.3 / 160 SP	SP	x 12	x 12			x 12	x 12		x 12 SP		

NO. 47

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T6	CHAIYAPRUK (CP) NO. 9	



KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)				NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (67) (73) (76) (71) (70) (55) (59) (51) (57) (56)
TOM	T6	PN	3.3 412	CP 5NL 3.3 412 PN				PN CP 538 PN
DIRECT		PN	3.3 412	5NL 3.3 412				PN 62
TOLL		PN	3.3 412	5NL 3.3 412				PN 118
M C		PN	3.3 412	5NL 3.3 412				PN 10
DIRECT		BN	10.1 1255	5NL 3.3 412	5NL 6.8 843 BN			BN 84 84 BN
		PS	8.5 1335	5NL 3.3 412	6SL 2.7 586	6SL 2.5 537 PS		PS 34 34 34 PS
		ON	9.6 850	5NL 3.3 412	9NL 6.3 438 ON			ON 12 12 ON
		HM	6.2 603	6NL 6.2 HM 603				HM 70 HM 70 HM
		KC	10.2 1468	8SNL 6.2 605	6SL 4.0 863 KC			KC 74 74 74 KC

NO. 48

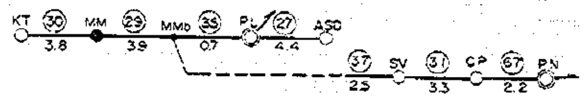
CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T3	MAHAMEK (MM) NO.10	MM (29) NMD (35) PL; 3.9, 0.7

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)					NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (29)	(35)
TDM	T1	[KK]	53 / 1160	MM 65L 27 / 599 PL	65L 26 / 561 KK			[KK]	MM 7	NMD 7 PL
TOLL	T1	[KK]	29 / 631	9L 15 / 325	9L 14 / 306			[KK]	33	33
OTD	T1	[KK]	29 / 631	9L 15 / 325	9L 14 / 306			[KK]	6	6
DIRECT	T1	KK	108 / 1056	65NL 56 / 546	65NL 52 / 510			KK	34	34
DIRECT	T1	BP	100 / 1828	65L 27 / 599	65L 24 / 531	65L 19 / 401 SS	65NL 30 / 297 BP	BP	16	16
DIRECT	T1	SR	78 / 1726	65L 27 / 599	5L 5.1 / 1127 SR			SR	108	108
DIRECT	T1	PW	93 / 996	65NL 56 / 546	5NL 37 / 450 PW			PW	63	63
TDM	T2	[PY]	55 / 1222	MM 65L 27 / 599 PL	65L 28 / 623 PY			[PY]	MM 17	NMD 17 PL
TOLL	T2	[PY]	34 / 733	9L 15 / 325	9L 19 / 408			[PY]	38	38
DIRECT	T2	PY	101 / 1530	65NL 56 / 546	(65L) 45 / 984			PY	26	26
DIRECT	T2	BS	85 / 1895	65L 27 / 595	65L 26 / 593	65L 22 / 494 SSD	9L 1.0 / 209 BS	BS	6	6
DIRECT	T2	LP_1	86 / 1914	65L 27 / 599	65L 26 / 593	65L 3.3 / 722 LP_1		LP_1	12	12
DIRECT	T2	LP_2	86 / 1921	65L 27 / 599	65L 26 / 593	9L 1.6 / 359	9L 1.7 / 370 LP_2	LP_2	15	15
TDM	T4	[LS]	49 / 629	MM 65L 29 / 629 PL	PCM 2.0 PY	PCM – LS		[LS]	MM 20	NMD 20 PL
DIRECT	T4	RID	80 / 629/663	65L 29 / 629	PCM 2.0	PCM –	9L 3.1 / 663 RID	RID	7	7
DIRECT	T4	BK	110 / 1854	9NL 39 / 272 PL	65L 28 / 623 PY	65L 4.3 / 969 BK		BK	7	7
DIRECT	T4	NW	110 / 1709	65NL 56 / 546	5L 16 / 338	9L 3.8 / 825 NW		NW	6	6

NO.49

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T3	MAHAMEK (MM) NO.10	

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (db) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (db) RESISTANCE (Ω)							NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (30)	(29)	(35)	(27)	(37)	(31)	(67)
TDM	T3	[PL]	2.9 / 629	MM 65L 2.9 / 629 PL						[PL]		MM 250	MMb 250 PL				
DIRECT	T3	PL	3.6 / 546	65NL 3.6 / 546						PL		76	76				
DIRECT	T3	ASD	9.8 / 1453	65NL 5.6 / 546	5L 4.2 / 907 ASD					ASD		18	18	18 ASD			
DIRECT	T3	SV	7.7 / 760	63(?) 7.7 / 760 SV						SV		28			28 SV		
DIRECT	T3	KT	4.7 / 463	65NL 4.7 / 463 KT						KT	KT 59						
TDM	T6	[PN]	6.3 / 1400	MM 65L 3.7 / 821 SV	65L 1.8 / 408 CP	9L 0.8 / 171 PN				[PN]		MM 32	MMb		32 SV	32 CP	32 PN
MC	T6	[PN]	6.3 / 1400	65L 3.7 / 821	65L 1.8 / 408	9L 0.8 / 171				[PN]		5			5	5	5
DIRECT	T6	PN	8.6 / 1909	65L 3.7 / 821	5L 2.8 / 635	5L 2.1 / 453				PN		7			7	7	7
DIRECT	T6	CP	8.9 / 1470	65L 3.9 / 851	5NL 5.0 / 619 CP					CP		60			60	60	
DIRECT	T6	HM	10.5 / 1607	65NL 5.6 / 546 PL	65L 4.9 / 1061 HM					HM		17	17 PL —				
DIRECT	T6	KC	10.7 / 1750	9NL 3.9 / 272	65L 4.7 / 1031	9L 2.1 / 447 KC				KC		6	6 —				
DIRECT	T6	BN	8.2 / 1819	65L 3.7 / 821 SV	65L 1.8 / 408 CP	65L 1.2 / 272 PN	9L 1.5 / 318 BN			BN		14			14 SV	14 CP	14 PN —
DIRECT	T6	PS	8.8 / 1951	65L 3.7 / 821	65L 1.8 / 408	9L 0.6 / 141	9L 2.7 / 581 PS			PS		15			15	15	15 —
DIRECT	T6	SPK	(39) 8.3 / 60+1400	65L 3.7 / 821	65L 1.8 / 408	9L 0.8 / 171	PCM 2.0	PCM- SPK		SPK		6			6	6	6 —

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T3	MANAMEK (MM) NO.10	SW (36) 3.2 MM (34) 2.4 SPb (83) 0.5 TC; (84) 2.7 SD

KIND OF CIRCUIT	DESTINATION TAN.	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (36) (34) (85) (86)
TDM	T3	TH	38 282	SL 29 SW 6SL 29 TH 646 636	TH SW x 31 MM
DIRECT	T3	TH	94 1603	SNL 48 SL 46 600 1003	TH x 24
DIRECT	T3	CN	87 1933	SL 29 SL 14 SL 44 CN 646 314 973	CN x 7
DIRECT	T3	DK	102 773	SNL 48 6SL 29 6SL 25 DK 600 636 537	DK x 16
DIRECT	T3	PD	90 1978	SL 29 SL 14 6SL 23 9L 11 AS 9L 13 PD 646 314 507 237 274	PD x 16
TDM	T3	SW	49 600	MM SNL 49 SW 600	SW SW x 13 MM
DIRECT	T3	SW	49 600	SNL 49 600	SW x 138
DIRECT	T3	TK	98 1680	SNL 45 SL 49 TK 600 1080	TK x 13
DIRECT	T3	TC	25 172	SNL 25 TC 172	TC x 53 SPb x 53 TC
DIRECT	T3	SP	44 302	SNL 44 SP 302	SP x 16 x 16 SP

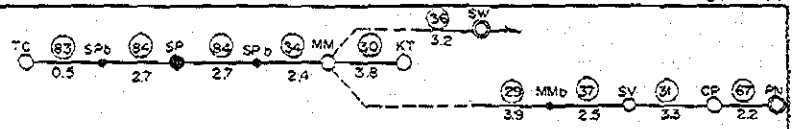
CIRCUIT ASSEMBLY LIST

TANDEM: T7

OFFICE: SATHUPRADIT (SP)

NO.11

TRANSMISSION ROUTE

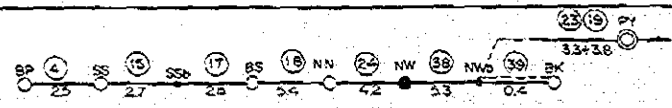


KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)					NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS										
									(85)	(84)	(84)	(34)	(30)	(36)	(29)	(37)	(31)	(67)	
TDM	T1	KK	(46) 7.9 / 60+1737	9L 1.6 / 357	5L 2.7 / 616	65L 3.6 / 784					SP Δ 39	SPb Δ 39	MM		Δ 39	SW —					
TOLL		KK	(4.2) 6.3 / 60+1394	9L 1.6 / 357	5L 2.7 / 616	9L 2.0 / 421					" 21	" 21	"		" 21	" —					
OTD		KK	(4.2) 6.3 / 60+1394	9L 1.6 / 357	5L 2.7 / 616	9L 2.0 / 421					" 5	" 5	"		" 5	" —					
TDM	T2	PY	(4.9) 8.5 / 60+1905	9L 1.6 / 357	5L 2.7 / 616	65L 4.2 / 932					SP Δ 23	SPb Δ 23	MM		Δ 23	SW —					
TOLL		PY	(4.2) 6.6 / 60+1471	9L 1.6 / 357	5L 2.7 / 616	9L 2.3 / 498					" 24	" 24	"		" 24	" —					
TDM	T3	PL	5.5 / 1234	9L 1.6 / 357	5L 2.7 / 616	9L 1.2 / 261					SP Δ 21	SPb Δ 21	MM		Δ 21	SW —					
DIRECT		MM	4.4 / 302	9NL 4.4 / 302							" X 16	" X 16	"								
		KT	9.1 / 765	9NL 6.4 / 302	6SNL 4.7 / 463						" X 15	" X 15	"	X 15 KT							
TDM	T4	LS	(4.2) 6.3 / 60+1003	9L 1.6 / 357	5L 2.7 / 646	PCM 2.0 LS					SP Δ 18	SPb Δ 18	MM		Δ 18	SW —					
TDM	T5	TH	3.9 / 1317	9L 1.6 / 357	5L 2.7 / 616	9L 1.6 / 344					SP Δ 24	SPb Δ 24	MM		Δ 24	- —					
TDM	T6	PN	5.1 / 1137	9L 1.6 / 357	9L 1.8 / 410	9L 0.9 / 199	SP 9L 0.8 / 171 PN				SP Δ 35	SPb Δ 35	MM				Δ 35	MMb Δ 35	SV Δ 35	CP Δ 35	PN
DIRECT		CP	10.2 / 1561	9NL 4.4 / 302	6SL 3.8 / 821	6SL 2.0 / 438					" X 12	" X 12	"				X 12	- X 12	- X 12	-	
MC		PN	5.1 / 1137	9L 1.6 / 357	9L 1.8 / 410	9L 0.9 / 199	" 9L 0.8 / 171 PN				" Δ 4	" Δ 4	"				Δ 4	- Δ 4	- Δ 4	- Δ 4	PN
TDM	T7	SW	(3.8) 4.5 / 60+1003	9L 1.6 / 357	5L 2.9 / 646						SP " 236	SPb " 236	MM		" 236	SW					
DIRECT		SW	9.3 / 902	9NL 4.4 / 302	5NL 4.9 / 600						" X 36	" X 36	"		X 36	"					
		TC	2.7 / 189	9NL 2.7 / 189 TC							TC X 19	SPb X 19	-								

NO. 52

CIRCUIT ASSEMBLY LIST

NW 1/2

TANDEM	OFFICE	TRANSMISSION ROUTE
T4	NGAMWONGWAN (NW) NO. 12	

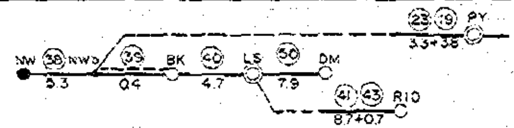
KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)
TDM	T1	[KK]	5.7 / 1233	NW 9L 3.8 / 825 PY 9L 1.9 / 408 KK
OTD	T1	[KK]	(3.9) 5.7 / 60+1233	· 9L 3.8 / 825 · 9L 1.9 / 408 ·
DIRECT	T1	SR	8.2 / 1808	· 9L 1.8 / 395 BK 9L 2.2 / 481 PY 6.5L 4.2 / 932 SR
DIRECT	T1	PW	8.5 / 1887	· 9L 1.8 / 395 · 9L 2.2 / 481 · 5L 4.5 / 1011 PW
DIRECT	T1	SS	7.2 / 1008	· 9NL 3.6 / 249 NN 9L 1.8 / 376 BS 9L 1.8 / 383 SS
DIRECT	T1	BP	7.8 / 1325	· 9L 1.4 / 299 · 9L 1.6 / 346 · 9L 1.8 / 383 · 6.5NL 3.0 / 297 BP
DIRECT	T1	KK	7.8 / 1732	· 9L 1.8 / 395 BK 6.5L 4.1 / 929 PY 9L 1.9 / 408 KK
DIRECT	T2	BS	8.2 / 569	NW 9NL 3.6 / 249 NN 9NL 4.6 / 320 BS
DIRECT	T2	NN	3.6 / 249	· 9NL 3.6 / 249 ·
TDM	T3	[PL]	5.7 / 1233	NW 9L 3.8 / 825 PY 9L 1.9 / 408 PL
DIRECT	T3	PL	7.5 / 1662	· 9L 1.8 / 395 BK 6.5L 4.1 / 929 PY 9L 1.5 / 338 PL
DIRECT	T3	MM	11.0 / 1709	· 9L 3.8 / 825 PY 9L 1.6 / 338 PL 6.5NL 5.6 / 546 MM
DIRECT	T3	KT	8.1 / 1778	· 9L 3.8 / 825 · 9L 1.7 / 378 · 9L 1.3 / 295 · 9L 1.3 / 280 KT
TDM	T6	[PN]	6.0 / 855	NW 9L 4.0 / 855 PY PCM 2.0 PN
DIRECT	T6	CP	7.7 / 1663	· 9L 3.8 / 825 · 9L 1.4 / 308 ASS 9L 2.5 / 530 CP

NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS

OFFICE	(4)	(15)	(17)	(18)	(24)	(38)	(39)	(23)(19)	( )	( )
[KK]						NW ▲61	NWb	▲61 PY —		
[KK]						· +11	·	+11 · —		
SR						· x68	· x68x2	BK x68 · —		
PW						· x28	· x28x2	· x28 · —		
SS		SS x42	SSb x42	BS x42	NN x42	·				
BP	BP x14	· x14	· x14	· x14	· x14	·				
KK						· x40	NWb x40x2	BK x40 PY —		
BS				BS x69	NN x69	NW				
NN					· x16	·				
[PL]						NW ▲56	NWb	▲56 PY —		
PL						· x38	· x38x2	BK x38 · —		
MM						· x6	·	x6 · —		
KT						· x6	·	x6 · —		
[PN]						NW ▲67	NWb	▲67 PY —		
CP						· x12	·	x12 · —		

NO. 53

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T4	NGAMWONGWAN (NW) NO.12	

KIND OF CIRCUIT	DESTINATION TAN DEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)					NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS	(38)	(39)	(40)	(50)	(41)(43)	(23)(19)
TDM		[PY]	4.0 / 855	NW 9L 4.0 / 855 PY					[PY]	NW 42 NW					42 PY
DIRECT	T2	PY	6.1 / 1354	9L 1.8 / 395 BK	6SL 4.3 / 959 PY				PY	56	56x2 BK				56
		IM	10.1 / 1746	9L 1.8 / 395	6SL 4.3 / 959	6SNL 4.0 / 392 IM			IM	23	23x2				23
		LP1	10.8 / 1520	9L 1.7 / 370 NW	9L 2.3 / 485	6SNL 6.8 / 665 PY			LP1	14					14
		LP2	8.6 / 1887	9L 1.7 / 370	9L 2.1 / 435	6SL 3.1 / 692	9L 1.7 / 370 LP2		LP2	12					12
TDM	T4	[LS]	3.4 / 726	NW 9L 1.8 / 395 BK	9L 1.6 / 331 LS				[LS]	NW 408 NW	408 BK	408 LS			
TOLL		[LS]	3.4 / 726	9L 1.8 / 395	9L 1.6 / 331				[LS]	94	94	94			
MC		[LS]	4.6 / 1006	9L 1.8 / 395	6SL 2.8 / 611				[LS]	9	9	9			
DIRECT		DM	9.0 / 1982	9L 1.8 / 395	6SL 2.6 / 561	9NL 4.6 / 1006 DM			DM	19	19	19	19 DM		
		RID	7.3 / 1609	9L 1.8 / 395	6SL 2.6 / 561	9L 2.9 / 633 RID			RID	14	14	14		14 RID	
		BK	4.9 / 337	9NL 4.9 / 337					BK	55	55				
TDM	T5	[TH]	6.0 / 855	NW 9L 4.0 / 855 PY	PCM 2.0 SW	PCM - TH			[TH]	NW 54 NW					54 PY
DIRECT		TH	8.8 / 1929	9L 3.8 / 825	9L 2.1 / 468	6SL 2.9 / 636			TH	27					27
		BC	9.3 / 855/714	9L 4.0 / 855	PCM 2.0	PCM-	5L 3.3 / 714 BC		BC	7					7
		DK	9.9 / 855/849	9L 4.0 / 855	PCM 2.0	PCM-	5L 3.9 / 849 DK		DK	7					7
		PD	9.8 / 855/804	9L 4.0 / 855	PCM 2.0	PCM-	9L 1.4 / 293	9L 2.4 / 511 PD	PD	7					7
DIRECT	T6	KC	6.0 / 855	NW 9L 1.7 / 370 NW	9L 2.3 / 485 PY	PCM 2.0 LP	PCM- LP2	PCM- KC	KC	NW 17 NW					17 PY
TDM	T7	[SW]	6.1 / 1323	NW 9L 3.8 / 825 PY	9L 2.3 / 498 SW				[SW]	NW 58 NW					58 PY
DIRECT		SW	8.0 / 1757	9L 3.8 / 825	6SL 4.2 / 932				SW	64					64

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
Ts	PHRAPRADAENG (PD) NO. 13	PD (59) 3.9 RB (58) 3.7 DK (55) 4.1 TH

KIND OF CIRCUIT	DESTINATION TAN DEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (59) (58) (55)				
DIRECT	Ts	KK	9.4 / 539	9NL 3.3 PD, 9L 1.3 RB, 9L 1.3 DK, 9L 1.2 TH, 65L 3.6 KK; 225, 267, 263, 784	KK	X 3.6	X 3.8	X 3.8	—
		SR	10.2 / 592	9L 2.5, 9L 1.4 DK, 5NL 5.4 SR; 511, 263, 788	SR	X 10.8	X 10.8	X 10.8	—
		BP	7.9 / 696	9L 1.3 RB, 9L 1.1 DK, 9L 1.2 TH, 9L 1.8 KK, 9L 0.9 SS, 65L 1.6 BP; 274, 237, 263, 391, 192, 339	BP	X 1.4	X 1.4	X 1.4	—
		PW	10.7 / 988	9L 2.4 DK, 9L 1.2, 65L 3.6 KK, 5NL 3.5 PW; 511, 263, 784, 431	PW	X 4.0	X 4.0	X 4.0	—
		SS	10.8 / 914	9L 2.4, 9L 1.2, 65L 3.6, 65NL 3.6 SS; 511, 263, 784, 356	SS	X 1.3	X 1.3	X 1.3	—
TDM		KK	5.5 / 795	9L 2.4, 9L 1.2, 9L 2.0; 511, 263, 421	KK	Δ 1.7	Δ 1.7	Δ 1.7	—
OTO		KK	4.2 / 45	PCM 2.0 TH, 9L 2.2 KK; 451	KK	* 6	* 6	* 6	—
DIRECT	T_2	PY	(60) 8.8 / 60+1494	65L 4.4 DK, 65L 2.4 TH, PCM 2.0 PY; 957, 537	PY	X 1.6	X 1.6	X 1.6	—
		BS	(10.4) 11.2 / 60+1494/496	65L 4.4, 65L 2.4, PCM 2.0, 9L 2.4 BS; 957, 537, 495	BS	X 1.4	X 1.4	X 1.4	—
		IM	(8.2) 11.0 / 60+1494/468	65L 4.4, 65L 2.4, PCM 2.0, 65L 2.2 IM; 957, 537, 468	IM	X 6	X 5	X 6	—
		LP_2	9.3 / 804/759	9L 2.4, 9L 1.4, PCM 2.0, 9L 1.8 LP, 9L 1.7 LP_2; 511, 293, 389, 370	LP_2	X 2	X 2	X 2	—
TDM		PY	5.6 / 804	9L 2.4, 9L 1.4, PCM 2.0; 511, 293	PY	Δ 3.2	Δ 3.2	Δ 3.2	—
DIRECT	T_3	PL	(60) 8.8 / 60+1494	65L 4.4 DK, 65L 2.4 TH, PCM 2.0 SW, PCM — PL; 957, 537	PL	X 4.3	X 4.3	X 4.3	—
		MM	9.0 / 978	9L 2.4, 65L 2.3, 9L 1.4, 5L 2.9 MM; 511, 507, 3.4, 646	MM	X 1.5	X 1.6	X 1.6	—
		ASD	10.0 / 804/907	9L 1.3 RB, 9L 1.1 DK, 9L 1.4 TH, PCM 2.0 SW, PCM — PL, 5L 4.2 SS; 274, 237, 293, 907	ASD	X 5	X 6	X 6	—
		SV	(9.1) 11.9 / 60+1494/676	65L 2.4, 65L 2.0, 65L 2.4, PCM 2.0, PCM —, 5L 3.1 SV; 500, 457, 537, 676	SV	X 1.5	X 1.5	X 1.5	—
		KT	9.6 / 804/837	9L 2.4 DK, 9L 1.4 TH, PCM 2.0 SW, PCM — PL, 9L 1.5 MM, 65L 2.3 KT; 511, 293, 325, 512	KT	X 1.8	X 1.8	X 1.8	—
TDM		PL	5.8 / 804	9L 2.4, 9L 1.4, PCM 2.0, PCM —; 511, 293	PL	Δ 2.8	Δ 2.8	Δ 2.8	—
DIRECT	T_4	NW	9.8 / 804/855	9L 2.4 DK, 9L 1.4 TH, PCM 2.0 PY, 9L 4.0 NW; 511, 293, 855	NW	X 7	X 7	X 7	—
		DM	8.5 / 804/566	9L 2.4, 9L 1.4, PCM 2.0 LS, 9L 2.7 DM; 511, 293, 566	DM	X 1.2	X 1.2	X 1.2	—
		BK	(8.6) 11.4 / 60+1494/541	65L 4.4, 65L 2.4, PCM 2.0 PY, 9L 2.6 BK; 957, 537, 541	BK	X 6	X 6	X 6	—
TDM		LS	5.8 / 804	9L 2.4, 9L 1.4, PCM 2.0 LS; 511, 293	LS	Δ 2.8	Δ 2.8	Δ 2.8	—
DIRECT	T_5	TH	2.0 / —	PCM 2.0 PD, PCM — TH	TH	X 3.2	X 3.2	X 3.2	—
		BC	5.3 / 714	PCM 2.0, PCM —, 9L 3.3 BC; 714	BC	X 1.7	X 1.7	X 1.7	—
		DK	9 / 890	(65NL 4.6) RB, 65NL 4.5 DK; 451, 439	DK	X 4.5	X 4.8		
		RB	4.6 / 451	65NL 4.6 RB; 451	RB	X 2.5			

CIRCUIT ASSEMBLY LIST

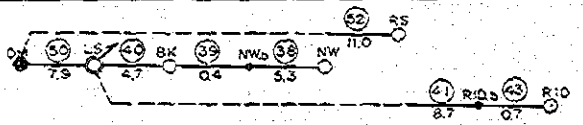
TANDEM	OFFICE	TRANSMISSION ROUTE
T5	PHRAPRADAENG (PD) NO. 13	PD —(59) 3.8— RB —(58) 3.7— DK —(55) 4.1— TH

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)							NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (59)	(58)	(55)
TDM		[TH]	2.0	PD	PCM 2.0 TH					[TH]	PD • 232	RB • 232	DK • 232 TH
M.C.	T5	[TH]	2.0	,	PCM 2.0 DK	PCM — TH				[TH]	△ 5	△ 5	△ 5
TOLL		[TH]	2.0	,	PCM 2.0 TH					[TH]	• 59	• 59	• 59
DIRECT	T6	PN	(6.0) 8.8 / 60+1494	PD	65L 4.4 / 957 DK	65L 2.4 / 537 TH	PCM 2.0 PN			PN	PD x 6	RB x 6	DK x 6 TH —
		CP	(8.2) 11.0 / 60+1494/477	,	65L 4.4 / 957 ,	65L 2.4 / 537 ,	PCM 2.0 PL	9L 2.2 / 477 CP		CP	x 14	x 14	x 14 —
		SN	(9.0) 11.7 / 60+1494/516	,	65L 2.4 / 500 RB	65L 2.0 / 457 DK	65L 2.4 / 537 TH	PCM 2.0 PN	65L 2.9 / 616 SN	SN	x 6	x 6	x 6 —
		KC	7.9 / 842	,	PCM 2.0 DK	PCM — TH	9L 1.6 / 344 SW	9L 2.3 / 498 PY	PCM 2.0 KC	KC	x 6	x 6	x 6 —
		PS	(9.0) 11.7 / 60+1494/611	,	65L 2.4 / 500 RB	65L 4.4 / 994 ,	PCM 2.0 PN	9L 2.9 / 611 PS		PS	x 18	x 18	x 18 —
		SPK	(6.0) 8.8 / 60+1494	,	65L 4.4 / 957 DK	65L 2.4 / 537 ,	PCM 2.0 ,	PCM — SPK		SPK	x 12	x 12	x 12 —
		HM	8.5 / 804/ 579	,	9L 2.4 / 511 ,	9L 1.4 / 293 ,	PCM 2.0 PL	9L 2.7 / 579 HM		HM	x 15	x 15	x 15 —
TDM		[PN]	5.8 / 804	,	9L 2.4 / 511 ,	9L 1.4 / 293 ,	PCM 2.0 PN			[PN]	△ 50	△ 50	△ 50 —
DIRECT	T7	SW	5.1 / 666	PD	PCM 2.0 RB	PCM — DK	PCM — TH	65L 3.1 / 666 SW		SW	PD x 60	RB x 60	DK x 60 TH —
		TC	(5.6) 7.8 / 60+1278	,	PCM 2.0 DK	PCM — TH	9L 1.6 / 344 SW	5L 4.2 / 934 TC		TC	x 17	x 17	x 17 —
TDM		[SW]	3.8 / 374	,	PCM 2.0 ,	PCM — ,	9L 1.8 / 374			[SW]	△ 33	△ 33	△ 33 —

NO. 56

CIRCUIT ASSEMBLY LIST

DM V2

TANDEM	OFFICE	TRANSMISSION ROUTE
T_4	DONMUANG EX (DM) NO.14	

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (50) (40) (39) (38) (42) (41) (43)
TDM	T_1	KK	4.1 / 438	DM — PCM 2.0 — LS — PCM- — PY — 9L 2.1 / 438 — KK	KK DM △ 28 LS
DIRECT		KK	4.1 / 438	PCM 2.0 — PCM- — 9L 2.1 / 438	KK × 34
OTD		KK	4.1 / 438	PCM 2.0 — PCM- — 9L 2.1 / 438	KK * 3
DIRECT		SR	6.0 / 861	PCM 2.0 — PCM- — 9L 1.9 / 408 — SL 2.1 / 453 SR	SR × 56
		SS	3.8 / 809	PCM 2.0 — PCM- — 9L 1.9 / 408 — 65L 1.9 / 401 SS	SS × 23
TDM	T_2	PY	2.0	DM — PCM 2.0 — LS — PCM- — PY	PY △ 27
DIRECT		PY	2.0	PCM 2.0 — PCM-	PY DM × 56 LS
		BS	5.4 / 733	PCM 2.0 — PCM- — 65L 2.6 / 524 BS — 9L 1.0 / 209 BS	BS × 24
		IM	6.0 / 392	PCM 2.0 — PCM- — 65N 4.0 / 392 DM	IM × 6
		LP2	5.5 / 753	PCM 2.0 — PCM- — 9L 1.8 / 383 LP — 9L 1.7 / 370 LP2	LP2 × 6
TDM	T_3	PL	4.1 / 438	DM — PCM 2.0 — LS — PCM- — PY — 9L 2.1 / 438 PL	PL DM △ 30 LS
		PL	4.1 / 438	PCM 2.0 — PCM- — 9L 2.1 / 438	PL × 28
TDM	T_4	LS	2.7 / 566	DM — 9L 2.7 / 566 LS	LS DM △ 277 LS
DIRECT		LS	9.6 / 938	(65N) 9.6 / (9NL) 938	LS × 14
TOLL		LS	2.7 / 566	9L 2.7 / 566	LS * 45
MC		LS	4.8 / 1036	(65L) 4.8 / 1036	LS △ 4
DIRECT		NW	9.0 / 1982	(65L) 4.6 / 1006 — 65L 2.6 / 581 BK — 9L 1.8 / 395 NW	NW × 19 — × 19 BK × 19 NWb × 19 NW
		BK	7.4 / 1617	(65L) 4.6 / 1006 — 65L 2.8 / 611	BK × 30 — × 30
		RS	9.4 / 651	9NL 9.4 / 651 RS	RS × 6 RS
		R1D	7.9 / 1728	9L 2.5 / 536 LS — (65L) 5.4 / 1192 R1D	R1D × 16 LS — × 16 R1Db — × 16 R1E
TDM	T_5	TH	4.7 / 566	DM — 9L 2.7 / 566 LS — PCM 2.0 TH	TH DM △ 39
DIRECT		TH	4.7 / 566	9L 2.7 / 566 — PCM 2.0 PY — PCM- SV — PCM- TH	TH × 19
		PD	8.5 / 566/804	9L 2.7 / 566 — PCM 2.0 TH — 9L 1.4 / 293 DK — SL 2.4 / 511 PD	PD × 12
TDM	T_6	PN	4.7 / 566	DM — 9L 2.7 / 566 — PCM 2.0 PY — PCM- PN	PN DM △ 38 LS
DIRECT		CP	8.7 / 566/864	9L 2.7 / 566 — PCM 2.0 — PCM- PL — 65L 2.0 / 426 SV — 65L 2.0 / 438 CP	CP × 28
		KC	(5.8) 8.2 / 60+1348	9L 2.5 / 536 — 9L 3.7 / 812 — PCM 2.0 LP — PCM- LP2 — PCM- KC	KC × 18

NO.57

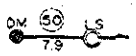
CIRCUIT ASSEMBLY LIST

TANDEM: T4

OFFICE: DONMUANG EX (DM)

NO. 14

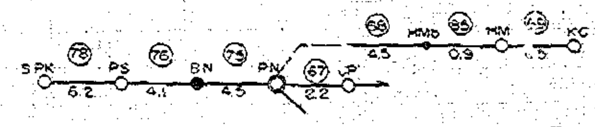
TRANSMISSION ROUTE



KIND OF CIRCUIT	DESTINATION TAN. DEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (db) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS 39
TDM	T7	SW	47 / 566	DM SL 2.7 / 566 LS — PCM 2.0 — PCM — SW	SW DM 28 LS
DIRECT		SW	47 / 566	SL 2.7 / 566 — PCM 2.0 — PCM — "	SW 37

NO. 58

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T6	BANGNA (BN) NO. 15	

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)							OFFICE	(78)	(76)	(75)	(67)	(68)	(65)	(69)
TDM	T1	[KK]	4.9 / 616	BN 65L 2.9 / 616 PN	PCM 2.0 SR	PCM- KK					[KK]			BN Δ 49 PN	—			
DIRECT		KK	8.4 / 1868	9L 1.5 / 318	65L 4.4 / 989	65L 2.5 / 561					KK			x 26	—			
OTD		[KK]	3.7 / 348	9L 1.7 / 348	PCM 2.0	PCM-					[KK]			11	—			
DIRECT		PW	9.8 / 1787	9L 1.5 / 318	65L 4.6 / 1019	5NL 3.7 PW / 450					PW			x 31	—			
		SR	8.3 / 1834	65L 2.7 / 586	9L 2.3 / 513	65L 3.3 SR / 735					SR			x 24	—			
		SS	8.2 / 1805	9L 1.5 / 318	65L 4.4 / 989	9L 1.2 KK / 276	9L 1.1 SS / 222				SS			x 12	—			
TDM	T3	[PL]	5.2 / 1129	BN 65L 2.7 / 586 PN	9L 2.5 PL / 543						[PL]			BN Δ 52 PN	—			
DIRECT		PL	8.6 / 1914	5L 4.0 / 895	65L 4.6 / 1019						PL			x 32	—			
		SV	8.9 / 1983	5L 4.0 / 895	5L 1.9 CP / 423	5L 3.0 SV / 665					SV			x 17	x 17 CP	—		
		MM	8.2 / 1819	9L 1.5 / 318	65L 1.2 / 272	65L 1.8 / 408	65L 1.4 HMD / 309	65L 2.3 MM / 512			MM			x 14	x 14	—		
		KT	8.4 / 1861	65L 2.7 / 586	9L 0.6 / 141	9L 1.0 / 212	9L 0.7 / 160	9L 1.1 / 250	65L 2.3 KT / 512		KT			x 16	x 16	—		
TDM	T6	[PN]	2.9 / 616	BN 65L 2.9 / 616 PN							[PN]			BN 581 PN				
DIRECT		PN	6.8 / 843	5NL 6.6 / 843							PN			x 18				
TOLL		[PN]	2.9 / 616	65L 2.9 / 616							[PN]			94				
MC		[PN]	4.2 / 926	5L 4.2 / 926							[PN]			Δ 9				
DIRECT		SPK	10.3 / 853	65NL 5.0 PS / 486	9NL 5.3 SPK / 367						SPK	SPK x 14 PS	x 14 BN					
		PS	5.0 / 486	65NL 5.0 / 486							PS		x 45					
		CP	10.1 / 1255	5NL 6.8 PN / 843	5NL 3.3 CP / 412						CP			x 84 PN	x 84 CP			
		HM	10.2 / 1570	5NL 6.8 / 843	65L 3.4 HM / 727						HM			x 16		x 16 HMD	x 16 HM	
		KC	7.8 / 1700	65L 2.7 / 586	65L 3.0 / 667	9L 2.1 KC / 447					KC			x 14		x 14	x 14	x 14 KC

NO. 59

CIRCUIT ASSEMBLY LIST

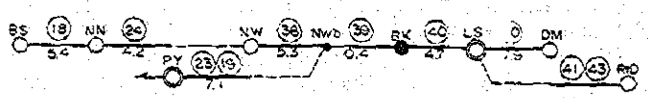
TANDEM	OFFICE	TRANSMISSION ROUTE
T6	BANGNA (BN) NO.15	SPK (78) 6.2 PS (76) 4.1 BN (75) 4.5 PN (67) 2.2 CP; CP (67) 4.5 HMD (66) 0.9 HM (69) 8.5 KC

KIND OF CIRCUIT	DESTINATION TAN DEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)							NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (78) (76) (75) (67) (66) (65) (69)	
TDM	T2	PY	4.9 / 616	65L 2.9 / 616	PCM 2.0	PCM-					BN △ 48 PN	PY
DIRECT		PY	8.4 / 1348	5L 4.0 / 895	9L 2.8 / 615	9L 1.6 / 338					- x 14 •	PY
		BS	9.1 / 1974	65L 2.7 / 386	9L 2.8 / 615	9L 1.6 / 308	9L 2.2 / 455	BS			- x 13 •	BS
		LP2	9.0 / 1970	9L 1.5 / 318	9L 2.8 / 615	9L 1.4 / 308	9L 1.6 / 399 LP	9L 1.7 / 370 LP2			- x 6 •	LP2
TDM	T4	LS	4.9 / 616	65L 2.9 / 616	PCM 2.0	PCM-	PCM-	LS			BN △ 37 PN	LS
DIRECT		BK	10.7 / 926/989	5L 4.2 / 920	PCM 2.0	PCM-	65L 4.3 / 989	BK			- x 6 •	BK
		RID	8.0 / 646/663	65L 2.9 / 616	PCM 2.0	PCM-	PCM-	LS	9L 3.1 / 663 RID		- x 7 •	RID
TDM	T3	TH	4.9 / 616	65L 2.9 / 616	PCM 2.0	PCM-	PCM-	TH			BN △ 44 PN	TH
DIRECT		PO	(9.0) 11.7 / 646/60-1494	65L 2.9 / 616	PCM 2.0	65L 2.2 / 537	65L 2.0 / 457 RB	65L 2.4 / 500 PO			- x 6 •	PO
		TH	8.7 / 1911	9L 1.5 / 318	9L 2.3 / 512 PL	65L 2.0 / 445 SW	65L 2.9 / 636 TH				- x 7 •	TH
TDM	T7	SW	6.0 / 1305	9L 1.5 / 318	9L 2.3 / 512 PL	65L 2.2 / 475 SW					BN △ 54 PN	SW
DIRECT		SW	8.1 / 1782	9L 1.5 / 318	65L 4.4 / 989	65L 2.2 / 475					- x 51 •	SW

NO. 60

CIRCUIT ASSEMBLY LIST

BK V2

TANDEM	OFFICE	TRANSMISSION ROUTE
T4	BANGKHEN (BK) NO. 16	

KIND OF CIRCUIT	TANDEM	OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)	OFFICE	(18)	(24)	(23)(19)	(38)	(39)	(40)	(50)	(41)(43)
DIRECT	T1	KK	7.8 / 1718	BK 65L 4.3 / 959 PY 65L 3.5 / 759 KK	KK		— PY	x 46		NWb x 46 BK			
		SR	6.8 / 1946	9L 2.4 / 511 5L 6.4 / 1435 SR	SR		—	x 64		x 64			
		BP	7.8 / 1728	65L 4.3 / 959 9L 1.9 / 430 SS 65L 1.6 / 339 BP	BP		—	x 15		x 15			
		PW	8.8 / 1970	65L 4.3 / 959 5L 4.5 / 1011 PW	PW		—	x 34		x 34			
		SS	6.4 / 1419	65L 4.3 / 959 9L 2.1 / 460 SS	SS		—	x 25		x 25			
TOM		[KK]	5.9 / 1270	9L 2.4 / 511 65L 3.5 / 759 KK	[KK]		—	△ 18		△ 18			
OTO		[KK]	(37) 4.3 / 60+919	9L 2.4 / 511 9L 1.9 / 408	[KK]		—	• 6		• 6			
DIRECT	T2	PY	9.1 / 890	BK 65NL 9.1 / 890 PY	PY			x 82		x 82			
		BS	4.8 / 1040	9L 1.8 / 395 NW 9L 1.2 / 269 NN 9L 1.8 / 376 BS	BS	BS x 41	NW x 41		NW x 41	NWb x 41 BK			
		IM	9.5 / 1608	65L 4.5 / 989 PY 5NL 5.0 / 619 IM	IM		— PY	x 20		x 20			
		LP-1	7.6 / 1681	65L 4.3 / 959 65L 3.3 / 722 LP1	LP-1		—	x 27		x 27			
		LP-2	7.6 / 1688	65L 4.3 / 959 9L 1.6 / 339 9L 1.7 / 370 LP2	LP-2		—	x 23		x 23			
TOM		[PY]	4.5 / 989	65L 4.5 / 989	[PY]			△ 16		△ 16			
DIRECT	T3	PL	7.1 / 1582	BK 65L 4.3 / 959 PY 65L 2.8 / 623 PL	PL		— PY	x 42		NWb x 42 BK			
		MM	11.0 / 1854	65L 4.3 / 959 65L 2.8 / 623 9NL 3.9 / 272 MM	MM		—	x 7		x 7			
		ASD	10.3 / 1559	65L 4.5 / 989 65NL 5.8 / 570 ASD	ASD		—	x 12		x 12			
		SV	8.9 / 1978	65L 4.3 / 959 65L 2.6 / 593 PL 65L 2.0 / 426 SV	SV		—	x 12		x 12			
		KT	10.8 / 1893	65L 4.3 / 959 9L 1.7 / 378 9L 1.5 / 325 MM 9NL 3.3 / 231 KT	KT		—	x 12		x 12			
TOM		[PL]	5.9 / 1297	65L 4.3 / 959 9L 1.6 / 338	[PL]		—	△ 26		△ 26			
DIRECT	T4	LS	5.7 / 558	BK 65NL 5.7 / 558 LS	LS						BK x 23 LS		
		NW	4.9 / 337	9NL 4.9 / 337 NW	NW				NW x 55	NWb x 55			
		DM	7.4 / 1617	65L 2.8 / 611 LS (65L)(9L) 4.6 / 1006 DM	DM						x 30 LS	x 30 DM	
		RIO	8.2 / 1803	65L 2.8 / 611 (65L)(9L) 5.4 / 1192 RIO	RIO						x 21		x 21 RIO
TOM		[LS]	3.0 / 641	65L 3.0 / 641	[LS]						• 232		
MC		[LS]	5.7 / 558	65NL 5.7 / 558	[LS]						△ 5		
TOLL		[LS]	3.0 / 641	65 3.0 / 641	[LS]						• 59		

NO. 61

CIRCUIT ASSEMBLY LIST

BK 2/2

TANDEM	OFFICE	TRANSMISSION ROUTE
T4	BANGKHEN (BK) NO.16	BK (39) 0.4 NWb (23) 3.3 LPb (19) 3.8 PY

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)					OFFICE	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (39)	(23)	(19)	
DIRECT	T5	PD	(8.6) 11.4 / 541/60+1494	BK 9L 2.6 / 541	PY PCM 2.0	SW PCM –	TH 35L 2.4 / 537	DK 65L 4.4 / 957 PD	PD	BK x 6	NWb x 6	LPb x 6	PY —
DIRECT	T5	BC	7.9 / 541/714	" 9L 2.6 / 541	" PCM 2.0	" PCM –	" 5L 3.3 / 714 BC		BC	" x 12	" x 12	" x 12	" —
DIRECT	T5	DK	8.5 / 541/849	" 9L 2.6 / 541	" PCM 2.0	" PCM –	" 5L 3.9 / 849 DK		DK	" x 6	" x 6	" x 6	" —
TDM	T5	[TH]	4.6 / 541	" 9L 2.6 / 541	" PCM 2.0	" PCM –	"		[TH]	" Δ 32	" Δ 32	" Δ 32	" —
DIRECT	T5	TH	8.9 / 1952	" 9L 2.4 / 511	" 9L 2.1 / 468	" 5L 4.4 / 973	"		TH	" x 18	" x 18	" x 18	" —
DIRECT	T6	CP	8.3 / 1813	BK 9L 2.4 / 511	PY 9L 1.4 / 308	ASO 65L 4.5 / 994 CP			CP	BK x 30	NWb x 30	LPb x 30	PY —
DIRECT	T6	BN	10.7 / 989/926	" 65L 4.5 / 989	" PCM 2.0	" PCM –	PN 5L 4.2 / 926 BN		BN	" x 6	" x 6	" x 6	" —
DIRECT	T6	KC	6.5 / 989	" 65L 4.5 / 989	" PCM 2.0	LP1 PCM –	LP2 PCM – KC		KC	" x 38	" x 38	" x 38	" —
DIRECT	T6	HM	8.8 / 1920	" 9L 2.4 / 511	" 9L 1.7 / 378	PL 65L 4.7 / 1031 HM			HM	" x 15	" x 15	" x 15	" —
TDM	T6	[PN]	4.6 / 541	" 9L 2.6 / 541	" PCM 2.0	ASO PCM – PN			[PN]	" Δ 37	" Δ 37	" Δ 37	—
DIRECT	T7	SW	8.5 / 1891	BK 65L 4.3 / 959	PY 65L 4.2 / 932 SW				SW	BK x 74	NWb x 74	LPb x 74	PY —
TDM	T7	[SW]	4.7 / 1009	" 9L 2.4 / 511	" 9L 2.3 / 498	"			[SW]	" Δ 33	" Δ 33	- Δ 33	- —

NO.62

CIRCUIT ASSEMBLY LIST

BC 1/1

TANDEM	OFFICE	TRANSMISSION ROUTE
T5	BANGCAE (BC) NO. 17	

KIND OF CIRCUIT	DESTINATION TAN DEV	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)					NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS	(63)	(62)	(61)	(14)
DIRECT	T1	KK	10.7 / 1 438 BC	5L 3.3 / 714 TH	65NL 7.4 / 724 KK				KK		BC x 30 TH		
DIRECT	T1	SR	9.7 / 1 502	5L 3.3 / 714	5NL 6.4 / 788 SR				SR		x 92		
DIRECT	T1	BP	8.2 / 1 814	9L 1.2 / 248	5L 4.2 / 943 CN	65L 2.8 / 623 BP			BP		x 16	x 16 CN	x 16 BP
DIRECT	T1	PW	10.2 / 1 899	5L 3.1 / 684	65L 3.6 / 784 KK	5NL 3.5 / 431 PW			PW		x 35		
TOM	T1	[KK]	5.1 / 1 105	5L 3.1 / 684	9L 2.0 / 421				[KK]		14		
QTO	T1	[KK]	3.2 / 669	9L 1.2 / 248	9L 2.0 / 421				[KK]		6		
DIRECT	T2	PY	10.0 / 1 759 BC	9NL 2.9 / 201 TH	65L 2.9 / 636 SW	65L 4.2 / 932 PY			PY		BC x 12 TH		
DIRECT	T2	SS	10.7 / 1 912	9NL 2.9 / 201	9L 1.6 / 344	65L 4.0 / 902	9L 2.2 / 465 SS		SS		x 13		
TOM	T2	[PY]	5.3 / 714	5L 3.3 / 714	PCM 2.0 SW	PCM – PY			[PY]		29		
TOM	T3	[PL]	5.7 / 1 259 BC	5L 3.1 / 684 TH	9L 1.4 / 314 SW	9L 1.2 / 261 PL			[PL]		BC 32 TH		
DIRECT	T4	NW	9.3 / 714/855 BC	5L 3.3 / 714 TH	PCM 2.0 SW	PCM – PY	9L 4.0 / 855 NW		NW		BC x 7 TH		
DIRECT	T4	BK	7.9 / 714/541	5L 3.3 / 714	PCM 2.0	PCM –	9L 2.6 / 541 BK		BK		x 12		
TOM	T4	[LS]	5.3 / 714	5L 3.3 / 714	PCM 2.0	PCM – PY	PCM – LS		[LS]		25		
DIRECT	T5	TH	5.2 / 638 BC	5NL 5.2 / 638 TH					TH		BC x 56 TH		
DIRECT	T5	PO	5.3 / 714	5L 3.3 / 714	PCM 2.0 DK	PCM – PO			PO		x 17		
DIRECT	T5	PC	6.2 / 605	65NL 6.2 / 605 PC					PC	PC x 14 BC			
DIRECT	T5	CN	9.8 / 1 641	5NL 5.2 / 638 TH	5L 4.6 / 1 003 CN				CN		x 20 TH	x 20 CN	
DIRECT	T5	DK	10.2 / 1 125	5NL 5.2 / 638	65NL 5.0 / 487 DK				DK		x 27		
TOM	T5	[TH]	2.9 / 201	9NL 2.9 / 201					[TH]		302		
TOLL	T5	[TH]	2.9 / 201 BC	9NL 2.9 / 201 TH					[TH]		59		
M C	T5	[TH]	5.2 / 638	5NL 5.2 / 638					[TH]		5		
TOM	T6	[PN]	5.3 / 714 BC	5L 3.3 / 714 TH	PCM 2.0 PN				[PN]		BC 42 TH		
DIRECT	T7	SW	9.8 / 1 641 BC	5NL 5.2 / 638 TH	5L 4.6 / 1 003 SW				SW		BC x 54 TH		
DIRECT	T7	TC	10.0 / 1 771	9NL 2.9 / 201	65L 2.9 / 636	5L 2.3 / 519 TK	5L 1.9 / 416 TC		TC		x 6		
TOM	T7	[SW]	6.0 / 1320	5L 3.1 / 684	65L 2.9 / 636 SW				[SW]		23		

NO. 63

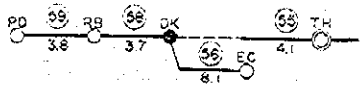
CIRCUIT ASSEMBLY LIST

DK 1/2

TANDEM: T5

OFFICE: DAOKANONG (DK) NO. 18

TRANSMISSION ROUTE



KIND OF CIRCUIT	DESTINATION TAN	DEV.	OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)							NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (99) (98) (96) (55)
DIRECT	T1		KK	10.0 / 1583	DK 5NL 6.2 / 769	TH 65L 3.8 / 814	KK					KK — DK — x 32 TH
			SR	10.3 / 1637	5L 3.9 / 849	5NL 6.4 / 788	SR					SR — x 104
			BP	8.4 / 1859	9L 1.4 / 293	5L 4.2 / 943	CN 65L 2.8 / 623	BP				BP — x 14
			PW	9.6 / 1752	65L 2.5 / 537	65L 3.6 / 784	XK 5NL 3.5 / 431	PW				PW — x 46
			SS	10.9 / 1959	5L 3.7 / 819	65L 3.6 / 784	65NL 3.6 / 356	SS				SS — x 12
TDM			KK	4.5 / 958	65L 2.5 / 537	9L 2.0 / 421						KK — 6 12
OTD			KK	3.4 / 714	9L 1.4 / 293	9L 2.0 / 421						KK — + 6
DIRECT	T2		PY	8.1 / 1783	DK 65L 2.5 / 537	TH 9L 1.4 / 314	SW 65L 4.2 / 932	PY				PY — DK — x 12 TH
			BS	9.0 / 1974	9L 1.4 / 293	9L 1.4 / 314	65L 4.0 / 902	9L 2.2 / 465 BS				BS — x 13
			LP2	8.2 / 1804	9L 1.4 / 293	9L 1.4 / 314	9L 2.1 / 468	9L 1.6 / 359 LP	9L 1.7 / 370 LP2			LP2 — x 6
TDM			PY	3.7 / 849	5L 3.7 / 849	PCM 2.0	PCM —					PY — 26
DIRECT	T3		PL	8.9 / 1955	DK 65L 2.5 / 537	TH 5L 4.2 / 943	SW 65L 2.2 / 476	PL				PL — DK — x 16 TH
			MM	10.2 / 1773	65L 2.5 / 537	65L 2.9 / 636	5NL 4.8 / 600	MM				MM — x 16
			SV	8.1 / 1770	9L 1.4 / 293	65L 2.7 / 606	65L 2.0 / 445 PL	65L 2.0 / 426 SV				SV — x 13
			KT	8.9 / 1979	65L 2.5 / 537	9L 1.4 / 314	5L 2.7 / 616 MM	65L 2.3 / 512 KT				KT — x 15
TDM			PL	4.7 / 567	65L 2.7 / 567	PCM 2.0	PCM — PL					PL — 29
DIRECT	T4		NW	9.9 / 849/855	DK 5L 3.9 / 849	TH PCM 2.0	PY 9L 4.0 / 855	NW				NW — DK — x 7 TH
			BK	8.5 / 849/541	5L 3.9 / 849	PCM 2.0	9L 2.6 / 541 BK					BK — x 6
TDM			LS	5.9 / 849	5L 3.9 / 849	PCM 2.0 SW	PCM — PY	PCM — LS				LS — 23
DIRECT	T5		TH	6.2 / 769	DK 5NL 6.2 / 769	TH						TH — DK — x 56 TH
			PD	9.1 / 880	65NL 4.5 / 439	RB 65NL 4.6 / 451	PD					PD — x 48 RB x 48
			BC	10.2 / 1125	65NL 5.0 / 487	TH 5NL 5.2 / 638	BC					BC — x 27 TH
			CN	10.8 / 1772	5NL 6.2 / 769	5L 4.6 / 003	CN					CN — x 16
			RB	4.5 / 439	65NL 4.5 / 439	RB						RB — RB x 38
			EC	6.9 / 480	9NL 6.9 / 480	EC						EC — x 12 EC
TDM			TH	3.9 / 849	5L 3.9 / 849	TH						TH — + 266

NO. 64

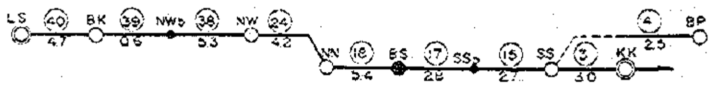
CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
Ts	DAOKANONG (DK) NO. 18	PO (59) 3.8 RB (58) 3.7 DK (56) 8.1 EC (55) 4.1 TH

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)											NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (59) (58) (56) (55)									
M C	Ts	TH	5.0 / 487	65NL 5.0 TH / 487													DK			5	TH				
TOLL	Ts	TH	3.9 / 849	5L 3.9 / 849													TH			59	"				
DIRECT	Ts	PN	8.2 / 799	5NL 6.2 TH / 799	PCM 2.0 PN												PN		DK	6	TH				
		PS	8.7 / 567/855	65L 2.7 / 357	PCM 2.0	9L 1.5 GN / 318	65L 2.5 PS / 537										PS		"	6	"				
		HM	8.8 / 849/379	5L 3.9 / 849	PCM 2.0	9L 2.7 HM / 579											HM		"	12	"				
TDM		PN	5.9 / 849	5L 3.9 / 849	PCM 2.0 PN												PN		"	45	"				
DIRECT	Ts	SW	8.1 / 792	5L 3.7 TH / 819	5L 4.4 SW / 573												SW		DK	82	TH				
		TC	8.3 / 833	9L 1.4 / 293	65L 2.7 / 606	5L 4.2 TC / 934											TC		"	20	"				
TDM		SW	5.4 / 173	65L 2.5 / 537	65L 2.9 / 636												SW		"	22	"				

NO. 65

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T2	BANGSUE (B S) NO. 19	

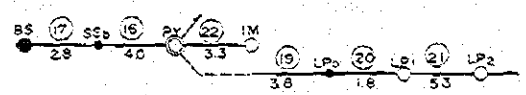
KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (db) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (db) RESISTANCE (Ω)					(40)	(39)	(38)	(24)	(18)	(17)	(15)	(3)	(4)	( )
TOM		[K K]	4.6 / 990	BS 9L 1.8 / 383 SS	5L 2.8 / 607 KK			[K K]						BS Δ 15	SS2 Δ 15	SS Δ 15 KK		
OTO		[K K]	3.7 / 784	BS 9L 1.8 / 383 SS	65L 1.9 / 401 KK			[K K]						• 7	• 7	• 7		
DIRECT	T1	K K	9.3 / 889	9NL 4.7 / 326	(3.5) 5NL 4.6 / 563			K K						x 52	x 52	x 52		
	T1	S S	4.7 / 326	9NL 4.7 / 326				S S						x 37	x 37			
	T1	B P	8.5 / 795	9NL 4.7 / 326	5NL 3.8 / 469 BP			B P						x 28	x 28		x 28 BP	
	T1	S R	9.9 / 1 389	9L 2.0 / 413	(3.1) 5NL 4.6 / 563 KK	5NL 3.3 / 413 SR		S R						x 80	x 80	x 80 KK		
	T1	P W	10.1 / 1 407	9L 2.0 / 413	(3.5) 5NL 4.6 / 563	5NL 3.5 / 431 PW		P W						x 42	x 42	x 42		
DIRECT	T2	N N	4.6 / 320	BS 9NL 4.6 / 320 NN				N N					NN x 16 BS					
DIRECT	T4	N W	8.2 / 569	BS 9NL 4.6 / 320 NN	9NL 3.6 / 249 NW			N W				NW x 69	NN x 69 BS					
	T4	B K	4.8 / 1 040	9L 1.8 / 376	9L 1.2 / 269	9L 1.8 / 395 BK		B K		BK x 41	NWb x 41	x 41	x 41					
TOLL		[L S]	(4.1) 6.3 / 604 1 354	9L 1.8 / 376	9L 1.2 / 269	9L 1.7 / 378	9L 1.6 / 331 LS	[L S]	LS • 72	• 72	• 72	• 72	• 72					

NO. 66

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE
T2	BANGSUE (B S)

TRANSMISSION ROUTE



NO. 19

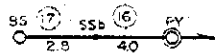
KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (db) / RESISTANCE TOTAL / TAY	TRANSMISSION SYSTEM & LOSS (db) RESISTANCE (Ω)		NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (17)	(16)	22	(19)	26	(21)				
TDM	T2	PY	34 / 733	9L 1.0 / 209	65L 24 / 524	PY	PY BS 214	SSb 214 PY							
DIRECT	T2	PY	34 / 733	9L 1.0 / 209	65L 24 / 524	PY	x 70	x 70							
DIRECT	T2	IM	84 / 1 362	9L 1.0 / 209	65L 24 / 524	6NL 5.0 / 619 IM	x 19	x 19	x 19 IM						
DIRECT	T2	LP1	65 / 1 425	9L 1.0 / 209	65L 22 / 494	65L 33 / 722 LP1	x 28	x 28		28 LPb	28 LP1				
DIRECT	T2	LP2	80 / 1 765	9L 1.0 / 209	65L 22 / 494	55L 3.1 / 692	9L 17 / 370 LP2	x 18	x 18		18 LPb	18 LP1	18 LP2		
TDM	T3	PL	60 / 1 326	9L 1.0 BS / 209	65L 22 SSb / 494	65L 28 PY / 623 PL		PL BS 26	65 26 PY						
DIRECT	T3	PL	75 / 1 657	9L 1.0 / 209	65L 22 / 494	6SL 4.3 / 956		x 30	x 30						
DIRECT	T3	ASD	92 / 1 303	9L 1.0 / 209	65L 24 / 524	65NL 5.8 / 370 ASD		x 18	x 18						
DIRECT	T3	SV	78 / 1 722	9L 1.0 / 209	65L 22 / 494	65L 2.6 PL / 593	65L 20 SV / 426	x 14	x 14						
DIRECT	T3	KT	1.0 / 1 846	9L 1.0 / 209	9L 1.3 / 256	65L 2.6 / 593	9L 15 MM / 325	65NL 4.7 KT / 463	x 13	x 13					
DIRECT	T3	MM	85 / 1 855	9L 1.0 / 209	65L 22 / 494	65L 2.6 / 593	65L 27 / 599		x 6	x 6					
TDM	T4	LS	60 / 1 277	9L 1.0 BS / 209	9L 1.2 SSb / 256	9L 22 PY / 481	9L 1.6 BK / 331 LS		LS BS 21	SSb 21 PY					
DIRECT	T4	LS	70 / 1 515	9L 1.0 / 209	65L 22 / 494	9L 22 / 481	9L 1.6 / 331		x 7	x 7					
MC	T4	LS	60 / 1 277	9L 1.0 / 209	9L 1.2 PY / 256	9L 22 / 481	9L 1.6 / 331 LS		LS 5	5					
DIRECT	T4	RID	75 / 495/ 663	9L 1.0 / 209	9L 1.4 / 286	PCM 20 LS	9L 3.1 / 663 RID		x 17	x 17					
DIRECT	T4	DM	54 / 733	9L 1.0 / 209	65L 24 / 524	PCM 2.0	PCM – DM		x 24	x 24					
TDM	T6	PN	54 / 733	9L 1.0 BS / 209	65L 24 SSb / 524	PCM 20 PY			PN BS 38	SSb 38 PY					
DIRECT	T6	CP	83 / 1 826	9L 1.0 / 209	65L 22 / 494	65L 27 / 593	9L 24 CP / 530		x 12	x 12					
DIRECT	T6	BN	91 / 1 974	9L 1.0 / 209	9L 1.2 / 256	9L 42 PN / 923	65L 27 BN / 586		x 13	x 13					
DIRECT	T6	KC	54 / 733	9L 1.0 / 209	65L 24 / 524	PCM 20 LP2	PCM – LP2	PCM – KC	x 28	x 28		38 LPb	28 LP1	28 LP2	
DIRECT	T6	PS	94 / 733/ 855	9L 1.0 / 209	65L 24 / 524	PCM 20 PN	9L 1.5 / 318 BN	65L 25 / 537 PS	x 6	x 6					
DIRECT	T6	MM	86 / 1 874	9L 1.0 / 209	9L 1.2 / 256	9L 17 / 378 PL	65L 47 / 1 031		x 16	x 16					

NO. 67

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE
T2	BANGSUE (BS) NO. 19

TRANSMISSION ROUTE



KIND OF CIRCUIT	DESTINATION MANUAL EM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (17)	(16)
TDM	T5	TH	5.9 / 1277	BS 9L 1.0 / 209 SSb 9L 1.2 / 256 PY 9L 2.1 / 468 SW 9L 1.6 / 344 TH	TH BS △ 3.1	SSb △ 3.1 PY —
DIRECT		TH	7.8 / 1711	9L 1.0 / 209 , 9L 1.2 / 256 , 65L 4.0 / 902 , 9L 1.6 / 344 ,	TH , X 2.4	, X 2.4 , —
		PO	(10.4) 11.2 / 495/60+1090	9L 1.0 / 209 , 9L 1.4 / 286 , PCM 2.0 , PCM — , 65L 2.4 DK / 537 , 65L 4.4 PO / 957	PO , X 1.4	, X 1.4 , —
		DK	9.0 / 1974	9L 1.0 / 209 , 9L 1.2 / 256 , 65L 4.0 / 902 , 9L 1.4 / 314 , 9L 1.4 / 293 ,	DK , X 1.3	, X 1.3 , —
		BC	10.7 / 1912	9L 1.0 / 209 , 9L 1.2 / 256 , 65L 4.0 / 902 , 9L 1.6 / 344 , 9NL 2.9 BC / 201	BC , X 1.3	, X 1.3 , —
		CN	10.0 / 733/1003	9L 1.0 / 209 , 65L 2.4 / 524 , PCM 2.0 , PCM — , 3L 4.6 CN / 1003	CN , X 1.3	, X 1.3 , —
TDM	T7	SW	5.5 / 1201	BS 9L 1.0 / 209 SSb 65L 2.2 / 494 PY 9L 2.3 / 498 SW	SW BS △ 2.7	SSb △ 2.7 PY —
DIRECT		SW	7.4 / 1635	9L 1.0 / 209 , 65L 2.2 / 494 , 65L 4.2 / 932 ,	SW , X 6.0	, X 6.0 , —
		TC	8.3 / 1867	9L 1.0 / 209 , 9L 1.2 / 256 , 9L 2.1 / 468 , 3L 4.2 TC / 934	TC , X 1.2	, X 1.2 , —

NO.68

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T1	BANGPLAD (B P) NO.20	BP (4) 25 SS (3) 30 KK (2) 22 SR; (1) 23 PW

KIND OF CIRCUIT	DESTINATION LOCAL / TANDEM	OFFICE	TRANSMISSION LOSS TOTAL(dB) / RESISTANCE TOTAL / T.N	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)								NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (4)	(3)	(2)	(1)
TDM		KK	35 740	65L 16 339 SS	65L 19 401 KK							KK BP	x 217 SS	x 217 KK	
DIRECT		KK	84 1052	5NL 38 469	5L 46 563							KK "	x 82 "	x 82 "	
QTQ		KK	35 740	65L 16 339	65L 19 401							KK "	x 7 "	x 7 "	
DIRECT	T1	SR	107 1238	5NL 38 469	65NL 36 356	5NL 33 413 SR						SR "	x 152 "	x 152 "	x 152 SR
		PW	101 1084	65NL 30 297	65NL 36 356	5NL 35 431 PW						PW "	x 64 "	x 64 "	x 64 PW
		SS	38 469	5NL 38 469 SS								SS "	x 56 SS		
TDM		PL	59 27	65L 16 339 BP SS	65L 17 371 KK	65L 26 56 PL						PL BP	△ 16 SS	△ 16 KK	—
DIRECT		PL	105 1933	5NL 38 469	5L 28 607	5L 39 657						PL "	x 72 "	x 72 "	—
		MM	100 1828	65NL 30 297	65L 19 401	65L 24 531	65L 27 599 MM					MM "	x 16 "	x 16 "	—
		KT	83 1835	65L 16 339	65L 17 371	9L 12 276	65L 25 569	9L 13 280 KT				KT "	x 18 "	x 18 "	—
	T3	SV	106 1951	65NL 30 297	65L 19 401	5L 37 827	65L 20 426 SV					SV "	x 13 "	x 13 "	—
		ASD	85 1863	65L 16 339	65L 17 371	9L 12 276	5L 40 877 ASD					ASD "	x 18 "	x 18 "	—
DIRECT	T5	PD	79 1696	65L 16 339 BP SS	9L 09 192 KK	9L 18 391 TM	9L 12 263 DK	9L 11 237 RB	9L 13 274 PD			PD BP	x 14 SS	x 14 KK	—
TDM		PN	35 740	65L 16 339 BP SS	65L 19 401 KK	PCM 20 PL	PCM — PN					PN BP	△ 36 SS	△ 36 KK	—
DIRECT		CP	87 1896	65L 16 339	9L 09 192	65L 24 531	65L 38 833 CP					CP "	x 30 "	x 30 "	—
	T6	PS	87 901	65L 16 339	9L 09 192	9L 12 276	9L 23 513 PN	9L 13 288 BN	9L 14 293 SS			PS "	x 6 "	x 6 "	—
		HM	98 778	65NL 30 297	65L 19 401	65L 24 531	9L 25 549 HM					HM "	x 14 "	x 14 "	—
		KC	89 1952	65L 16 339	65L 17 371	9L 12 276	9L 23 519	9L 21 447 KC				KC "	x 12 "	x 12 "	—

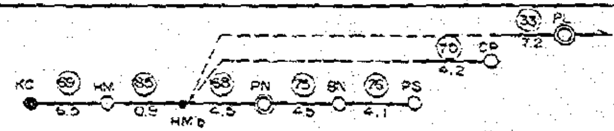
CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T1	BANGPLAD (B P) NO. 20	BP (4) SS 25 (3) KK 30 (15) SSb 27 (16) PY 40 (17) BS 28 (18) NN 54 (20) NW 42 (14) CN 48 (61) TH 49

KIND OF CIRCUIT	DESTINATION TAN DEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (4) (3) (15) (16) (17) (18) (20) (14) (61)
TDM	T2	PY	5.3 / 787	65NL 3.0 / 297 — SS — 9L 2.3 / 490 — PY	PY BP Δ 23 SS Δ 23 RO Δ 23 PY
DIRECT	T2	PY	9.5 / 866	5NL 3.8 / 469 — 9NL 5.7 / 397	PY X 48 X 48 X 48
DIRECT	T2	BS	8.5 / 795	5NL 3.8 / 469 — 9NL 4.7 / 326 — BS	BS X 28 X 28 X 28 BS
DIRECT	T2	LP1	8.4 / 1479	65NL 3.0 / 297 — 9L 2.1 / 460 — PY 65L 3.3 / 722 — LP1	LP1 X 14 X 14 X 14 PY
DIRECT	T2	LP2	9.9 / 1819	65NL 3.0 / 297 — 9L 2.1 / 460 — 65L 3.1 / 692 — 9L LT / 370 — LP2	LP2 X 13 X 13 X 13
TDM	T4	LS	5.5 / 740	BP 65L 1.6 / 339 — SS — 65L 1.9 / 401 — KK PCM 2.0 — PY PCM — LS	LS BP Δ 23 SS Δ 23 KK
DIRECT	T4	NW	7.8 / 1325	65NL 3.0 / 297 — 9L 1.8 / 383 — BS 9L 1.6 / 346 — NN 9L 1.4 / 299 — NW	NW X 14 X 14 SO X 14 BS X 14 NN X 14 NW
DIRECT	T4	BK	7.8 / 1728	65L 1.6 / 339 — 9L 1.9 / 430 — PY 65L 4.3 / 959 — BK	BK X 15 X 15 X 15 PY
DIRECT	T4	RID	8.6 / 740/663	65L 1.6 / 339 — 65L 1.9 / 401 — KK PCM 2.0 — PY PCM — LS 9L 3.1 / 663 — RID	RID X 13 X 13 KK
TDM	T5	TH	(44) 7.2 / 60+1596	BP 65L 2.8 / 623 — CN 5L 4.4 / 973 — TH	TH BP Δ 24 CN Δ 24 TH
DIRECT	T5	TH	10.4 / 1573	65NL 5.9 / 570 — 5L 4.6 / 1003	TH X 38 X 38
TOLL	T5	TH	(44) 7.2 / 60+1596	65L 2.8 / 623 — 5L 4.4 / 973	TH * 63 * 63
MC	T5	TH	(44) 7.2 / 60+1596	65L 2.8 / 623 — 5L 4.4 / 973	TH Δ 5 Δ 5
DIRECT	T5	BC	8.2 / 1814	65L 2.8 / 623 — 5L 4.2 / 943 — 9L 1.2 / 248 — BC	BC X 16 X 16
DIRECT	T5	DK	8.4 / 1859	65L 2.8 / 623 — 5L 4.2 / 943 — 9L 1.4 / 293 — DK	DK X 14 X 14
	T5	CN	5.8 / 570	65NL 5.8 / 570	CN X 26
TDM	T7	SW	5.3 / 1311	BP 65L 1.6 / 339 — SS — 65L 1.7 / 371 — KK 9L 2.0 / 421 — SW	SW BP Δ 20 SS Δ 20 KK
DIRECT	T7	SW	10.2 / 1860	5NL 3.8 / 469 — 5L 2.8 / 607 — 65L 3.6 / 784	SW X 83 X 83
	T7	TC	10.1 / 1844	65NL 3.0 / 297 — 9L 1.1 / 222 — 9L 1.8 / 391 — 5L 4.2 / 934 — TC	TC X 12 X 12

CIRCUIT ASSEMBLY LIST

KC 1/2

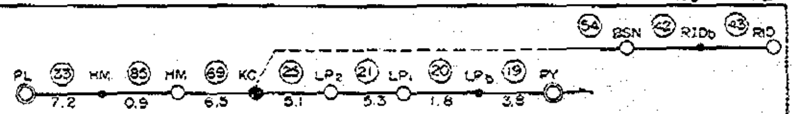
TANDEM	OFFICE	TRANSMISSION ROUTE
T6	KLONGCHAN (KC)	
	NO. 21	

KIND OF CIRCUIT	DESTINATION TANDEM SW.	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)					OFFICE	69	85	68	75	76	70	33
TDM	T1	KK (boxed)	5.8 / 1272	9L 2.1 / 447	9L 2.3 / 519	9L 1.4 / 306			KK (boxed)	Δ 56	Δ 56					Δ 56
DIRECT		KK	8.0 / 1754	9L 2.1 / 447	65L 4.5 / 1001	9L 1.4 / 306			KK	X 34	X 34					X 34
OTD		KK (boxed)	(4.0)5.8 / 50—1272	9L 2.1 / 447	9L 2.3 / 519	9L 1.4 / 306			KK (boxed)	• 11	• 11					• 11
DIRECT		PW	10.5 / 1928	9L 2.1 / 447	65L 4.7 / 1031	9NL 3.7 / 450			PW	X 31	X 31					X 31
DIRECT		SR	7.7 / 1701	9L 2.1 / 447	9L 2.3 / 519	65L 3.3 / 735			SR	X 56	X 56					X 56
DIRECT		SS	8.7 / 1898	9L 2.1 / 447	9L 2.3 / 519	65L 2.4 / 531	65L 1.9 / 401		SS	X 18	X 18					X 18
DIRECT		BP	8.9 / 1952	9L 2.1 / 447	9L 2.3 / 519	9L 1.2 / 276	65L 1.7 / 371	65L 1.6 / 339	BP	X 12	X 12					X 12
TDM	T3	PL (boxed)	4.6 / 996	9L 2.1 / 447	9L 2.5 / 549				PL (boxed)	Δ 53	Δ 53					Δ 53
DIRECT		PL	8.5 / 1864	65L 3.8 / 833	65L 4.7 / 1031				PL	X 38	X 38					X 38
DIRECT		SV	8.6 / 1874	9L 2.1 / 447	65L 4.5 / 1001	65L 2.0 / 426			SV	X 14	X 14					X 14
DIRECT		ASD	8.4 / 1843	9L 2.1 / 447	9L 2.3 / 519	5L 4.0 / 877			ASD	X 13	X 13					X 13
DIRECT		MM	10.7 / 1750	9L 2.1 / 447	65L 4.7 / 1031	9NL 3.9 / 272			MM	X 6	X 6					X 6
DIRECT		KT	10.4 / 1796	9L 2.1 / 447	9L 2.3 / 519	65L 2.7 / 599	9NL 3.3 / 231		KT	X 13	X 13					X 13
TDM	T6	PN (boxed)	(4.0)5.3 / 60—1144	9L 2.1 / 447	65L 3.2 / 697				PN (boxed)	• 452	• 452	• 452				
TOLL		PN (boxed)	(4.0)5.3 / 60—1144	9L 2.1 / 447	65L 3.2 / 697				PN (boxed)	• 94	• 94	• 94				
MC		PN (boxed)	5.3 / 1144	9L 2.1 / 447	65L 3.2 / 697				PN (boxed)	Δ 9	Δ 9	Δ 9				
DIRECT		HM	7.9 / 772	65NL 7.9 / 772					HM	X 44						
DIRECT		BN	7.8 / 1700	9L 2.1 / 447	65L 3.0 / 667	65L 2.7 / 586			BN	X 14	X 14	X 14	X 14			
DIRECT		PS	9.0 / 1963	9L 2.1 / 447	65L 3.0 / 667	65L 2.5 / 556	9L 1.4 / 293		PS	X 6	X 6	X 6	X 6	X 6		
DIRECT		CP	10.2 / 1468	65L 4.0 / 863	65NL 5.2 / 605				CP	X 74	X 74				X 74	

NO. 71

CIRCUIT ASSEMBLY LIST

KC 2/2

TANDEM	OFFICE	TRANSMISSION ROUTE
T6	KLONGOCHAN (KC)	

NO.21

KIND OF CIRCUIT	DESTINATION 2ND EM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)		NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS 33	85	69	25	21	20	19	54	42	43
TDM	T2	[PY]	2.0	KC PCM 2.0 LP2 PCM – LP1 PCM – PY	[PY]				KC Δ 41	LP2 Δ 41	LP1 Δ 41	LPb Δ 41	PY		
DIRECT		PY	2.0	PCM 2.0 , PCM – , PCM – ,	PY				, × 46	, × 46	, × 46	, × 46	,		
		LP1	6.4 / 701	9L 1.9 / 387 , 9NL 4.5 / 314 ,	LP1				, × 17	, × 17	,				
		LP2	1.9 / 387	9L 1.9 / 387 ,	LP2				, × 44	,					
		IM	6.0 / 392	PCM 2.0 , PCM – LP1 PCM – PY 65NL 4.0 / 392 IM	IM				, × 18	, × 18	LP1 × 18	LPb × 18	PY —		
		BS	8.4 / 733	PCM 2.0 , PCM – , PCM – , 65L 2.4 / 524 SSb 9L 1.0 / 209 BS	BS				, × 28	, × 28	, × 28	, × 28	, —		
TDM	T4	[LS]	5.9 / 848	KC PCM 2.0 LP2 PCM – LP1 PCM – PY 9L 3.9 / 848 LS	[LS]				KC Δ 43	LP2 Δ 43	LP1 Δ 43	LPb Δ 43	PY —		
DIRECT		DM	(5.8) 8.2 / 60+1348	PCM 2.0 , PCM – , PCM – , 9L 3.7 / 812 LS 9L 2.5 / 536 DM	DM				, × 18	, × 18	, × 18	, × 18	, —		
		RIO	9.2 / 1016	9NL 6.6 / 462 BSN 9L 2.6 / 554 RIO	RIO				,				× 40 BSN	× 40 RIDb	× 40 RIO
		BK	6.5 / 989	PCM 2.0 LP2 PCM – LP1 PCM – PY 65L 4.5 / 989 BK	BK				, × 38	LP2 × 38	LP1 × 38	LPb × 38	PY —		
		NW	6.0 / 855	PCM 2.0 , PCM – , PCM – , 9L 2.3 / 485 NW 9L 1.7 / 370 NW	NW				, × 17	, × 17	, × 17	, × 17	, —		
TDM	T5	[TH]	5.9 / 842	KC PCM 2.0 PY 9L 2.3 / 498 SW 9L 1.6 / 344 TH	[TH]				KC Δ 53	LP2 Δ 53	LP1 Δ 53	LPb Δ 53	PY —		
DIRECT		TH	(5.4) 7.2 / 60+1134	PCM 2.0 , 9L 2.3 / 498 , 65L 2.9 / 636 ,	TH				, × 25	, × 25	, × 25	, × 25	, —		
		PD	7.9 / 842	PCM 2.0 , 9L 2.3 / 498 , 9L 1.6 / 344 , PCM 2.0 DK PCM – PD	PD				, × 6	, × 6	, × 6	, × 6	, —		
TDM	T7	[SW]	5.5 / 1227	KC 9L 2.1 / 447 HM 9L 2.3 / 519 PL 9L 1.2 / 261 SW	[SW]	PL Δ 50	HM Δ 50	HM Δ 50	KC						
DIRECT		SW	8.8 / 1925	9L 2.1 / 447 , 65L 4.5 / 1001 , 65L 2.2 / 473 ,	SW	, × 54	, × 54	, × 54	,						

NO.72

CIRCUIT ASSEMBLY LIST

1 M 1/2

TANDEM	OFFICE	TRANSMISSION ROUTE
T2	INTAMARA (I.M.) NO. 22	1M (22) 3.3 PY / (16) 4.0 SS / (17) 2.8 BS

KIND OF CIRCUIT	DESTINATION EXCH DEM	OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)								NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (22)	(16)	(17)								
TOM	T1	K K	5.3 IM / 1197	65L 2.0 PY / 438	65L 3.3 KK / 759							K K IM	4 / 39	PY —								
DIRECT		K K	9.4	65NL 4.0	9L 3.4							K K	x / 38	—								
			1387	392	1195																	
TOLL		K K	3.9	65L 2.0	9L 1.9							K K	* / 33	—								
			846	438	408																	
OTD		K K	3.9	65L 2.0	9L 1.9							K K	* / 6	—								
			846	438	408																	
DIRECT		S S	10.7	5NL 5.0	9NL 5.7 SS							S S	x / 17	—	x / 17	SS —						
			1015	619	397																	
		P W	10.0	65L 2.2	3NL 7.8 PW							P W	x / 36	—								
			1424	468	956																	
DIRECT	T2	B S	8.4 IM	5NL 5.0 PY	65L 2.4 SS	9L 1.0 BS						B S IM	x / 19	PY —	x / 19	SS —	x / 19	BS —				
			1352	619	524	209																
TOM	T3	P L	4.8 IM	65L 2.0 PY	65L 2.8 PL							P L IM	4 / 18	PY —								
			1061	438	623																	
DIRECT		P L	9.5	5NL 5.0	9L 4.5							P L	x / 28	—								
			1603	619	984																	
		S V	9.8	5NL 5.0	65L 2.8	65L 2.0 SV						S V	x / 15	—								
			1668	619	623	426																
		K T	10.8	65L 2.0	65L 2.6	9L 1.5	65NL 4.7 KT					K T	x / 6	—								
			1819	438	593	325	463															
		A S O	10.8	3NL 5.0	65NL 5.8 ASO							A S O	x / 37	—								
			1189	619	570																	
TOM	T4	T H	5.7 IM	65L 2.0 PY	9L 2.1 SW	9L 1.6 TH						T H IM	4 / 32	PY —								
			1250	438	496	344																
DIRECT	T5	P D	(82)11.0 468/60-1494	65L 2.2	PCM 2.0	PCM —	65L 2.4 DK	65L 4.4 PD				P D	x / 6	—								
				468			537	957														
		T H	8.9	65L 2.0	65L 4.0	65L 2.9						T H	x / 14	—								
			1976	438	902	636																

NO. 73

CIRCUIT ASSEMBLY LIST

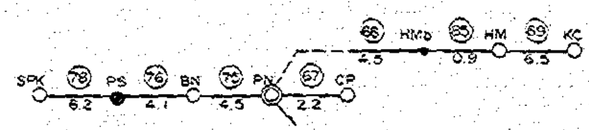
TANDEM	OFFICE	TRANSMISSION ROUTE
T2	INTAMARA (IM) NO. 22	IM (22) 3.3 — PY (19) 3.6 — LPD (20) 1.8 — LP1 (21) 5.3 — LP2

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)				NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (22)	(19)	(20)	(21)								
TDM		PY	4.0 / 392 IM	65NL 4.0 PY / 392				PY IM	x 277 PY										
DIRECT		PY	5.0 / 619 "	5NL 5.0 / 619 "				PY "	x 48 "										
TOLL		PY	4.0 / 392 "	65NL 4.0 / 392 "				PY "	x 38 "										
DIRECT	T2	LP1	8.5 / 1371 "	5NL 5.0 / 619 "	65L 3.5 LP1 / 752 "			LP1 "	x 28 "	x 28 LP1	x 28 LP2								
		LP2	10.0 / 1711 "	5NL 5.0 / 619 "	65L 3.3 / 722 "	9L 1.7 LP2 / 370		LP2 "	x 17 "	x 17 LP1	x 17 LP2	x 17							
TDM		LS	3.7 / 1250 IM	65L 2.0 PY / 438 "	9L 3.7 LS / 812			LS IM	x 17 PY	—									
MC		LS	3.7 / 1250 "	65L 2.0 / 438 "	9L 3.7 / 812			LS "	x 5 "	—									
DIRECT	T4	BK	9.5 / 1608 "	5NL 5.0 / 619 "	65L 4.5 BK / 989			BK "	x 20 "	—									
		NW	10.1 / 1746 "	65NL 4.0 / 392 "	65L 4.3 / 959 "	9L 1.8 NW / 393		NW "	x 23 "	—									
		DM	6.0 / 392 "	65NL 4.0 / 392 "	PCM 2.0 LS / 392 "	PCM — DM / 392 "		DM "	x 6 "	—									
		RID	7.3 / 468/663 "	65L 2.2 / 468 "	PCM 2.0 / 468 "	9L 3.1 RID / 663		RID "	x 14 "	—									
TDM		PN	6.0 / 392 IM	65NL 4.0 PY / 392	PCM 2.0 PN / 392			PN IM	x 43 PY	—									
DIRECT	T6	KC	6.0 / 392 "	65NL 4.0 / 392 "	PCM 2.0 LP1 / 392 "	PCM — LP2 / 392 "	PCM — KC / 392 "	KC "	x 18 "	x 18 LP1	x 18 LP2	x 18							
		HM	10.6 / 1831 "	65NL 4.0 / 392 "	9L 1.9 PL / 408	65L 4.7 HM / 1031		HM "	x 16 "	—									
		CP	7.9 / 1740 "	65L 2.0 / 438 "	9L 1.4 CSD / 308	65L 4.5 CP / 994		CP "	x 12 "	—									
TDM	T7	SW	4.3 / 936 IM	65L 2.0 PY / 438 "	9L 2.3 SW / 498			SW IM	x 35 PY	—									
DIRECT		SW	9.4 / 1581 "	5NL 5.0 / 619 "	65L 4.4 / 962 "			SW "	x 18 "	—									

NO. 74

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T 6	POOCHAOSAMINGPRAI (PS) NO.23	



KIND OF CIRCUIT	DESTINATION TAND-EM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)							NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS ⑱	⑯	⑬	⑰	⑱	⑮	⑲	○	○	○
TDM	T1	[KK]	49 / 611	PS 9L 1.4 / 293	BN 9L 1.5 / 318	PN PCM 2.0	PL PCM –	KK		[KK]		PS Δ 27	BN Δ 27	PN —						
DIRECT		KK	87 / 1912	65L 2.5 / 537	65L 2.5 / 556	9L 2.3 / 513	9L 1.4 / 305			KK		● x 28	● x 28	● —						
OTO		[KK]	(38) 49 / 60+611	9L 1.4 / 293	9L 1.5 / 318	PCM 2.0	PCM –			[KK]		● 5	● 5	● —						
DIRECT		PW	101 / 1842	9L 1.4 / 293	65L 2.5 / 556	9L 2.5 / 543	5NL 3.7 / 450 PW			PW		● x 31	● x 31	● —						
		SR	82 / 1829	9L 1.4 / 293	9L 1.3 / 288	9L 2.3 / 513	65L 3.3 / 735 SR			SR		● x 52	● x 52	● —						
		SS	85 / 1847	9L 1.4 / 293	9L 1.3 / 288	9L 2.3 / 513	65L 2.4 / 531 KK	9L 1.1 / 222 SS		SS		● x 6	● x 6	● —						
		BP	87 / 1501	9L 1.4 / 293	9L 1.3 / 288	9L 2.3 / 513	9L 1.2 / 276	9L 0.9 / 192	65L 1.6 / 339 BP	BP		● x 6	● x 6	● —						
TDM	T5	[PL]	52 / 1124	PS 9L 1.4 / 293	BN 9L 1.3 / 288	PN 9L 2.5 / 543 PL				[PL]		PS Δ 26	BN Δ 26	PN —						
DIRECT		PL	1847	9NL 3.5 / 242	65L 2.7 / 586	65L 4.5 / 1019				PL		● x 30	● x 30	● —						
		SV	87 / 1899	65L 2.5 / 537	65L 2.5 / 556	9L 0.7 / 141 CP	5L 3.0 / 665 SV			SV		● x 14	● x 14	● —						
		ASO	84 / 1847	9L 1.4 / 293	9L 1.3 / 288	65L 1.2 / 272	65L 4.5 / 994 ASO			ASO		● x 6	● x 6	● —						
		MM	88 / 1951	9L 1.4 / 293	9L 1.3 / 288	9L 0.6 / 141	65L 1.8 / 408 SV	65L 3.7 / 821 MM		MM		● x 15	● x 15	● —						
		KT	84 / 1856	9L 2.7 / 581 PN	9L 0.6 / 141 CP	9L 1.0 / 212 SV	9L 1.8 / 410 MM	65L 2.3 / 512 KT		KT		● x 17	● x 17	● —						
TDM	T6	[PN]	40 / 879	PS 9L 1.4 / 293	BN 65L 2.6 / 586 PN					[PN]		PS 215	BN 215	PN						
DIRECT		PN	104 / 1020	65NL 5.0 / 486	65NL 5.4 / 534					PN		● x 13	● x 13	●						
TOLL		[PN]	40 / 879	9L 1.4 / 293	65L 2.6 / 586					[PN]		● 45	● 45	●						
MC		[PN]	51 / 1123	65L 2.5 / 537	65L 2.6 / 586					[PN]		● Δ 4	● Δ 4	●						
DIRECT		SPK	53 / 367	9NL 5.3 / 367 SPK						SPK	SPK x 18	●								
		BN	50 / 486	65NL 5.0 / 486 BN						BN		● x 46 BN								
		CP	85 / 1535	65L 2.5 / 537	65L 2.7 / 586 PN	5NL 3.3 / 412 CP				CP		● x 34	● x 34	PN x 34 CP						
		HM	82 / 1790	65L 2.5 / 537	65L 2.5 / 556	65L 3.2 / 697 HM				HM		● x 13	● x 13	●	x 13 HMb	x 13 HM				
		KC	90 / 1963	9L 1.4 / 293	65L 2.5 / 556	65L 3.0 / 667	9L 2.1 / 447 KC			KC		● x 6	● x 6	●	x 6 ●	x 6 ●	x 6 KC			

NO. 75

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T 6	POOCHAOSAMINGPRAI (PS) NO 23	SPK (76) 5.2 PS (76) 4.1 BN (75) 4.5 PN

KIND OF CIRCUIT	DESTINATION TAND-EM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)							NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (78) (76) (75)	
TDM	T2	PY	49 611	PS 9L 1.4 293	BN 9L 1.5 318	PN PCM 2.0	PCM –	PY			PY	PS Δ 30 BN Δ 30 PN —
DIRECT		PY	83 1802	9L 1.4 293	65L 2.5 556	9L 2.8 615	9L 1.6 338	PY			PY	" X 12 " X 12 " —
		BS	94 855/733	65L 2.5 537	9L 1.3 318	PCM 2.0	PCM –	PY 45L 3.4 723	BS		BS	" X 6 " X 6 " —
		LP2	84 611/769	9L 1.4 293	9L 1.5 318	PCM 2.0	PCM –	PY 9L 1.8 389	LP2 9L 1.7 370	LP2	LP2	" X 12 " X 12 " —
TDM	T4	LS	49 611	PS 9L 1.4 293	BN 9L 1.5 318	PN PCM 2.0	PCM –	PY	LS		LS	PS Δ 22 BN Δ 22 PN —
DIRECT		RID	91 855/663	65L 2.5 537	9L 1.5 318	PCM 2.0	PCM –	9L 3.1 663	RID		RID	" X 6 " X 6 " —
TDM	T3	TH	49 611	PS 9L 1.4 293	BN 9L 1.5 318	PN PCM 2.0	PL PCM –	SW PCM –	TH		TH	PS Δ 37 BN Δ 37 PN —
DIRECT		TH	60 855	65L 2.5 537	9L 1.5 318	PCM 2.0	PCM –	PCM –			TH	" X 21 " X 21 " —
		DK	87 855/567	65L 2.5 537	9L 1.5 318	PCM 2.0	PCM –	PCM –	65L 2.7 567	DK	DK	" X 5 " X 5 " —
		PD	90 611/60+494	9L 1.4 293	9L 1.5 318	PCM 2.0	TH 65L 2.4 537	DK 65L 2.0 457	RB 65L 2.4 500	PD	PD	" X 18 " X 18 " —
TDM	T7	SW	60 855	65L 2.5 537	9L 1.5 318	PCM 2.0	PL PCM –	SW			SW	PS Δ 45 BN Δ 45 PN —
DIRECT		SW	83 1831	9L 1.4 293	9L 1.3 268	65L 6.4 989	9L 1.2 261				SW	" X 27 " X 27 " —
		TC	93 611/964	9L 1.4 293	9L 1.5 318	PCM 2.0	PCM –	5L 4.0 964	TC		TC	" X 6 " X 6 " —

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
Ts	NONGKHAEM (NK) NO. 24	NEW NK (66) 4.6 — NK (65) 3.6 — NK (64) 4.9 — PC (63) 5.1 — BC (62) 3.4 — TH

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)		NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (66)	(65)	(64)	(63)	(62)
TDM	T1	KK	4.2 / 451	NK PCM 2.0 TH PCM – SW PCM – SL 2.2 NK / 451	KK	NK Δ 17	NK Δ 17	NK Δ 17	PC Δ 17	BC Δ 17 TH
OTD		KK	4.2 / 451	NK PCM 2.0 TH PCM – SW PCM – SL 4.2 / 451	KK	" ± 3	" ± 3	" ± 3	" ± 3	" ± 3 "
TDM	T2	PY	2.0	NK PCM 2.0 TH PCM – SW PCM – PY	PY	NK Δ 7	NK Δ 7	NK Δ 7	PC Δ 7	BC Δ 7 TH
TDM	T3	PL	2.0	NK PCM 2.0 TH PCM – SW PCM – PL	PL	" Δ 10	" Δ 10	NK Δ 10	PC Δ 10	BC Δ 10 TH
TDM	T4	LS	5.9 / 842	NK PCM 2.0 TH PCM – SW PCM – SW SL 3.9 LS / 842	LS	NK Δ 6	NK Δ 6	NK Δ 6	PC Δ 6	BC Δ 6 TH
TDM	T9	TH	2.0	NK PCM 2.0 TH	TH	NK ▽ 122	NK ▽ 122	NK ▽ 122	PC ▽ 122	BC ▽ 122 TH
MC		TH	2.0	PCM 2.0	TH	" Δ 3	" Δ 3	" Δ 3	" Δ 3	" Δ 3 "
TOLL		TH	2.0	PCM 2.0	TH	" ▽ 19	" ▽ 19	" ▽ 19	" ▽ 19	" Δ 19 "
TDM	T6	PK	4.7 / 573	NK PCM 2.0 TH PCM – SW PCM – PK SL 2.7 TH / 573	PK	NK Δ 11	NK Δ 11	NK Δ 11	PC Δ 11	BC Δ 11 TH
TDM	T7	SW	5 / 666	NK PCM 2.0 TH 65 3 SW / 666	SW	NK Δ 9	NK Δ 9	NK Δ 9	PC Δ 9	BC Δ 9 TH

NO 77

CIRCUIT ASSEMBLY LIST

SPK 1/1

TANDEM	OFFICE	TRANSMISSION ROUTE
T6	SAMUTPRAKAN (SPK) NO. 25	

KIND OF CIRCUIT	DESTINATION TAN DEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (78) (76) (75) (74)
TDM	T1	KK	2.0	SPK PCM 2.0 PS — PCM- PN — PCM- PL — PCM- KK	KK SPK △ 49 PS — △ 49 PN
OTD		KK	2.0	PCM 2.0 — PCM- — PCM- — PCM-	KK " ▲ 5 " — ▲ 5 "
TDM	T2	PY	2.0	PCM 2.0 — PCM- — PCM- PY — PCM- PY	PY SPK △ 25 PS — △ 25 PN
TDM	T3	PL	4.7 / 573	PCM 2.0 — PCM- — 9L 2.7 / 573 PL	PL SPK △ 33 PS — △ 33 PN
DIRECT		PL	9.1 / 1997	9L 2.0 / 427 — 9L 2.5 / 551 — 65L 4.6 / 1019	PL " X 12 " — X 12 BN — X 12 PN
		MM	(59) 8.3 / 60-1400	PCM 2.0 PN — 9L 0.8 / 171 CP — 65L 1.8 / 408 SV — 65L 3.7 / 821 MM	MM " X 6 " — X 6 PN
		KT	(59) 8.3 / 60-1400	PCM 2.0 — 65L 1.6 / 302 — 65L 1.8 / 408 — 9L 1.8 / 410 — 9L 1.3 / 280 KT	KT " X 6 " — X 6 "
TDM	T4	LS	2.0	SPK PCM 2.0 PS — PCM- CP — PCM- ASK — PCM- PY — PCM- LS	LS SPK △ 18 PS — △ 18 PN
TDM	T5	TH	2.0	SPK PCM 2.0 PS — PCM- PN — PCM- PL — PCM- SW — PCM- TH	TH SPK △ 28 PS — △ 28 PN
DIRECT		PO	(60) 8.8 / 60+1499	PCM 2.0 — PCM- — PCM- TH — 65L 2.6 / 537 DK — 65L 4.4 / 957 PO	PO " X 12 " — X 12 "
		TH	(63) 9.4 / 60+1624	PCM 2.0 — PCM- — 9L 2.5 / 543 PL — 65L 2.0 / 445 SW — 65L 2.9 / 636 TH	TH " X 13 " — X 13 "
TDM	T6	PN	2.0	SPK PCM 2.0 PS — PCM- PN	PN SPK ▲ 297 PS — ▲ 297 PN
TOLL		PN	2.0	PCM 2.0 — PCM-	PN " ▲ 35 " — ▲ 35 "
MC		PN	5.9 / 1275	9L 2.0 / 427 — 9L 1.2 / 262 BN — 65L 2.7 / 586 PN	PN " △ 4 " — △ 4 BN — △ 4 PN
DIRECT		PS	5.3 / 367	9NL 5.3 / 367	PS " X 18 " —
		BN	10.3 / 853	9NL 5.3 / 367 — 65NL 5.0 / 486 BN	BN " X 14 " — X 14 BN
TDM	T7	SW	2.0	SPK PCM 2.0 PS — PCM- PN — PCM- PL — PCM- SW	SW SPK △ 31 PS — △ 31 PN
DIRECT		SW	(60) 8.8 / 60+1494	PCM 2.0 — PCM- — 65L 4.6 / 1019 — 65L 2.8 / 475	SW " X 18 " — X 18 "

NO. 78

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T4	RANGS : T (R.S) NO. 26	RS (52) 110 — DM (50) 79 — LS

KIND OF CIRCUIT	DESTINATION AN DEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (52) (50)	
TDM	T1	KK	4 438	PCM 2.0 LS PCM - PV SL 2 438 KK	KK RS △ 12 DM △ 12 LS	
DTD		KK	4 438	PCM 2.0 PCM - SL 3 438	KK * 3 * 3	
TDM	T2	PY	20	PCM 2.0 PCM -	PY △ 8 △ 8	
TDM	T3	PL	4 438	PCM 2.0 PCM - SL 3 PL 438	PL △ 8 △ 8	
TDM	T4	LS	20	PCM 2.0 DM PCM - LS	LS RS * 124 DM * 124	
TOLL		LS	20	PCM 2.0 PCM -	LS * 19 * 19	
MC		LS	20	PCM 2.0 PCM -	LS △ 3 △ 3	
		DM	94 65	SN 9.4 651	DM X 6	
TDM	T5	TH	20	PCM 2.0 LS PCM - PV PCM - DM PCM - TH	TH RS △ 7 DM △ 7 LS	
TDM	T6	PN	20	PCM 2.0 PCM - PCM - ASD PCM - PN	PN △ 10 △ 10	
TDM	T7	SW	4.5 528	PCM 2.0 PCM - SL 2.5 SW 528	SW △ 8 △ 8	

NO. 79

CIRCUIT ASSEMBLY LIST

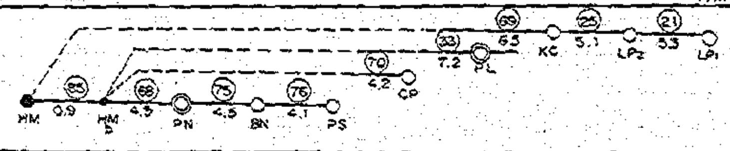
PT 1/1

TANDEM	OFFICE	TRANSMISSION ROUTE
T4	PATHUMTHANI (PT) NO. 27	PT (47) 19.5 PK (46) 6.5 CW (45) 4.2 LS

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (47) (46) (45)	
TDM	T1	KK	4.1 / 438	PT PCM 2.0 LS — PCM — PW — 9L 2.1 / 438 PK	KK	PT Δ 16 PK Δ 16 CW Δ 16 LS —
OTD		KK	4.1 / 438	PCM 2.0 — PCM — 9L 2.1 / 438	KK	" 3 " 3 " 3 "
TDM	T2	PY	2.0	PT PCM 2.0 LS — PCM — PY	PY	PT Δ 8 PK Δ 8 CW Δ 8 LS —
TDM	T3	PL	4.1 / 438	PT PCM 2.0 LS — PCM — PY — 9L 2.1 / 438 PL	PL	PT Δ 9 PK Δ 9 CW Δ 9 LS —
TDM	T4	LS	2.0	PT PCM 2.0 LS	LS	PT " 124 PK " 124 CW " 124 LS
M C		LS	2.0	PCM 2.0	LS	Δ 3 Δ 3 Δ 3
TOLL		LS	2.0	PCM 2.0	LS	" 19 " 19 " 19
TDM	T5	TH	2.0	PT PCM 2.0 LS — PCM — PY — PCM — SW — PCM — TH	TH	PT Δ 8 PK Δ 8 CW Δ 8 LS —
TDM	T6	PN	2.0	PT PCM 2.0 LS — PCM — PY — PCM — ASC — PCM — PN	PN	PT Δ 11 PK Δ 11 CW Δ 11 LS —
TDM	T7	SW	4.5 / 528	PT PCM 2.0 LS — PCM — PY — 9L 2.5 / 528 SW	SW	PT Δ 8 PK Δ 8 CW Δ 8 LS —

NO. 80

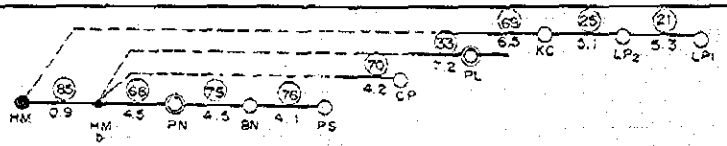
CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T6	HUAMAK (HM) NO.28	

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)		NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (85)	(68)	(73)	(76)	(70)	(33)	(69)	(25)	(21)
TDM	T1	[KK]	3.1 / 1110	HM 9L 2.5 / 549 PL 65L 2.6 / 561 KK	[KK]	HM Δ18	HM D				Δ18 PL —			
OTO		[KK]	3.9 / 85.5	9L 2.5 / 549 " 9L 1.4 / 306 "	[KK]	" 7	"				7 " —			
DIRECT		KK	8.6 / 1888	65L 4.7 / 1031 " 5L 3.9 / 857 "	KK	" x42	"				x42 " —			
		PW	8.6 / 1511	65L 4.9 / 1061 " 5NL 3.7 / 450 PW	PW	" x44	"				x44 " —			
		SR	8.0 / 1766	65L 4.7 / 1031 " 65L 3.3 / 735 SR	SR	" x80	"				x80 " —			
		SS	9.0 / 1963	65L 4.7 / 1031 " 65L 2.4 / 531 KK 65L 1.9 / 401 SS	SS	" x16	"				x16 " —			
		BP	9.8 / 1778	9L 2.5 / 549 " 65L 2.4 / 531 65L 1.9 / 401 " 65NL 3.0 / 297 BP	BP	" x12	"				x14 " —			
TDM	T5	[PL]	4.9 / 1061	HM 65L 4.9 / 1061 PL	[PL]	HM Δ15	HM D				Δ15 PL			
DIRECT		PL	9.8 / 961	" 65NL 9.8 / 961 "	PL	" x65	"				x65 "			
		SV	9.8 / 1661	65L 4.9 / 1061 " 5NL 4.9 / 600 SV	SV	" x29	"				x29 " —			
		ASD	8.7 / 1908	65L 4.7 / 1031 " 5L 4.0 / 877 ASD	ASD	" x40	"				x40 " —			
		MM	10.5 / 1607	65L 4.9 / 1061 " 65NL 5.6 / 546 MM	MM	" x17	"				x17 " —			
		KT	10.7 / 1861	65L 4.7 / 1031 " 65L 2.7 / 599 " 5NL 3.3 / 231 KT	KT	" x18	"				x18 " —			
TDM	T6	[PN]	3.4 / 727	HM 65L 3.4 / 727 PN	[PN]	HM 241	HM D 241	PN						
TOLL		[PN]	3.4 / 727	65L 3.4 / 727 "	[PN]	" 68	" 68	"						
MC		[PN]	3.4 / 727	65L 3.4 / 727	[PN]	" Δ5	" Δ5	"						
DIRECT		PN	6.5 / 641	" 65NL 6.5 / 641 "	PN	" x19	" x19	"						
		KC	7.9 / 772	65NL 7.9 / 772 KC	KC	"						x44 KC		
		BN	10.2 / 1570	65L 3.4 / 727 PN 5NL 6.8 / 843 BN	BN	" x16	HM D x16	PN x16 BN						
		PS	3.2 / 1790	65L 3.2 / 697 " 65L 2.5 / 556 " 65L 2.5 / 537 PS	PS	" x13	" x13	" x13	" x13 PS					
		CP	6.2 / 605	HM 65D 6.2 / 605 CP	CP	" x70	"			x70 CP				

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T6	HUAMAK (HM) N023	



KIND OF CIRCUIT	DESTINATION TAN DEV	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)					NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (65) (66) (75) (76) (70) (33) (69) (25) (21)
TDM	T2	PY	5.3 / 1172	HM 9L 2.5 / 349	PL 65L 2.8 / 623	PY			PY HM △16 HM b — 16 PL —
DIRECT		PY	10.7 / 1631	65L 4.9 / 1061	65NL 5.8 / 570				PY " X 32 " — 32 " —
		IM	10.6 / 1831	65L 4.7 / 1031	9L 1.9 / 408	65NL 4.0 / 392 IM			IM " X 16 " — 16 " —
		BS	8.6 / 1874	65L 4.7 / 1031	9L 1.7 / 378	9L 1.2 / 256 BS b	9L 1.0 / 209 BS		BS " X 16 " — 16 " —
		LP1	10.0 / 1504	65L 3.8 KC / 833	9L .7 LP2 / 357	9NL 4.5 / 314 LP1			LP1 " X 18 KC X 18 LP2 X 18 LP1
		LP2	5.5 / 1190	65L 3.8 / 833	9L .7 LP2 / 357				LP2 " X 29 " X 29 "
TDM	T4	LS	4.7 / 579	HM 9L 2.7 / 579	PL PCM 2.0 PY	PCM — LS			LS HM △28 HM b — 28 PL —
DIRECT		BK	8.8 / 1920	65L 4.7 / 1031	9L 1.7 / 378	9L 2.6 BK / 511			BK " X 15 " — 15 " —
		RIO	7.8 / 579/663	9L 2.7 / 579	PCM 2.0	PCM — LS	9L 3.1 / 663 RIO		RIO " X 19 " — 19 " —
TDM	T5	TH	4.7 / 579	HM 9L 2.7 / 579	PL PCM 2.0 SW	PCM — TH			TH HM △37 HM b — 37 PL —
DIRECT		TH	8.6 / 1898	65L 4.7 / 1031	9L 1.0 / 231	65L 2.9 / 636			TH " X 26 " — 26 " —
		DK	6.6 / 579/849	9L 2.7 / 579	PCM 2.0	PCM —	3L 3.9 / 849 DK		DK " X 12 " — 12 " —
		PD	8.5 / 579/804	9L 2.7 / 579	PCM 2.0	PCM —	9L .4 DK / 293	9L 2.4 PD / 511	PD " X 15 " — 15 " —
TDM	T7	SW	4.7 / 1024	HM 9L 2.5 / 349	PL 65L 2.2 / 475	SW			SW HM △30 HM b — 30 PL —
DIRECT		SW	10.4 / 1736	65L 4.9 / 1061	5NL 5.5 / 675				SW " X 63 " — 63 " —
		TC	8.7 / 1928	9L 2.3 / 549	65L 2.0 / 445	5L 2.3 / 519	5L 1.9 TC b / 415		TC " X 13 " — 13 " —

NO. 82

CIRCUIT ASSEMBLY LIST

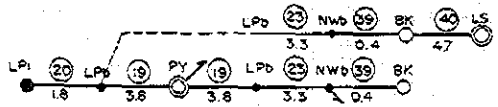
LP-1 1/2

TANDEM	OFFICE	TRANSMISSION ROUTE
T2	LADPRAO - 1 (LP-1) N029	HM (69) 6.5 — KK (23) 3.1 — LP2 (21) 5.3 — LP1 (20) 1.8 — LP3 (19) 3.8 — PY/(22) 3.3 — IM; (16) 4.0 — SS5 — (17) 2.8 — BS

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (69) (23) (21) (20) (19) (22) (16) (17)
TOM	T1	KK	5.2 / 130	LP1 6.5L 3.3 PY 9L 1.9 KK / 722 408	KK: LP1 Δ 16 LP3 Δ 16 PY —
DTD		KK	3.7 / 797	9L 1.8 9L 1.9 / 389 408	KK: · 6 · 6 · —
DIRECT		KK	8.5 / 887	6.5L 3.3 9L 5.2 / 722 165	KK: · X 30 · X 30 · —
		SS	5.4 / 182	6.5L 3.3 9L 2 SS / 722 460	SS: · X 8 · X 8 · X 8 SS2 —
		BP	9.4 / 479	6.5L 3.3 9L 2.1 6.5NL 3.0 BP / 722 460 297	BP: · X 14 · X 14 · X 14 · —
TOM	T2	PY	3.5 / 752	LP1 6.5L 3.3 PY / 752	PY: LP1 ▲ 26C LP3 ▲ 26C PY
DIRECT		PY	6.8 / 665	6.5NL 6.8 / 665	PY: · X 50 · X 50 ·
		LP2	4.5 / 314	9NL 4.5 LP2 / 314	LP2: LP3 X 26 ·
		IM	8.5 / 137	5.5L 3.5 PY 9NL 5.0 IM / 752 619	IM: · X 28 LP3 X 28 PY X 28 IM
		BS	5.5 / 625	6.5L 3.3 6.5L 2.2 SS5 9L 1.0 BS / 722 494 209	BS: · X 26 · X 28 · X 28 SS2 X 28 BS
TOM	T5	PN	3.5 / 752	LP1 6.5L 3.5 PY PCM 2.0 PN / 752	PN: LP1 Δ 36 LP3 Δ 36 PY —
DIRECT		KC	6.4 / 701	9NL 4.5 LP2 9L 1.9 KC / 314 387	KC: KC X 17 LP2 X 17 ·
		HM	10.0 / 1504	9NL 4.5 9L 1.7 6.5L 3.8 / 314 357 833	HM: HM X 18 · X 18 · X 18 ·
		CP	8.4 / 845	6.5L 3.3 PY 6.5L 2.7 MCC 9L 2.4 CP / 722 593 330	CP: · X 30 LP3 X 30 PY —
TOM	T7	SW	5.5 / 220	LP1 6.5L 3.3 PY 9 23 SW / 722 498	SW: LP1 Δ 27 LP3 Δ 27 PY —
DIRECT		SW	7.4 / 1654	6.5L 3.3 6.5L 4.2 / 722 932	SW: · X 48 · X 48 · —

NO. 83

CIRCUIT ASSEMBLY LIST

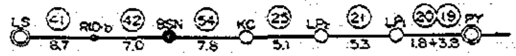
TANDEM	OFFICE	TRANSMISSION ROUTE
T2	LADPRAO - I (LP-1) NO.29	

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)
DIRECT	T1	SR	7.5 / 1 654	LP1 65L 3.3 / 722 PY 65L 4.2 / 932 SR
		PW	7.8 / 1 733	〃 65L 3.3 / 722 〃 5L 4.5 / 1 011 PW
TDM	T3	[PL]	5.2 / 1 130	LP1 65L 3.3 / 722 〃 9L 1.9 / 408 PL
DIRECT		PL	7.6 / 1 676	〃 65L 3.3 / 722 〃 9L 4.3 / 954 〃
		MM	8.6 / 1 914	〃 65L 3.3 / 722 〃 65L 2.6 / 593 〃 65L 2.7 / 599 MM
		ASD	9.3 / 1 322	〃 65L 3.5 / 752 〃 65NL 5.8 / 570 ASD
		SV	7.9 / 1 741	〃 65L 3.3 / 722 〃 65L 2.6 / 593 PL 65L 2.0 / 426 SV
		KT	10.9 / 1 818	〃 65L 3.3 / 722 〃 9L 1.4 / 308 〃 9L 1.5 / 325 MM 65NL 4.7 / 463 KT
TDM	T4	[LS]	4.6 / 994	LP1 9L 1.8 / 383 BK 65L 2.8 / 611 LS
TOLL		[LS]	3.4 / 715	〃 9L 1.8 / 383 〃 9L 1.6 / 332 〃
MC		[LS]	4.6 / 994	〃 9L 1.8 / 383 〃 65L 2.8 / 611 〃
DIRECT		LS	7.7 / 971	〃 9L 2.0 / 413 〃 65NL 5.7 / 558 〃
		BK	7.6 / 1 681	LP1 65L 3.3 / 722 PY 65L 4.3 / 959 BK
		NW	10.8 / 1 520	〃 65NL 6.8 / 665 〃 9L 2.3 / 485 NWb 9L 1.7 / 377 NW
		RIO	8.6 / 752 / 663	〃 65L 3.5 / 752 〃 PCM 2.0 LS 9L 3.1 / 663 RIO
TDM	T5	[TH]	5.5 / 752	LP1 65L 3.5 / 752 PY PCM 2.0 SW PCM – TH
DIRECT		TH	8.3 / 1 826	〃 65L 3.3 / 722 〃 9L 2.1 / 468 〃 65L 2.9 / 636 〃

OFFICE	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (20)	(19)	(19)	(23)	(39)	(40)
SR	LP1 x 60	LPa x 60	PY —			
PW	〃 x 38	〃 x 38	〃 —			
[PL]	LP1 Δ 22	LPa Δ 22	PY —			
PL	〃 x 30	〃 x 30	〃 —			
MM	〃 x 12	〃 x 12	〃 —			
ASD	〃 x 16	〃 x 16	〃 —			
SV	〃 x 13	〃 x 13	〃 —			
KT	〃 x 14	〃 x 14	〃 —			
[LS]	LP1 Δ 22	LPa		LPb Δ 22	NWb Δ 22	BK Δ 22 LS
[LS]	〃 • 53	〃		〃 • 53	〃 • 53	〃 • 53 〃
[LS]	〃 Δ 5	〃		〃 Δ 5	〃 Δ 5	〃 Δ 5 〃
LS	〃 x 13	〃		〃 x 13	〃 x 13	〃 x 13 〃
BK	〃 x 27	〃 x 27	PY x 27	〃 x 27	〃 x 27 〃	
NW	〃 x 14	〃 x 14	〃 x 14	〃 x 14	〃 —	
RIO	〃 x 17	〃 x 17	〃 —			
[TH]	LP1 Δ 39	LPa Δ 39	PY —			
TH	〃 x 20	〃 x 20	〃 —			

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T4	BANGSHUN (BSN) NO. 31	

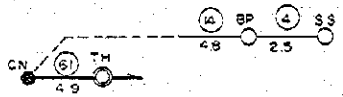


KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (db) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (db) RESISTANCE (Ω)							NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (41)	(42)	(54)	(25)	(21)	(20)(19)
TDM	T1	KK	4.1 / 438	BSN PCM 2.0 KC	PCM – LP2	PCM – LP1	PCM – PY	9L 2.1 / 438 KK		KK			BSN △ 22 KC	△ 22 LP2	△ 22 LP1	△ 22 PY —
OTD	T1	KK	4.1 / 438	・ PCM 2.0 ・	PCM – ,	PCM – ・	PCM – ,	9L 2.1 / 438 ・		KK			・ 4 ,	4 ,	4 ・	4 , —
TDM	T2	PY	2.0	BSN PCM 2.0 KC	PCM – LP2	PCM – LP1	PCM – PY			PY			BSN △ 14 KC	△ 14 LP2	△ 14 LP1	△ 14 PY
TDM	T3	PL	4.1 / 438	BSN PCM 2.0 KC	PCM – LP2	PCM – LP1	PCM PY	9L 2.1 / 438 PL		PL			BSN △ 16 KC	△ 16 LP2	△ 16 LP1	△ 16 PY —
TDM	T4	LS	2.0	BSN PCM 2.0 LS						LS	LS ・ 173 RID b	・ 173 BSN				
TDM	T5	TH	5.9 / 842	BSN PCM 2.0 KC	PCM – LP2	PCM – LP1	PCM – PY	9L 2.3 / 498 SW	9L 1.6 / 344 TH	TH			BSN △ 11 KC	△ 11 LP2	△ 11 LP1	△ 11 PY —
TDM	T6	PN	2.0	BSN PCM 2.0 LS	PCM – PY	PCM – ASO	PCM – PN			PN	LS △ 19 RID b	△ 19 BSN				
TOLL	T6	PN	2.0	・ PCM 2.0 ・	PCM – ・	PCM – ・	PCM – ・			PN	, ・ 26 ・	・ 26 ・				
M C	T6	PN	2.0	・ PCM 2.0 ・	PCM – ・	PCM – ・	PCM – ・			PN	, △ 3 ・	△ 3 ・				
TDM	T7	SW	4.5 / 528	BSN PCM 2.0 KC	PCM – LP2	PCM – LP1	PCM – PY	9L 2.5 / 528 SW		SW			BSN △ 12 KC	△ 12 LP2	△ 12 LP1	△ 12 PY —

NO. 85

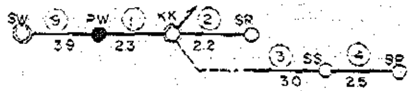
CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
TS	CHARUNSANITWONG (CN) NO.32	



KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (61) (14) (4)
TDM	T1	KK	6.4 / 1394	CN 5L 4.4 / 973 TH 9L 2.0 / 421 KK	KK CN △ 11 TH
OTD	T1	KK	(4.2) 6.4 / 60+1394	" 5L 4.4 / 973 " 9L 2.0 / 421 "	KK " ▪ 6 "
DIRECT		KK	8.0 / 1757	" 5L 4.4 / 973 " 65L 3.6 / 784 "	KK " X 48 "
		SR	11.0 / 1791	" 5L 4.6 / 1003 " 5NL 6.4 / 788 SR	SR " X 108 "
		BP	5.8 / 570	" 65NL 5.8 / 570 BP	BP " X 26 BP
		PW	9.9 / 1825	" 5L 4.4 / 973 TH 9L 2.0 / 421 KK 5NL 3.5 / 431 PW	PW " X 34 TH
		SS	9.6 / 1039	" 65NL 5.8 / 570 BP 5NL 3.9 / 469 SS	SS X 23 BP X 23 SS
TDM	T2	PY	(4.7) 8.1 / 60+1785	CN 5L 4.4 / 973 TH 9L 1.4 / 314 PY 9L 2.3 / 498 PY	PY CN △ 30 TH
DIRECT	T2	PY	8.1 / 1785	" 5L 4.4 / 973 " 9L 1.4 / 314 " 9L 2.3 / 498 "	PY " X 12 "
		BS	10.0 / 1003/733	" 5L 4.6 / 1003 " PCM 2.0 " PCM- " 65L 3.4 / 733 BS	BS " X 13 "
TDM	T3	PL	(4.8) 8.3 / 60+1840	CN 5L 4.4 / 973 TH 65L 2.7 / 606 SW 9L 1.2 / 261 PL	PL CN △ 22 TH
DIRECT	T3	PL	8.3 / 1840	" 5L 4.4 / 973 " 65L 2.7 / 606 " 9L 1.2 / 261 "	PL " X 28 "
		MM	8.7 / 1933	" 5L 4.4 / 973 " 9L 1.4 / 314 " 5L 2.9 / 646 MM	MM " X 7 "
		ASD	10.8 / 1003/907	" 5L 4.6 / 1003 " PCM 2.0 " PCM- " 5L 4.2 / 907 ASD	ASD " X 12 "
		KT	10.4 / 1003/837	" 5L 4.6 / 1003 " PCM 2.0 " PCM- " 9L 1.5 / 323 MM 65L 2.3 / 512 KT	KT " X 8 "
TDM	T4	LS	(4.2) 6.6 / 60+1003	CN 5L 4.6 / 1003 TH PCM 2.0 / SW PCM- / PCM- LS	LS CN △ 24 TH
TDM	T5	TH	(3.8) 4.6 / 60+1003	CN 5L 4.6 / 1003 TH	TH CN ▪ 296 TH
TOLL	T5	TH	(3.8) 4.6 / 60+1003	" 5L 4.6 / 1003 "	TH " ▪ 54 "
M C	T5	TH	4.6 / 1003	" 5L 4.6 / 1003 "	TH " △ 5 "
DIRECT	T5	TH	7.5 / 919	" 5NL 7.5 / 919 "	TH " X 42 "
		BC	9.8 / 1641	" 5L 4.6 / 1003 " 5NL 5.2 / 638 BC	BC " X 20 "
		DK	10.8 / 1772	" 5L 4.6 / 1003 " 5NL 6.2 / 769 DK	DK " X 14 "
TDM	T6	PN	(4.2) 6.6 / 60+1003	CN 5L 4.6 / 1003 TH PCM 2.0 / PCM	PN CN △ 43 TH
TDM	T7	SW	6.0 / 1317	CN 5L 4.4 / 973 TH 9L 1.6 / 344 SW	SW CN △ 25 TH
DIRECT	T7	SW	8.8 / 1946	" 5L 4.4 / 973 " 5L 4.4 / 973 "	SW " X 51 "

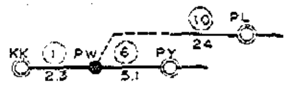
CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T1	PATHUMWAN (PW) NO. 34	

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (db) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (db) RESISTANCE (Ω)				OFFICE	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS ⑨	①	②	③	④
TDM	T1	[KK]	3.5 / 431	PW 5NL 3.5 / 431 KK				[KK]		PW • 373 KK			
TOLL		[KK]	3.5 / 431	5NL 3.5 / 431				[KK]		• 73			
OTO		[KK]	3.5 / 431	5NL 3.5 / 431				[KK]		• 14			
MC		[KK]	3.5 / 431	5NL 3.5 / 431				[KK]		Δ 10			
DIRECT		KK	3.5 / 431	5NL 3.5 / 431				KK		x 296			
		SR	6.8 / 844	5NL 3.5 / 431	5NL 3.3 / 413 SR			SR		x 484	x 484 SR		
		SS	8.1 / 994	5NL 3.5 / 431	2NL (2) 4.6 / 563 SS			SS		x 76		x 76 SS	
		BP	10.1 / 1084	5NL 3.5 / 431	65NL 3.6 / 356	65NL 3.0 / 297 BP		BP		x 64		x 64	x 64 BP
TDM	T5	[TH]	5.8 / 1257	PW 5L 2.2 / 473 KK	65L 3.6 / 784 TH			[TH]		PW Δ 72 KK	—		
DIRECT		TH	10.9 / 1155	5NL 3.5 / 431	65NL 7.4 / 724			TH		x 112	—		
		DK	9.6 / 1752	5NL 3.5 / 431	65L 3.6 / 784	65L 2.5 / 537 DK		DK		x 46	—		
		PD	10.7 / 1989	5NL 3.5 / 431	65L 3.6 / 784	9L 1.2 / 263	9L 2.4 / 511 PD	PD		x 40	—		
		CN	9.9 / 1825	5NL 3.5 / 431	9L 2.0 / 421	5L 4.4 / 973 CN		CN		x 34	—		
		BC	10.2 / 1899	5NL 3.5 / 431	65L 3.6 / 784	5L 3.1 / 684 BC		BC		x 35	—		
TDM	T7	[SW]	5.9 / 731	PW 5NL 5.9 / 731 SW				[SW]	SW Δ 60 PW				
DIRECT		SW	5.9 / 731	5NL 5.9 / 731				SW	x 368				
		TC	10.3 / 1695	5NL 5.9 / 731	5L 4.4 / 964 TC			TC	x 59				
		TK	10.8 / 1811	5NL 5.9 / 731	5L 4.9 / 1080 TK			TK	x 12				

NO. 87

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T1	PATHUMWAN (PW) NO. 34	

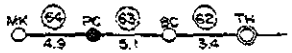
KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (db) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (db) RESISTANCE (Ω)					OFFICE	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (1)	(6)	(10)
TDM	T2	[PY]	4.7 / 1041	PW 5L 4.7 / 1041 PY					[PY]		PW △ 44 PY	
DIRECT	T2	PY	7.8 / 956	〃 5NL 7.8 / 956 〃					PY		〃 x 120 〃	
TOLL	T2	[PY]	(3.9) 4.7 / 60+1041	〃 5L 4.7 / 1041 〃					[PY]		〃 • 85 〃	
DIRECT	T2	IM	10.0 / 1424	〃 5NL 7.8 / 956 PY	65L 2.2 / 468 IM				IM		〃 x 36 〃	—
DIRECT	T2	LP1	7.8 / 1733	〃 5L 4.5 / 1011 〃	65L 3.3 / 722 LP1				LP1		〃 x 38 〃	—
DIRECT	T2	LP2	7.8 / 1740	〃 5L 4.5 / 1011 〃	9L 1.6 / 359 〃	9L 1.7 / 370 LP2			LP2		〃 x 36 〃	—
DIRECT	T2	BS	10.1 / 1407	〃 5NL 3.5 / 431 KK	5NL (3.1) 4.6 / 563 SS	9L 2.0 / 413 BS			BS	KK x 42 〃		
TDM	T3	[PL]	3.7 / 450	PW 5NL 3.7 / 450 PL					[PL]		PW	△ 46 PL
DIRECT	T3	PL	3.7 / 450	〃 5NL 3.7 / 450 〃					PL		〃	x 337 〃
DIRECT	T3	MM	9.3 / 996	〃 5NL 3.7 / 450 〃	65NL 5.6 / 546 MM				MM		〃	x 63 〃 —
DIRECT	T3	KT	8.7 / 1561	〃 5NL 3.7 / 450 〃	65L 2.7 / 599 〃	65L 2.3 / 512 KT			KT		〃	x 60 〃 —
DIRECT	T3	SV	8.6 / 1050	〃 5NL 3.7 / 450 〃	5NL 4.9 / 600 SV				SV		〃	x 60 〃 —
DIRECT	T3	ASD	10.4 / 1275	〃 5NL 3.7 / 450 〃	5NL 6.7 / 825 ASD				ASD		〃	x 99 〃 —
TDM	T4	[LS]	5.5 / 431	PW 5NL 3.5 / 431 KK	PCM 2.0 PY	PCM — LS			[LS]	KK △ 55 PW		
DIRECT	T4	LS	8.2 / 1823	〃 5L 4.5 / 1011 PY	9L 3.7 / 812 LS				LS		〃 x 6 PY	—
DIRECT	T4	BK	8.8 / 1970	〃 5L 4.5 / 1011 〃	65L 4.3 / 959 BK				BK		〃 x 34 〃	—
DIRECT	T4	NW	8.5 / 1887	〃 5L 4.5 / 1011 〃	9L 2.2 / 481 〃	9L 1.8 / 395 NW			NW		〃 x 28 〃	—
TDM	T6	[PN]	4.8 / 1035	PW 5L 2.3 / 492 PL	9L 2.5 / 543 PN				[PN]		PW	△ 68 PL —
DIRECT	T6	PN	8.5 / 1499	〃 5NL 3.7 / 450 〃	65L 4.8 / 1049 〃				PN		〃	x 30 〃 —
DIRECT	T6	BN	9.8 / 1787	〃 5NL 3.7 / 450 〃	65L 4.6 / 1019 〃	9L 1.5 / 318 BN			BN		〃	x 31 〃 —
DIRECT	T6	PS	10.1 / 1842	〃 5NL 3.7 / 450 〃	9L 2.5 / 543 〃	65L 2.5 / 556 BN	9L 1.4 / 293 PS		PS		〃	x 31 〃 —
DIRECT	T6	CP	9.6 / 1761	〃 5NL 3.7 / 450 〃	5L 2.9 / 646 SV	5L 3.0 / 665 CP			CP		〃	x 112 〃 —
DIRECT	T6	HM	8.6 / 1511	〃 5NL 3.7 / 450 〃	65L 4.9 / 1061 HM				HM		〃	x 44 〃 —
DIRECT	T6	KC	10.5 / 1928	〃 5NL 3.7 / 450 〃	65L 4.7 / 1031 〃	9L 2.1 / 447 KC			KC		〃	x 31 〃 —

NO. 68

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE
T5	PHASEECHAROEN (PC) NO. 35

TRANSMISSION ROUTE

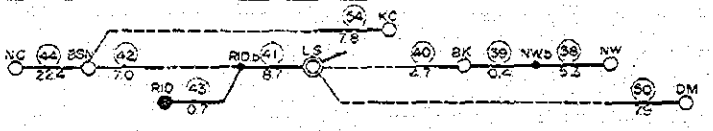


KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)									NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (64)	(63)	(62)	
TDM	T1	KK	6.0 1 299	PC 65L 3.0 660	BC 9L 1.0 218	TH 9L 2.0 421	KK						KK	PC Δ 47	BC Δ 47	TH —
OTD		KK	(40) 6.0 60+1 299	65L 3.0 660	9L 1.0 218	9L 2.0 421							KK	" - 5	" - 5	" —
TDM	T2	PY	6.2 908	PC 65L 3.0 660	BC 9L 1.2 248	TH PCM 2.0	SW PCM —	PY					PY	PC Δ 20	BC Δ 20	TH —
TDM	T3	PL	6.2 908	PC 65L 3.0 660	BC 9L 1.2 248	TH PCM 2.0	SW PCM —	PL					PL	PC Δ 26	BC Δ 26	TH —
TDM	T4	LS	6.2 908	PC 65L 3.0 660	BC 9L 1.2 248	TH PCM 2.0	SW PCM —	PY	PCM —	LS			LS	PC Δ 15	BC Δ 15	TH —
DIRECT	T5	EC	7.7 1 690	PC 65L 3.0 660	BC 9L 1.0 218	TH 9L 1.2 263	SW 9L 2.5 549	EC					EC	" X 21	" X 21	" —
		BC	6.2 605	65NL 6.2 605									BC	" X 14	"	
TDM		TH	4.2 908	65L 3.0 660	9L 1.2 248	TH							TH	" Δ 267	" - 267	TH
DIRECT		TH	9.5 1 319	65NL 6.2 605	5L 3.3 714								TH	" X 18	" X 18	"
TOLL		TH	4.2 908	65L 3.0 660	9L 1.2 248								TH	" - 35	" - 35	"
M C		TH	4.2 908	65L 3.0 660	9L 1.2 248								TH	" Δ 4	" Δ 4	"
TDM	T6	PN	6.2 908	PC 65L 3.0 660	BC 9L 1.2 248	TH PCM 2.0	SW PCM —	PL	PCM —	PN			PN	PC Δ 28	BC Δ 28	TH —
TDM	T7	SW	5.6 1 222	PC 65L 3.0 660	BC 9L 1.0 218	TH 9L 1.6 344	SW						SW	PC Δ 27	BC Δ 27	TH —

CIRCUIT ASSEMBLY LIST

TANDEM: T4 — OFFICE: RAMINDRA (RID) NO. 36

TRANSMISSION ROUTE



KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (44) (42) (43) (41) (34) (40) (39) (38) (50)	
TDM	T1	KK	5.1 / 663	RID 9L 3.1 / 663 LS — PCM 2.0 SY — PCM — KK	KK	RID Δ 25 RIDb Δ 25 LS
DIRECT		KK	5.1 / 663	9L 3.1 / 663 — PCM 2.0 — PCM —	KK	X 30 X 30
OTD		KK	(39) 5.1 / 60+663	9L 3.1 / 663 — PCM 2.0 — PCM —	KK	* 6 * 6
DIRECT		SR	8.4 / 663/413	9L 3.1 / 663 — PCM 2.0 — PCM — 5NL 3.3 SR / 413	SR	X 52 X 52
		BP	8.6 / 663/740	9L 3.1 / 663 — PCM 2.0 — PCM — 65L 1.9 SS / 401 65L 1.6 BP / 339	BP	X 13 X 13
		SS	8.1 / 663/637	9L 3.1 / 663 — PCM 2.0 — PCM — 5L 3.0 / 637	SS	X 12 X 12
TDM	T2	PY	5.1 / 663	RID 9L 3.1 / 663 LS — PCM 2.0 PY	PY	RID Δ 26 RIDb Δ 25 LS
DIRECT		PY	5.1 / 663	9L 3.1 / 663 — PCM 2.0	PY	X 16 X 16
		BS	7.3 / 663/495	9L 3.1 / 663 — PCM 2.0 — 9L 2.4 BS / 495	BS	X 17 X 17
		IM	7.3 / 663/468	9L 3.1 / 663 — PCM 2.0 — 65L 2.2 IM / 468	IM	X 14 X 14
		LP1	8.6 / 663/752	9L 3.1 / 663 — PCM 2.0 — 65L 3.5 LP1 / 752	LP1	X 17 X 17
		LP2	8.6 / 663/753	9L 3.1 / 663 — PCM 2.0 — 9L 1.8 9L 1.7 LP2 / 383 370	LP2	X 24 X 24
TDM	T3	PL	5.1 / 663	RID 9L 3.1 / 663 LS — PCM 2.0 PY — PCM — PL	PL	RID Δ 3 RIDb Δ 31 LS
DIRECT		PL	5.1 / 663	9L 3.1 / 663 — PCM 2.0 — PCM —	PL	X 30 X 30
		MM	9.0 / 663/629	9L 3.1 / 663 — PCM 2.0 — PCM — 65L 2.9 MM / 629	MM	X 7 X 7
		SV	7.3 / 663/456	9L 3.1 / 663 — PCM 2.0 — PCM — 65L 2.2 SV / 456	SV	X 6 X 6
		KT	7.9 / 663/605	9L 3.1 / 663 — PCM 2.0 — PCM — 9L 1.5 9L 1.3 KT / 325 280	KT	X 14 X 14
TDM	T4	LS	3.1 / 663	RID 9L 3.1 / 663 LS	LS	RID * 217 RIDb * 217 LS
DIRECT		LS	5.6 / 1222	65L 5.6 / 1222	LS	X 16 X 16
MC		LS	5.6 / 1222	65L 5.6 / 1222	LS	Δ 5 Δ 5
DIRECT		NW	7.3 / 1609	9L 2.9 / 633 — 65L 2.6 BK / 58 — 9L 1.6 NW / 395	NW	X 14 X 14 X 14 BK X 14 NWb X 14 NW
		BK	9.2 / 1803	65L 5.4 / 192 — 65L 2.8 / 611	BK	X 21 X 21 X 21 BK
		DM	7.9 / 1728	65L 5.4 / 192 — 9L 2.5 DM / 536	DM	X 16 X 16 X 16 DM
TOLL		LS	3.1 / 663	9L 3.1 / 663	LS	* 59 * 59

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T4	RAMINDRA RID NO.36	

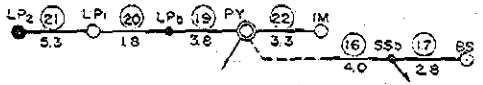
KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (44) (42) (43) (41) (54) (40) (39) (38) (50)
TDM	T5	TH	5.1 RID 663	9L 3.1 LS 663 PCM 2.0 TH	TH: RID Δ 38, RID b Δ 38 LS
DIRECT		TH	5.1 663	9L 3.1 663 PCM 2.0	TH: x 19, x 19
TDM		PN	5.1 RID 663	9L 3.1 LS 663 PCM 2.0 PN	PN: RID Δ 41, RID b Δ 41
DIRECT		PN	5.1 663	9L 3.1 663 PCM 2.0	PN: x 6, x 6
		CP	9.1 663/864	9L 3.1 663 PCM 2.0 PY PCM – PL 65L 2.0 SV 426 65L 2.0 CP 438	CP: x 30, x 30
		BN	8.0 663/816	9L 3.1 663 PCM 2.0 PN 65L 2.9 BN 616	BN: x 7, x 7
		KC	9.2 816	9L 2.6 EQN 9NL 6.6 KC 554 462	KC: EQN x 40, x 40, x 40 KC
		PS	9.1 663/855	9L 3.1 LS 663 PCM 2.0 PN 9L 1.5 BN 318 65L 2.5 PS 537	PS: x 6, x 6 LS
		HM	7.8 663/579	9L 3.1 663 PCM 2.0 PY PCM – PL 9L 2.7 HM 579	HM: x 19, x 19
TDM	T7	SW	5.1 RID 663	9L 3.1 LS 663 PCM 2.0 PY PCM – SW	SW: RID Δ 32, RID b Δ 32 LS
DIRECT		SW	5.1 663	9L 3.1 663 PCM 2.0 PCM –	SW: x 54, x 54
		TC	9.5 663/964	9L 3.1 663 PCM 3.0 PCM – 9L 4.2 TC 964	TC: x 6, x 6

NO. 91

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE
T2	LADPRAO - 2 (LP - 2) NO. 37

TRANSMISSION ROUTE



KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)						NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (21)	(20)	(19)	(22)	(16)	(17)					
TDM	T1	KK	5.2 / 1137	9L 1.7 / 370	9L 1.6 / 359	9L 1.9 / 408				KK	LP2 Δ 17	LPI Δ 17	LPb Δ 17	PY —						
DIRECT		KK	8.3 / 1821	9L 1.7 / 370	6SL 3.1 / 692	6SL 3.5 / 759				KK	X 32	X 32	X 32	—						
OTD		KK	(39) 5.2 / 60+1137	9L 1.7 / 370	9L 1.6 / 359	9L 1.9 / 408				KK	* 6	* 6	* 6	—						
DIRECT		SS	6.9 / 1522	9L 1.7 / 370	6SL 3.1 / 692	9L 2.1 / 460	SS			SS	X 13	X 13	X 13		X 13	SSb —				
		BP	9.9 / 1819	9L 1.7 / 370	6SL 3.1 / 692	9L 2.1 / 460	6SNL 30 / 297	BP		BP	X 13	X 13	X 13		X 13	—				
		SR	9.0 / 1994	9L 1.7 / 370	6SL 3.1 / 692	6SL 4.2 / 932	SR			SR	X 64	X 64	X 64	—						
		PW	7.8 / 1740	9L 1.7 / 370	9L 1.6 / 359	3L 4.5 / 1001	PW			PW	X 36	X 36	X 36	—						
TDM	T2	PY	3.5 / 759	9L 1.7 LP2 / 370	9L 1.8 PY / 389					PY	* 194	* 194	* 194	PY						
DIRECT		PY	5.0 / 1092	9L 1.7 / 370	6SL 3.3 / 722					PY	X 34	X 34	X 34							
		LP1	4.5 / 314	9NL 4.5 / 314						LP1	X 26									
		IM	10.0 / 1711	9L 1.7 / 370	6SL 3.3 PY / 722	3NL 5.0 IM / 619				IM	X 17	X 17	LP X 17	PY X 17	IM					
		BS	8.0 / 1765	9L 1.7 / 370	6SL 3.1 / 692	6SL 2.2 SS / 494	9L 10 b BS / 209			BS	X 18	X 18	X 18		X 18	SSb X 18	BS			
TDM	T3	TH	5.5 / 759	9L 1.7 LP2 / 370	9L 1.8 PY / 389	PCM 2.0 SW	PCM — TH			TH	LP2 Δ 36	LPI Δ 36	LPb Δ 36	PY —						
DIRECT		TH	5.5 / 759	9L 1.7 / 370	9L 1.8 / 389	PCM 2.0	PCM —			TH	X 21	X 21	X 21							
		PD	9.3 / 759/804	9L 1.7 / 370	9L 1.8 / 389	PCM 2.0	PCM —	9L 1.4 DK / 293	9L 24 PD / 511	PD	X 12	X 12	X 12							
		DK	8.2 / 1804	9L 1.7 / 370	9L 1.6 / 359	9L 2.1 / 468	9L 1.4 / 314	9L 1.4 / 293		DK	X 6	X 6	X 6	—						

NO. 92

CIRCUIT ASSEMBLY LIST

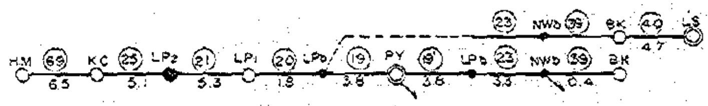
TANDEM	OFFICE	TRANSMISSION ROUTE
T2	LADPRAO - 2 (LP - 2) NO. 37	LP2 (21) 5.3 LP1 (20) 1.8 LP3 (19) 3.8 PY

KIND OF CIRCUIT	DESTINATION TAN DEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (21)	(20)	(19)
TDM	T3	PL	5.2 / 1137	9L 1.7 / 370 — 9L 1.6 / 359 — 9L 1.9 / 408	PL	Δ 25	Δ 25	Δ 25
DIRECT	T3	PL	10.6 / 1659	9N 4.5 / 316 — 65L 2.3 / 722 — 65 3.8 / 623	PL	X 42	X 42	X 42
DIRECT	T3	ASD	10.8 / 1662	9L 1.7 / 370 — 65 3.3 / 722 — 65NL 5.8 / 370	ASD	X 15	X 15	X 15
DIRECT	T3	MM	8.6 / 1921	9L 1.7 / 370 — 9L 1.6 / 359 — 65L 2.6 / 593 — 65L 2.7 / 599	MM	X 15	X 15	X 15
DIRECT	T3	SV	7.9 / 1748	9L 1.7 / 370 — 9L 1.6 / 359 — 65 2.6 / 593 — 65L 2.0 / 425	SV	X 16	X 16	X 16
DIRECT	T3	KT	10.9 / 1825	9L 1.7 / 370 — 9L 1.6 / 359 — 9L 1.6 / 308 — 9L 1.5 / 325 — 65NL 4.7 / 463	KT	X 16	X 16	X 16
TDM	T6	PN	3.5 / 759	9L 1.7 / 370 — 9L 1.8 / 389 — PCM 2.0 — PCM —	PN	Δ 36	Δ 36	Δ 36
DIRECT	T6	PN	7.7 / 1682	9L 1.7 / 370 — 9L 1.6 / 359 — 9L 1.4 / 308 — 9L 3.0 / 645	PN	X 6	X 6	X 6
DIRECT	T6	CP	8.6 / 1900	9L 1.7 / 370 — 65L 3.1 / 692 — 9L 1.4 / 308 — 9L 2.4 / 530	CP	X 36	X 36	X 36
DIRECT	T6	BN	9.0 / 1970	9L 1.7 / 370 — 9L 1.6 / 359 — 9L 1.4 / 308 — 9L 2.8 / 615 — 9L 1.5 / 318	BN	X 6	X 6	X 6
DIRECT	T6	PS	8.4 / 759/611	9L 1.7 / 370 — 9L 1.8 / 389 — PCM 2.0 — PCM — 9L 2.9 / 611	PS	X 12	X 12	X 12
TDM	T7	SW	3.6 / 1227	9L 1.7 / 370 — 9L 1.6 / 359 — 9L 2.3 / 498	SW	Δ 30	Δ 30	Δ 30
DIRECT	T7	SW	9.0 / 1994	9L 1.7 / 370 — 65L 3.1 / 692 — 65L 4.2 / 932	SW	X 45	X 45	X 45
DIRECT	T7	TC	9.9 / 759/964	9L 1.7 / 370 — 9L 1.8 / 389 — PCM 2.0 — 9L 4.4 / 964	TC	X 6	X 6	X 6

NO. 93

CIRCUIT ASSEMBLY LIST

LP-2 3/3

TANDEM	OFFICE	TRANSMISSION ROUTE
T2	LADPRAO - 2 (LP - 2) NO. 37	

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)			
TDM	T4	[LS]	4.9 / 1055	LP2 9L 1.7 / 370	LP1 9L 1.6 / 353	BK 9L 1.6 / 332 LS	
DIRECT	T4	LS	9.1 / 1308	" 9NL 4.5 / 314	" 9L 1.8 / 383	" 65L 2.8 / 611 "	
MC	T4	[LS]	4.9 / 1055	" 9L 1.7 / 370	" 9L 1.6 / 353	" 9L 1.6 / 332 "	
DIRECT	T4	BK	7.6 / 1688	" 9L 1.7 / 370	" 9L 1.6 / 359	PY 65L 4.3 / 959 BK	
DIRECT	T4	NW	8.6 / 1887	" 9L 1.7 / 370	" 65L 3.1 / 692	" 9L 2.1 / 455	NW0 9L 1.7 / 370 NW
DIRECT	T4	RID	8.6 / 753/663	" 9L 1.7 / 370	" 9L 1.8 / 383	" PCM 2.0	LS 9L 3.1 / 663 RID
DIRECT	T4	DM	5.5 / 753	" 9L 1.7 / 370	" 9L 1.8 / 383	" PCM 2.0	" PCM — DM
TOLL	T4	[LS]	(4.0) 4.9 / 60+1055	" 9L 1.7 / 370	" 9L 1.6 / -353	BK 9L 1.6 / 332 LS	
DIRECT	T6	HM	5.5 / 1190	LP2 9L 1.7 / 357	KC 65L 3.8 / 833 HM		
DIRECT	T6	KC	1.9 / 387	" 9L 1.9 / 387 "			

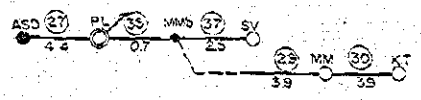
NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS

OFFICE	(69)	(25)	(21)	(20)	(19)	(19')	(23)	(39)	(40)
[LS]			LP2 Δ 26	LP1 Δ 26	LP0		Δ 26	NW0 Δ 26	BK Δ 26 LS
LS			" x 7	" x 7	"		x 7	" x 7	" x 7 "
[LS]			" Δ 5	" Δ 5	"		Δ 5	" Δ 5	" Δ 5 "
BK			" x 23	" x 23	" x 23	PY x 23	LP5 x 23	" x 23	"
NW			" x 12	" x 12	" x 12	" x 12	" x 12	" —	
RID			" x 24	" x 24	" x 24	" —			
DM			" x 6	" x 6	" x 6	" —			
[LS]			" • 54	" • 54	"		• 54	NW0 • 54	BK • 54 LS
HM	HM x 29	KC x 29	LP2						
KC		" x 44	"						

NO. 94

CIRCUIT ASSEMBLY LIST

ASD 1/2

TANDEM	OFFICE	TRANSMISSION ROUTE
T_3	ASOKDINDAENG (ASD) NO 38	

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (27) (35) (37) (29) (30)
TDM	T_1	KK	5.4 1183	5L 4.0 ASD, 9L 1.4 PL, KK 877, 306	KK ASD 20 PL
TOLL		KK	(39)5.4 60+1183	5L 4.0, 9L 1.4 877, 306	KK * 54
OTD		KK	(39)5.4 60+1183	5L 4.0, 9L 1.4 877, 306	KK * 11
DIRECT		KK	10.7 1713	5L 4.2, 5NL 6.5 907, 806	KK x 62
		PW	10.4 1275	5NL 6.7, 5NL 3.7 PW 825, 450	PW x 99
		SR	7.3 1612	5L 4.0, 6SL 3.3 SR 877, 735	SR x 132
		SS	8.3 1809	5L 4.0, 6SL 2.4 KK, 6SL 1.9 SS 877, 531, 401	SS x 17
		BP	8.5 1863	5L 4.0, 9L 1.2, 6SL 1.7, 6SL 1.6 BP 877, 276, 371, 339	BP x 18
TDM	T_3	PL	4.2 907	ASD 5L 4.2 PL 907	PL ASD * 457 PL
DIRECT		PL	6.7 825	5NL 6.7 825	PL x 156
		SV	8.9 1281	5NL 6.7, 6SL 2.2 SV 825, 456	SV x 22 x 22 MM/S x 22 SV
		MM	9.8 1453	5L 4.2, 6SNL 5.6 MM 907, 546	MM x 18 x 18 x 18 MM
		KT	8.8 1958	5L 4.0, 6SL 2.5, 6SL 2.3 KT 877, 569, 512	KT x 16 x 16 x 16 x 16 KT
TDM	T_5	TH	(47)7.9 60+1744	ASD 5L 4.0 PL, 9L 1.0 SV, 6SL 2.9 TH 877, 231, 636	TH ASD * 53 PL
DIRECT		TH	8.9 1958	5L 4.0, 6S 2.0, 6SL 2.9 877, 445, 636	TH x 22
		CN	10.8 907/1003	5L 4.2, PCM 2.0, PCM —, 5L 4.6 CN 907, 1003	CN x 12
		PD	10.0 907/904	5L 4.2, PCM 2.0, PCM, 9L 1.4 DK, 9L 1.1 RB, 9L 1.3 PD 907, 293, 237, 274	PD x 6
DIRECT	T_6	HM	8.7 1906	ASD 5L 4.0 PL, 6SL 4.7 HM 877, 1031	HM ASD x 40 PL
		KC	8.4 1843	5L 4.0, 9L 2.3, 9L 2.1 KC 877, 519, 447	KC x 13
TDM	T_7	SW	5.2 1138	ASD 5L 4.0 P, 9L 1.2 SW 877, 261	SW ASD * 37 PL
DIRECT		SW	9.7 1582	5L 4.2, 5NL 5.5 907, 675	SW x 116

NO 95

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T3	ASOKDINDAENG (ASD) NO. 38	PN (67) 2.2 CP (32) 7.8 ASD (26) 4.8 PY

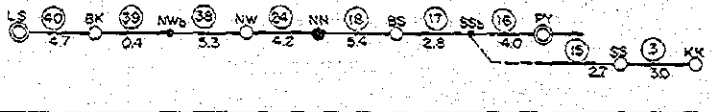
KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (67) (32) (26)	
TDM	T2	PY	5.8 570	ASD 6SNL 5.8 PY 570	PY	ASD Δ 37 PY
TOLL	T2	PY	3.0 653	6SL 3.0 653	PY	Δ 62
DIRECT	T2	PY	5.8 570	6SNL 5.8 570	PY	X 82
DIRECT	T2	IM	10.8 1189	6SNL 5.8 — 5NL 5.0 IM 570 — 619	IM	X 37 — —
DIRECT	T2	BS	9.2 1303	6SNL 5.8 — 6SL 2.4 BSD — 9L 1.0 BS 570 — 524 — 209	BS	X 16 — —
DIRECT	T2	LP1	9.3 1322	6SNL 5.8 — 6SL 3.5 LP1 570 — 752	LP1	X 16 — —
DIRECT	T2	LP2	10.8 1662	6SNL 5.8 — 6SL 3.3 — 9L 1.7 LP2 570 — 722 — 370	LP2	X 15 — —
TDM DIRECT	T4	LS	5.0 653	ASD 6SL 3.0 PY — PCM 2.0 LS 653	LS	Δ 40 — —
TDM DIRECT	T4	BK	10.3 1559	6SNL 5.8 — 6SL 4.5 BK 570 — 989	BK	X 12 — —
TDM	T6	PN	5.9 1296	ASD 6SL 4.5 CP — 6SL 1.4 PN 994 — 302	PN	PN Δ 55 CP Δ 55 ASD
MC	T6	PN	5.9 1296	6SL 4.5 — 6SL 1.4 994 — 302	PN	Δ 9 — Δ 9
DIRECT	T6	CP	9.4 926	6SNL 9.4 CP 926	CP	X 54
DIRECT	T6	PS	8.4 1847	6SL 4.5 — 6SL 1.2 PN — 9L 1.3 BN — 9L 1.4 PS 994 — 272 — 288 — 293	PS	PN X 6 X 6

CIRCUIT ASSEMBLY LIST

TANDEM: T2

OFFICE: NONTHABURI (NN) NO. 39

TRANSMISSION ROUTE



KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)						NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (40) (24) (38) (24) (18) (17) (16) (15) (3)
TDM	T1	KK	5.3 1129	NN 9L 1.8 376	BS 9L 0.8 179	SSb 9L 0.8 173	SS 6SL 1.9 401	KK		KK	NW Δ 44 BS Δ 44 SSb SS Δ 44 Δ 44 KK
OTO		KK	(3.8)4.5 60+950	9L 1.8 376	9L 0.8 179	9L 0.8 173	9L 1.1 232			KK	• 5 • 5 • • 5 • 5 •
TDM	T2	PY	4.0 841	NN 9L 1.8 376	BS 9L 0.8 179	SSb 9L 1.4 286	PY			PY	NW • 239 BS • 239 SSb • 239 PY
DIRECT		BS	4.6 320	9NL 4.6 320						BS	• x 16 •
TDM	T3	PL	5.7 1219	NN 9L 1.8 376	BS 9L 0.8 179	SSb 9L 1.3 256	PY 9L 1.9 408	PL		PL	NW Δ 25 BS Δ 25 SSb Δ 25 PY
TDM	T4	LS	4.6 996	NN 9L 1.4 299	NW 9L 1.4 340	b 9L 0.2 26	BK 9L 1.6 331	LS	LS Δ 21 BK Δ 21 NWb Δ 21 NW Δ 21	LS	NW
TOLL		LS	(3.8)4.6 60+996	9L 1.4 299	9L 1.4 340	9L 0.2 26	9L 1.6 331			LS	• 35 • 35 • 35 • 35 •
M C		LS	4.6 996	9L 1.4 299	9L 1.4 340	9L 0.2 26	9L 1.6 331			LS	• Δ 4 • Δ 4 • Δ 4 • Δ 4 •
DIRECT		NW	3.6 249	9NL 3.6 249						NW	• x 16 •
TDM	T5	TH	6.0 841	NN 9L 1.8 376	BS 9L 0.8 179	SSb 9L 1.4 286	PY PCM 2.0	SW PCM-	TH	TH	NW Δ 23 BS Δ 23 SSb Δ 23 PY
DIRECT		TH	8.5 1861	9L 1.8 376	9L 0.8 179	6SL 2.2 494	9L 2.1 468	9L 1.6 344		TH	• x 6 • x 6 • x 6 •
TDM	T6	PN	6.0 841	NN 9L 1.8 376	BS 9L 0.8 179	SSb 9L 1.4 286	PY PCM 2.0	SSb PCM-	PN	PN	NW Δ 25 BS Δ 25 SSb Δ 25 PY
TDM	T7	SW	6.1 1309	NN 9L 1.8 376	BS 9L 0.8 179	SSb 9L 1.2 256	PY 9L 2.3 495	SW		SW	NW Δ 21 BS Δ 21 SSb Δ 21 PY

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T_7	TROKCHAN (TC) NO. 40	SP (84) 2.7 — SPD (83) 0.5 — TC (82) 2.0 — TKD (80) 2.7 — SW (80) 2.7 — TKD (81) 2.6 — TK

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (84) (83) (82) (80) (80) (81)
TDM	T_1	KK	6.2 / 1355	TC 5L 4.2 / 934 — SW 9L 2.0 / 421 — KK	KK — TC 24 — TKD 24 — SW —
TOLL	T_1	KK	(4.2) 6.2 / 60+1355	〃 5L 4.2 / 934 — 〃 9L 2.0 / 421 — 〃	KK — 〃 54 — 〃 54 — 〃 —
OTD	T_1	KK	(4.2) 6.2 / 60+1355	〃 5L 4.2 / 934 — 〃 9L 2.0 / 421 — 〃	KK — 〃 11 — 〃 11 — 〃 —
DIRECT		KK	7.8 / 1718	〃 5L 4.2 / 934 — 〃 6SL 3.5 / 784 — 〃	KK — 〃 X 54 — 〃 X 54 — 〃 —
DIRECT		SR	8.4 / 1868	〃 5L 4.2 / 934 — 〃 5L 4.2 / 934 — SR	SR — 〃 X 112 — 〃 X 112 — 〃 —
DIRECT		BP	10.1 / 1844	〃 5L 4.2 / 934 — 〃 9L 1.8 / 391 — XX 9L 1.1 / 222 — SS 6SNL 3.0 / 297 — BP	BP — 〃 X 12 — 〃 X 12 — 〃 —
DIRECT		PW	10.3 / 1695	〃 5L 4.6 / 964 — 〃 5NL 5.9 / 731 — PW	PW — 〃 X 59 — 〃 X 59 — 〃 —
DIRECT		SS	9.8 / 1711	〃 5L 4.2 / 934 — 〃 9L 2.0 / 421 — XX 6SNL 3.6 / 356 — SS	SS — 〃 X 6 — 〃 X 6 — 〃 —
TDM	T_2	PY	(4.8) 8.4 / 60+1866	〃 5L 4.2 / 934 — 〃 6SL 4.2 / 932 — PY	PY — TC 46 — TKD 46 — SW —
TOLL	T_2	PY	(4.2) 6.3 / 60+1432	〃 5L 4.2 / 934 — 〃 9L 2.3 / 498 — 〃	PY — 〃 62 — 〃 62 — 〃 —
DIRECT		PY	8.4 / 1866	〃 5L 4.2 / 934 — 〃 6SL 4.2 / 932 — 〃	PY — 〃 X 12 — 〃 X 12 — 〃 —
DIRECT		BS	8.5 / 1867	〃 5L 4.2 / 934 — 〃 9L 2.1 / 468 — 〃 9L 2.2 / 465 — BS	BS — 〃 X 12 — 〃 X 12 — 〃 —
DIRECT		LP_2	9.9 / 964/759	〃 5L 4.6 / 964 — 〃 PCM 2.0 — PY 9L 1.8 / 389 — LP 9L 1.7 / 370 — LP_2	LP_2 — 〃 X 6 — 〃 X 6 — 〃 —
TDM	T_4	LS	(4.2) 5.6 / 60+964	〃 5L 4.4 / 964 — 〃 PCM 2.0 — LS	LS — TC 38 — TKD 38 — SW —
DIRECT	T_4	RID	9.3 / 964/683	〃 5L 4.4 / 964 — 〃 PCM 2.0 — 〃 9L 3.1 / 683 — RID	RID — 〃 X 6 — 〃 X 6 — 〃 —
TDM	T_5	TH	5.8 / 1278	〃 5L 4.2 / 934 — 〃 9L 1.6 / 344 — TH	TH — TC 63 — TKD 63 — SW —
DIRECT	T_5	TH	8.6 / 1907	〃 5L 4.2 / 934 — 〃 5L 4.4 / 973 — 〃	TH — 〃 X 54 — 〃 X 54 — 〃 —
DIRECT	T_5	PD	(3.6) 7.8 / 60+1278	〃 5L 4.2 / 934 — 〃 9L 1.6 / 344 — 〃 PCM 2.0 — DK PCM — PD	PD — 〃 X 17 — 〃 X 17 — 〃 —
DIRECT	T_5	BC	10.0 / 1771	〃 5L 4.2 / 934 — 〃 6SL 2.9 / 636 — 〃 9NL 2.9 / 201 — BC	BC — 〃 X 6 — 〃 X 6 — 〃 —
DIRECT	T_5	DK	8.3 / 1833	〃 5L 4.2 / 934 — 〃 6SL 2.7 / 606 — 〃 9L 1.4 / 293 — DK	DK — 〃 X 20 — 〃 X 20 — 〃 —
TDM	T_7	SW	4.4 / 964	〃 5L 4.4 / 964 — SW	SW — TC 483 — TKD 483 — SW
DIRECT	T_7	SW	7.1 / 881	〃 5NL 7.1 / 881 — 〃	SW — 〃 X 176 — 〃 X 176 — 〃
DIRECT	T_7	TK	8.9 / 1364	〃 5L 4.2 / 934 — 〃 5L 4.7 / 1050 — TK	TK — 〃 X 16 — 〃 X 16 — 〃 X 16 TKD X 16 TK
	T_7	SP	2.7 / 189	〃 5NL 2.7 / 189 — SP	SP — SP X 19 — SP X 19 — TC

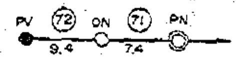
CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T7	TROKCHAN (TC) NO.40	TC (82) 2.0 TKb (80) 2.7 SW (63) 0.3 SPb (34) 2.4 MM (30) 3.9 KT; (29) 3.9 MMb (37) 2.5 SV (31) 3.3 CP (67) 2.2 PN

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (82) (80) (63) (34) (30) (29) (37) (31) (67)
TDM	T3	PL	5c 1195	5L 4.2 SW 934 9L 1.2 PL 261	PL TC △33 TKb △33 SW —
DIRECT		PL	8.9 1639	5L 4.4 5NL 5.5 964 675	PL " X82 " X82 " —
		MM	2.5 172	5NL 2.5 MM 172	MM " X53 SPb X53 MM
		SV	10.2 932	5NL 2.5 65NL 7.7 SV 172 760	SV " X13 " X13 " X13 MMb X13 SV
		KT	7.2 635	5NL 2.5 65NL 4.7 KT 172 463	KT " X49 " X49 " X49 KT "
TDM		PN	4.6 1009	TC 9L 1.0 MM 9L 1.8 SV 9L 1.0 CP 9L 0.8 PN 216 410 212 171	PN TC △65 SPb △65 MM △65 MMb △65 SV △65 CP △65 PN
MC		PN	5.4 1205	9L 1.0 " 9L 1.8 " 65L 1.8 " 9L 0.8 " 216 410 408 171	PN " △9 " △9 " △9 " △9 " △9 "
DIRECT		CP	9.3 1656	5NL 2.5 " 65L 2.4 MM 65L 1.4 SV 5L 3.0 CP 172 512 309 665	CP " X30 " X30 " X30 " X30 "
		PS	9.3 964/611	5L 4.4 SW 964 PCM 2.0 PL PCM — PN 9L 2.9 PS 611	PS " X6 X6 X6 SW —
		HM	8.7 1928	5L 4.2 " 65L 2.0 " 9L 2.5 HM 934 445 549	HM " X13 " X13 " —

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T6	PRAVET (PV) NO.41	



KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)		NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (72)		(71)	
TDM	T1	KK	2.0	PV PCM 2.0 ON PCM - PN PCM - PL PCM - KK	KK	PV 6	ON	6	PN —
OTO		KK	2.0	" PCM 2.0 " PCM - " PCM - " PCM - "	KK	" 2	-	2	" —
TDM	T6	PN	2.0	PV PCM 2.0 ON PCM - PN	PN	PV 79	ON	79	PN
TOLL		PN	2.0	" PCM 2.0 " PCM - "	PN	" 9	"	9	"
M C		PN	2.0	" PCM 2.0 " PCM - "	PN	" 2	"	2	"

NO. 100

CIRCUIT ASSEMBLY LIST

ON 1/1

TANDEM	OFFICE	TRANSMISSION ROUTE
T6	ONNUT (ON) N042	ON (71) PN (67) CP 7.4 2.2

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (71) (67)
TDM	T1	KK	6.0 (323	ON 9L 2.3 504 PN 9L 2.3 313 PL 9L 1.6 306 KK	KK ON △ 39 PN —
OTO		KK	(38) 4.5 60— 534	" 9L 2.5 534 " PCM20 " PCM- "	KK " ▫ 3 " —
TDM	T2	PY	4.5 534	ON 9L 2.3 504 PN PCM20 LSC PCM- PY	PY ON △ 22 PN —
TDM	T3	PL	4.8 1047	ON 9L 2.3 504 PN 9L 2.5 543 PL	PL ON △ 31 PN —
TDM	T4	LS	4.5 534	ON 9L 2.5 534 PN PCM20 LSC PCM- PY PCM- LS	LS ON △ 18 PN —
TDM	T5	TH	4.5 534	ON 9L 2.5 534 PN PCM20 PL PCM- SW PCM- TH	TH ON △ 21 PN —
TDM	T6	PN	2.5 534	ON 9L 2.5 534 PN	PN ON ▫ 297 PN
TOLL		PN	2.5 534	" 9L 2.5 534 "	PN " ▫ 35 "
M C		PN	2.5 534	" 9L 2.5 534 "	PN " △ 2 "
DIRECT		CP	96 850	" 9NL 6.3 638 " 9N 3.3 412 CP	CP " ✕ 12 " ✕ 12 CP
TDM	T7	SW	5.6 1278	ON 9L 2.3 504 PN 9L 2.3 513 PL 9L 1.2 261 SW	SW ON △ 23 PN —

NO. 10)

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T4	PAKKRET (PK) NO.43	PK (46) 6.3 CW (46) 4.2 LS

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (46) (43)
TDM	T1	KK	5.5 / 746	PK 9L 2.1 / 447 CW 9L 1.4 / 299 LS PCM 2.0 PY PCM – KK	KK PK 14 / 14 CW 14 / 14 LS
OTD		KK	13.9 5.5 / 60 746	9L 2.1 / 447 9L 1.4 / 299 PCM 2.0 PCM –	KK 3 / 3
TDM	T2	PY	5.5 / 746	9L 2.1 / 447 CW 9L 1.4 / 299 LS PCM 2.0 PY	PY PK 9 / 9 CW 9 / 9 LS
TDM	T3	PL	5.5 / 746	9L 2.1 / 447 CW 9L 1.4 / 299 LS PCM 2.0 PCM – PL	PL PK 8 / 8 CW 8 / 8 LS
TDM	T4	LS	3.5 / 746	9L 2.1 / 447 CW 9L 1.4 / 299 LS	LS PK 118 / 118 CW LS
MC		LS	3.5 / 746	9L 2.1 / 447 9L 1.4 / 299	LS 3 / 3
TOLL		LS	3.5 / 746	9L 2.1 / 447 9L 1.4 / 299	LS 19 / 19
TDM	T5	TH	5.5 / 746	9L 3.5 / 746 LS PCM 2.0 PY PCM – CW PCM – TH	TH PK 7 / 7 CW 7 / 7 LS
TDM	T6	PN	5.5 / 746	9L 3.5 / 746 LS PCM 2.0 PY PCM – PCM – PN	PN PK 9 / 9 CW 9 / 9 LS
TDM	T7	SW	3.5 / 746	9L 3.5 / 746 LS PCM 2.0 PY PCM – SW	SW PK 8 / 8 CW 8 / 8 LS

NO.102

CIRCUIT ASSEMBLY LIST

SV 1/2

TANDEM	OFFICE	TRANSMISSION ROUTE
T3	SUKHUMVIT (SV) NO.44	SV (37) 2.3 — MM (35) 0.7 — PL (27) 4.4 — ASD; MM (29) 3.9 — (30) 3.9 — KT

KIND OF CIRCUIT	DESTINATION VIA TDM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)				NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (37)	(33)	(27)	(29)	(30)
TDM	T1	KK	55 SV 1207	SL 2.9 PL 646	6SL 2.6 KK 561			KK SV	10 MM 35	10 PL		
DIRECT		KK	96 1482	SL 3.1 676	SNL 6.5 806			KK	46	46		
TOLL		KK	34 732	6SL 2.0 426	SL 1.4 306			KK	35	35		
OTD		KK	34 732	6SL 2.0 426	SL 1.4 306			KK	7	7		
DIRECT		PW	86 1050	SNL 4.9 600	SNL 3.7 PW 450			PW	60	60		
		SR	102 1757	SNL 4.9 600	SL 5.3 SR 1157			SR	76	76		
		SS	85 1860	6SL 2.0 426	SL 3.7 KK 827	SL 2.8 SS 607		SS	16	16		
		BP	106 1951	6SL 2.0 426	SL 3.7 827	6SL 1.9 401	6SNL 3.0 BP 297	BP	13	13		
TDM	T2	PY	57 SV 1269	SL 2.9 PL 646	6SL 2.8 PY 623			PY SV	14 MM 35	14 PL		
DIRECT		PY	63 1380	6SL 2.0 426	6SL 1.43 954			PY	34	34		
TOLL		PY	39 834	6SL 2.0 426	SL 1.9 408			PY	41	41		
DIRECT		BS	78 1722	6SL 2.0 426	6SL 2.8 593	6SL 2.2 SS 494	SL 1.0 BS 209	BS	14	14		
		IM	98 1668	6SL 2.0 426	6SL 2.8 623	SNL 5.0 IM 619		IM	15	15		
		LP1	79 1741	6SL 2.0 426	6SL 2.6 593	6SL 3.3 LP1 722		LP1	13	13		
		LP2	79 1748	6SL 2.0 426	6SL 2.6 593	SL 1.6 359	SL 1.7 LP2 370	LP2	16	16		
TDM	T3	PL	31 SV 676	SL 3.1 PL 676				PL SV	260 MM 35	260 PL		
DIRECT		PL	22 456	6SL 2.2 456				PL	97	97		
		ASD	89 1281	6SL 2.2 456	SNL 6.7 ASD 825			ASD	22	22	22 ASD	
		MM	77 760	6SL 7.7 MM 760				MM	28			28 MM
		KT	86 1314	6SL 3.9 851	6SNL 4.7 KT 463			KT	28			28 28 KT
TDM	T4	LS	42 SV 456	6SL 2.2 PL 456	PCM 2.0 PY	PCM- LS		LS SV	22 MM 35	22 PL		
DIRECT		BK	85 1978	6SL 2.0 426	6SL 2.6 593	6SL 4.3 BK 959		BK	12	12		
		RID	73 456/663	6SL 2.2 456	PCM 2.0	PCM- LS	9L 3.1 RID 663	RID	6	6		

NO.103

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T_3	SUKHUMVIT (SV) NO 44	PN (67) 2.2 — CP (31) 3.3 — SV (37) 2.5 — MMD (35) 0.7 — PL; MMD (29) 3.9 — MM (34) (83) 24+0.5 — TC

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)					NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (67)	(31)	(37)	(35)	(29)	(34+83)
TDM	T_5	TH	59 / 1293	SV 65L 2.0 / 426	PL 9L 1.0 / 231	SW 65L 2.9 / 636	TH				SV △ 37	MM 6 △ 37	PL —	
DIRECT	T_5	TH	84 / 1864	65L 2.0 / 426	65L 2.0 / 445	9L 4.4 / 973					TH X 25	X 25	—	
DIRECT	T_5	DK	81 / 1770	65L 2.0 / 426	65L 2.0 / 445	65L 2.7 / 606	9L 1.4 DK / 293				DK X 13	X 13	—	
	T_5	PD	(9.1) 11.9 / 676/60-149×	9L 3.1 / 676	PCM 2.0	PCM-	65L 6.8 PD / 1494				PD X 15	X 15	—	
TDM	T_6	PN	5.1 / 1118	SV 9L 3.0 CP / 665	9L 2.1 PN / 453				PN △ 38	CP △ 38	SV			
DIRECT	T_6	PN	83 / 1032	5NL 5.0 / 619	5NL 3.3 / 413				PN X 20	X 20				
MC	T_6	PN	5.1 / 1118	SV 9L 3.0 CP / 665	9L 2.1 PN / 453				PN △ 5	△ 5				
DIRECT	T_6	CP	50 / 619	5NL 5.0 CP / 619					CP	X 88				
DIRECT	T_6	HM	98 / 1661	5NL 4.9 PL / 600	65L 4.9 HM / 1061						HM X 29	MM 6 X 29	PL —	
DIRECT	T_6	KC	86 / 1874	65L 2.0 / 426	65L 4.3 / 1001	9L 2.1 KC / 447					KC X 14	X 14	—	
DIRECT	T_6	BN	89 / 1983	9L 3.0 CP / 665	9L 1.9 PN / 423	9L 4.0 BN / 895			PN X 17	CP X 17				
DIRECT	T_6	PS	87 / 1899	9L 3.0 / 665	9L 0.7 / 141	65L 5.0 PS / 1093			PS X 14	X 14				
TDM	T_7	SW	42 / 901	SV 65L 2.0 / 426	PL 65L 2.2 SW / 475						SV △ 19	MM 6 △ 19	PL —	
DIRECT	T_7	SW	104 / 1275	5NL 4.9 / 600	5NL 5.5 / 675						SW X 84	X 84	—	
DIRECT	T_7	TC	102 / 932	(65L) 7.7 MM / 760	9L 2.5 TC / 172						TC X 13	—	X 13 MM	X 13 TC

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T5	MUBANSETHAKIT (MK) NO. 45	MK —(64) 4.9— PC —(63) 3.1— BC —(62) 3.4— TH

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (dB) RESISTANCE (Ω)		NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (64)	(63)	(62)	
TDM	T1	KK	6.0 / 1310	MK 9L 1.6 / 344 PC 9L 1.4 / 327 BC 9L 1.0 / 218 TH 9L 2.0 / 421 KK	KK	MK △ 17	PC △ 17	BC △ 17	TH —
OTO		KK	(4.0)6.0 / 60-1310	〃 9L 1.6 / 344 〃 9L 1.4 / 327 〃 9L 1.0 / 218 〃 9L 2.0 / 421 〃	KK	〃 • 3	〃 • 3	〃 • 3	〃 —
TDM	T2	PY	2.0	MK PCM 2.0 TH PCM – SW PCM – PY	PY	MK △ 9	PC △ 9	BC △ 9	TH —
TDM	T3	PL	2.0	MK PCM 2.0 TH PCM – SW PCM – PL	PL	MK △ 10	PC △ 10	BC △ 10	TH —
TDM	T4	LS	3.9 / 842	MK PCM 2.0 TH PCM – SW PCM – PY 9L 3.9 / 842 LS	LS	MK △ 6	PC △ 6	BC △ 6	TH —
TDM		TH	2.0	MK PCM 2.0 TH	TH	MK • 124	PC • 124	BC • 124	TH
M.C	T5	TH	2.0	〃 PCM 2.0 〃	TH	〃 △ 3	〃 △ 3	〃 △ 3	〃
TOLL		TH	2.0	〃 PCM 2.0 〃	TH	〃 • 19	〃 • 19	〃 • 19	
TDM	T6	PN	4.7 / 573	MK PCM 2.0 TH PCM – SW PCM – PL 9L 2.7 / 573 PN	PN	MK △ 10	PC △ 10	BC △ 10	TH —
TDM	T7	SW	5.1 / 666	MK PCM 2.0 TH 65L 3.1 / 666 SW	SW	MK △ 9	PC △ 9	BC △ 9	TH —

NO. 105

CIRCUIT ASSEMBLY LIST

CW 1/1

TANDEM	OFFICE	TRANSMISSION ROUTE
T4	CHAENGWATANA (CW) NO. 46	PK (46) 6.5 — CW (45) 4.2 — LS

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)					NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (46) (45)	
TDM	T1	KK	60 / 868	CW 5L 4.0 / 868	LS PCM 2.0	PY PCM	KK		KK	CW Δ 28 LS —
OTD		KK	(4 :)60 / 60-868	5L 4.0 / 868	PCM 2.0	PCM			KK	- 5 —
TDM	T2	PY	60 / 868	CW 5L 4.0 / 868	LS PCM 2.0	PY			PY	CW Δ 23 LS —
TDM	T3	PL	60 / 868	CW 5L 4.0 / 868	LS PCM 2.0	PY PCM	PL		PL	CW Δ 19 LS —
TDM	T4	LS	60 / 868	CW 5L 4.0 / 868	LS				LS	CW - 230 LS
MC		LS	40 / 868	5L 4.0 / 868					LS	Δ 4
TOLL		LS	40 / 868	5L 4.0 / 868					LS	- 35
DIRECT		LS	64 / 788	3NL 6.4 / 788					LS	X 12
TDM	T5	TH	60 / 868	CW 5L 4.0 / 868	LS PCM 2.0	PY PCM —	CW PCM —	TH	TH	CW Δ 16 LS —
TDM	T6	PN	60 / 868	CW 5L 4.0 / 868	LS PCM 2.0	PY PCM —	SW PCM —	PN	PN	CW Δ 21 LS —
TDM	T7	SW	60 / 868	CW 5L 4.0 / 868	LS PCM 2.0	PY PCM —	SW		SW	CW Δ 19 LS —

NO.106

CIRCUIT ASSEMBLY LIST

BT 1/1

TANDEM	OFFICE	TRANSMISSION ROUTE
T4	BANGBUATHONG (BT) NO. 47	BT (49) 133 PK (46) 65 CW (45) 42 LS

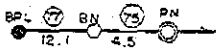
KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)							NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (49) (46) (45)
OTO	T1	KK	2.0 BT	PCM 2.0 LS	PCM- PK	PCM- KK					KK BT 2 PK 2 CW 2 LS
TDM	T4	LS	2.0 BT	PCM 2.0 LS							LS BT 68 PK 68 CW 68 LS
TOLL		LS	2.0 "	PCM 2.0 "							LS " 9 " 9 " 9 "
M C	T3	TH	5.8 BT 814	PCM 2.0 LS	PCM- PK	PCM- KK	65L 3.8 TH 814				TH BT 2 PK 2 CW 2 LS

NO. 107

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE
To	BANGPHLI (BPL) NO.48

TRANSMISSION ROUTE



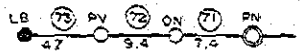
KIND OF CIRCUIT	DESTINATION TANDEM OFFICE	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)				NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS 77		75	
OTD	T1	KK	(4.0) 5.9 60-849 BPL	PCM 2.0 BN	PCM- PN	9L 2.5 343 PL	9L 1.4 306 KK	KK	BPL 2	BN 2	PN
TOM	To	PN	2.0 BPL	PCM 2.0 BN	PCM- PN			PN	BPL 77	BN 77	PN
TOLL		PN	2.0 "	PCM 2.0 "	PCM- "			PN	" 9	" 9	"
M C		PN	2.0 "	PCM 2.0 "	PCM- "			PN	" 4/2	" 4/2	"

NO.106

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE
T6	LADKABANG (LB) NO. 49

TRANSMISSION ROUTE



KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)							NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (73)		(72)		(71)	
TDM	T1	KK	4.8 / 591	LB PCM 2.0	PV PCM –	ON PCM –	PN PCM –	PL 65L 2.8 591	KK	LB	△ 12	PV	△ 12	ON	△ 12	PN ——
OTD		KK	3.6 / 336	〃 PCM 2.0	〃 PCM –	〃 PCM –	〃 PCM –	〃 9L 1.6 336	KK	〃	= 2	〃	= 2	〃	= 2	〃 ——
TDM	T2	PY	2.0	LB PCM 2.0	PV PCM –	ON PCM –	PN PCM –	ASD PCM – PY	PY	LB	△ 7	PV	△ 7	ON	△ 7	PN ——
TDM	T3	PL	2.0	LB PCM 2.0	PV PCM –	ON PCM –	PN PCM –	PL	PL	LB	△ 9	PV	△ 9	ON	△ 9	PN ——
TDM	T4	LS	3.9 / 842	LB PCM 2.0	PV PCM –	ON PCM –	PN PCM –	ASD PCM – PY 9L 3.9 842	LS	LB	△ 6	PV	△ 6	ON	△ 6	PN ——
TDM	T5	TH	2.0	LB PCM 2.0	PV PCM –	ON PCM –	PN PCM –	PL PCM – SW PCM – TH	TH	LB	△ 7	PV	△ 7	ON	△ 7	PN ——
TDM	T6	PN	2.0	LB PCM 2.0	PV PCM –	ON PCM –	PN		PN	LB	= 113	PV	= 113	ON	= 113	PN
TOLL		PN	2.0	〃 PCM 2.0	〃 PCM –	〃 PCM –	〃		PN	〃	= 9	〃	= 9	〃	= 9	〃
M C		PN	2.0	〃 PCM 2.0	〃 PCM –	〃 PCM –	〃		PN	〃	△ 2	〃	△ 2	〃	△ 2	〃
TDM	T7	SW	4.4 / 505	LB PCM 2.0	PV PCM –	ON PCM –	PN PCM –	PL 65L 2.4 505	SW	LB	△ 7	PV	△ 7	ON	△ 7	PN ——

CIRCUIT ASSEMBLY LIST

PP 1/1

TANDEM OFFICE	TRANSMISSION ROUTE
Ts PHOMPRACHOOL (PP) NO. 50	PP (60) 8.2 PD (59) 3.8 RB (58) 3.7 OK (57) 4.1 TH

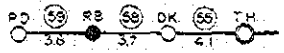
KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (60) (59) (58) (57)
TDM	T1	KK	3.8 / 814	PP PCM 2.0 TH 6SL 3.8 KK	KK PP Δ 8 PD Δ 8 RB Δ 8 OK Δ 8 TH —
OTD	T1	KK	3.2 / 451	" PCM 2.0 " 9L 2.2 "	KK " - 2 " - 2 " - 2 " - 2 " —
TDM	Ts	PL	4.8 / 605	PP PCM 2.0 TH 9L 1.6 SW 9L 1.2 PL / 344 / 261	PL PP Δ 6 PD Δ 6 RB Δ 6 OK Δ 6 TH —
TDM	Ts	TH	2.0	PP PCM 2.0 TH —	TH PP - 76 PD - 76 RB - 76 OK - 76 TH
M C	Ts	TH	2.0	" PCM 2.0 "	TH " Δ 2 " Δ 2 " Δ 2 " Δ 2 "
TOLL	Ts	TH	2.0	" PCM 2.0 "	TH " - 9 " - 9 " - 9 " - 9 "
TDM	T6	PN	2.0	PP PCM 2.0 TH PCM — SW PCM — PL PCM — PN	PN PP Δ 7 PD Δ 7 RB Δ 7 OK Δ 7 TH —

NO. 110

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE
T5	RACHBURANA (RB) NO. 51

TRANSMISSION ROUTE



KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (59) (58) (55)
TDM	T1	KK	54 RB 1171	65L 2.2 DK 487 — 9L 1.2 TH 263 — 9L 2.0 KK 421	KK RB △ 40 DK △ 40 TH —
OTD		KK	(40) 54 60- 1171	65L 2.2 " 487 " 9L 1.2 " 263 " 9L 2.0 " 421 "	KK " " 4 " " 4 " —
TDM	T2	PY	56 RB 780	65L 2.2 DK 487 — 9L 1.4 TH 293 — PCM 2.0 PY	PY RB △ 17 DK △ 17 TH —
TDM	T3	PL	56 RB 780	65L 2.2 DK 487 — 9L 1.4 TH 293 — PCM 2.0 PL	PL RB △ 22 DK △ 22 TH —
TDM	T4	LS	58 RB 804	9L 1.3 DK 267 — 65L 2.5 TH 537 — PCM 2.0 LS	LS RB △ 15 DK △ 15 TH —
DIRECT	T5	TH	95 RB 926	65NL 4.5 DK 439 — 65NL 5.0 TH 487	TH RB X 23 DK X 23 TH
		PD	46 45	65NL 4.6 PD 451	PD PD X 25
		DK	45 439	65NL 4.5 DK 439	DK " X 38 DK
TDM		TH	38 804	9L 1.3 65L 2.5 TH 267 537	TH " " 225 " " 225 TH
MC		TH	38 804	9L 1.3 65L 2.5 " 267 " 537 "	TH " △ 3 " △ 3 "
TOLL		TH	38 804	9L 1.3 65L 2.5 " 267 " 537 "	TH " " 3 " " 3 "
TDM	T6	PN	56 RB 780	65L 2.2 DK 487 — 9L 1.4 TH 293 — PCM 2.0 PN	PN RB △ 24 DK △ 24 TH —
TDM	T7	SW	54 RB 1166	9L 1.3 DK 267 — 9L 1.2 TH 263 — 65L 2.9 SW 636	SW RB △ 25 DK △ 25 TH —

CIRCUIT ASSEMBLY LIST

EC 1/1

TANDEM	OFFICE	TRANSMISSION ROUTE
T5	EKACHAI (EC) NO. 52	EC —(56) 8.1— DK —(55) 4.1— TH

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL (db) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS (db) RESISTANCE (Ω)	OFFICE	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (56)	(55)
TDM	T1	KK	(4.7) 8.4 / 60+1840	EC 9L 2.5 / 549 DK 65L 2.3 / 507 TH 65L 3.6 / 784 KK	KK	EC △ 38	DK △ 38 TH —
OTD		KK	(3.9) 5.7 / 60+1233	9L 2.5 / 549 · 9L 1.2 / 263 · 9L 2.0 / 421	KK	• 4	• 4 —
TDM	T2	PY	5.9 / 842	EC 9L 2.5 / 549 DK 9L 1.4 / 293 TH PCM 2.0 SW PCM — PY	PY	EC △ 16	DK △ 16 TH —
TDM	T3	PL	5.9 / 842	EC 9L 2.5 / 549 DK 9L 1.4 / 293 TH PCM 2.0 SW PCM — PL	PL	EC △ 22	DK △ 22 TH —
TDM	T4	LS	5.9 / 842	EC 9L 2.5 / 549 DK 9L 1.4 / 293 TH PCM 2.0 SW PCM — PY PCM — LS	LS	EC △ 12	DK △ 12 TH —
TOLL		TH	3.9 / 842	EC 9L 2.5 / 549 DK 9L 1.6 / 293 TH	TH	EC ▲ 31	DK ▲ 31 TH
DIRECT	T5	DK	6.9 / 480	9NL 6.9 / 480	DK	× 12	
		TH	6.2 / 1368	9L 2.5 / 549 · 5L 3.7 / 819 TH	TH	× 12	× 12 TH
		PC	7.7 / 1690	9L 2.5 / 549 · 9L 1.2 / 263 · 9L 1.0 / 218 BC 65L 3.0 / 660 PC	PC	× 21	× 21 —
TDM		TH	3.9 / 842	9L 2.5 / 549 · 9L 1.4 / 293	TH	• 221	• 221
MC		TH	3.9 / 842	9L 2.5 / 549 · 9L 1.4 / 293	TH	△ 3	△ 3
TDM	T6	PN	5.9 / 842	EC 9L 2.5 / 549 DK 9L 1.4 / 293 TH PCM 2.0 SW PCM — PL PCM — PN	PN	EC △ 23	DK △ 23 TH —
TDM	T7	SW	5.3 / 1156	EC 9L 2.5 / 549 DK 9L 1.2 / 263 TH 9L 1.6 / 344 SW	SW	EC △ 22	DK △ 22 TH —

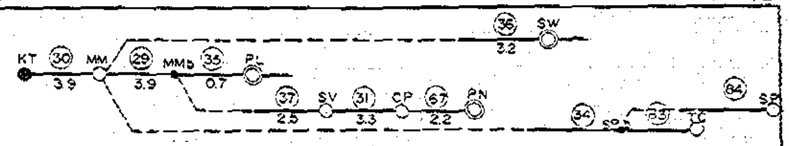
NO. 112

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T3	KULONGTOE I (KT) NO. 53	KT (30) 3.9 MM (29) 3.9 MMb (33) 0.7 PL (27) 4.4 ASD (37) 2.5 SV

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)						NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (30)	(29)	(33)	(27)	(37)
TDM	T1	KK	5.2 / 1155	KT 9L 1.3 / 280	MM 6SL 2.5 / 569	PL 9L 1.4 / 306	KK			KK KT	△ 21	MM △ 21	MMb △ 21	PL —
TOLL	T1	KK	4.0 / 881	9L 1.3 / 280	9L 1.3 / 295	9L 1.4 / 306				KK	* 33	* 33	* 33	—
OTD	T1	KK	4.0 / 881	9L 1.3 / 280	9L 1.3 / 295	9L 1.4 / 306				KK	* 6	* 6	* 6	—
DIRECT	T1	KK	8.7 / 1938	6SL 2.3 / 512	6SL 2.5 / 569	SL 3.9 / 857				KK	x 34	x 34	x 34	—
DIRECT	T1	BP	8.3 / 1835	9L 1.3 / 280	6SL 2.5 / 569	9L 1.2 / 276	6SL 1.7 / 371 SS	6SL 1.6 / 339 BP		BP	x 18	x 18	x 18	—
DIRECT	T1	SR	10.7 / 1797	6SNL 4.7 / 463	6SL 2.7 / 599	6SL 3.3 / 735 SR				SR	x 92	x 92	x 92	—
DIRECT	T1	PW	8.7 / 1561	6SL 2.3 / 512	6SL 2.7 / 599	SNL 3.7 / 450 PW				PW	x 60	x 60	x 60	—
TDM	T2	PY	5.5 / 1215	KT 6SL 2.3 / 512	MM 9L 1.3 / 295	PL 9L 1.9 / 408 PY				PY KT	△ 30	MM △ 30	MMb △ 30	PL —
TOLL	T2	PY	3.8 4.5 / 604983	9L 1.3 / 280	9L 1.3 / 295	9L 1.9 / 408				PY	* 38	* 38	* 38	—
DIRECT	T2	PY	10.2 / 1685	6SNL 4.7 / 463	6SL 2.7 / 599	6SL 2.8 / 623				PY	x 14	x 14	x 14	—
DIRECT	T2	BS	11.0 / 1846	6SNL 4.7 / 463	9L 1.5 / 325	6SL 2.6 / 593	9L 1.2 / 256 SS b	9L 1.0 / 209 BS		BS	x 13	x 13	x 13	—
DIRECT	T2	IM	10.8 / 1819	6SNL 4.7 / 463	9L 1.5 / 325	6SL 2.6 / 593	6SL 2.0 / 438 IM			IM	x 6	x 6	x 6	—
DIRECT	T2	LP1	10.9 / 1818	6SNL 4.7 / 463	9L 1.5 / 325	9L 1.4 / 308	6SL 3.3 / 722 LP1			LP1	x 14	x 14	x 14	—
DIRECT	T2	LP2	10.9 / 1825	6SNL 4.7 / 463	9L 1.5 / 325	9L 1.4 / 308	9L 1.6 / 359	9L 1.7 / 370 LP2		LP2	x 16	x 16	x 16	—
TDM	T3	PL	3.8 / 837	KT 6SL 2.3 / 512	MM 9L 1.5 / 325	PL				PL KT	* 208	MM * 208	MMb * 208	PL
DIRECT	T3	PL	10.3 / 1009	6SNL 4.7 / 463	6SNL 5.6 / 546					PL	x 75	x 75	x 75	
DIRECT	T3	ASD	8.8 / 1958	6SL 2.3 / 512	6SL 2.5 / 569	SL 4.0 / 877 ASD				ASD	x 16	x 16	x 16	x 16 ASD
DIRECT	T3	SV	8.6 / 1314	6SNL 4.7 / 463	6SL 3.9 / 851 SV					SV	x 28	x 28		x 28 SV
	T3	MM	4.7 / 463	6SNL 4.7 / 463						MM	x 59			
TDM	T4	LS	5.8 / 837	KT 6SL 2.3 / 512	MM 9L 1.5 / 325	PL PCM 2.0 PY	PCM — LS			LS KT	△ 23	MM △ 23	MMb △ 23	PL —
DIRECT	T4	RID	7.9 / 605/663	9L 1.3 / 280	9L 1.5 / 325	PCM 2.0	PCM —	9L 3.1 / 663 RID		RID	x 14	x 14	x 14	—
DIRECT	T4	BK	10.8 / 1893	9NL 3.3 / 231	9L 1.5 / 325	9L 1.7 / 378	6SL 4.3 / 969 BK			BK	x 12	x 12	x 12	—
	T4	NW	8.1 / 1778	9L 1.3 / 280	9L 1.3 / 295	9L 1.7 / 378	9L 2.1 / 455 NW b	9L 1.7 / 370 NW		NW	x 6	x 6	x 6	—

CIRCUIT ASSEMBLY LIST

TANDEM	OFFICE	TRANSMISSION ROUTE
T3	KULONGTOEI (KT) NO.53	

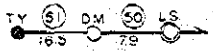
KIND OF CIRCU.	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) / RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)							NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (30)	(29)	(35)	(37)	(31)	(67)	(36)	(34)	(83)	(84)
TDM	T3	[TH]	(4.3) 6.9 / 60+1532	KT 9L 13 / 280 MM	5L 27 / 616 SW	65L 29 / 636 TH				[TH]	KT Δ 41 MM						Δ 41 SW —			
DIRECT	T3	TH	8.4 / 1869	9L 13 / 280	5L 27 / 616	5L 44 / 973				TH	x 23						x 23 —			
DIRECT	T3	CN	10.4 / 837/1003	65L 23 / 512	9L 15 / 325 PL	PCM 20 SW	PCM – TH	5L 46 / 1003 CN		CN	x 8	x 8 MMb	x 8 PL —							
DIRECT	T3	DK	8.9 / 1979	65L 23 / 512	5L 27 / 616 SW	9L 14 / 314 TH	65L 25 / 537 DK			DK	x 15						x 15 SW —			
DIRECT	T3	PD	9.6 / 837/604	65L 23 / 512	9L 15 / 325 PL	PCM 20 SW	PCM – TH	9L 14 / 293 DK	9L 24 / 511 PD	PD	x 18	x 18 MMb	x 18 PL —							
TDM	T6	[PN]	5.9 / 1305	KT 65L 23 / 512 MM	9L 18 / 410 SV	9L 10 / 212 CP	9L 08 / 171 PN			[PN]	KT Δ 42 MM	Δ 42		Δ 42 SV	Δ 42 CP	Δ 42 PN				
MC	T6	[PN]	5.9 / 1305	65L 23 / 512	9L 18 / 410	9L 10 / 212	9L 08 / 171			[PN]	Δ 5	Δ 5		Δ 5	Δ 5	Δ 5				
DIRECT	T6	PN	10.2 / 1762	9NL 33 / 231	65L 37 / 821	65L 18 / 408	65L 14 / 302			PN	x 8	x 8		x 8	x 8	x 8				
DIRECT	T6	BN	8.4 / 1861	65L 23 / 512	9L 18 / 410	9L 10 / 212	9L 06 / 141	65L 27 / 586 BN		BN	x 16	x 16		x 16	x 16	x 16	—			
DIRECT	T6	PS	8.4 / 1856	65L 23 / 512	9L 18 / 410	9L 10 / 212	9L 06 / 141	9L 27 / 581 PS		PS	x 17	x 17		x 17	x 17	x 17	—			
DIRECT	T6	SPK	(5.9) 8.3 / 60+1400	9L 13 / 280	9L 18 / 410	65L 18 / 408	65L 14 / 302	PCM 20 SPK		SPK	x 6	x 6		x 6	x 6	x 6	—			
DIRECT	T6	CP	10.0 / 1720	9L 13 / 280	65L 37 / 821	5NL 50 / 619				CP	x 58	x 58		x 58	x 58					
DIRECT	T6	HM	10.7 / 1861	9NL 33 / 231	65L 27 / 599 PL	65L 47 / 1031 HM				HM	x 18	x 18	x 18 PL —							
DIRECT	T6	KC	10.4 / 1796	9NL 33 / 231	65L 27 / 599	9L 23 / 519	9L 21 / 447 KC			KC	x 13	x 13	x 13 —							
TDM	T7	[SW]	5.2 / 1158	KT 65L 23 / 512 MM	5L 29 / 646 SW					[SW]	KT Δ 22 MM						Δ 22 SW			
DIRECT	T7	SW	9.5 / 1063	65NL 47 / 463	5NL 49 / 600					SW	x 131						x 131			
DIRECT	T7	TK	9.7 / 1472	65L 23 / 512	5L 29 / 646	9NL 45 / 314 TK				TK	x 6						x 6 —			
DIRECT	T7	TC	7.2 / 635	65NL 47 / 463	9NL (SL) 25 / 172 TC					TC	x 49							x 49 SP	x 49 TC	
DIRECT	T7	SP	9.1 / 765	65NL 47 / 463	9NL 44 / 302 SP					SP	x 15							x 15		x 15 SP

CIRCUIT ASSEMBLY LIST

TY 1/1

TANDEM	OFFICE
T4	THANYABURI (TY) NO. 54

TRANSMISSION ROUTE



KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (51) (33)
TDM	T1	KK	2.0 TY	PCM 2.0 LS PCM — DM PCM — KK	KK TY 7 DM 7 LS —
OTD		KK	2.0 "	PCM 2.0 " PCM — " PCM — "	KK " 2 " 2 " —
TDM	T4	LS	2.0 TY	PCM 2.0 LS	LS TY 87 DM 87 LS
TOLL		LS	2.0 "	PCM 2.0 "	LS " 9 " 9 "
M C		LS	2.0 "	PCM 2.0 "	LS " 2 " 2 "

NO.115

CIRCUIT ASSEMBLY LIST

NWN 1/1

TANDEM	OFFICE	TRANSMISSION ROUTE
T4	NAWANAKHON (NWN) NO. 55	NWN (53) 13.1 RS (52) 11.0 DM (50) 7.9 LS

KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(dB) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(dB) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (53) (52) (50)
TDM	T1	KK	4.1 / 438	NWN PCM 2.0 LS PCM — PY 9L 2.1 / 438 KK	KK NWN △ 18 RS △ 18 DM △ 18 LS
QTO		KK	4.1 / 438	PCM 2.0 PCM — 9L 2.1 / 438	KK ▽ 3 △ 3 △ 3
TDM	T2	PY	2.0	NWN PCM 2.0 LS PCM — PY	PY NWN △ 10 RS △ 10 DM △ 10 LS
TDM	T3	PL	4.1 / 438	NWN PCM 2.0 LS PCM — PY 9L 2.1 / 438 PL	PL NWN △ 13 RS △ 13 DM △ 13 LS
TDM	T4	LS	2.0	NWN PCM 2.0 LS	LS NWN ▽ 143 RS ▽ 143 DM ▽ 143 LS
M C		LS	2.0	PCM 2.0	LS ▽ 3 △ 3 ▽ 3
TOLL		LS	2.0	PCM 2.0	LS ▽ 19 △ 19 ▽ 19
TDM	T5	TH	2.0	NWN PCM 2.0 LS PCM — PY PCM — SW PCM — TH	TH NWN △ 10 RS △ 10 DM △ 10 LS
TDM	T6	PN	2.0	NWN PCM 2.0 LS PCM — PY PCM — ASD PCM — PN	PN NWN △ 13 RS △ 13 DM △ 13 LS
TDM	T7	SW	4.5 / 528	NWN PCM 2.0 LS PCM — PY 9L 2.5 / 528 SW	SW NWN △ 9 RS △ 9 DM △ 9 LS

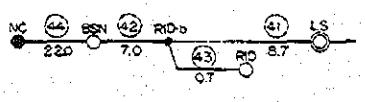
NO 116

CIRCUIT ASSEMBLY LIST

NC 1/1

TANDEM	OFFICE
T4	NONGCHOK (NC) NO. 56

TRANSMISSION ROUTE



KIND OF CIRCUIT	DESTINATION TANDEM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)	NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (44)	(42)	(43)	(41)
TDM	T4	KK	2.0	NC PCM 2.0 LS PCM — PV PCM — KK	KK NC	△ 8 BSN	△ 8 RID b	△ 8 LS
OTD		KK	2.0	〃 PCM 2.0 〃 PCM — 〃 PCM — 〃	KK 〃	〃 2 〃	〃 2 〃	〃 2 〃
TDM	T4	LS	2.0	NC PCM 2.0 LS	LS NC	〃 85 BSN	〃 85 RID b	〃 85 LS
TOLL		LS	2.0	〃 PCM 2.0 〃	LS 〃	〃 9 〃	〃 9 〃	〃 9 〃
TDM	T4	PN	2.0	NC PCM 2.0 LS PCM — PV PCM — KK PCM — PN	PN NC	△ 5 BSN	△ 5 RID b	△ 5 LS
MC		PN	2.0	〃 PCM 2.0 〃 PCM — 〃 PCM — 〃 PCM — 〃	PN 〃	△ 2 〃	△ 2 〃	△ 2 〃

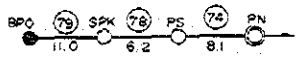
NO. 117

CIRCUIT ASSEMBLY LIST

BPO 1/1

TANDEM	OFFICE
T6	BANGPOU (BPO) NO.57

TRANSMISSION ROUTE



KIND OF CIRCUIT	DESTINATION TAN / DBM	DESTINATION OFFICE	TRANSMISSION LOSS TOTAL(db) RESISTANCE TOTAL (Ω)	TRANSMISSION SYSTEM & LOSS(db) RESISTANCE (Ω)						NUMBER OF INTER-EXCHANGE JUNCTION CIRCUITS (79) (78) (74)							
TDM	T1	KK	2.0	BPO PCM 2.0	SPK PCM -	PS PCM -	PN PCM -	PL PCM -	KK	KK	BPO	4 8	SPK	4 8	PS	4 8	PN —
OTD		KK	2.0	BPO PCM 2.0	SPK PCM -	PS PCM -	PN PCM -	PL PCM -	KK	KK	"	+ 2	"	+ 2	"	+ 2	" —
TDM	T3	PL	4.7 5.7 3	BPO PCM 2.0	SPK PCM -	PS PCM -	PN 9L 2.7 573	PL		PL	BPO	4 6	SPK	4 6	PS	4 6	PN —
TDM	T6	PN	2.0	BPO PCM 2.0	SPK PCM -	PS PCM -	PN			PN	BPO	+ 90	SPK	+ 90	PS	+ 90	PN
TOLL		PN	2.0	BPO PCM 2.0	SPK PCM -	PS PCM -	PN			PN	"	+ 9	"	+ 9	"	+ 9	"
M C		PN	2.0	BPO PCM 2.0	SPK PCM -	PS PCM -	PN			PN	"	4 2	"	4 2	"	4 2	"

NO.118