

13-6 The Number of Circuits between Exchanges in 1997 (Case-2) (8/18)

NO	Switch Unit Name	ABBR	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76
			RBN1	PYT2	ITM1	ITM2	RON1	RGN2	LTP1-2	LTP2-1	LTP2-2	DNM2	TYB1	RST1	NWN1	BGS2	NWW2	NTB2	LKST4	LKS2	RIT1
81	Chaeng Watthana 1	CWT1	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	420	0	0
82	Phloen Chit 4	PNC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	Asok Din Daeng 3	ASD3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	Sakhumwit 2	SKW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	Sameen Rai 5	SRR5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	Krung Kasem 4	KKM4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	Sameen 3	SMS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	Pathum Wan 3	PTW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	Surawong 6	SRW6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	Chaiyaphruk 3	CYP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	Phra Khanong 3	PKG3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	On Nut 2	ONT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	Trok Chan 3	TRC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	Thung Maharek 3	TMB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	Sathupradit 3	STD3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	Tharon Teck 3	TNT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	Khlong Toei 1	KTI1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	Hua Mak 3	HAM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	Khlong Chan 4	KGC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	Ramkhamhaeng 2	RKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Bang Chan 2	BGC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	Lat Krabang 2	LKG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	Bang Na 4	BNA4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	Samut Prakan 4	SPK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	Bang Pu 2	BGU2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	Pu Chao Saming Phrai 3	PSP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	Bang Pli 4	BPL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	Bang Pli Bang Bo 2	BBB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	Thon Buri 2	TNB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	Lat Ya 2	LTY2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	Phasi Charoen 3	PSN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	Bang Phlat 4	BGT4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	Bang Bue Thong 3	BBT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114	Charan Sanitwong 3	CSW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	Bang Khao 3	BKE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	Nong Khaem 2	NGK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Muban Sattaki 2	MSK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	Dao Khanong 3	DKN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	Phra Pradaeng 3	PPG3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	Ekkachai 3	EKC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121	Rat Burana 2	RBN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	Phahonyothin 4	PYT4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	Inthamara 3	ITM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	Bang Khen 3	BON3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	Lat Phrao 1-3	LTP1-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Lat Phrao 2-3	LTP2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Don Muang 3	DNM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	Thanyaburi 2	TYB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Rangsit 2	RST2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	Nawa Nakhon 2	NWN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131	Bang Su 3	BGS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132	Ngam Wong Wan 3	NWW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Nonthaburi 3	NTB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	Lak Si 3	LKS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	Ram Inthra 3	RIT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136	Pak Kret 2	PKK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137	Pathum Thani 2	PTT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	Bang Phun 2	BAN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	Chaeng Watthana 2	CWT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	Krung Kasem T1	KKT1	0	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
141	Phahonyothin T(XB)	PYTA	0	30	270	0	0	0	180	0	0	0	0	0	0	0	0	0	0	0	0
142	Phloen Chit T3	PLT3	0	90	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	Thon Buri T(XB)	TNBTA	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
144	Surawong T(XB)	SWTA	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	Krung Kasem TP	KKTP	0	240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146	Phahonyothin TP	PYTP	0	660	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147	Phloen Chit TP	PLTP	0	630	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
148	Lak Si TP	LSTP	0	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
149	Phra Khanong TP	PNTP	0	390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	Lat Ya TP	LYTP	0	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
151	Lak Si TC	LSTC	0	0	0	0	0	30	30	60	0	150	180	0	30	0	0	60	30	270	30
152	Phra Khanong TC	PNTC	30	150	30	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
153	Lat Ya TC	LYTC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
154	Lak Si International	LSIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	Phra Khanong International	PNIT	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	Lat Ya International	LYIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total		660	6,150	450	720	420	600	1,230	210	750	900	90	180	270	600	840	420	14,910	120	360

13-6 The Number of Circuits between Exchanges in 1997 (Case-2) (9/18)

NO	Switch Unit Name	ABBR	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
			RIT2	PKK1	PTT1	BAN1	CWT1	PNC4	ASD3	SKW2	SRR5	KKM4	SMS3	PIW3	SRW6	CYP3	PKG3	ONT2	TKC3	TMM3	STD3
1	Phloen Chit 3	PNC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Asok Din Daeng 2	ASD2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Sukhumvit 1	SKW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Sinran Rat 4	SRR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Krung Kasem 3	KKM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Samaen 2	SMS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Pathum Wan 2	PIW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Surawong 4	SRW4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Surawong 5	SRW5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Chaiyaphruk 1	CYP1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Chaiyaphruk 2	CYP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Phra Khanong 1	PKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Phra Khanong 2	PKG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	On Nut 1	ONT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Trok Chan 1	TKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	Trok Chan 2	TKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Thung Maharek 1	TMM1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Thung Maharek 2	TMM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Sathupradit 2	STD2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Thanon Tok 1	TNT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Thanon Tok 2	TNT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Khlong Toei 1	KTI1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Hua Mak 2	HAM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Khlong Chan 2	KGC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Khlong Chan 3	KGC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Ramkarnbaeng 1	RKH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Bang Chan 1	BGC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Lat Krabang 1	LKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Bang Na 1	BNA1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Bang Na 2	BNA2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	Bang Na 3	BNA3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Samut Prakan 2	SPK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Samut Prakan 3	SPK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	Bang Pu 1	BGU1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	Pu Chao Saeng Phrai 2	PSP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Bang Phli 1	BPL1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Bang Phli 2	BPL2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	Bang Phli Bang Bo 1	BBB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	Thon Buri 1	TNB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	Lat Ya T8	LYT8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	Phasi Charoen 1	PSN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	Phasi Charoen 2	PSN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Bang Phlat 2	BGT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Bang Phlat 3	BGT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Bang Bue Thong 1	BBT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	Bang Bue Thong 2	BBT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	Charan Sanitwong 1	CSW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	Charan Sanitwong 2	CSW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	Bang Khue 1	BKH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Bang Khao 2	BKE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	Nong Khaem 1	NGK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	Muban Sattakit 1	MSK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Dao Khanong 1	DKN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Dao Khanong 2	DKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	Phra Pradaeng 2	PPG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Ekkachai 1	EKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	Ekkachai 2	EKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	Rat Burana 1	RBN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	Phahonyothin T2	PYT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	Inthamara 1	ITM1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Inthamara 2	ITM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	Bang Khen 1	BGN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	Bang Khen 2	BGN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	Lat Phrao 1-2	LTP1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	Lat Phrao 2-1	LTP2-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	Lat Phrao 2-2	LTP2-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	Don Muang 2	DNM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Thanyaburi 1	TYB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	Rangsit 1	RST1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	Nawa Nakhon 1	NWN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	Bang Su 2	BGS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	Ngam Wong Wan 2	NWW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	Noenaburi 2	NFB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	Lak Si T4	LKST4	60	480	270	120	450	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	Lak Si 2	LKS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	Ram Indra 1	RIT1	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	Ram Indra 2	RIT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Pak Kret 1	PKK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	Pathum Thani 1	PTT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	Bang Phran 1	BAN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

13-6 The Number of Circuits between Exchanges in 1997 (Case-2) (10/18)

NO	Switch Unit Name	ABBR	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	
			RTI2	PKK1	PTT1	BANI	CWT1	PNC4	ASD3	SKW2	SRR5	KKM4	SMS3	PTW3	SRW6	CYP3	PKG3	ONT2	TKC3	TMM3	STD3	
81	Cheong Wathana 1	CWT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	Phloen Chit 4	PNC4	0	0	0	0	0	0	210	60	60	30	30	30	540	0	0	0	0	0	30	30
83	Asok Din Daeng 3	ASD3	0	0	0	0	0	210	0	30	60	30	60	30	240	0	0	0	0	0	0	0
84	Sukhumvit 2	SKW2	0	0	0	0	0	90	60	0	0	0	0	0	90	0	0	0	0	0	0	0
85	Samsen Rat 5	SRR5	0	0	0	0	0	90	90	0	0	0	0	30	180	0	0	0	0	0	0	0
86	Krung Kasem 4	KKM4	0	0	0	0	0	60	90	0	60	0	30	0	90	0	0	0	0	0	0	0
87	Samsen 3	SMS3	0	0	0	0	0	0	30	270	0	0	0	0	0	0	0	0	0	0	0	0
88	Pathum Wan 3	PTW3	0	0	0	0	0	30	30	0	0	0	0	0	90	0	0	0	0	0	0	0
89	Surawong 6	SRW6	0	0	0	0	0	420	240	60	150	30	30	150	0	0	0	0	0	0	0	0
90	Chaichaphruk 3	CYP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
91	Phra Khanong 3	PKG3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
92	On Nut 2	ONT2	0	0	0	0	0	30	0	0	0	0	0	0	30	0	0	0	0	0	0	0
93	Trak Chan 3	TKC3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
94	Thung Mahamek 3	TMM3	0	0	0	0	0	30	30	0	0	0	0	0	60	0	0	0	0	0	0	0
95	Sathupradit 3	STD3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
96	Thason Tok 3	TNT3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
97	Khlong Toei 1	KT12	0	0	0	0	0	90	60	0	0	0	0	0	150	0	0	0	0	0	0	0
98	Hua Mak 3	HAM3	0	0	0	0	0	90	90	0	30	0	0	0	120	0	0	0	0	0	90	0
99	Khlong Chan 4	KGCA	0	0	0	0	0	30	60	0	0	0	0	0	60	0	0	0	0	0	60	0
100	Ramkarnhaeng 2	RKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Bang Chan 2	BGC2	0	0	0	0	0	30	60	0	0	0	0	0	60	0	0	0	0	0	0	0
102	Lat Krabang 2	LKG2	0	0	0	0	0	30	0	0	0	0	0	0	30	0	0	60	0	0	0	0
103	Bang Na 4	BNA4	0	0	0	0	0	30	30	0	0	0	0	0	90	0	0	0	0	0	60	0
104	Samut Prakan 4	SPK4	0	0	0	0	0	30	0	0	0	0	0	0	30	0	0	0	0	0	30	0
105	Bang Pu 2	BGU2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	Pu Chao Saming Phrai 3	PSP3	0	0	0	0	0	60	60	0	0	0	0	0	150	0	0	0	0	0	60	0
107	Bang Phai 4	BPL4	0	0	0	0	0	30	30	0	0	0	0	0	60	0	0	0	0	0	60	0
108	Bang Phi Bang Bo 2	BBB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	Thon Buri 2	TNB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	Lai Ya 2	LY2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
111	Phasi Charoen 3	PSN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	Bang Phai 4	BGT4	0	0	0	0	0	30	60	0	30	0	0	0	60	0	0	0	0	0	0	0
113	Bang Bue Thong 3	BBT3	0	0	0	0	0	30	30	0	30	0	0	0	60	0	0	0	0	0	0	0
114	Charan Sanitwong 3	CSW3	0	0	0	0	0	30	0	0	0	0	0	0	30	0	0	0	0	0	0	0
115	Bang Khao 3	BKE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	Nong Khaem 2	NGK2	0	0	0	0	0	0	0	0	270	0	0	0	30	0	0	0	0	0	0	0
117	Muban Sotakit 2	MSK2	0	0	0	0	0	0	0	0	30	0	0	0	60	0	0	0	0	0	0	0
118	Dao Khanong 3	DKN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	Phra Pradaeng 3	PPD3	0	0	0	0	0	30	30	0	0	0	0	0	60	0	0	0	0	0	0	0
120	Ekkachai 3	EKC3	0	0	0	0	0	60	60	0	60	0	0	0	120	0	0	0	0	0	0	0
121	Rat Burana 2	RBH2	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0
122	Phahonyothin 4	PYT4	0	0	0	0	0	150	150	0	30	30	30	0	180	0	0	0	0	0	90	0
123	Inthamara 3	ITM3	0	0	0	0	0	30	60	0	0	0	0	0	0	0	0	0	0	0	30	0
124	Bang Khen 3	BGN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	Lat Phrao 1-3	LTP1-3	0	0	0	0	0	30	30	0	0	0	0	0	30	0	0	90	0	0	0	0
126	Lat Phrao 2-3	LTP2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Don Muang 3	DNM3	0	0	0	0	0	60	90	0	0	0	0	0	90	0	0	0	0	0	0	0
128	Thanyaburi 2	TYB2	0	0	0	0	0	0	0	0	90	0	0	0	0	0	0	0	0	0	0	0
129	Rangsit 2	RST2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	Nawa Nakhon 2	NWN2	0	0	0	0	0	30	0	0	0	0	0	0	30	0	0	0	0	0	0	0
131	Bang Su 3	BGS3	0	0	0	0	0	30	60	0	0	0	0	0	60	0	0	0	0	0	0	0
132	Ngam Wong Wan 3	NWW3	0	0	0	0	0	30	30	0	0	0	0	0	30	0	0	0	0	0	0	0
133	Nonthaburi 3	NTB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	Lak Si 3	LKS3	0	0	0	0	0	30	30	0	0	0	0	0	60	0	0	0	0	0	0	0
135	Ram Inthra 3	RIT3	0	0	0	0	0	30	30	0	0	0	0	0	30	0	0	0	0	0	0	0
136	Pak Kret 2	PKK2	0	0	0	0	0	30	0	0	0	0	30	0	30	0	0	0	0	0	0	0
137	Pathum Thani 2	PTT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0
138	Bang Phun 2	BAN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	Cheong Wathana 2	CWT2	0	0	0	0	0	30	30	0	0	0	0	0	30	0	0	0	0	0	0	0
140	Krung Kasem T1	KKT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
141	Phahonyothin T(XB)	PYTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142	Phloen Chit T3	PLT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	Thon Buri T(XB)	TNBTA	0	0	0	0	0	30	0	0	0	0	0	0	30	0	0	0	0	0	0	0
144	Surawong T(XB)	SWTA	0	0	0	0	0	30	30	0	0	0	0	0	90	0	0	0	0	0	0	0
145	Krung Kasem TP	KKTP	0	0	0	0	0	0	0	1,020	780	780	570	0	0	0	0	180	0	0	0	0
146	Phahonyothin TP	PYTP	0	0	0	0	0	1,950	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147	Phloen Chit TP	PLTP	0	0	0	0	0	2,160	0	630	30	30	0	0	3,000	0	0	0	0	690	210	0
148	Lak Si TP	LSTP	0	0	0	0	0	30	60	30	60	30	60	30	30	0	0	0	0	0	0	0
149	Phra Khanong TP	PNTP	0	0	0	0	0	30	60	30	30	30	30	30	300	390	420	0	0	60	0	0
150	Lai Ya TP	LYTP	0	0	0	0	0	30	60	30	60	30	30	30	0	0	0	0	0	0	0	30
151	Lak Si TC	LSTC	0	30	0	0	30	0	0	300	180	150	150	0	0	0	0	30	90	0	0	0
152	Phra Khanong TC	PNTC	0	0	0	0	0	0	420	0	0	0	0	0	0	0	0	0	0	0	0	0
153	Lai Ya TC	LYTC	0	0	0	0	0	600	0	60	0	0	0	0	870	0	0	0	0	30	30	0
154	Lak Si International	LSIT	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0
155	Phra Khanong International	PNIIT	0	0	0	0	0	0	30	0	0	0	0	0	0	0	30	0	0	0	0	0
156	Lai Ya International	LYIT	0	0	0	0	0	270	0	30	0	0	0	0	660	0	0	0	0	0	0	0
	Total		90	510	270	120	480	5,130	4,560	1,230	2,100	1,560	1,290	1,020	7,980	330	510	720	210	1,320	330	0

13-6 The Number of Circuits between Exchanges in 1997 (Case-2) (11/18)

NO	Switch Unit Name	ABBR	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114
			TNT3	KT12	HAM3	KGC4	RKN2	RGC2	L.KO2	BNA4	SPK4	BGU2	PSP3	BPL4	BBB2	TNB2	LYT2	PSN3	BGT4	BBT3	CSW3
1	Phloen Chit 3	PNC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Asok Din Daeng 2	ASD2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Sukhumvit 1	SKW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Sanwan Rat 4	SRR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Krung Kaem 3	KKM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Samsen 2	SMS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Pathom Wan 2	PTW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Surawong 4	SRW4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Surawong 5	SRW5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Chaiyaphruk 1	CYP1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Chaiyaphruk 2	CYP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Phra Khanong 1	PKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Phra Khanong 2	PKG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	On Nui 1	ONT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Troek Chan 1	TKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	Troek Chan 2	TKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Thung Mahamek 1	TMM1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Thung Mahamek 2	TMM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Sathupradit 2	STD2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Thanon Tok 1	TNT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Thanon Tok 2	TNT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Khlong Toei 1	KTI1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Hua Mak 2	HAM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Khlong Chan 2	KGC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Khlong Chan 3	KGC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Ramkhamhaeng 1	RKH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Bang Chan 1	BGC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Lat Krabang 1	LKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Bang Na 1	BNA1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Bang Na 2	BNA2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	Bang Na 3	BNA3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Sarnat Prakan 2	SPK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Sarnat Prakan 3	SPK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	Bang Pu 1	BGU1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	Pu Chao Saming Phrai 2	PSP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Bang Phli 1	BPL1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Bang Phli 2	BPL2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	Bang Phli Bang Bo 1	BBB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	Thon Buri 1	TNB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	Lat Ya T8	LTYT8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	Phasi Charoen 1	PSN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	Phasi Charoen 2	PSN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Bang Phlat 2	BGT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Bang Phlat 3	BGT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Bang Bae Thong 1	BBT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	Bang Bae Thong 2	BBT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	Charan Sanitwong 1	CSW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	Charan Sanitwong 2	CSW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	Bang Khao 1	BKE1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Bang Khao 2	BKE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	Nong Khaem 1	NGK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	Muban Setaikit 1	MSK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Dao Khanong 1	DKN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Dao Khanong 2	DKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	Phra Pradaeng 2	PPG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Bkkachai 1	BKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	Bkkachai 2	BKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	Rat Burana 1	RBN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	Phahonyothin T2	PYT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	Inthamara 1	ITM1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Inthamara 2	ITM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	Bang Khen 1	BON1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	Bang Khen 2	BON2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	Lat Phrao 1-2	LTP1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	Lat Phrao 2-1	LTP2-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	Lat Phrao 2-2	LTP2-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	Don Muang 2	DNM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Thanyaburi 1	TYB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	Rangsit 1	RST1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	Nawa Nakhon 1	NWN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	Bang Su 2	BGS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	Ngam Wong Wan 2	NWW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	Nonthaburi 2	NTB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	Lak Si T4	LKST4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	Lak Si 2	LKS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	Ram Inthra 1	RIT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	Ram Inthra 2	RIT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Pak Kret 1	PKK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	Pathum Thani 1	PTT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	Bang Phuan 1	BAN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

13-6 The Number of Circuits between Exchanges in 1997 (Case-2) (12/18)

NO	Switch Unit Name	ABBR	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114
			TNT3	KT12	HAM3	KGC4	RKN2	BGC2	LKG2	BNA4	SPK4	BGU2	PSP3	BPL4	BBB2	TNB2	LY2	PSN3	BGT4	BBT3	CSW3
81	Cheng Withana 1	CW11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	Phloen Chit 4	PNC4	0	69	240	60	0	30	30	60	0	0	90	60	0	0	30	0	60	60	0
83	Asok Din Daeng 3	ASD3	0	30	90	60	0	30	0	30	0	0	30	30	0	0	0	0	60	30	30
84	Sukhumvit 2	SKW2	0	30	30	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
85	Samran Rat 5	SRR5	30	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	30	30	0
86	Krung Kasem 4	KKM4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	0
87	Samsen 3	SMS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	Pathum Wan 3	PTW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	Surawong 6	SRW6	30	120	450	60	0	60	0	60	60	0	90	60	0	30	30	0	60	30	30
90	Chaiyapruk 3	CYP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	Phra Khanong 3	PKG3	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	On Nut 2	ONT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	Troak Chan 3	TKC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	Thung Mahatrek 3	TMM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	Satunpradit 3	STD3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	Thonon Tok 3	TNT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	Khlong Toei 1	KT12	0	0	30	0	0	0	0	30	30	0	30	30	0	0	0	0	0	0	0
98	Hua Mak 3	HAM3	0	60	0	60	0	30	0	30	0	0	0	60	0	0	0	0	0	0	0
99	Khlong Chan 4	KGC4	0	0	30	0	0	60	0	0	0	0	0	30	0	0	0	0	0	0	0
100	Ramkambhaeng 2	RKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Bang Chan 2	BGC2	0	0	30	60	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
102	Lat Krabang 2	LKG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	Bang Na 4	BNA4	0	30	0	0	0	0	0	0	0	0	0	60	60	0	0	0	0	0	0
104	Samut Prakan 4	SPK4	0	0	0	0	0	0	0	0	0	30	60	30	0	0	0	0	0	0	0
105	Bang Pu 2	BGU2	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0
106	Pu Chao Saming Phrai 3	PSP3	0	60	0	0	0	0	0	30	30	0	0	90	0	0	0	0	0	0	0
107	Bang Phli 4	BPL4	0	30	30	30	0	30	0	60	30	0	60	0	60	0	0	0	0	0	0
108	Bang Phli Bang Bo 2	BBB2	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0
109	Thon Buri 2	TNB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	Lat Ya 2	LY2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	Phasi Charoen 3	PSN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	Bang Phlat 4	BGT4	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	90	0
113	Bang Bus Thong 3	BBT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	0
114	Charan Sanitwong 3	CSW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	Bang Khao 3	BKE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	Nong Khaem 2	NGK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Muban Setaikit 2	MSK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	Dao Khanong 3	DKN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	Phra Pradsang 3	PPG3	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0
120	Ekkachai 3	EKC3	0	0	30	0	0	0	0	0	0	0	30	0	0	30	30	0	0	0	0
121	Rat Burana 2	RBN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	Phahonyothin 4	PYT4	0	60	30	30	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0
123	Irtamara 3	ITM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	Bang Khen 3	BGN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	Lat Phrao 1-3	LTP1-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Lat Phrao 2-3	LTP2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Don Muang 3	DNM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	Thanyaburi 2	TYB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Rangsit 2	RST2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	Nawa Nakhon 2	NWN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131	Bang Su 3	BGS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132	Ngan Wong Wan 3	NWW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Nonthaburi 3	NTB3	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	Lak Si 3	LKS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	Rum Inthra 3	RIT3	0	0	0	30	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0
136	Pak Kret 2	PKK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137	Pathum Thani 2	PTT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	Bang Phun 2	BAN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	Chang Withana 2	CWT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	Krung Kasem T1	KKT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
141	Phahonyothin T(XB)	PYTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142	Phloen Chai T3	PLT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	Thon Buri T(XB)	TNBTA	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0
144	Surawong T(XB)	SWTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	Krung Kasem TP	KKTP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146	Phahonyothin TP	PYTP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147	Phloen Chai TP	PLTP	360	870	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
148	Lak Si TP	LSTP	30	60	90	90	0	900	30	60	30	0	90	60	0	0	0	0	60	810	30
149	Phra Khanong TP	PNTP	0	30	1,200	960	150	30	420	870	540	210	930	990	270	0	0	0	0	0	0
150	Lat Ya TP	LYTP	0	30	60	60	0	0	0	60	30	0	60	60	0	480	450	210	870	0	600
151	Lak Si TC	LSTC	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	150	0
152	Phra Khanong TC	PNTC	0	0	210	120	0	60	150	90	30	240	240	30	0	0	0	0	0	0	0
153	Lat Ya TC	LYTC	30	150	0	0	0	0	0	0	0	0	0	0	0	30	60	30	180	0	60
154	Lak Si International	L SIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	Phra Khanong International	PNIIT	0	0	30	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0
156	Lat Ya International	LYIT	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total			480	1,680	2,580	1,650	150	1,290	540	1,470	900	270	1,830	1,920	360	600	630	240	1,440	1,200	810

13-6 The Number of Circuits between Exchanges in 1997 (Case-2) (13/18)

NO	Switch Unit Name	ABBR	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133
			BKE3	NGK2	MSK2	DKN3	PPG3	EKC3	RBN2	PYT4	PTM3	BGN3	LTP1-3	LTP2-3	DNM3	TYB2	RST2	NWN2	BGS3	NWW3	NTB3
1	Phloen Chit 3	PNC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Asok Din Daeng 2	ASD2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Sukhumvit 1	SKW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Samran Rat 4	SRR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Krung Kasem 3	KKM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Samsen 2	SMS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Pathum Wan 2	PTW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Surawong 4	SRW4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Surawong 5	SRW5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Chaiyaphruk 1	CYP1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Chaiyaphruk 2	CYP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Pura Khanong 1	PKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Pura Khanong 2	PKG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	On Nut 1	ONT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Trook Chan 1	TKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	Trook Chan 2	TKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Thung Maharek 1	TMM1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Thung Maharek 2	TMM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Sathu Pradit 2	STD2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Thanon Tok 1	TNT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Thanon Tok 2	TNT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Khlong Toei 1	KT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Hua Mak 2	HAM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Khlong Chan 2	KGC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Khlong Chan 3	KGC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Ramkumbheng 1	RKH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Bang Chan 1	BGC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Lat Krabang 1	LKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Bang Na 1	BNA1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Bang Na 2	BNA2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	Bang Na 3	BNA3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Samut Prakan 2	SPK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Samut Prakan 3	SPK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	Bang Pa 1	BGU1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	Pu Chao Saring Phrai 2	PSP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Bang Phli 1	BPL1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Bang Phli 2	BPL2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	Bang Phli Bang Bo 1	BBB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	Thon Buri 1	TNB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	Lat Ya T8	LYT8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	Phasi Charoen 1	PSN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	Phasi Charoen 2	PSN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Bang Phlat 2	BGT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Bang Phlat 3	BGT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Bang Bue Thong 1	BBT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	Bang Bue Thong 2	BBT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	Charan Sanitwong 1	CSW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	Charan Sanitwong 2	CSW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	Bang Khae 1	BKE1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Bang Khae 2	BKE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	Nong Khaem 1	NGK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	Muban Senakit 1	MSK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Dao Khanong 1	DKN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Dao Khanong 2	DKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	Pura Pradaeng 2	PPG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Ekkachai 1	EKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	Ekkachai 2	EKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	Rat Burana 1	RBN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	Phahonyothin T2	PYT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	Inthamara 1	ITM1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Inthamara 2	ITM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	Bang Khen 1	BGN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	Bang Khen 2	BGN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	Lat Phrao 1-2	LTP1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	Lat Phrao 2-1	LTP2-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	Lat Phrao 2-2	LTP2-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	Don Muang 2	DNM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Thanyaburi 1	TYB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	Rangsit 1	RST1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	Nawa Nakhon 1	NWN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	Bang Su 2	BGS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	Ngam Wong Wan 2	NWW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	Nonthaburi 2	NTB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	Lak Si T4	LKST4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	Lak Si 2	LKS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	Ram Inthra 1	RIT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	Ram Inthra 2	RIT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Pak Kret 1	PKK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	Pathum Thani 1	PTT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	Bang Phum 1	BAN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

13-6 The Number of Circuits between Exchanges in 1997 (Case-2) (14/18)

NO	Switch Unit Name	ABBR	115	118	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	
			BKE3	NGK2	MSK2	DKN3	ITG3	EKC3	RBN2	PYT4	ITM3	BGN3	LTP1-3	LTP2-3	DNM3	TYB2	RST2	NWN2	BGS3	NWW3	NTB3	
81	Chaeng Watthana 1	CWF1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	Phloen Chit 4	PNC4	0	60	30	0	0	60	30	270	60	0	30	0	60	0	0	30	0	30	0	0
83	Asok Din Daeng 3	ASD3	0	30	30	0	0	60	0	150	60	30	30	30	60	0	0	0	0	0	30	30
84	Sukhumvit 2	SKW2	0	0	0	0	0	0	0	30	0	0	0	0	30	0	0	0	0	0	0	0
85	Saracen Rat 5	SRR5	0	60	60	0	0	60	30	30	0	0	0	0	0	0	0	0	0	0	0	0
86	Krung Kasem 4	KKM4	0	0	0	0	0	30	0	60	0	0	0	0	30	0	0	0	0	0	0	0
87	Samsen 3	SMS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	Pathum Wan 3	PTW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	Suruwong 6	SRW6	0	90	60	30	60	150	60	150	30	0	30	0	90	0	0	30	0	30	0	0
90	Chaiyaphruk 3	CYP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	Phra Khanong 3	PKG3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	On Nut 2	ONT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	Trok Chan 3	TKC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	Thung Maharek 3	TMM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	Saihupradit 3	STD3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	Thanon Tok 3	TNT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	Khlong Toei 1	KT12	0	0	0	0	0	30	0	30	0	0	0	0	0	0	0	0	0	0	0	0
98	Hua Mak 3	HAM3	0	0	0	0	0	30	0	30	0	0	0	0	30	0	0	0	0	0	0	0
99	Khlong Chan 4	KGC4	0	0	0	0	0	0	0	30	0	0	0	0	30	0	0	0	0	0	0	0
100	Ramkambaeng 2	RKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Bang Chan 2	BGC2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
102	Lat Krabang 2	LKO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	Bang Na 4	BNA4	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
104	Samut Prakan 4	SPK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	Bang Pa 2	BGP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	Pu Chao Samrit Phra 3	PSP3	0	0	0	0	30	30	0	30	0	0	0	0	0	0	0	0	0	0	30	0
107	Bang Phai 4	BPL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	Bang Phai Bang Bo 2	BBB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	Thon Buri 2	TNB2	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	Lat Ya 2	LTY2	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	Phasi Charoen 3	PSN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	Bang Phlat 4	BGT4	0	30	30	0	0	30	0	30	0	0	0	0	0	0	0	0	0	0	0	0
113	Bang Bue Thong 3	BBT3	0	30	30	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114	Charan Sanitwong 3	CSW3	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	Bang Khac 3	BKE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	Nong Khaem 2	NGK2	0	0	120	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Muban Setaikit 2	MSK2	0	180	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	Dao Khanong 3	DKN3	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	Phra Pradaeng 3	PPG3	0	0	0	0	0	60	60	0	0	0	0	0	0	0	0	0	0	0	0	0
120	Bkkachai 3	BKC3	0	90	60	60	30	0	90	30	0	0	0	0	0	0	0	0	0	0	0	0
121	Rat Burana 2	RBN2	0	0	0	0	30	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	Phahonyothin 4	PYT4	0	0	0	0	0	0	0	0	60	30	30	0	60	0	0	0	0	60	30	0
123	Inthamara 3	ITM3	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
124	Bang Khan 3	BGN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	Lat Phrao 1-3	LTP1-3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
126	Lat Phrao 2-3	LTP2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Don Muang 3	DNM3	0	0	0	0	0	0	0	60	0	0	0	0	0	90	30	30	30	30	0	0
128	Thanyaburi 2	TYB2	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0
129	Rangsit 2	RST2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
130	Nawa Nakhon 2	NWN2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	30	0	0
131	Bang Su 3	BGS3	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	60	0	0	30
132	Ngam Wong Wan 3	NWW3	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	30	0	30
133	Nonthaburi 3	NTB3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	60	0	0
134	Lak Si 3	LKS3	0	0	0	0	0	0	0	60	0	0	0	0	60	0	0	0	0	0	0	0
135	Ram Inthra 3	RIT3	0	0	0	0	0	0	0	30	0	0	0	0	30	0	0	0	0	0	0	0
136	Pak Kret 2	PKK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
137	Pathum Thani 2	PTT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	Bang Phun 2	BAN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	Chaeng Watthana 2	CWT2	0	0	0	0	0	0	0	30	0	0	0	0	30	0	0	0	0	0	0	0
140	Krung Kasem T1	KKT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
141	Phahonyothin T(XB)	PYTA	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
142	Phloen Chit T3	PLT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	Thon Buri T(XB)	TNBTA	0	30	30	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
144	Suruwong T(XB)	SWTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	Krung Kasem TP	KKTP	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
146	Phahonyothin TP	PYTP	0	0	0	0	0	0	0	1,320	660	0	0	0	0	0	0	0	0	0	0	0
147	Phloen Chit TP	PLTP	0	0	0	0	30	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0
148	Lak Si TP	LSTP	0	30	30	0	0	60	0	60	120	540	600	420	1,140	420	180	420	720	690	630	0
149	Phra Khanong TP	PNTP	0	0	0	0	0	30	0	30	60	0	0	0	0	0	0	0	0	0	0	0
150	Lat Ya TP	LYTP	360	960	840	420	600	1,350	690	60	60	0	0	0	0	0	0	0	0	0	0	0
151	Lak Si TC	LSTC	0	0	0	0	0	0	0	0	0	60	60	150	600	150	30	30	60	90	90	0
152	Phra Khanong TC	PNTC	0	0	0	0	0	0	0	300	90	0	0	0	0	0	0	0	0	0	0	0
153	Lat Ya TC	LYTC	30	60	60	30	90	90	60	0	0	0	0	0	0	0	0	0	0	0	0	0
154	Lak Si International	LSIT	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	30	0	0	0	0
155	Phra Khanong International	PNIIT	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
156	Lat Ya International	LYIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total		390	1,650	1,380	540	870	2,430	1,020	3,030	1,290	660	780	600	2,490	660	240	630	1,020	900	840	0



13-6 The Number of Circuits between Exchanges in 1997 (Case-2) (15/18)

NO	Switch Unit Name	ABBR	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152
			LKS3	RIT3	PKK2	PTT2	BAN2	CWT2	MC1	MC2	MC3	MC4	13	KKT1	PYTA	PLT3	TNBT	SWTA	KKTP	PYTP	PLTP
1	Pihoen Chai 3	PNC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Aoek Din Daeng 2	ASD2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,430	0	0	0	0
3	Sukhumwit 1	SKW1	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0	0
4	Samran Rat 4	SRR4	0	0	0	0	0	0	0	0	0	0	0	0	30	0	1,320	0	0	0	0
5	Krung Kasom 3	KKM3	0	0	0	0	0	0	0	30	0	0	0	0	1,740	0	0	0	0	0	0
6	Samson 2	SMS2	0	0	0	0	0	0	0	0	0	0	0	0	1,230	0	0	0	0	0	0
7	Pathum Wan 2	PIW2	0	0	0	0	0	0	0	0	0	0	0	0	420	0	30	0	0	0	0
8	Surawong 4	SRW4	0	0	0	0	0	0	0	0	0	0	0	0	30	30	0	2,130	0	0	0
9	Surawong 5	SRW5	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	210	0	30	0
10	Chaiyaphruk 1	CYP1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0
11	Chaiyaphruk 2	CYP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0
12	Phra Khanong 1	PKG1	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0
13	Phra Khanong 2	PKG2	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0
14	On Nui 1	ONF1	0	0	0	0	0	0	0	0	0	0	0	0	0	60	30	120	60	30	240
15	Trok Chan 1	TKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	60	0	0	0
16	Trok Chan 2	TKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	0	0	0
17	Thung Mahamek 1	TMM1	0	0	0	0	0	0	0	0	0	0	0	0	0	300	0	60	0	0	0
18	Thung Mahamek 2	TMM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180	0	0	0	0
19	Sathupradit 2	STD2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210	0	0
20	Tharon Tok 1	TNT1	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	390	0	0	0
21	Tharon Tok 2	TNT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180	0	0
22	Khlong Toei 1	KTH1	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	330	0	0	0
23	Hua Mak 2	HAM2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	450	0	0	0
24	Khlong Chan 2	KGC2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	60	0	0	0
25	Khlong Chan 3	KGC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Remkambong 1	RKH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Bang Chan 1	BGC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Lst Krabang 1	LKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Bang Na 1	BNA1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Bang Na 2	BNA2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	Bang Na 3	BNA3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Samat Prakan 2	SPK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Samat Prakan 3	SPK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	Bang Pu 1	BGU1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	Pu Chao Saming Phrai 2	PSP2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0
36	Bang Phli 1	BPL1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Bang Phli 2	BPL2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	Bang Phli Bang Bo 1	BBB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	Thon Buri 1	TNB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	Lat Ya TB	LTYTB	0	0	0	0	0	0	0	0	60	0	0	0	60	30	120	60	90	360	330
41	Phasi Charoen 1	PSN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	173	0	0	0
42	Phasi Charoen 2	PSN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Bang Phlat 2	BGT2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0
44	Bang Phlat 3	BGT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Bang Bue Thong 1	BBT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	Bang Bue Thong 2	BBT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	Charan Sanitwong 1	CSW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	Charan Sanitwong 2	CSW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	270	0	0	0	0
49	Bang Khae 1	BKB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	160	0	0	0
50	Bang Khae 2	BKB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	Nong Khaem 1	NGK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	Muban Sattakit 1	MSK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Dao Khanong 1	DKN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	270	0	0	0
54	Dao Khanong 2	DKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	Phra Pradeong 2	PPG2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0
56	Ekkachai 1	EKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0
57	Ekkachai 2	EKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	Rat Burana 1	RBN1	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0
59	Phahonyothin T2	PYT2	0	0	0	0	0	0	0	0	0	0	0	0	0	60	30	120	60	60	210
60	Indumara 1	ITM1	0	0	0	0	0	0	0	0	0	0	0	0	0	270	0	0	0	0	0
61	Indumara 2	ITM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0
62	Bang Khen 1	BGN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	Bang Khen 2	BGN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	Lat Phrao 1-2	LTP1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0
65	Lat Phrao 2-1	LTP2-1	0	0	0	0	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0
66	Lat Phrao 2-2	LTP2-2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0
67	Don Muang 2	DNM2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	60	0	0	0
68	Thanyaburi 1	TYB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	Rongkhit 1	RST1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	Nawa Nakhon 1	NWN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	Bang Su 2	BGS2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0
72	Ngain Wong Wan 2	NWW2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0
73	Noonhaburi 2	NTH2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0
74	Lak Si T4	LKST4	0	0	0	0	0	0	0	0	0	60	0	60	30	120	60	60	360	630	660
75	Lak Si 2	LKS2	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0
76	Ram Inthra 1	RIT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	Ram Inthra 2	RIT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Pak Kret 1	PKK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0
79	Pathum Thani 1	PTT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	Bang Phun 1	BAN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



13-6 The Number of Circuits between Exchanges in 1997 (Case-2) (16/18)

NO	Switch Unit Name	ABBR	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152
			LKS3	RTT3	PKK2	PTT2	BAN2	CWT2	MC1	MC2	MC3	MC4	13	KKT1	PYTA	PLT3	INBT	SWTA	KKTIP	PYIP	PLTP
81	Chaeng Watthana 1	CWT1	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0
82	Phloen Chit 4	PNC4	0	30	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	2,520
83	Asok Din Daeng 3	ASD3	30	30	30	0	0	30	0	0	0	0	0	0	0	0	0	0	30	1,830	30
84	Sukhumvit 2	SKW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	690
85	Samran Rat 5	SRR5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,020	0	30
86	Krung Kasem 4	KKM4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	930	0	0
87	Samsen 3	SMS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	690	0	30
88	Pathum Wan 3	PTW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	480	30	30
89	Surawong 6	SRW6	60	30	30	0	0	30	0	0	0	0	0	0	0	0	0	0	30	0	2,940
90	Chaiyaphruk 3	CYP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
91	Phra Khanong 3	PKG3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	On Nut 2	ONT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
93	Troek Chan 3	TKC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210	0	30
94	Thung Maharek 3	TMM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	420
95	Sathupradit 3	STD3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
96	Thanon Tok 3	TNT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	330
97	Khlong Toei 1	KT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	780
98	Hua Mak 3	HAM3	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	30	30
99	Khlong Chan 4	KGCA	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	60
100	Ramakhamseung 2	RKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Bang Chan 2	BGC2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30
102	Lat Krabang 2	LKG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
103	Bang Na 4	BNA4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30
104	Samut Prakan 4	SPK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
105	Bang Pu 2	BGU2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
106	Pu Chao Saming Phrai 3	PSP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
107	Bang Phli 4	BPL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30
108	Bang Phli Bang Bo 2	BBB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
109	Thon Buri 2	TNB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
110	Lat Ya 2	LTY2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	Phasi Charoen 3	PSN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	Bang Phlat 4	BPT4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30
113	Bang Bue Thong 3	BBT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	0
114	Charan Sanitwong 3	CSW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30
115	Bang Khoe 3	BKB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
116	Nong Khaem 2	NK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
117	Muban Senakit 2	MSK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
118	Dao Khanong 3	DKN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
119	Phra Pradaeng 3	PPG3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
120	Ekkachai 3	EKC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
121	Rai Burana 2	RBN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30
122	Phahonyothin 4	PYTA	30	30	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	1,290	0
123	Inthamara 3	ITM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	570	30
124	Bang Khon 3	BGN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
125	Lat Phrao 1-3	LTP1-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	0
126	Lat Phrao 2-3	LTP2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
127	Don Muang 3	DNM3	60	30	30	30	0	30	0	0	0	0	0	0	0	0	0	0	60	0	30
128	Thanyaburi 2	TYB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
129	Rangsit 2	RST2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	Nawa Nakhon 2	NWN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
131	Bang Su 3	BGS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	30
132	Ngem Wong Wan 3	NWW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
133	Nonthaburi 3	NTB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	30	30
134	Lak Si 3	LKS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	Ram Inthra 3	RTT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
136	Pak Kret 2	PKK2	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30
137	Pathum Thani 2	PTT2	0	0	90	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30
138	Bang Phun 2	BAN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	Chaeng Watthana 2	CWT2	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
140	Krung Kasem T1	KKT1	0	0	0	0	0	0	60	0	0	0	0	0	60	150	90	60	510	480	930
141	Phahonyothin T(XB)	PYTA	0	0	0	0	0	0	0	0	0	0	0	30	0	60	30	30	30	60	60
142	Phloen Chit T3	PLT3	0	0	0	0	0	0	0	0	0	0	630	120	30	0	60	30	420	780	2,430
143	Thon Buri T(XB)	TNBTA	0	0	0	0	0	0	0	0	0	0	0	60	30	60	0	30	60	30	90
144	Surawong T(XB)	SWTA	0	0	0	0	0	0	0	0	0	0	30	60	30	60	30	0	60	60	60
145	Krung Kasem TP	KKTIP	0	0	0	0	0	0	0	0	0	0	0	540	30	930	60	60	0	60	90
146	Phahonyothin TP	PYIP	0	0	0	0	0	0	0	0	0	0	0	450	90	750	60	60	90	0	90
147	Phloen Chit TP	PLTP	0	0	0	0	0	0	0	0	0	0	0	960	90	2,670	120	240	90	60	0
148	Lak Si TP	LSTP	690	690	720	570	150	720	0	0	0	0	0	750	90	990	120	90	90	60	90
149	Phra Khanong TP	PNTP	0	0	0	0	0	0	0	0	0	0	0	450	60	1,020	90	120	60	60	120
150	Lat Ya TP	LYTP	0	0	0	0	0	0	0	0	0	0	0	720	60	690	270	120	60	30	120
151	Lak Si TC	LSTC	330	60	90	60	0	90	0	0	0	0	0	60	0	0	0	0	30	0	0
152	Phra Khanong TC	PNTC	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	30	0
153	Lat Ya TC	LYTC	0	0	0	0	0	0	0	0	0	0	0	0	90	60	0	0	0	0	60
154	Lak Si International	LSIT	60	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	60	0	0
155	Phra Khanong International	PNTIT	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	30	0
156	Lat Ya International	LYIT	0	0	0	0	0	0	0	0	0	0	0	0	60	30	30	0	0	0	30
Total			1,260	990	1,020	780	150	960	90	90	60	90	720	9,630	1,140	16,710	2,163	1,890	6,990	8,070	16,080

13-6 The Number of Circuits between Exchanges in 1997 (Case-2) (17/18)

NO	Switch Unit Name	ABBR	153		154		155		156		157		158		159		160		161		TOTAL
			LSTP	PNTF	LYTP	LSTC	PNTC	LYTC	LSIF	PNTF	LYTF	LSIF	PNTF	LYTF	LSIF	PNTF	LYTF	LSIF	PNTF	LYTF	
1	Phloen Chit 3	PNC3	0	0	0	0	0	0	240	0	0	0	0	0	150					4,170	
2	Asook Din Daeng 2	ASD2	0	0	0	0	0	90	0	0	0	0	0	0	0					2,280	
3	Sukhumvit 1	SKW1	0	0	0	0	0	0	90	0	0	0	0	0	0					2,370	
4	Samsan Rai 4	SRR4	0	0	0	180	0	0	0	0	0	0	0	0	0					3,050	
5	Krung Kasem 3	KKM3	0	0	0	60	0	0	0	0	0	0	0	0	0					1,770	
6	Samsen 2	SMS2	0	0	0	30	0	0	0	0	0	0	0	0	0					630	
7	Pathum Wan 2	PTW2	0	0	0	60	0	0	0	0	0	0	0	0	0					1,110	
8	Surawong 4	SRW4	0	0	0	0	0	0	180	0	0	0	0	0	210					3,900	
9	Surawong 5	SRW5	0	0	0	0	0	0	60	0	0	0	0	0	60					420	
10	Chaiyaphruk 1	CYP1	0	0	0	0	0	30	0	0	0	0	0	0	0					600	
11	Chaiyaphruk 2	CYP2	0	0	0	0	0	30	0	0	0	0	0	0	0					690	
12	Phra Khanong 1	PKG1	0	0	0	0	0	30	0	0	0	0	0	30	0					350	
13	Phra Khanong 2	PKG2	750	1,620	480	0	180	0	0	0	0	0	120	0	0					14,070	
14	On Nut 1	ONT1	0	0	0	0	0	0	0	0	0	0	0	0	0					570	
15	Trek Chan 1	TKC1	0	0	0	0	0	0	0	0	0	0	0	0	0					450	
16	Trek Chan 2	TKC2	0	0	0	0	0	0	0	0	0	0	0	0	0					450	
17	Thung Mahamek 1	TMM1	0	0	0	0	0	0	0	0	0	0	0	0	0					270	
18	Thung Mahamek 2	TMM2	0	0	0	0	0	0	0	0	0	0	0	0	0					210	
19	Saburpradit 2	STD2	0	0	0	0	0	0	30	0	0	0	0	0	0					510	
20	Thanon Tok 1	TNT1	0	0	0	0	0	0	0	0	0	0	0	0	0					240	
21	Thanon Tok 2	TNT2	0	0	0	0	0	0	30	0	0	0	0	0	0					480	
22	Khlong Toei 1	KT1	0	0	0	0	0	0	30	0	0	0	0	0	0					720	
23	Hua Mak 2	HAM2	0	0	0	0	0	90	0	0	0	0	0	0	0					1,560	
24	Khlong Chan 2	KGC2	0	0	0	0	0	30	0	0	0	0	0	0	0					1,020	
25	Khlong Chan 3	KGC3	0	0	0	0	0	0	0	0	0	0	0	0	0					180	
26	Ramkamhaeng 1	RKHI	0	0	0	0	0	0	0	0	0	0	0	0	0					150	
27	Bang Chan 1	BGC1	0	0	0	0	0	0	0	0	0	0	0	0	0					510	
28	Lat Krabang 1	LKI1	0	0	0	0	0	0	0	0	0	0	0	0	0					210	
29	Bang Na 1	BNA1	0	0	0	0	0	30	0	0	0	0	0	0	0					540	
30	Bang Na 2	BNA2	0	0	0	0	0	30	0	0	0	0	0	0	0					510	
31	Bang Na 3	BNA3	0	0	0	0	0	0	0	0	0	0	0	0	0					240	
32	Sarnut Prakan 2	SPK2	0	0	0	0	0	0	0	0	0	0	0	0	0					270	
33	Sarnut Prakan 3	SPK3	0	0	0	0	0	0	0	0	0	0	0	0	0					150	
34	Bang Pu 1	BGU1	0	0	0	0	0	0	0	0	0	0	0	0	0					150	
35	Pu Chao Saming Phrai 2	PSP2	0	0	0	0	0	30	0	0	0	0	0	0	0					900	
36	Bang Phli 1	BPL1	0	0	0	0	0	30	0	0	0	0	0	0	0					540	
37	Bang Phli 2	BPL2	0	0	0	0	0	0	0	0	0	0	0	0	0					150	
38	Bang Phli Bang Bo 1	BBB1	0	0	0	0	0	0	0	0	0	0	0	0	0					180	
39	Thon Buri 1	TNB1	0	0	0	0	0	0	0	0	0	0	0	0	0					570	
40	Lat Ya T8	LYT8	600	420	1,740	0	0	150	0	0	0	0	60	0	0					11,730	
41	Phasi Charoen 1	PSN1	0	0	0	0	0	0	0	0	0	0	0	0	0					233	
42	Phasi Charoen 2	PSN2	0	0	0	0	0	0	30	0	0	0	0	0	0					330	
43	Bang Phlat 2	BGT2	0	0	0	0	0	60	0	0	0	0	0	0	0					1,710	
44	Bang Phlat 3	BGT3	0	0	0	0	0	0	0	0	0	0	0	0	0					90	
45	Bang Bue Thong 1	BBT1	0	0	0	0	0	0	0	0	0	0	0	0	0					210	
46	Bang Bue Thong 2	BBT2	0	0	0	0	0	0	0	0	0	0	0	0	0					90	
47	Charan Sanitwong 1	CSW1	0	0	0	0	0	0	0	0	0	0	0	0	0					300	
48	Charan Sanitwong 2	CSW2	0	0	0	0	0	30	0	0	0	0	0	0	0					540	
49	Bang Khao 1	BKB1	0	0	0	0	0	0	0	0	0	0	0	0	0					220	
50	Bang Khao 2	BKB2	0	0	0	0	0	0	0	0	0	0	0	0	0					270	
51	Nong Khaem 1	NGK1	0	0	0	0	0	0	30	0	0	0	0	0	0					450	
52	Muban Sotakit 1	MSK1	0	0	0	0	0	0	30	0	0	0	0	0	0					360	
53	Dao Khanong 1	DKN1	0	0	0	0	0	0	0	0	0	0	0	0	0					390	
54	Dao Khanong 2	DKN2	0	0	0	0	0	0	0	0	0	0	0	0	0					210	
55	Phra Pradaeng 2	PPG2	0	0	0	0	0	0	30	0	0	0	0	0	0					570	
56	Ekkachai 1	EKC1	0	0	0	0	0	0	30	0	0	0	0	0	0					930	
57	Ekkachai 2	EKC2	0	0	0	0	0	0	0	0	0	0	0	0	0					210	
58	Rat Burana 1	RBN1	0	0	0	0	0	0	0	0	0	0	0	0	0					630	
59	Phahonyothin T2	PYT2	570	300	270	0	120	0	0	60	0	0	0	0	0					5,910	
60	Inthamara 1	ITM1	0	0	0	0	0	0	0	0	0	0	0	0	0					390	
61	Inthamara 2	ITM2	0	0	0	0	0	30	0	0	0	0	0	0	0					660	
62	Bang Khen 1	BGN1	0	0	0	0	0	0	0	0	0	0	0	0	0					420	
63	Bang Khen 2	BGN2	0	0	0	0	30	0	0	0	0	0	0	0	0					630	
64	Lat Phrao 1-2	LTP1-2	0	0	0	0	0	0	0	0	0	0	0	0	0					1,050	
65	Lat Phrao 2-1	LTP2-1	0	0	0	0	0	0	0	0	0	0	0	0	0					150	
66	Lat Phrao 2-2	LTP2-2	0	0	0	0	0	0	0	0	0	0	0	0	0					660	
67	Don Muang 2	DNM2	0	0	0	30	0	0	0	0	0	0	0	0	0					840	
68	Thanyaburi 1	TYB1	0	0	0	0	0	0	0	0	0	0	0	0	0					90	
69	Rangsit 1	RST1	0	0	0	0	0	0	0	0	0	0	0	0	0					180	
70	Nawa Nakhon 1	NWN1	0	0	0	0	0	0	0	0	0	0	0	0	0					300	
71	Bang Su 2	BGS2	0	0	0	30	0	0	0	0	0	0	0	0	0					660	
72	Ngam Wong Wan 2	NWW2	0	0	0	30	0	0	0	0	0	0	0	0	0					810	
73	Noothaburi 2	NTB2	0	0	0	0	0	0	0	0	0	0	0	0	0					450	
74	Lak Si T4	LKST4	2,160	660	450	270	60	0	90	30	0	0	0	0	0					14,760	
75	Lak Si 2	LKS2	0	0	0	30	0	0	30	0	0	0	0	0	0					150	
76	Ram Inthra 1	RIT1	0	0	0	0	0	0	0	0	0	0	0	0	0					390	
77	Ram Inthra 2	RIT2	0	0	0	0	0	0	0	0	0	0	0	0	0					90	
78	Pak Kret 1	PKK1	0	0	0	0	0	0	0	0	0	0	0	0	0					510	
79	Pathum Thani 1	PTT1	0	0	0	0	0	0	0	0	0	0	0	0	0					240	
80	Bang Phun 1	BAN1	0	0	0	0	0	0	0	0	0	0	0	0	0					120	

13-6 The Number of Circuits between Exchanges in 1997 (Case-2) (18/1E)

NO	Switch Unit Name	ABBR	153	154	155	156	157	158	159	160	161	TOTAL
			LSTP	PNTP	LYTP	LSTC	PNTC	LYTC	LSIT	PNTI	LYIT	
81	Chaeng Wathana 1	CWT1	0	0	0	0	0	0	0	0	0	480
82	Phloen Chit 4	PNC4	180	0	0	0	0	420	0	0	300	5,040
83	Asok Din Daeng 3	ASD3	150	90	90	0	180	0	0	30	0	4,170
84	Sukhumvit 2	SKW2	150	150	60	0	0	90	0	0	30	1,590
85	Samran Rai 5	SRR5	180	120	90	180	0	0	60	0	0	2,400
86	Krung Kasem 4	KKM4	180	0	0	90	0	0	0	0	0	1,710
87	Samsen 3	SMS3	0	30	30	60	0	0	0	0	0	1,140
88	Pathum Wan 3	PTW3	60	60	60	90	0	0	0	0	0	960
89	Surawong 6	SRW6	150	90	30	0	0	480	0	0	750	2,740
90	Chaiyaphruk 3	CYP3	0	270	0	0	30	0	0	0	0	330
91	Phra Khanong 3	PKG3	0	420	0	0	60	0	0	60	0	600
92	On Nut 2	ONT2	0	480	30	0	30	0	0	0	0	630
93	Troek Chan 3	TKC3	0	30	30	0	0	0	0	0	0	330
94	Thung Maharek 3	TMM3	30	60	60	0	0	60	0	0	0	810
95	Sathu Pradit 3	STD3	0	30	30	0	0	0	0	0	0	300
96	Thason Tok 3	TNT3	0	30	30	0	0	30	0	0	0	450
97	Khlong Toei 1	KT1	150	60	60	0	0	90	0	0	30	1,710
98	Hua Mak 3	HAM3	180	1,110	90	0	180	0	0	30	0	2,490
99	Khlong Chan 4	KGC4	150	780	60	0	90	0	0	0	0	1,620
100	Ramkhamseang 2	RKN2	0	150	0	0	0	0	0	0	0	150
101	Bang Chan 2	BGC2	750	60	60	60	0	0	0	0	0	1,350
102	Lat Krabang 2	LKG2	0	390	30	0	30	0	0	0	0	630
103	Bang Na 4	BNA4	150	750	90	0	150	0	0	30	0	1,620
104	Sarut Prakan 4	SPK4	30	420	30	0	60	0	0	0	0	810
105	Bang Pu 2	BPU2	0	210	0	0	0	0	0	0	0	270
106	Pu Chao Saming Phrai 3	PSP3	150	840	60	0	150	0	0	60	0	1,950
107	Bang Phai 4	BPL4	150	810	90	0	150	0	0	30	0	1,830
108	Bang Phai Bang Bo 2	BPB2	0	240	0	0	0	0	0	0	0	330
109	Thou Buri 2	TNB2	30	0	330	0	0	0	0	0	0	420
110	Lat Ya 2	LY2	0	0	480	0	0	60	0	0	30	630
111	Phasi Charoen 3	PSN3	0	0	210	0	0	30	0	0	0	240
112	Bang Phlat 4	BGT4	150	60	780	0	0	60	0	0	0	1,530
113	Bang Bue Thong 3	BBT3	750	60	60	60	0	0	0	0	0	1,320
114	Charan Sanitwong 3	CSW3	60	30	480	0	0	30	0	0	0	750
115	Bang Khae 3	BKE3	30	0	270	0	0	30	0	0	0	360
116	Nong Khaem 2	NGK2	30	0	660	0	0	150	0	0	0	1,350
117	Muban Senakrit 2	MSK2	60	0	600	0	0	90	0	0	0	1,110
118	Dao Khanong 3	DKN3	30	0	360	0	0	0	0	0	0	510
119	Phra Pradaeng 3	PPG3	60	60	570	0	0	60	0	0	0	1,050
120	Ekkachai 3	EKC3	150	0	1,320	0	0	150	0	0	0	2,430
121	Rat Burana 2	RBN2	60	0	570	0	0	30	0	0	0	900
122	Phahonyothin 4	PYT4	150	0	150	0	180	0	0	30	0	2,970
123	Inthamara 3	ITM3	180	60	30	0	60	0	0	0	0	1,110
124	Bang Khen 3	BGN3	420	30	0	30	0	0	0	0	0	630
125	Lat Phrao 1-3	LTP1-3	450	30	30	30	0	0	0	0	0	720
126	Lat Phrao 2-3	LTP2-3	390	30	30	0	0	0	0	0	0	510
127	Don Muang 3	DNM3	1,140	0	60	150	0	0	30	0	0	2,130
128	Thanyaburi 2	TYB2	360	0	0	30	0	0	0	0	0	570
129	Rangsit 2	RST2	180	0	0	0	0	0	0	0	0	210
130	Nawa Nakhon 2	NWN2	420	0	0	30	0	0	30	0	0	660
131	Bang Su 3	BGS3	780	60	90	240	0	0	0	0	0	1,530
132	Ngam Wong Wan 3	NWW3	570	30	30	60	0	0	0	0	0	900
133	Nonthaburi 3	NTB3	570	30	30	60	0	0	0	0	0	930
134	Lak Si 3	LKS3	900	0	0	120	0	0	60	0	0	1,320
135	Ram Intra 3	RIT3	630	60	30	60	0	0	0	0	0	1,020
136	Pak Kret 2	PKK2	600	0	30	60	0	0	0	0	0	990
137	Pathum Thani 2	PTT2	450	0	30	30	0	0	0	0	0	750
138	Bang Phun 2	BAN2	120	0	0	0	0	0	0	0	0	120
139	Chaeng Watthana 2	CWT2	660	0	30	30	0	0	0	0	0	930
140	Krung Kasem T1	KKT1	630	420	660	60	0	0	60	0	0	9,480
141	Phahonyothin T(XB)	PYTA	90	60	30	0	30	0	0	30	0	1,170
142	Phloen Chit T3	PLT3	900	1,200	780	0	0	90	0	0	30	16,530
143	Thon Buri T(XB)	TNBTA	90	60	120	0	0	30	0	0	30	2,210
144	Surawong T(XB)	SWTA	60	90	90	0	0	30	0	0	30	2,010
145	Krung Kasem TP	KKTP	120	120	120	60	0	0	60	0	0	6,840
146	Phahonyothin TP	PYTP	0	150	60	0	30	0	0	60	0	7,950
147	Phloen Chit TP	PLTP	90	150	150	0	0	60	0	0	60	15,960
148	Lak Si TP	LSTP	0	150	150	120	0	0	120	0	0	19,530
149	Phra Khanong TP	PNTP	210	0	180	0	90	0	0	90	0	15,980
150	Lat Ya TP	LYTP	150	120	0	0	0	120	0	0	90	13,980
151	Lak Si TC	LSTC	150	0	0	0	0	0	0	0	0	4,800
152	Phra Khanong TC	PNTC	0	90	0	0	0	0	0	0	0	3,630
153	Lat Ya TC	LYTC	0	0	120	0	0	0	0	0	0	4,320
154	Lak Si International	LSIT	90	0	0	0	0	0	0	0	0	540
155	Phra Khanong International	PNTI	0	120	0	0	0	0	0	0	0	600
156	Lat Ya International	LYIT	0	0	90	0	0	0	0	0	0	1,740
	Total		19,830	13,930	13,860	2,460	2,310	3,240	570	690	1,920	296,303

13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (1/18)

NO	Switch Unit Name	ABBR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
			PNC3	ASD2	SKW1	SRR4	KKM3	SMS2	PTW2	SRW4	SRW5	CYP1	CYP2	PKG1	PKG2	ONT1	TKC1	TKC2	TMM1	TMM2	STD2
1	Phloen Chit 3	PNC3	0	90	60	90	30	0	60	210	0	0	0	0	120	0	0	0	0	0	0
2	Asoek Din Daeng 2	ASD2	90	0	30	60	30	0	30	60	0	0	0	0	120	0	0	0	0	0	0
3	Sukhumvit 1	SKW1	150	30	0	90	0	0	30	90	0	30	30	0	150	0	0	0	0	0	0
4	Samran Rat 4	SRR4	120	60	30	0	30	60	30	150	0	0	0	0	120	0	0	0	0	0	0
5	Krung Kasom 3	KKM3	60	60	0	60	0	0	0	60	0	0	0	0	60	0	0	0	0	0	0
6	Samsen 2	SMS2	0	0	90	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0
7	Pathum Wan 2	PTW2	30	30	0	30	0	0	0	60	0	0	0	0	60	0	0	0	0	0	0
8	Surawong 4	SRW4	210	60	60	90	30	0	60	0	30	0	0	30	150	0	0	0	0	0	0
9	Surawong 5	SRW5	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0
10	Chaiyaphruk 1	CYP1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Chaiyaphruk 2	CYP2	0	0	0	0	0	0	0	0	0	30	0	0	450	0	0	0	0	0	0
12	Phra Khanong 1	PKG1	0	0	0	0	0	0	0	0	0	0	0	0	270	0	0	0	0	0	0
13	Phra Khanong 2	PKG2	60	90	60	60	30	0	30	60	0	570	510	300	0	510	30	0	30	0	0
14	On Nut 1	ONT1	0	0	0	0	0	0	0	0	0	0	0	0	480	0	0	0	0	0	0
15	Troek Chan 1	TKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0
16	Troek Chan 2	TKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0
17	Thung Mahamek 1	TMM1	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0	0
18	Thung Mahamek 2	TMM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
19	Sathupradit 2	STD2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
20	Thanon Tok 1	TNT1	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
21	Thanon Tok 2	TNT2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
22	Khlong Toei 1	KTI1	30	0	0	0	0	0	0	30	0	0	0	0	60	0	0	0	0	0	0
23	Hua Mak 2	HAM2	30	30	0	30	0	0	0	30	0	0	0	0	60	0	0	0	0	0	0
24	Khlong Chan 2	KGC2	30	0	0	0	0	0	0	30	0	0	0	0	960	0	0	0	0	0	0
25	Khlong Chan 3	KGC3	0	0	0	0	0	0	0	0	0	0	0	0	600	0	0	0	0	0	0
26	Ramkarnbhaeng 1	RKH1	0	0	0	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0
27	Bang Chan 1	BGC1	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0	0	0	0	0
28	Lat Krabang 1	LKG1	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
29	Bang Na 1	BNA1	0	0	0	0	0	0	0	0	0	0	0	0	180	0	0	0	0	0	0
30	Bang Na 2	BNA2	0	0	0	0	0	0	0	0	0	0	0	0	390	0	0	0	0	0	0
31	Bang Na 3	BNA3	0	0	0	0	0	0	0	0	0	0	0	0	360	0	0	0	0	0	0
32	Samut Prakan 2	SPK2	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0	0	0	0	0
33	Samut Prakan 3	SPK3	0	0	0	0	0	0	0	0	0	0	0	0	210	0	0	0	0	0	0
34	Bang Pu 1	BGUI	0	0	0	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0
35	Pu Chao Saming Phrai 2	PSP2	0	0	0	0	0	0	0	30	0	0	0	0	150	0	0	0	0	0	0
36	Bang Phli 1	BPL1	0	0	0	0	0	0	0	0	0	0	0	0	600	0	0	0	0	0	0
37	Bang Phli 2	BPL2	0	0	0	0	0	0	0	0	0	0	0	0	360	0	0	0	0	0	0
38	Bang Phli Bang Bo 1	BBB1	0	0	0	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0
39	Thon Buri 1	TNB1	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0	0	0	0	0
40	Lat Ya T8	LYT8	60	60	30	90	0	0	30	90	0	0	0	0	150	0	0	0	0	0	0
41	Phasi Charoen 1	PSN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	Phasi Charoen 2	PSN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Bang Phlat 2	BGT2	30	30	0	60	30	0	0	30	0	0	0	0	60	0	0	0	0	0	0
44	Bang Phlat 3	BGT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Bang Bua Thong 1	BBT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	Bang Bua Thong 2	BBT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	Charan Sanitwong 1	CSW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	Charan Sanitwong 2	CSW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	Bang Khae 1	BKE1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Bang Khae 2	BKE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	Nong Khaem 1	NGK1	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	Muban Senakrit 1	MSK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Dao khazong 1	DKN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Dao khazong 2	DKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	Phra Pradaeng 2	PPD2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
56	Ekkachai 1	EKC1	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
57	Ekkachai 2	EKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	Rat Burana 1	RBN1	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
59	Phabonyothin T2	PYT2	60	1,410	0	30	30	0	0	60	0	0	0	0	90	0	0	0	0	0	0
60	Inthamara 1	ITM1	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Inthamara 2	ITM2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
62	Bang Khen 1	BGN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	Bang Khen 2	BGN2	0	0	0	0	0	0	0	0	0	0	0	0	90	0	0	0	0	0	0
64	Lat Phrao 1-2	LTP1-2	30	30	0	30	0	0	0	30	0	0	0	0	60	0	0	0	0	0	0
65	Lat Phrao 2-1	LTP2-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	Lat Phrao 2-2	LTP2-2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
67	Dom Muang 2	DMM2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
68	Thanyaburi 1	TYB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	Rangsit 1	RST1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	Nawa Nakhon 1	NWN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	Bang Su 2	BGS2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
72	Ngam Wong Wan 2	NWW2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
73	Northaburi 2	NYB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	Lak Si T4	LKST4	30	60	0	90	60	30	30	60	0	0	0	0	150	0	0	0	0	0	0
75	Lak Si 2	LKS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	Ram Inthra 1	RIT1	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
77	Ram Inthra 2	RIT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Pak Kret 1	PKK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	Pathum Thani 1	PPT1	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
80	Bang Phun 1	BAN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (2/18)

NO	Switch Unit Name	ABBR	PNC3	ASD2	SKW1	SRR4	KKM3	SMS2	PTW2	SRW4	SRW5	CYPI	CYP2	PRG1	PKG2	ONT1	TKC1	TKC2	TMM1	TMM2	STD2	19
81	Chaeng Watthana 1	CWT1	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
82	Phloen Chit 4	PNC4	420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	Asek Din Daeng 3	ASD3	0	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	Sukhumvit 2	SKW2	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	Sarwan Rat 5	SRR5	0	0	0	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	Krung Kasem 4	KKM4	0	0	0	0	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	Samsen 3	SMS3	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	Pathum Wan 3	PTW3	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0
89	Surawong 6	SRW6	0	0	0	0	0	0	0	600	0	0	0	0	0	0	0	0	0	0	0	0
90	Chaipyabruk 3	CYP3	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0
91	Phra Khanong 3	PKG3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
92	On Nut 2	ONT2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
93	Trak Chan 3	TKC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0
94	Thung Maharek 3	TMM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	0	0	0
95	Sathupradit 3	STD3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
96	Thanon Tok 3	INT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
97	Khlong Toei 1	KT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	Hua Mak 3	HAM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	Khlong Chan 4	KKC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	Ramkambaeng 2	RKM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Bang Chan 2	BGC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	Lat Krabang 2	LKG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	Bang Na 4	BNA4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	Samut Prakan 4	SPK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	Bang Pu 2	BGU2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	Pa Chao Samng Phrai 3	PSP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	Bang Phli 4	BPL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	Bang Phli Bang Bo 2	BBB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	Thon Buri 2	TNB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	Lat Ya 2	LTY2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	Phasi Charoen 3	PSN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	Bang Phlat 4	BGT4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	Bang Bao Thang 3	BBT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114	Charan Sanitwong 3	CSW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	Bang Khae 3	BKE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	Nong Khaem 2	NGK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Muban Setaikit 2	MSK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	Dao Khanong 3	DKN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	Phra Pradaeng 3	PPG3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	Ekkachai 3	EKC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121	Rat Burana 2	RBN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	Phahonyothin 4	PYT4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	Inthamara 3	ITM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	Bang Khen 3	BGN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	Lat Phrao 1-3	LTP1-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Lat Phrao 2-3	LTP2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Don Muang 3	DNM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	Thanyaburi 2	TYB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Rangsit 2	RST2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	Newa Nakhon 2	NWN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131	Bang Su 3	BGS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132	Ngam Wong Wan 3	NWW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Nonhaburi 3	NTB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	Lak Si 3	LKS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	Ram Inthra 3	RIT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136	Pak Kret 2	PKK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137	Pathum Thani 2	PTT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	Bang Phun 2	BAN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	Chaeng Watthana 2	CWT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	Krung Kasem T1	KKT1	0	0	0	1,860	1,110	540	840	0	0	0	0	0	60	0	30	270	0	0	0	0
141	Phahonyothin T(XB)	PYTA	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0
142	Phloen Chit T3	PLT3	2,160	30	1,290	30	0	0	0	2,040	210	0	0	0	60	0	60	0	60	300	510	0
143	Thon Buri T(XB)	TNBTA	0	0	0	30	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0
144	Surawong T(XB)	SWTA	0	0	0	0	0	0	0	30	30	0	0	0	60	0	330	0	330	0	0	0
145	Krung Kasem TP	KKTP	0	0	0	0	0	0	0	0	0	0	0	0	270	0	0	0	0	0	0	0
146	Phahonyothin TP	PYTP	0	0	0	0	0	0	0	0	0	0	0	0	510	0	0	0	0	0	0	0
147	Phloen Chit TP	PLTP	0	0	0	0	0	0	0	0	0	0	0	0	1,020	0	0	0	0	0	0	0
148	Lak Si TP	LSTP	0	0	0	0	0	0	0	0	0	0	0	0	930	0	0	0	0	0	0	0
149	Phra Khanong TP	PNTP	0	0	0	0	0	0	0	0	0	0	0	0	1,230	0	0	0	0	0	0	0
150	Lat Ya TP	LYTP	0	0	0	0	0	0	0	0	0	0	30	0	390	0	0	0	0	0	0	0
151	Lak Si TC	LSTC	0	0	0	300	150	30	150	0	0	0	0	0	0	0	0	30	0	0	0	0
152	Phra Khanong TC	PNTC	0	210	0	0	0	0	0	0	0	30	30	60	240	0	0	0	0	0	0	0
153	Lat Ya TC	LYTC	360	0	90	0	0	0	0	270	90	0	0	0	0	0	0	0	0	0	0	0
154	Lak Si International	LSIT	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
155	Phra Khanong International	PNIIT	0	0	0	0	0	0	0	0	0	0	0	0	30	120	0	0	0	0	0	0
156	Lat Ya International	LYIIT	150	0	30	0	0	0	0	180	60	0	0	0	0	0	0	0	0	0	0	0
	Total	Total	4,110	2,580	1,830	3,240	1,680	690	1,350	4,230	420	690	690	420	13,080	690	510	360	450	360	600	

13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (3/18)

NO	Switch Unit Name	ABBR	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
1	Phloen Chit 3	PNC3	0	0	30	60	30	0	0	0	0	0	0	0	0	0	0	30	0	0	0
2	Asok Din Daeng 2	ASD2	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Sukhumvit 1	SKW1	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Samsan Rat 4	SRR4	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Krung Kasem 3	KKM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Sansen 2	SMS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Pathum Wan 2	PTW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Surawong 4	SRW4	0	0	30	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Surawong 5	SRW5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0
10	Chaiyaphruk 1	CYP1	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Chaiyaphruk 2	CYP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Pura Khanong 1	PKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Pura Khanong 2	PKG2	0	0	30	1,110	810	120	180	0	150	420	330	150	210	120	150	720	420	120	150
14	On Nut 1	ONT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Trok Chan 1	TKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	Trok Chan 2	TKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Thung Mahamek 1	TMM1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Thung Mahamek 2	TMM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Sathupradit 2	STD2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Thason Tok 1	TNT1	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Thason Tok 2	TNT2	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Khlong Toei 1	KTI1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Hua Mak 2	HAM2	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Khlong Chan 2	KGC2	0	0	0	30	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Khlong Chan 3	KGC3	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Ramkambang 1	RKH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Bang Chan 1	BGC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Lai Krabang 1	LKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Bang Na 1	BNA1	0	0	0	0	0	0	0	0	0	0	0	30	30	0	0	0	0	0	0
30	Bang Na 2	BNA2	0	0	0	0	0	0	0	0	0	0	30	30	0	0	0	0	0	0	0
31	Bang Na 3	BNA3	0	0	0	0	0	0	0	0	0	0	30	30	0	0	0	0	0	0	0
32	Samut Prakan 2	SPK2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0
33	Samut Prakan 3	SPK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	Bang Pu 1	BGU1	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
35	Pu Chao Saming Phrai 2	PSF2	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Bang Phli 1	BPL1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Bang Phli 2	BPL2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
38	Bang Phli Bang Bo 1	BBB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	Thon Buri 1	TNB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	Lai Ya T8	LYT8	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	Phasi Charoen 1	PSN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	Phasi Charoen 2	PSN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Bang Phlat 2	BGT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Bang Phlat 3	BGT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Bang Bue Thong 1	BBT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	Bang Bue Thong 2	BBT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	Charan Sanitwong 1	CSW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	Charan Sanitwong 2	CSW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	Bang Khac 1	BKE1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Bang Khac 2	BKE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	Nong Khroem 1	NGK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	Muban Setaikit 1	MSK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Dao Khanong 1	DKN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Dao Khanong 2	DKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	Pura Pradaeng 2	PPG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Ekkachai 1	EKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	Ekkachai 2	EKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	Rat Burena 1	RBN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	Phahonyothin T2	PYT2	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	Inthamara 1	ITM1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Inthamara 2	ITM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	Bang Khen 1	BON1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	Bang Khen 2	BON2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	Lai Phuao 1-2	LTP1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	Lai Phuao 2-1	LTP2-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	Lai Phuao 2-2	LTP2-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	Don Muang 2	DNM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Thanyaburi 1	TYB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	Rangsit 1	RST1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	Nawa Nakhon 1	NWN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	Bang Su 2	BGS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	Ngam Wong Wan 2	NWW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	Nonshaburi 2	NTB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	Lak Si T4	LKST4	0	0	0	60	60	0	0	390	0	0	0	0	0	0	0	0	0	0	0
75	Lak Si 2	LKS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	Ram Inthra 1	RII1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	Ram Inthra 2	RII2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Pak Kret 1	PKK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	Pathum Thani 1	PTT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	Bang Phun 1	BANI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (4/18)

NO	Switch Unit Name	ABBR	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
			TNT1	TNT2	KT1	IIAM2	KGC2	KGC3	RKH1	BCCI	LKG1	BNA1	BNA2	BNA3	SPK2	SPK3	BGU1	PSP2	BPL1	BPL2	BBB1	
81	Cheong Watthana 1	CWT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	Phloen Chit 4	PNC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	Asok Din Daeng 3	ASD3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	Sukhumvit 2	SKW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	Samran Rat 5	SRR5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	Krung Kasom 4	KKM4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	Samen 3	SMS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	Pathum Wan 3	PTW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	Surawong 6	SRW6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	Chaiyaphruk 3	CYP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	Phra Khanong 3	PKG3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	On Nut 2	ONT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	Troek Chan 3	TCK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	Thung Maharek 3	TMM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	Sathupradit 3	STD3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	Thanon Tok 3	TNT3	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	Khlong Toei 1	KTI2	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	Hua Mak 3	IIAM3	0	0	0	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	Khlong Chan 4	KGC4	0	0	0	0	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	Ramkhamhaeng 2	RKN2	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Bang Chan 2	BGC2	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0
102	Lai Krabang 2	LKG2	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
103	Bang Na 4	BNA4	0	0	0	0	0	0	0	0	60	60	30	0	0	0	0	0	0	0	0	0
104	Samut Prakan 4	SPK4	0	0	0	0	0	0	0	0	0	0	0	0	60	30	0	0	0	0	0	0
105	Bang Pu 2	BGU2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
106	Pu Chao Saming Phrai 3	FSP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0
107	Bang Phli 4	BPL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	30	0	0
108	Bang Phli Bang Bo 2	BBB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
109	Thon Buri 2	TNB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	Lai Ya 2	LTY2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	Phasi Charoen 3	PSN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	Bang Phlat 4	BGT4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	Bang Bue Thong 3	BBT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114	Charan Sanitwong 3	CSW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	Bang Khao 3	BKE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	Nong Khaem 2	NGK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Muban Sattakit 2	MSK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	Dao Khanong 3	DKN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	Phra Pradaeng 3	PPG3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	Ekkachai 3	EKC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121	Rat Burana 2	RBN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	Phahonyothin 4	PYT4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	Inthamara 3	INT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	Bang Khae 3	BGN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	Lai Phrao 1-3	LTP1-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Lai Phrao 2-3	LTP2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Don Muang 3	DNM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	Thanyaburi 2	TYB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Rangsit 2	RST2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	Nawa Nakhon 2	NWN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131	Bang Su 3	BGS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132	Ngam Wong Wan 3	NWW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Norshaburi 3	NTB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	Lak Si 3	LKS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	Ram Inthra 3	RIT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136	Pak Kret 2	PKK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137	Pathum Thani 2	PTT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	Bang Phun 2	BAN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	Chaeng Watthana 2	CWT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	Krung Kasem TI	KKTI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
141	Phahonyothin T(XB)	PYTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142	Phloen Chit T3	PLT3	30	390	510	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	Thon Buri T(XB)	TNBTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
144	Surawong T(XB)	SWTA	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	Krung Kasem TP	KKTP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146	Phahonyothin TP	PYTP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147	Phloen Chit TP	PLTP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
148	Lak Si TP	LSTP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
149	Phra Khanong TP	PNTP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	Lai Ya TP	LYTP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
151	Lak Si TC	LSTC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	Phra Khanong TC	PNTC	0	0	0	90	30	0	0	0	0	30	30	0	30	0	0	60	30	0	0	0
153	Lai Ya TC	LYTC	0	30	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
154	Lak Si International	LSTI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	Phra Khanong International	PNIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	Lai Ya International	LYIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	Total	270	480	720	1,770	1,080	180	210	510	180	570	480	240	360	180	180	960	570	180	180	



13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (5/18)

NO	Switch Unit Name	ABBR	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
			TNR1	LTYT8	PSN1	PSN2	BGT2	BGT3	BBT1	BBT2	CSW1	CSW2	BKE1	BKE2	NGK1	MSK1	DKN1	DKN2	PPG2	EKC1	FKC2
1	Phloen Chai 3	PNC3	0	150	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Asok Din Daeng 2	ASD2	0	90	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Sukhumvit 1	SKW1	0	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Samsen Rat 4	SRR4	30	150	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Krung Kasem 3	KKM3	0	60	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	30	0
6	Samsen 2	SMS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Pathum Wan 2	PTW2	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Surawong 4	SRW4	0	150	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Surawong 5	SRW5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Chaiyaphruk 1	CYP1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Chaiyaphruk 2	CYP2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Phra Khanong 1	PKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Phra Khanong 2	PKG2	0	150	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	On Nut 1	ONT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Trok Chan 1	TKC1	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	Trok Chan 2	TKC2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Thung Mahamek 1	TMM1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Thung Mahamek 2	TMM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Sathupradit 2	STD2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Thanon Tok 1	TNT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Thanon Tok 2	TNT2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Khlong Yaei 1	KTI1	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Hua Mak 2	HAM2	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Khlong Chan 2	KGC2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Khlong Chan 3	KGC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Ramkamhaeng 1	RKH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Bang Chan 1	BGC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Lat Krabang 1	LKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Bang Na 1	BNA1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Bang Na 2	BNA2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	Bang Na 3	BNA3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Samut Prakan 2	SPK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Samut Prakan 3	SPK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	Bang Pu 1	BGU1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	Pu Chao Sarsing Phrai 2	PSP2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Bang Phli 1	BPL1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Bang Phli 2	BPL2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	Bang Phli Bang Bo 1	BBB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	Thon Buri 1	TNB1	0	450	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	Lat Ya TB	LTYT8	660	0	30	240	1,050	60	0	0	0	480	30	240	510	390	60	210	480	630	120
41	Phasi Charoen 1	PSN1	0	30	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	Phasi Charoen 2	PSN2	0	240	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Bang Phlat 2	BGT2	0	1,050	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Bang Phlat 3	BGT3	0	60	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Bang Buc Thong 1	BBT1	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0
46	Bang Buc Thong 2	BBT2	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
47	Charan Sanitwong 1	CSW1	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0
48	Charan Sanitwong 2	CSW2	0	360	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0
49	Bang Khao 1	BKE1	0	30	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
50	Bang Khao 2	BKE2	0	210	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0
51	Nong Khaem 1	NGK1	0	330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	Muban Sattakit 1	MSK1	0	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Dao Khanong 1	DKN1	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0
54	Dao Khanong 2	DKN2	0	180	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0
55	Phua Pradseng 2	PPG2	0	390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Ekkaschal 1	EKC1	0	570	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
57	Ekkaschal 2	EKC2	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	Rai Burana 1	RBN1	0	450	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	Phahonyothin T2	PYT2	0	90	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	Inthamara 1	ITM1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Inthamara 2	ITM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	Bang Khen 1	BGN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	Bang Khen 2	BGN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	Lat Phrao 1-2	LTP1-2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	Lat Phrao 2-1	LTP2-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	Lat Phrao 2-2	LTP2-2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	Don Muang 2	DNM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Thanyaburi 1	TYB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	Rangsit 1	RST1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	Nawa Nakhon 1	NWN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	Bang Su 2	BGS2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	Ngarn Wong Wan 2	NWW2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	Nonaburi 2	NTB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	Lak Si T4	LKST4	0	180	0	0	60	0	150	60	0	0	0	0	0	0	0	0	0	0	0
75	Lak Si 2	LKS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	Ram Inthra 1	RTI1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	Ram Inthra 2	RTI2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Pak Kret 1	PKK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	Pathum Thani 1	PTT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	Bang Phun 1	BANI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (6/18)

NO	Switch Unit Name	ABBR	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	
			TNBI	LYT8	PSN1	PSN2	BGT2	BGT3	BHT1	RHT2	CSW1	CSW2	BKE1	BKE2	NGK1	MSK1	DKN1	DKN2	PPG2	EKC1	EKC2	
81	Cheong Watthana 1	CWT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	Phloen Chit 4	PN04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	Asok Din Daeng 3	ASD3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	Sukhumwit 2	SKW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	Samran Rat 5	SRR5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	Krung Kasem 4	KKM4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	Samsen 3	SMS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	Pathom Wan 3	PTW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	Surawong 6	SRW6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	Chaiyaphruk 3	CYP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	Phra Khanong 3	PKG3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	On Nut 2	ONT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	Troek Chan 3	TKC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	Thung Mahamek 3	TMM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	Sathupradit 3	STD3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	Thanou Tok 3	TNT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	Khlong Toei 1	KT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	Hua Mak 3	HAM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	Khlong Chan 4	KGC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	Ramkambhaeng 2	RKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Bang Chan 2	BGC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	Lat Krabang 2	LKG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	Bang Na 4	BNA4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	Samut Prakan 4	SPK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	Bang Pu 2	BGU2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	Pu Chao Saming Phrai 3	PSP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	Bang Phli 4	BPL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	Bang Phli Bang Bo 2	BBB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	Thon Buri 2	TNB2	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	Lat Ya 2	LY2	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	Phasi Charoen 3	PSN3	0	0	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	Bang Phlat 4	BGT4	0	0	0	0	120	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	Bang Bue Thong 3	BBT3	0	0	0	0	0	0	30	30	0	0	0	0	0	0	0	0	0	0	0	0
114	Charan Sanitwong 3	CSW3	0	0	0	0	0	0	0	0	30	60	0	0	0	0	0	0	0	0	0	0
115	Bang Khae 3	BKE3	0	0	0	0	0	0	0	0	0	0	30	30	0	0	0	0	0	0	0	0
116	Nong Khaem 2	NGK2	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0
117	Muban Senakit 2	MSK2	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0
118	Dao Khanong 3	DKN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	0	0	0	0
119	Phra Pradaeng 3	PPG3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	Ekkachai 3	EKC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	240	60	0
121	Rat Burana 2	RBN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	Phahonyothin 4	PYT4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	Imbarnara 3	IMB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	Bang Khen 3	BGN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	Lat Phrao 1-3	LTP1-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Lat Phrao 2-3	LTP2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Don Muang 3	DNM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	Thanyaburi 2	TYB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Rangsit 2	RST2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	Nwa Nakhon 2	NWN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131	Bang Su 3	BGS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132	Ngam Wong Wan 3	NWW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Nonthaburi 3	NTB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	Lak Si 3	LKS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	Ram Inbra 3	RIT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136	Pak Kret 2	PKK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137	Pathum Thani 2	PTT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	Bang Phum 2	BAN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	Cheong Watthana 2	CWT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	Krung Kasem T1	KKT1	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
141	Phahonyothin T(XB)	PYTA	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142	Phloen Chit T3	PLT3	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	Thon Buri T(XB)	TNBT	30	60	198	0	0	0	0	0	270	0	202	0	0	0	300	0	0	0	0	0
144	Surawong T(XB)	SWTA	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	Krung Kasem TP	KKTP	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146	Phahonyothin TP	PYTP	0	330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147	Phloen Chit TP	PLTP	0	730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
148	Lak Si TP	LSTP	0	660	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
149	Phra Khanong TP	PNTP	0	480	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	Lat Ya TP	LYTP	0	1,140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
151	Lak Si TC	LSTC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	Phra Khanong TC	PNTC	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
153	Lat Ya TC	LYTC	30	180	0	30	150	0	0	0	0	30	0	0	0	0	0	0	0	30	30	0
154	Lak Si International	LSIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	Phra Khanong International	PNIT	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	Lat Ya International	LYIT	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	Total	780	10,770	288	330	1,710	120	210	120	330	600	292	300	570	450	450	270	510	960	210	0

13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (7/18)

NO	Switch Unit Name	ABBR	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76
			RBN1	PYT2	ITM1	ITM2	BGN1	BGN2	LTP1-2	LTP2-1	LTP2-2	DNM2	TYB1	RST1	NWN1	BGS2	NWW2	NTB2	LKST4	LKS2	RFT1
1	Phloen Chit 3	PNC3	0	90	0	0	0	0	30	0	0	0	0	0	0	0	0	0	180	0	0
2	Asok Din Daeng 2	ASD2	0	1,140	0	30	0	0	30	0	0	0	0	0	0	0	0	0	150	0	0
3	Sukhumvit 1	SKW1	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0
4	Samran Rat 4	SRR4	0	60	0	0	0	0	30	0	0	0	0	0	0	0	0	0	150	0	0
5	Krung Kasem 3	KKM3	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0
6	Sensen 2	SMS2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0
7	Pathum Wan 2	PTW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
8	Surawong 4	SRW4	0	60	0	0	0	0	30	0	0	0	0	0	0	0	0	0	30	0	0
9	Surawong 5	SRW5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0
10	Chaiyaphruk 1	CYP1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Chaiyaphruk 2	CYP2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
12	Phra Khanong 1	PKO1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
13	Phra Khanong 2	PKO2	0	90	30	30	0	0	30	0	30	0	0	0	0	0	0	0	0	0	0
14	On Nut 1	ONT1	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	150	0	0
15	Trok Chan 1	TKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
16	Trok Chan 2	TKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Thung Maharek 1	TMM1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Thung Maharek 2	TMM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Satrupradit 2	STD2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Thanon Tok 1	TNT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Thanon Tok 2	TNT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Khlong Yoei 1	KYI1	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Hua Mak 2	HAM2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
24	Khlong Chan 2	KGC2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	0	0
25	Khlong Chan 3	KGC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	0	0
26	Ramkambheng 1	RKH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Bang Chan 1	BGC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	330	0	0
28	Lat Krabang 1	LKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Bang Na 1	BNA1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Bang Na 2	BNA2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	Bang Na 3	BNA3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Sannat Prakan 2	SPK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Sannat Prakan 3	SPK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	Bang Pu 1	BGU1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	Pu Chao Saming Phrai 2	PSP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
36	Bang Phli 1	BPL1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Bang Phli 2	BPL2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	Bang Phli Bang Bo 1	BBB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	Thon Buri 1	TNB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	Lat Ya T8	LTYT8	570	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0
41	Phasi Charoen 1	PSN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	Phasi Charoen 2	PSN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Bang Phlat 2	BGT2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0
44	Bang Phlat 3	BGT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Bang Bue Thong 1	BBT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180	0	0
46	Bang Bue Thong 2	BBT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0
47	Charan Sanitwong 1	CSW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	Charan Sanitwong 2	CSW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
49	Bang Khac 1	BKE1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Bang Khac 2	BKE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	Nong Khaem 1	NGK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	Muban Sotakit 1	MSK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Dao Khanong 1	DKN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Dao Khanong 2	DKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	Phra Pradaeng 2	PPG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Ekkachai 1	EKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
57	Ekkachai 2	EKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	Rat Burana 1	RBN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
59	Phahonyothin T2	PYT2	0	0	30	510	0	0	30	0	0	0	0	0	0	0	0	0	150	0	0
60	Inhamara 1	ITM1	0	30	0	30	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
61	Inhamara 2	ITM2	0	390	30	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0
62	Bang Khen 1	BGN1	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	360	0	0
63	Bang Khen 2	BGN2	0	30	0	30	0	0	0	0	0	0	0	0	0	0	0	0	390	0	0
64	Lat Phrao 1-2	LTP1-2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720	0	0
65	Lat Phrao 2-1	LTP2-1	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0
66	Lat Phrao 2-2	LTP2-2	0	30	0	0	0	0	30	0	0	0	0	0	0	0	0	0	480	0	0
67	Don Muang 2	DNM2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	540	0	0
68	Thanyaburi 1	TYB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	0	0
69	Rangsit 1	RST1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180	0	0
70	Nawa Nakhon 1	NWN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	240	0	0
71	Bang Su 2	BGS2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	450	0	0
72	Ngam Wong Wan 2	NWW2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	600	0	0
73	Nonthaburi 2	NTB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	330	0	0
74	Lak Si T4	LKST4	0	120	30	30	360	510	960	0	540	600	90	150	240	570	720	330	0	60	300
75	Lak Si 2	LKS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0
76	Ram Indira 1	RIT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	0	0
77	Ram Indira 2	RIT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	30
78	Pak Kret 1	PKK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	390	0	0
79	Pathum Thani 1	PTT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210	0	0
80	Bang Phun 1	BAN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	0	0

13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (8/18)

NO	Switch Unit Name	ABBR	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76
			RBN1	PYT2	ITM1	ITM2	BGN1	BGN2	LTP1-2	LTP2-2	DNM2	TYR1	RST1	NWN1	BGS2	NWN2	NTB2	LKST4	LKS2	RIT1	
81	Cheong Watthana 1	CWT1	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	390	0	0
82	Phloen Chit 4	PNC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	Asok Din Daeng 3	ASD3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	Sukhumvit 2	SKW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	Sunran Rat 5	SRR5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	Krung Kasem 4	KKM4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	Samsen 3	SM53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	Pathum Wan 3	PTW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	Surawong 6	SRW6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	Chaiyaphruk 3	CYP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	Phra Khanong 3	PKG3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	On Nut 2	ONT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	Trok Chan 3	TCK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	Thang Mahamek 3	TMM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	Sathupadit 3	STD3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	Thanon Tok 3	TNT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	Khlong Toei 1	KTI2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
98	Hua Mak 3	HAM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	Khlong Chan 4	KGC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	Ramkamsang 2	RKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Bang Chan 2	BGC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	Lai Krabang 2	LKG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	Bang Na 4	BNA4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	Saenat Prakan 4	SPK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	Bang Pu 2	BGU2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	Pu Chao Saning Phrai 3	PSP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107	Bang Phli 4	BPL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	Bang Phli Bang Bo 2	BBB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	Thon Buri 2	TNB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	Lai Ya 2	LY2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	Phra Charoen 3	PSN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	Bang Phlat 4	BGT4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113	Bang Bue Theong 3	BBT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114	Charan Sanitwong 3	CSW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	Bang Khac 3	BKE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	Nong Khaem 2	NGK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Muban Senakit 2	MSK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	Dao Khanong 3	DKN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	Phra Pradang 3	PPG3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	Ekkachai 3	EKC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121	Rat Burana 2	RBN2	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	Phahonyothin 4	PYT4	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	Indumara 3	ITM3	0	0	30	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	Bang Khen 3	BGN3	0	0	0	0	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0
125	Lai Phrao 1-3	LTP1-3	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Lai Phrao 2-3	LTP2-3	0	0	0	0	0	0	30	30	0	0	0	0	0	0	0	0	0	0	0
127	Don Muang 3	DNM3	0	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0	0	0	0
128	Thanyaburi 2	TYB2	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0
129	Rangsit 2	RST2	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0
130	Nawa Nakhon 2	NWN2	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
131	Bang Su 3	BGS3	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0
132	Ngam Wong Wan 3	NWW3	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0
133	Nonthaburi 3	NTB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	0	0	0	0
134	Lak Si 3	LKS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	30	0	0
135	Ram Inthra 3	RIT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0
136	Pak Kret 2	PKK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137	Pathum Thani 2	PTT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	Bang Phun 2	BAN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	Cheong Watthana 2	CWT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	Krung Kasem T1	KKT1	0	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0
141	Phahonyothin T(XB)	PYTA	0	30	240	0	0	0	0	180	0	0	0	0	0	0	0	0	30	0	0
142	Phloen Chit T3	PLT3	0	90	30	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0
143	Thon Buri T(XB)	TNBTA	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0
144	Surawong T(XB)	SWTA	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0
145	Krung Kasem TP	KKTP	0	240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	330	0	0
146	Phahonyothin TP	PYTP	0	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	630	0	0
147	Phloen Chit TP	PLTP	0	630	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720	0	0
148	Lak Si TP	LSTP	0	600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,620	0	0
149	Phra Khanong TP	PNTP	0	390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	630	0	0
150	Lai Ya TP	LYTP	0	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	420	0	0
151	Lak Si TC	LSTC	0	0	0	0	30	30	60	0	150	180	0	30	0	0	60	30	270	30	0
152	Phra Khanong TC	PNTC	30	150	30	60	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0
153	Lai Ya TC	LYTC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
154	Lak Si International	LSIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	30	0
155	Phra Khanong International	PNIT	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
156	Lai Ya International	LYIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	Total	690	5,610	450	750	450	600	1,260	240	780	930	120	210	270	630	840	450	13,710	150	390

13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (9/18)

NO	Switch Unit Name	ABBR	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
			RFT2	PKK1	PTT1	BANI	CWF1	PNC4	ASD3	SKW2	SRR5	KKM4	SMS3	PTW3	SRW6	CYP3	PKG3	ONT2	FKC3	TMM3	STD3
1	Phoen Chit 3	PNC3	0	0	0	0	0	390	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Asok Din Daeng 2	ASD2	0	0	0	0	0	0	270	0	0	0	0	0	0	0	0	0	0	0	0
3	Sukhumvit 1	SKW1	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0
4	Samran Rat 4	SRR4	0	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0	0	0	0
5	Krung Kasom 3	KKM3	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0
6	Samen 2	SMS2	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0
7	Pathum Wan 2	PTW2	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0
8	Surawong 4	SRW4	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
9	Surawong 5	SRW5	0	0	0	0	0	0	0	0	0	0	0	0	0	570	0	0	0	0	0
10	Chaiyaphruk 1	CYP1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Chaiyaphruk 2	CYP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0
12	Phra Khanong 1	PKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0
13	Phra Khanong 2	PKG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0
14	On Nut 1	ONT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	0	0	0
15	Troak Chan 1	FKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
16	Troak Chan 2	FKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
17	Thung Mahamek 1	TMM1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
18	Thung Mahamek 2	TMM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
19	Sathupradit 2	STD2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
20	Thanon Tok 1	TNT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
21	Thanon Tok 2	TNT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Khlong Toei 1	KTI1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Hua Mek 2	HAM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Khlong Chan 2	KGC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Khlong Chan 3	KGC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Ramkambong 1	RKH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Bang Chan 1	BGC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Lat Krabang 1	LKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Bang Na 1	BNA1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Bang Na 2	BNA2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	Bang Na 3	BNA3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Samut Prakan 2	SPK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Samut Prakan 3	SPK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	Bang Pu 1	BGU1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	Pu Chao Saming Phrai 2	PSP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Bang Phli 1	BPL1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Bang Phli 2	BPL2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	Bang Phli Bang Bo 1	BBB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	Thon Buri 1	TNB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	Lat Ya TB	LTYTB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	Phasi Charoen 1	PSN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	Phasi Charoen 2	PSN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Bang Phlat 2	BGT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Bang Phlat 3	BGT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Bang Bue Thong 1	BBT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	Bang Bue Thong 2	BBT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	Charan Sanitwong 1	CSW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	Charan Sanitwong 2	CSW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	Bang Khae 1	BKE1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Bang Khae 2	BKE2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	Nong Khaem 1	NGK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	Muban Sattakit 1	MSK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Dao Khanong 1	DRN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Dao Khanong 2	DRN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	Phra Pradaeng 2	PPG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Ekkachai 1	EKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	Ekkachai 2	EKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	Rat Burana 1	RBN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	Phahonyothin T2	PYT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	Inthamara 1	ITM1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Inthamara 2	ITM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	Bang Khen 1	BGN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	Bang Khen 2	BGN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	Lat Phrao 1-2	LTP1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	Lat Phrao 2-1	LTP2-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	Lat Phrao 2-2	LTP2-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	Don Muang 2	DNM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Thanyaburi 1	TYB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	Rangsit 1	RST1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	Nawa Nakhon 1	NWN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	Bang Su 2	BGS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	Ngam Wong Wan 2	NWW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	Nomhaburi 2	NHB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	Lak Si T4	LKST4	60	420	240	120	450	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	Lak Si 2	LKS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	Ram Intra 1	RTI1	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	Ram Intra 2	RTI2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Pak Kret 1	PKK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	Pathum Thani 1	PTT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	Bang Phun 1	BAN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (10/18)

NO	Switch Unit Name	ABBR	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	
			RIT2	PKK1	PTT1	BANI	CWT1	PNC4	ASD3	SKW2	SRR5	KKM4	SMS3	PTW3	SRW6	CYP3	PKO3	ONT2	TKC3	TMM3	STD3	
81	Cheung Waithara 1	CWT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	Phloen Chai 4	PNC4	0	0	0	0	0	0	210	60	60	30	30	30	340	0	0	0	0	30	30	0
83	Arook Din Daeng 3	ASD3	0	0	0	0	0	210	0	30	60	30	60	30	240	0	0	0	0	0	0	0
84	Sukhumwit 2	SKW2	0	0	0	0	0	90	60	0	0	0	0	0	90	0	0	0	0	0	0	0
85	Samran Rat 5	SRR5	0	0	0	0	0	90	90	0	0	0	30	0	180	0	0	0	0	0	0	0
86	Krung Kasem 4	KKM4	0	0	0	0	0	60	90	0	60	0	30	0	90	0	0	0	0	0	0	0
87	Samsen 3	SMS3	0	0	0	0	0	0	30	270	0	0	0	0	0	0	0	0	0	0	0	0
88	Pathum Wan 3	PTW3	0	0	0	0	0	30	30	0	0	0	0	0	90	0	0	0	0	0	0	0
89	Surawong 6	SRW6	0	0	0	0	0	420	240	60	150	30	30	150	0	0	0	0	0	30	30	0
90	Chaiyaphruk 3	CYP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	Phra Khanong 3	PKO3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
92	On Nut 2	ONT2	0	0	0	0	0	30	0	0	0	0	0	0	30	0	0	0	0	0	0	0
93	Troek Chan 3	TKC3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
94	Thong Mahamek 3	TMM3	0	0	0	0	0	30	30	0	0	0	0	0	60	0	0	0	0	0	0	0
95	Saihapradit 3	STD3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
96	Thanon Tok 3	TNT3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
97	Khlong Toei 1	KT1	0	0	0	0	0	90	60	0	0	0	0	0	150	0	0	0	0	0	0	0
98	Hua Mak 3	HAM3	0	0	0	0	0	90	90	0	30	0	0	0	120	0	0	0	0	90	0	0
99	Khlong Chan 4	KGC4	0	0	0	0	0	30	60	0	0	0	0	0	60	0	0	0	0	60	0	0
100	Ramkambheng 2	RKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Bang Chan 2	BGC2	0	0	0	0	0	30	60	0	0	0	0	0	60	0	0	0	0	0	0	0
102	Lat Krabang 2	LKG2	0	0	0	0	0	30	0	0	0	0	0	0	30	0	0	0	60	0	0	0
103	Bang Na 4	BNA4	0	0	0	0	0	30	30	0	0	0	0	0	90	0	0	0	0	60	0	0
104	Sannat Prakan 4	SPK4	0	0	0	0	0	30	0	0	0	0	0	0	30	0	0	0	0	30	0	0
105	Bang Pu 2	BGU2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	Pu Chao Saming Phrai 3	PSI3	0	0	0	0	0	60	60	0	0	0	0	0	150	0	0	0	0	60	0	0
107	Bang Phli 4	BPL4	0	0	0	0	0	30	30	0	0	0	0	0	60	0	0	0	0	60	0	0
108	Bang Phli Bang Bo 2	BBB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	Thon Buri 2	TNB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	Lat Ya 2	LYT2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
111	Phasi Charoen 3	PSN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	Bang Phlat 4	BGT4	0	0	0	0	0	30	60	0	30	0	0	0	60	0	0	0	0	0	0	0
113	Bang Bus Thong 3	BBT3	0	0	0	0	0	30	30	0	30	0	0	0	60	0	0	0	0	0	0	0
114	Charan Sanitwong 3	CSW3	0	0	0	0	0	0	30	0	0	0	0	0	30	0	0	0	0	0	0	0
115	Bang Khac 3	BKE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	Nong Khaem 2	NGK2	0	0	0	0	0	0	0	0	0	270	0	0	30	0	0	0	0	0	0	0
117	Muban Senukit 2	MSK2	0	0	0	0	0	0	0	0	30	0	0	0	60	0	0	0	0	0	0	0
118	Dao Khanong 3	DKN3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
119	Phra Pradang 3	PPG3	0	0	0	0	0	30	30	0	0	0	0	0	60	0	0	0	0	0	0	0
120	Ekkachai 3	EKC3	0	0	0	0	0	60	60	0	60	0	0	0	120	0	0	0	0	0	0	0
121	Rat Burana 2	RBN2	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0
122	Phahonyothin 4	PYT4	0	0	0	0	0	150	150	0	30	30	30	0	180	0	0	0	0	90	0	0
123	Inthamara 3	ITM3	0	0	0	0	0	30	60	0	0	0	0	0	0	0	0	0	0	30	0	0
124	Bang Khan 3	BGN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	0	0	0	0
125	Lat Phrao 1-3	LTP1-3	0	0	0	0	0	30	30	0	0	0	0	0	30	0	0	0	0	0	0	0
126	Lat Phrao 2-3	LTP2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Don Muang 3	DNM3	0	0	0	0	0	60	90	0	0	0	0	0	90	0	0	0	0	0	0	0
128	Thanyaburi 2	TYB2	0	0	0	0	0	0	0	0	0	90	0	0	0	0	0	0	0	0	0	0
129	Rangsit 2	RST2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	Nawa Nakhon 2	NWN2	0	0	0	0	0	30	0	0	0	0	0	0	30	0	0	0	0	0	0	0
131	Bang Su 3	BGS3	0	0	0	0	0	30	60	0	0	0	0	0	60	0	0	0	0	0	0	0
132	Ngam Wong Wan 3	NWW3	0	0	0	0	0	30	30	0	0	0	0	0	30	0	0	0	0	0	0	0
133	Nonthaburi 3	NTB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	Lak Si 3	LKS3	0	0	0	0	0	30	30	0	0	0	0	0	60	0	0	0	0	0	0	0
135	Ram Inthra 3	RIT3	30	0	0	0	0	30	30	0	0	0	0	0	30	0	0	0	0	0	0	0
136	Pak Kret 2	PKK2	0	90	0	0	0	0	30	0	0	0	30	0	30	0	0	0	0	0	0	0
137	Pathum Thani 2	PTI2	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0
138	Bang Phun 2	BAN2	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	Cheung Waithara 2	CWT2	0	0	0	0	60	30	30	0	0	0	0	0	30	0	0	0	0	0	0	0
140	Krung Kasem T1	KKT1	0	0	0	0	0	0	0	0	0	90	0	0	0	0	0	0	0	0	0	0
141	Phahonyothin T(XB)	PYTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142	Phloen Chai T3	PLT3	0	0	0	0	0	450	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	Thon Buri T(XB)	TNBTA	0	0	0	0	0	0	30	0	0	0	0	0	30	0	0	0	0	0	0	0
144	Surawong T(XB)	SWTA	0	0	0	0	0	30	30	0	0	0	0	0	90	0	0	0	0	0	0	0
145	Krung Kasem TP	KKTP	0	0	0	0	0	0	0	0	900	690	750	540	0	0	0	0	180	0	0	0
146	Phahonyothin TP	PYTP	0	0	0	0	0	0	1,710	0	0	0	0	0	0	0	0	0	0	0	0	0
147	Phloen Chai TP	PLTP	0	0	0	0	0	1,380	0	570	30	30	0	0	2,460	0	0	0	0	660	210	0
148	Lak Si TP	LSITP	0	0	0	0	0	30	60	30	60	30	60	30	30	0	0	0	0	0	0	0
149	Phra Khanong TP	PNTP	0	0	0	0	0	30	60	30	30	30	30	30	0	270	330	420	0	60	0	0
150	Lat Ya TP	LYTP	0	0	0	0	0	30	60	30	60	30	30	30	0	0	0	0	0	0	0	30
151	Lak Si TC	LSTC	0	30	0	0	30	0	0	0	300	180	150	150	0	0	0	0	30	0	0	0
152	Phra Khanong TC	PNTC	0	0	0	0	0	0	420	0	0	0	0	0	30	90	90	0	0	0	0	0
153	Lat Ya TC	LYTC	0	0	0	0	0	600	0	60	0	0	0	0	870	0	0	0	0	30	30	0
154	Lak Si International	LSIT	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0
155	Phra Khanong International	PNIT	0	0	0	0	0	0	30	0	0	0	0	0	0	0	30	0	0	0	0	0
156	Lat Ya International	LYIT	0	0	0	0	0	270	0	30	0	0	0	0	660	0	0	0	0	0	0	0
Total	Total	Total	120	540	270	150	540	5,190	4,590	1,230	2,130	1,620	1,320	1,020	8,010	360	570	750	270	1,350	360	0





13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (12/18)

NO	Switch Unit Name	ABBR	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114
			TNT3	KT2	HAM3	KGC4	RKN2	BGC2	LKG2	BNA4	SPK4	BGU2	PSP3	BPL4	BBB2	TNB2	LTY2	PSN3	BGT4	BBT3	CSW3
81	Chaeng Watthana 1	CWT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	Phloen Chit 4	PNC4	0	60	240	60	0	30	30	60	0	0	90	60	0	0	30	0	60	60	0
83	Asok Din Daeng 3	ASD3	0	30	90	60	0	30	0	30	0	0	30	30	0	0	0	0	60	30	30
84	Sukhumvit 2	SKW2	0	30	30	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
85	Suvann Rat 5	SRM5	30	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	30	0	0
86	Krung Kasem 4	KKM4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	0
87	Samsen 3	SMS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	Pathum Wan 3	PTW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	Surawong 6	SRW6	30	120	450	60	0	60	0	60	60	0	90	60	0	30	30	0	60	30	30
90	Chaiyaphruk 3	CYP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	Phra Khanong 3	PKG3	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	Oni Nut 2	ONT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	Fruk Chan 3	TKC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	Thung Mahamek 3	TMM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	Sathapradit 3	STD3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	Thanon Tok 3	TNT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	Khlong Toei 1	KT1	0	0	30	0	0	0	0	30	30	0	30	30	0	0	0	0	0	0	0
98	Hua Mak 2	HAM2	0	60	0	60	0	30	0	30	0	0	0	60	0	0	0	0	0	0	0
99	Khlong Chan 4	KGC4	0	0	30	0	0	60	0	0	0	0	0	30	0	0	0	0	0	0	0
100	Ramkambhaeng 2	RKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Bang Chan 2	BGC2	0	0	30	60	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
102	Lai Krabang 2	LKG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	Bang Na 4	BNA4	0	30	0	0	0	0	0	0	0	0	60	60	0	0	0	0	0	0	0
104	Samat Prakan 4	SPK4	0	0	0	0	0	0	0	0	0	30	60	30	0	0	0	0	0	0	0
105	Bang Pu 2	BGU2	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0
106	Pu Chao Saming Phrai 3	PSP3	0	60	0	0	0	0	30	30	0	0	90	0	0	0	0	0	0	0	0
107	Bang Phli 4	BPL4	0	30	30	30	0	30	0	60	30	0	60	0	60	0	0	0	0	0	0
108	Bang Phli Bang Bo 2	BBB2	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0
109	Thon Buri 2	TNB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	Lat Ya 2	LTY2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	Phasi Charoen 3	PSN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	Bang Phlat 4	BGT4	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	90	0
113	Bang Bue Thong 3	BBT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	0	0
114	Charan Sanitwong 3	CSW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	Bang Khae 3	BKE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	Nong Khaem 2	NGR2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Muban Setaikit 2	MSK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	Dao Khanong 3	DXN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	Phra Pradsang 3	PPG3	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0
120	Bkkachai 3	BKC3	0	0	30	0	0	0	0	0	0	0	30	0	0	30	30	0	0	0	0
121	Rat Burana 2	RBN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	Phabonyothin 4	PYT4	0	60	30	30	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0
123	Inthamara 3	ITM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124	Bang Khon 3	BGN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	Lai Phrao 1-3	LTP1-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Lai Phrao 2-3	LTP2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Don Muang 3	DNM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	Thunyaburi 2	TYB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Rangsit 2	RST2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	Nawa Nakhon 2	NWN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131	Bang Su 3	BGS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132	Ngan Wong Wan 3	NWW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Nonthaburi 3	NTB3	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134	Lak Si 3	LKS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	Ram Inthra 3	RTI3	0	0	0	30	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0
136	Pak Kret 2	PKK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137	Pathum Thani 2	PTT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	Bang Phun 2	BAN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	Chaeng Watthana 2	CWT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	Krung Kasem T1	KKT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
141	Phabonyothin T(XB)	PYTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142	Phloen Chit T3	PLT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	Thon Buri T(XB)	TNBTA	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0
144	Surawong T(XB)	SWTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	Krung Kasem TP	KKTP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
146	Phabonyothin TP	PYTP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147	Phloen Chit TP	PLTP	330	840	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
148	Lak Si TP	LSTP	30	60	90	90	0	810	30	60	30	0	90	60	0	0	0	0	60	810	30
149	Phra Khanong TP	PNTP	0	30	1,110	870	150	30	420	810	480	210	870	900	240	0	0	0	0	0	0
150	Lat Ya TP	LYTP	0	30	60	60	0	0	60	30	0	60	60	0	450	360	210	780	0	570	0
151	Lak Si TC	LSTC	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	150	0
152	Phra Khanong TC	PNTC	0	0	210	120	0	0	60	150	90	30	240	240	30	0	0	0	0	0	0
153	Lat Ya TC	LYTC	30	150	0	0	0	0	0	0	0	0	0	0	0	30	60	30	180	0	60
154	Lak Si International	LSTI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	Phra Khanong International	PNTI	0	0	30	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0
156	Lat Ya International	LYTI	0	30	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0
	Total	Total	510	1,710	2,610	1,680	180	1,320	570	1,560	930	300	1,890	1,950	360	600	630	300	1,500	1,260	840

13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (13/18)

NO	Switch Unit Name	ABBR	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133
1	Phloen Chit 3	PNC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Asok Din Daeng 2	ASD2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Sukhumvit 1	SKW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Samran Rat 4	SRR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Krung Kasem 3	KKM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Samsen 2	SMS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Pathum Wan 2	PTW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Surawong 4	SRW4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Surawong 5	SRW5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Chaiyaphruk 1	CYP1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Chaiyaphruk 2	CYP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Phra Khanong 1	PKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Phra Khanong 2	PKG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	On Nut 1	ONT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Trok Chan 1	TKC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	Trok Chan 2	TKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Thung Mahamek 1	TMM1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	Thung Mahamek 2	TMM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Sathupradit 2	STD2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Thanon Tok 1	TNT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Thanon Tok 2	TNT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Khlong Toei 1	KT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Hua Mak 2	HAM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Khlong Chan 2	KGC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Khlong Chan 3	KGC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	Ramkhamhaeng 1	RKH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Bang Chan 1	BGC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Lat Krabang 1	LKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Bang Na 1	BNA1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Bang Na 2	BNA2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	Bang Na 3	BNA3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Samut Prakan 2	SPK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Samut Prakan 3	SPK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	Bang Pu 1	BGU1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	Pu Chao Sarrang Phrai 2	PSP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Bang Phli 1	BPL1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Bang Phli 2	BPL2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	Bang Phli Bang Bo 1	BBB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	Thon Buri 1	TNB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	Lat Ya T8	LYT8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	Phasi Charoen 1	PSN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	Phasi Charoen 2	PSN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Bang Phlat 2	BGT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Bang Phlat 3	BGT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Bang Bue Thong 1	BBT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	Bang Bue Thong 2	BBT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	Charan Sanitwong 1	CSW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	Charan Sanitwong 2	CSW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	Bang Khae 1	BKE1	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Bang Khae 2	BKE2	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	Nong Khaem 1	NGK1	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	Muban Senakit 1	MSK1	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Dao kharong 1	DKN1	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Dao kharong 2	DKN2	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	Phra Pradaeng 2	PPG2	0	0	0	0	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Ekkachai 1	EKC1	0	0	0	0	0	240	0	0	0	0	0	0	0	0	0	0	0	0	0
57	Ekkachai 2	EKC2	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0
58	Rat Burana 1	RBN1	0	0	0	0	0	90	0	0	0	0	0	0	0	0	0	0	0	0	0
59	Phahonyothin T2	PYT2	0	0	0	0	0	0	210	0	0	0	0	0	0	0	0	0	0	0	0
60	Inthamara 1	ITM1	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0
61	Inthamara 2	ITM2	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0
62	Bang Khen 1	BGN1	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0
63	Bang Khen 2	BGN2	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0
64	Lat Phrao 1-2	LTP1-2	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0
65	Lat Phrao 2-1	LTP2-1	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0
66	Lat Phrao 2-2	LTP2-2	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
67	Don Muang 2	DNM2	0	0	0	0	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0
68	Thanyaburi 1	TYB1	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0
69	Rangsit 1	RST1	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0
70	Nawa Nakhon 1	NWN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0
71	Bang Sa 2	BGS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0
72	Ngam Wong Wan 2	NWW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0
73	Nonthaburi 2	NTB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
74	Lak Si T4	LKST4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	Lak Si 2	LKS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	Ram Inthra 1	RTI1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	Ram Inthra 2	RTI2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Pak Kret 1	PKK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	Pathum Thani 1	PTT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	Bang Phum 1	BAN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (14/18)

NO	Switch Unit Name	ABBR	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	
			RKB3	NGK2	MSK2	DRN3	PPG3	EKC3	RBN2	PYT4	ITM3	BGN3	LTP1-3	LTP2-3	DNM3	FYB2	RST2	NWN2	BGS3	NWW3	NTB3	
81	Chaeng Watthana 1	CWT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	Phloen Chit 4	PNC4	0	60	30	0	0	60	30	270	60	0	30	0	60	0	0	30	0	30	0	0
83	Asok Din Daeng 3	ASD3	0	30	30	0	0	60	0	150	60	30	30	30	60	0	0	0	0	0	30	30
84	Sukhumvit 2	SKW2	0	0	0	0	0	0	0	30	0	0	0	0	30	0	0	0	0	0	0	0
85	Sanam Rat 5	SRR5	0	60	60	0	0	60	30	30	0	0	0	0	0	0	0	0	0	0	0	0
86	Krung Kasem 4	KKM4	0	0	0	0	0	0	30	0	60	0	0	0	0	30	0	0	0	0	0	0
87	Samson 3	SMS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	Pathum Wan 3	PTW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	Surawong 6	SRW6	0	90	60	30	60	150	60	150	30	0	30	0	90	0	0	30	0	30	0	30
90	Chaiyaphruk 3	CYP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	Phra Khanong 3	PKG3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	On Nut 2	ONT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	Trok Chan 3	TKC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	Thung Mahamek 3	TMM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	Sathupradit 3	STD3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	Thanon Tok 3	TNT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97	Khlong Toei 1	KIT2	0	0	0	0	0	30	0	30	0	0	0	0	0	0	0	0	0	0	0	0
98	Hua Msk 3	HAM3	0	0	0	0	0	30	0	30	0	0	0	0	30	0	0	0	0	0	0	0
99	Khlong Chan 4	KGC4	0	0	0	0	0	0	0	30	0	0	0	0	30	0	0	0	0	0	0	0
100	Ramakhaeng 2	RKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Bang Chan 2	BGC2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
102	Lat Krabang 2	LKG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	Bang Na 4	BNA4	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
104	Samut Prakan 4	SFK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	Bang Pu 2	BGU2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106	Pu Chao Saming Phrai 3	PCP3	0	0	0	0	30	30	0	30	0	0	0	0	0	0	0	0	30	0	0	0
107	Bang Phli 4	BPL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108	Bang Phli Bang Bo 2	BPB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109	Thon Buri 2	TNB2	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	Lat Ya 2	LY2	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	Phasi Charoen 3	PSN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	Bang Phlat 4	BGT4	0	30	30	0	0	30	0	30	0	0	0	0	0	0	0	0	0	0	0	0
113	Bang Bun Thong 3	BBT3	0	30	30	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114	Charan Sanitwong 3	CSW3	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	Bang Khas 3	BKE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116	Nong Khaem 2	NGK2	0	0	120	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Muban Setaikit 2	MSK2	0	180	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118	Dao Khawong 3	DKN3	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119	Phra Pradaeng 3	PPG3	0	0	0	0	0	60	60	0	0	0	0	0	0	0	0	0	0	0	0	0
120	Ekkachai 3	EKC3	0	90	60	60	30	0	90	30	0	0	0	0	0	0	0	0	0	0	0	0
121	Rat Burana 2	RBN2	0	0	0	0	30	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122	Phahonyothin 4	PYT4	0	0	0	0	0	0	0	0	60	30	30	0	60	0	0	0	60	30	0	0
123	Inthamara 3	ITM3	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
124	Bang Khen 3	BGN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	Lat Phrao 1-3	LTP1-3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
126	Lat Phrao 2-3	LTP2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Dorn Muang 3	DNM3	0	0	0	0	0	0	0	60	0	0	0	0	0	90	30	30	30	0	0	0
128	Thanyaburi 2	TYB2	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0
129	Rangsit 2	RST2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0
130	Nawa Nakhon 2	NWN2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	30	0	0
131	Bang Su 3	BGS3	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	60	0	0	30	0
132	Ngam Wong Wan 3	NWW3	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	30	0	30	30
133	Nonthaburi 3	NTB3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	60	0	0	0
134	Lak Si 3	LKS3	0	0	0	0	0	0	0	60	0	0	0	0	60	0	0	0	0	0	0	0
135	Ram Inthra 3	RIT3	0	0	0	0	0	0	0	30	0	0	0	0	30	0	0	0	0	0	0	0
136	Pak Kret 2	PKK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
137	Pathum Thani 2	PTT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138	Bang Phun 2	BAN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	Chaeng Watthana 2	CWT2	0	0	0	0	0	0	0	30	0	0	0	0	30	0	0	0	0	0	0	0
140	Krung Kasem T1	RKT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
141	Phahonyothin T(XB)	PYT4	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
142	Phloen Chit T3	PLT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143	Thon Buri T(XB)	TNBTA	0	30	30	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
144	Surawong T(XB)	SWTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	Krung Kasem TP	KKTP	0	0	0	0	0	0	0	30	30	0	0	0	0	0	0	0	0	0	0	0
146	Phahonyothin TP	PYTP	0	0	0	0	0	0	0	1,140	600	0	0	0	0	0	0	0	0	0	0	0
147	Phloen Chit TP	PLTP	0	0	0	0	30	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0
148	Lak Si TP	LSTP	0	30	30	0	0	60	0	60	120	510	570	420	1,050	420	150	390	690	660	570	0
149	Phra Khanong TP	PNTP	0	0	0	0	0	30	0	30	60	0	0	0	0	0	0	0	0	0	0	0
150	Lat Ya TP	LYTP	360	930	780	420	540	1,110	630	60	60	0	0	0	0	0	0	0	0	0	0	0
151	Lak Si TC	LSTC	0	0	0	0	0	0	0	0	0	60	60	150	600	150	30	30	60	90	90	0
152	Phra Khanong TC	PNTC	0	0	0	0	0	0	0	300	90	0	0	0	0	0	0	0	0	0	0	0
153	Lat Ya TC	LYTC	30	60	60	30	90	90	60	0	0	0	0	0	0	0	0	0	0	0	0	0
154	Lak Si International	LSTI	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	30	0	0	0	0
155	Phra Khanong International	PNTI	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
156	Lat Ya International	LYIT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total		Total	450	1,680	1,380	600	900	2,490	1,050	3,060	1,320	690	810	660	2,550	690	240	630	1,050	930	870	0

13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (15/18)

NO	Switch Unit Name	ABBR	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152
			LKS3	RFI3	PKK2	PIT2	BAN2	CWT2	MCI	MC2	MC3	MCA	13	KK11	PYTA	PL13	TNBT1	SWTA	KKTP	PYTP	PL1P
1	Phloen Chit 3	PNC3	0	0	0	0	0	0	0	0	0	0	0	0	0	2,070	0	0	0	0	0
2	Arook Din Daeng 2	ASD2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Sukhumwit 1	SKW1	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0	0	0
4	Sanran Rat 4	SRR4	0	0	0	0	0	0	0	0	0	0	0	30	0	1,260	0	0	0	0	0
5	Krung Kasin 3	KKM3	0	0	0	0	0	0	0	0	0	0	0	1,590	0	0	0	0	0	0	0
6	Samen 2	SMS2	0	0	0	0	0	0	0	0	0	0	0	1,080	0	0	0	0	0	0	0
7	Pathum Wan 2	PTW2	0	0	0	0	0	0	0	0	0	0	0	390	0	30	0	0	0	0	0
8	Surawong 4	SRW4	0	0	0	0	0	0	0	0	0	0	0	690	0	60	0	0	0	0	0
9	Surawong 5	SRW5	0	0	0	0	0	0	0	0	0	0	0	30	30	1,590	0	60	0	0	0
10	Chaityapbruk 1	CYP1	0	0	0	0	0	0	0	0	0	0	0	30	0	210	0	30	0	0	0
11	Chaityapbruk 2	CYP2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0
12	Phra Khanong 1	PKG1	0	0	0	0	0	0	0	0	0	0	0	30	0	60	0	0	0	0	0
13	Phra Khanong 2	PKG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	On Nut 1	ONT1	0	0	0	0	0	0	0	60	0	0	0	0	60	30	120	60	30	240	480
15	Trok Chan 1	TKC1	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0	0
16	Trok Chan 2	TKC2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	60	0	300	0	0
17	Thung Mahanek 1	TMM1	0	0	0	0	0	0	0	0	0	0	0	0	300	0	60	0	0	0	0
18	Thung Mahanek 2	TMM2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210	0	0	0	0
19	Sathupradit 2	STD2	0	0	0	0	0	0	0	0	0	0	0	0	0	180	0	0	0	0	0
20	Thanon Tok 1	TNT1	0	0	0	0	0	0	0	0	0	0	0	0	30	0	390	0	0	0	0
21	Thanon Tok 2	TNT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180	0	0	0	0
22	Khlong Toei 1	KTI1	0	0	0	0	0	0	0	0	0	0	0	0	30	0	330	0	0	0	0
23	Hua Mak 2	HAM2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	420	0	0	0	0
24	Khlong Chan 2	KGC2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	60	0	0	0	0
25	Khlong Chan 3	KGC3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0	0
26	Ramkamsaeng 1	RKH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Bang Chan 1	BGC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Lat Krabang 1	LKG1	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0
29	Bang Na 1	BNA1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Bang Na 2	BNA2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0
31	Bang Na 3	BNA3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0
32	Samut Prakan 2	SPK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Samut Prakan 3	SPK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	Bang Pu 1	BGU1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	Pu Chao Saenng Phrai 2	PSP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Bang Phi 1	BPL1	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0	0
37	Bang Phi 2	BPL2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0
38	Bang Phi Bang Bo 1	BBB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	Thon Buri 1	TNB1	0	0	0	0	0	0	0	0	0	0	0	30	0	30	30	0	0	0	0
40	Lat Ya T8	LTYT8	0	0	0	0	0	0	0	0	60	0	0	60	30	120	60	90	360	330	570
41	Phasi Charoen 1	PSN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169	0	0	0	0
42	Phasi Charoen 2	PSN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Bang Phlat 2	BGT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Bang Phlat 3	BGT3	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0	0
45	Bang Bue Thong 1	BBT1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	Bang Bue Thong 2	BBT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	Charan Sanitwong 1	CSW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	270	0	0	0	0
48	Charan Sanitwong 2	CSW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	Bang Khae 1	BKB1	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0	0	0
50	Bang Khae 2	BKB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151	0	0	0	0
51	Nong Kheam 1	NGK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	Muban Sattakit 1	MSK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Dao Khanong 1	DKN1	0	0	0	0	0	0	0	0	0	0	0	0	0	30	270	0	0	0	0
54	Dao Khanong 2	DKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	Phra Pradaeng 2	PPG2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0	0
56	Ekkachai 1	EKC1	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0	0	0
57	Ekkachai 2	EKC2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	Rat Burana 1	RBN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	Phahonyothin T2	PYT2	0	0	0	0	0	0	0	0	0	0	0	0	60	30	120	60	210	210	570
60	Inthamara 1	ITM1	0	0	0	0	0	0	0	0	0	0	0	0	270	0	0	0	0	0	0
61	Inthamara 2	ITM2	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0	0	0
62	Bang Khae 1	BKN1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	Bang Khae 2	BKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	Lat Phrao 1-2	LTP1-2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0	0
65	Lat Phrao 2-1	LTP2-1	0	0	0	0	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0
66	Lat Phrao 2-2	LTP2-2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0	0
67	Don Muang 2	DNM2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	60	0	0	0	0
68	Thanyaburi 1	TYB1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	Rangsit 1	RST1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	Nawa Nakhon 1	NWN1	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0
71	Bang Su 2	BGS2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0
72	Ngam Wong Wan 2	NWV2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30	0	0	0	0
73	Nonthaburi 2	NBT2	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0
74	Lak Si T4	LKST4	120	0	0	0	0	0	0	0	0	60	0	60	30	120	60	60	360	630	660
75	Lak Si 2	LKS2	30	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0
76	Ram Inthra 1	RTI1	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	Ram Inthra 2	RTI2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Pak Kret 1	PKK1	0	0	90	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0
79	Pathum Thani 1	PTT1	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	Bang Phun 1	BANI	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0

13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (16/18)

NO	Switch Unit Name	ABBR	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152
			LKS3	RTT3	PKK2	PTT2	BAN2	CWT2	MC1	MC2	MC3	MC4	13	KKT1	PYTA	PLT3	TNBT	SWTA	KKTP	PYTP	PLTP
81	Chaeng Watthana 1	CWT1	0	0	0	0	0	60	0	0	0	0	0	0	30	0	0	0	0	0	0
82	Phloen Chai 4	PNC4	0	30	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	2,130
83	Asok Din Daeng 3	ASD3	30	30	30	0	0	30	0	0	0	0	0	0	0	0	0	0	30	1,590	30
84	Sukhumvit 2	SKW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	630
85	Samran Rai 5	SRR5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	870	0	30
86	Krung Kasem 4	KKM4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	870	0	0
87	Samsen 3	SMS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	660	0	30
88	Pathum Wan 3	PTW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	480	30	30
89	Surawong 6	SRW6	60	30	30	0	0	30	0	0	0	0	0	0	0	0	0	0	30	0	2,370
90	Chaiyaphruk 3	CYP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
91	Phra Khanong 3	PKG3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
92	On Nut 2	ONT2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
93	Troek Chan 3	TKC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180	0	30
94	Thang Mahamek 3	TMM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	390
95	Sathapradit 3	STD3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210
96	Thason Tok 3	TNT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	330
97	Khlong Toei 1	KT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	720
98	Hua Mak 3	HAM3	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	30	30
99	Khlong Chan 4	KGC4	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	60
100	Ramakhaeng 2	RKN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
101	Bang Chan 2	BGC2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30
102	Lat Krabang 2	LKG2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
103	Bang Na 4	BNA4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30
104	Samut Prakan 4	SPK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
105	Bang Pu 2	BGP2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
106	Pa Chao Saming Phrai 3	PSP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
107	Bang Phi 4	BPL4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30
108	Bang Phi Bang Bo 2	BBB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
109	Thon Buri 2	TNB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
110	Lat Ya 2	LY2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	Phasi Charoen 3	PSN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112	Bang Phlat 4	BGT4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30
113	Bang Bue Thong 3	BBT3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	0
114	Charan Sanitwong 3	CSW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30
115	Bang Khac 3	BKE3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
116	Nong Khaem 2	NGK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
117	Muban Satsakit 2	MSK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
118	Dao Khanong 3	DKN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
119	Phra Pradaeng 3	PPG3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
120	Ekkachai 3	EKC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
121	Rai Burana 2	RBN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30
122	Phahonyothin 4	PYT4	30	30	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	1,200	0
123	Inthamara 3	ITM3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	510	30
124	Bang Khen 3	BGN3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
125	Lat Phrao 1-3	LTP1-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	0
126	Lat Phrao 2-3	LTP2-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
127	Don Muang 3	DM3	60	30	30	30	0	30	0	0	0	0	0	0	0	0	0	0	60	0	30
128	Thanyaburi 2	TYB2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
129	Rangsit 2	RST2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	Nawa Nakhon 2	NWN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
131	Bang Su 3	BGS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	30
132	Ngam Wong Wan 3	NWW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
133	Nonthaburi 3	NTB3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	30	30
134	Lak Si 3	LKS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	Ram Inthra 3	RTI3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
136	Pak Kret 2	PKK2	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	30	0	30
137	Pathum Thani 2	PTT2	0	0	90	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30
138	Bang Phun 2	BAN2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139	Chaeng Watthana 2	CWT2	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
140	Krung Kasem T1	KKT1	0	0	0	0	0	60	0	0	0	0	0	0	60	150	90	60	240	480	930
141	Phahonyothin T(XB)	PYTA	0	0	0	0	0	0	0	0	0	0	0	30	0	60	30	30	30	30	60
142	Phloen Chai T3	PLT3	0	0	0	0	0	0	0	0	0	0	630	120	30	0	60	30	420	780	1,050
143	Thon Buri T(XB)	TNBT	0	0	0	0	0	0	0	0	0	0	0	60	30	60	0	30	60	30	90
144	Surawong T(XB)	SWTA	0	0	0	0	0	0	0	0	0	30	60	30	60	30	0	60	60	60	60
145	Krung Kasem TP	KKTP	0	0	0	0	0	0	0	0	0	0	0	300	30	930	60	60	0	60	90
146	Phahonyothin TP	PYTP	0	0	0	0	0	0	0	0	0	0	0	450	90	750	60	60	90	0	90
147	Phloen Chai TP	PLTP	0	0	0	0	0	0	0	0	0	0	0	960	90	1,620	120	240	90	60	0
148	Lak Si TP	LSTP	600	660	660	540	150	690	0	0	0	0	0	750	90	990	120	90	90	60	90
149	Phra Khanong TP	PNTP	0	0	0	0	0	0	0	0	0	0	0	450	60	1,020	90	120	60	60	120
150	Lat Ya TP	LYTP	0	0	0	0	0	0	0	0	0	0	0	720	60	690	240	120	60	30	120
151	Lak Si TC	LSTC	330	60	90	60	0	90	0	0	0	0	0	60	0	0	0	0	30	0	0
152	Phra Khanong TC	PNTC	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	30
153	Lat Ya TC	LYTC	0	0	0	0	0	0	0	0	0	0	0	0	0	90	60	0	0	0	60
154	Lak Si International	LSIT	60	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	60	0	0
155	Phra Khanong International	PNIIT	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	30
156	Lat Ya International	LYIT	0	0	0	0	0	0	0	0	0	0	0	0	0	60	30	30	0	0	30
Total	Total		1,320	1,050	1,050	780	180	990	90	90	60	90	720	9,060	1,140	14,670	2,120	1,890	6,450	7,230	13,590

13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (17/18)

NO	Switch Unit Name	ABBR	153	154	155	156	157	158	159	160	161	TOTAL
			LSTP	PNTP	LYTP	LSTC	PNTC	LYTC	LSTT	PNTT	LYTT	
1	Phloen Chit 3	PNC3	0	0	0	0	0	240	0	0	150	4,230
2	Asoek Din Daeng 2	ASD2	0	0	0	0	90	0	0	0	0	2,340
3	Sukhumvit 1	SKW1	0	0	0	0	0	90	0	0	60	2,400
4	Samran Rai 4	SRR4	0	0	0	180	0	0	30	0	0	3,090
5	Krung Kasem 3	KKM3	0	0	0	60	0	0	0	0	0	1,800
6	Saracen 2	SMS2	0	0	0	30	0	0	0	0	0	660
7	Pathum Wan 2	PTW2	0	0	0	60	0	0	0	0	0	1,140
8	Surawong 4	SRW4	0	0	0	0	0	180	0	0	210	3,930
9	Surawong 5	SRW5	0	0	0	0	0	60	0	0	60	420
10	Chaiyaphruk 1	CYP1	0	0	0	0	30	0	0	0	0	630
11	Chaiyaphruk 2	CYP2	0	0	0	0	30	0	0	0	0	690
12	Phra Khanong 1	PKG1	0	0	0	0	30	0	0	30	0	390
13	Phra Khanong 2	PKG2	750	1,080	480	0	180	0	0	120	0	13,080
14	On Nut 1	ONT1	0	0	0	0	0	0	0	0	0	600
15	Trok Chan 1	TKC1	0	0	0	0	0	0	0	0	0	480
16	Trok Chan 2	TKC2	0	0	0	0	0	0	0	0	0	480
17	Thung Mahamek 1	TMM1	0	0	0	0	0	0	0	0	0	300
18	Thung Mahamek 2	TMM2	0	0	0	0	0	0	0	0	0	240
19	Sathupradit 2	STD2	0	0	0	0	0	30	0	0	0	540
20	Thanon Tok 1	TNT1	0	0	0	0	0	0	0	0	0	270
21	Thanon Tok 2	TNT2	0	0	0	0	0	30	0	0	0	510
22	Khloung Toei 1	KT11	0	0	0	0	0	30	0	0	0	750
23	Hua Mak 2	HAM2	0	0	0	0	90	0	0	0	0	1,590
24	Khloung Chan 2	KGC2	0	0	0	0	30	0	0	0	0	1,050
25	Khloung Chan 3	KGC3	0	0	0	0	0	0	0	0	0	180
26	Ramkumbhacng 1	RKH1	0	0	0	0	0	0	0	0	0	180
27	Bang Chan 1	BGC1	0	0	0	0	0	0	0	0	0	510
28	Lat Krabang 1	LKG1	0	0	0	0	0	0	0	0	0	210
29	Bang Na 1	BNA1	0	0	0	0	30	0	0	0	0	570
30	Bang Na 2	BNA2	0	0	0	0	30	0	0	0	0	540
31	Bang Na 3	BNA3	0	0	0	0	0	0	0	0	0	240
32	Samut Prakan 2	SPK2	0	0	0	0	0	0	0	0	0	300
33	Samut Prakan 3	SPK3	0	0	0	0	0	0	0	0	0	180
34	Bang Pu 1	BGU1	0	0	0	0	0	0	0	0	0	180
35	Pu Chao Saming Phrai 2	PSP2	0	0	0	0	30	0	0	0	0	930
36	Bang Phli 1	BPL1	0	0	0	0	30	0	0	0	0	540
37	Bang Phli 2	BPL2	0	0	0	0	0	0	0	0	0	180
38	Bang Phli Bang Bo 1	BBB1	0	0	0	0	0	0	0	0	0	180
39	Thon Buri 1	TNB1	0	0	0	0	0	0	0	0	0	570
40	Lat Ya T8	LTYT8	600	420	1,080	0	0	150	0	0	60	10,620
41	Phasi Charoen 1	PSN1	0	0	0	0	0	0	0	0	0	259
42	Phasi Charoen 2	PSN2	0	0	0	0	0	30	0	0	0	330
43	Bang Phlat 2	BGT2	0	0	0	0	0	60	0	0	0	1,740
44	Bang Phlat 3	BGT3	0	0	0	0	0	0	0	0	0	120
45	Bang Bac Thong 1	BBT1	0	0	0	0	0	0	0	0	0	240
46	Bang Bac Thong 2	BBT2	0	0	0	0	0	0	0	0	0	120
47	Charan Sanitwong 1	CSW1	0	0	0	0	0	0	0	0	0	330
48	Charan Sanitwong 2	CSW2	0	0	0	0	0	30	0	0	0	570
49	Bang Khao 1	BKE1	0	0	0	0	0	0	0	0	0	241
50	Bang Khao 2	BKE2	0	0	0	0	0	0	0	0	0	270
51	Nong Khaem 1	NGK1	0	0	0	0	0	30	0	0	0	480
52	Muban Sattakit 1	MSK1	0	0	0	0	0	30	0	0	0	390
53	Dao Khanong 1	DKN1	0	0	0	0	0	0	0	0	0	420
54	Dao Khanong 2	DKN2	0	0	0	0	0	0	0	0	0	240
55	Phra Pradaeng 2	PPG2	0	0	0	0	0	30	0	0	0	600
56	Ekkachai 1	EKC1	0	0	0	0	0	30	0	0	0	990
57	Ekkachai 2	EKC2	0	0	0	0	0	0	0	0	0	210
58	Rat Burana 1	RBN1	0	0	0	0	0	0	0	0	0	660
59	Phachayodhin T2	PYT2	570	300	270	0	120	0	0	60	0	5,400
60	Inthamara 1	ITM1	0	0	0	0	0	0	0	0	0	420
61	Inthamara 2	ITM2	0	0	0	0	30	0	0	0	0	690
62	Bang Khen 1	BGN1	0	0	0	0	0	0	0	0	0	450
63	Bang Khen 2	BGN2	0	0	0	30	0	0	0	0	0	630
64	Lat Phrao 1-2	LTP1-2	0	0	0	0	0	0	0	0	0	1,080
65	Lat Phrao 2-1	LTP2-1	0	0	0	0	0	0	0	0	0	180
66	Lat Phrao 2-2	LTP2-2	0	0	0	0	0	0	0	0	0	690
67	Don Muang 2	DNM2	0	0	0	30	0	0	0	0	0	870
68	Thanyaburi 1	TYB1	0	0	0	0	0	0	0	0	0	120
69	Rangsit 1	RST1	0	0	0	0	0	0	0	0	0	210
70	Nawa Nakhon 1	NWN1	0	0	0	0	0	0	0	0	0	300
71	Bang Sa 2	BGS2	0	0	0	30	0	0	0	0	0	690
72	Ngam Wong Wan 2	NWW2	0	0	0	30	0	0	0	0	0	840
73	Nonhlaburi 2	NTB2	0	0	0	0	0	0	0	0	0	480
74	Lak Si T4	LKST4	1,440	660	450	270	60	0	90	30	0	13,530
75	Lak Si 2	LKS2	0	0	0	30	0	0	30	0	0	180
76	Ram Intra 1	RIT1	0	0	0	0	0	0	0	0	0	420
77	Ram Intra 2	RIT2	0	0	0	0	0	0	0	0	0	120
78	Pak Kret 1	PKK1	0	0	0	0	0	0	0	0	0	510
79	Pathum Thani 1	PTT1	0	0	0	0	0	0	0	0	0	270
80	Bang Phuan 1	BAN1	0	0	0	0	0	0	0	0	0	150

13-7 The Number of Circuits between Exchanges in 1997 (Case-3) (18/18)

NO	Switch Unit Name	ABBR	153	154	155	156	157	158	159	160	161	TOTAL
			LS1P	PNTP	LYTP	LSTC	PNTC	LYTC	LSIT	PNTI	LYIT	
81	Chaeng Watthana 1	CWT1	0	0	0	0	0	0	0	0	0	540
82	Phloen Chit 4	PNC4	180	0	0	0	0	420	0	0	300	5,970
83	Asok Din Daeng 3	ASD3	150	90	90	0	180	0	0	30	0	4,200
84	Sukhumvit 2	SKW2	150	150	60	0	0	90	0	0	30	1,590
85	Samsen Rai 5	SRR5	180	120	90	180	0	0	60	0	0	2,430
86	Krung Kasem 4	KKM4	180	0	0	90	0	0	0	0	0	1,740
87	Samsen 3	SMS3	0	30	30	60	0	0	0	0	0	1,140
88	Pathum Wan 3	PTW3	60	60	60	90	0	0	0	0	0	1,020
89	Surawong 6	SRW6	150	90	30	0	0	480	0	0	750	7,770
90	Chaiyaphruk 3	CYP3	0	270	0	0	30	0	0	0	0	360
91	Phra Khanong 3	PKG3	0	390	0	0	60	0	0	60	0	600
92	On Nut 2	ONT2	0	450	30	0	30	0	0	0	0	630
93	Troak Chan 3	TKC3	0	30	30	0	0	0	0	0	0	360
94	Thung Mahamek 3	TMM3	30	60	60	0	0	60	0	0	0	810
95	Sathuradit 3	STD3	0	30	30	0	0	0	0	0	0	330
96	Ithanon Tok 3	INT3	0	30	30	0	0	30	0	0	0	510
97	Khlong Toei 1	KT12	150	60	60	0	0	90	0	0	30	1,710
98	Hua Mak 3	HAM3	180	990	90	0	180	0	0	30	0	2,550
99	Khlong Chan 4	KGC4	150	690	60	0	90	0	0	0	0	1,620
100	Ramkambheng 2	RKN2	0	150	0	0	0	0	0	0	0	180
101	Bang Chan 2	BGC2	660	60	60	60	0	0	0	0	0	1,380
102	Lat Krabang 2	LKG2	0	390	30	0	30	0	0	0	0	660
103	Bang Na 4	BNA4	150	690	90	0	150	0	0	30	0	1,710
104	Sarnat Prakan 4	SPK4	30	390	30	0	60	0	0	0	0	870
105	Bang Pu 2	BGU2	0	210	0	0	0	0	0	0	0	300
106	Pu Chao Saming Phrai 3	PSP3	150	750	60	0	150	0	0	60	0	1,980
107	Bang Phlat 4	BPL4	150	720	90	0	150	0	0	30	0	1,860
108	Bang Phli Bang Bo 2	BBB2	0	240	0	0	0	0	0	0	0	360
109	Ithon Buri 2	TNB2	30	0	330	0	0	0	0	0	0	450
110	Lat Ya 2	LY22	0	0	420	0	0	60	0	0	30	630
111	Phasi Charoen 3	PSN3	0	0	210	0	0	30	0	0	0	300
112	Bang Phlat 4	BGT4	150	60	690	0	0	60	0	0	0	1,590
113	Bang Bue Thong 3	BBT3	720	60	60	60	0	0	0	0	0	1,350
114	Charan Sanitwong 3	CSW3	60	30	420	0	0	30	0	0	0	780
115	Bang Khac 3	BKE3	30	0	270	0	0	30	0	0	0	420
116	Nong Khaem 2	NGK2	30	0	630	0	0	150	0	0	0	1,380
117	Muban Sathakit 2	MSK2	60	0	570	0	0	90	0	0	0	1,140
118	Dao Khayong 3	DKN3	30	0	330	0	0	0	0	0	0	540
119	Phra Pradaeng 3	PPG3	60	60	570	0	0	60	0	0	0	1,050
120	Ekkachai 3	EKC3	150	0	1,110	0	0	150	0	0	0	2,520
121	Rat Burana 2	RBN2	60	0	540	0	0	30	0	0	0	960
122	Phahonyothin 4	PYT4	150	0	150	0	180	0	0	30	0	3,000
123	Inthamara 3	ITM3	180	60	30	0	60	0	0	0	0	1,140
124	Bang Khen 3	BGN3	390	30	0	30	0	0	0	0	0	660
125	Lat Phrao 1-3	LTP1-3	420	30	30	30	0	0	0	0	0	750
126	Lat Phrao 2-3	LTP2-3	360	30	30	0	0	0	0	0	0	540
127	Don Muang 3	DNM3	1,020	0	60	150	0	0	30	0	0	2,160
128	Thanyaburi 2	TYB2	360	0	0	30	0	0	0	0	0	600
129	Rangsit 2	RST2	180	0	0	0	0	0	0	0	0	240
130	Nawa Nakhon 2	NWN2	390	0	0	30	0	0	30	0	0	660
131	Bang Su 3	BGS3	750	60	90	240	0	0	0	0	0	1,560
132	Ngam Wong Wan 3	NWW3	540	30	30	60	0	0	0	0	0	930
133	Northaburi 3	NTB3	510	30	30	60	0	0	0	0	0	960
134	Lak Si 3	LKS3	870	0	0	120	0	0	60	0	0	1,380
135	Ram Inthra 3	RIT3	600	60	30	60	0	0	0	0	0	1,080
136	Pak Kret 2	PKK2	510	0	30	60	0	0	0	0	0	990
137	Pathum Thani 2	PTI2	420	0	30	30	0	0	0	0	0	750
138	Bang Phun 2	BAN2	120	0	0	0	0	0	0	0	0	150
139	Chaeng Watthana 2	CWT2	660	0	30	30	0	0	0	0	0	990
140	Krung Kasem T1	KKT1	630	420	660	60	0	0	60	0	0	8,910
141	Phahonyothin T(XB)	PYTA	90	60	30	0	30	0	0	30	0	1,110
142	Phloen Chai T3	PLT3	900	1,200	780	0	0	90	0	0	30	14,520
143	Thon Buri T(XB)	TNBTA	90	60	120	0	0	30	0	0	30	2,170
144	Surawong T(XB)	SWTA	60	90	90	0	0	30	0	0	30	1,980
145	Krung Kasem TP	KKTP	120	120	120	60	0	0	60	0	0	6,330
146	Phahonyothin TP	PYTP	0	150	60	0	30	0	0	60	0	7,110
147	Phloen Chai TP	PLTP	90	150	150	0	0	60	0	0	60	13,440
148	Lak Si TP	LS1P	0	150	150	120	0	0	120	0	0	18,240
149	Phra Khanong TP	PNTP	210	0	180	0	90	0	0	90	0	12,840
150	Lat Ya TP	LYTP	150	120	0	0	0	120	0	0	90	12,690
151	Lak Si TC	LSTC	150	0	0	0	0	0	0	0	0	4,800
152	Phra Khanong TC	PNTC	0	90	0	0	0	0	0	0	0	3,630
153	Lat Ya TC	LYTC	0	0	120	0	0	0	0	0	0	4,320
154	Lak Si International	LSIT	90	0	0	0	0	0	0	0	0	540
155	Phra Khanong International	PNTI	0	120	0	0	0	0	0	0	0	600
156	Lat Ya International	LYIT	0	0	90	0	0	0	0	0	0	1,740
	Total	Total	18,450	12,870	12,660	2,460	2,310	3,240	570	690	1,920	285,960



13-8 Required Space (1/8)

Required Space of the each Exchange Office in the BMA (Area -1)

Unit Name	Opening Year	Line Capacity	1992 year Subscribers	Demand 1,997	Expansion Capacity	Space Required	Space Remained	Shortage Space	Demand 2,002	Expansion Capacity	Required Space	Shortage Space	Demand 2,007	Expansion Capacity	Required Space	Demand 2002-2007	Expansion Capacity 2002-2007	Required Space	Shortage Space	Shortage XB space	
PNC-1	1971	12,000	55,870	101,673					54,576				30,047								
PNC-2	1971	10,000																			
PNC-3	1984	30,480																			
total		52,480																			
TOTAL		58,400			120,973	423	370	33		44,764	194		48,203	30,047	150	74,811	0	284		1,017	
SRR-1	1970	10,000	51,617	51,420					52,134												
SRR-2	1970	10,000																			
SRR-3	1978	10,000																			
SRR-4	1984	30,480																			
TOTAL		56,640			67,251	262	20	232	32,212	50,562	212		29,088	48,203	205	98,765	0	356		1,176	
KKM-2	1970	10,000	21,456	28,596																	
KKM-3	1980	16,384																			
TOTAL		26,384			38,553	176	50	126	117,338	90,962	153		99,512	29,088	147	60,050	0	240		500	
SRW-1	1976	10,000	55,645	153,355																	
SRW-2	1976	10,000																			
SRW-3	1978	10,000																			
SRW-4	1984	25,560																			
total		55,560																			
TOTAL		62,528			193,415	640	97	543	15,648	110,220	391		2,680	99,512	359	209,732	0	689		1,386	
SMS-1	1980	5,800	11,865	32,199																	
SMS-2	1985	6,242																			
TOTAL		12,042			38,281	175	84	91		10,461	91			2,680	68	13,141	0	99		234	
ASD-1	1979	10,000	39,097	92,841																	
ASD-2	1985	28,480																			
TOTAL		38,480			103,261	370	240	330	24,507	27,143	141		24,620	6,615	80	33,758	0	161		480	
PTW-1	1980	5,384	21,710	22,960																	
PTW-2	1984	20,240																			
total		25,624																			
TOTAL		26,624			27,962	144	286	144		24,722	134			24,620	134	49,342	0	208		486	
SKW-1	1984	41,760	31,716	24,688																	
TOTAL		41,760			17,096	111	98	13	6,131	4,699	74		2,551	2,551	68	7,250	0	82		-82	
Area total		322,858	290,976	507,732	606,792	2,300		-1,197	327,356	303,533	1,391	-74	243,316	243,316	1,210	546,849	0	1,701	-86	5,279	

13-8 Required Space (2/8)

Required Space of the each Exchange Office in the BMA (Area -2 1/2)

Unit Name	Opening Year	Line Capacity	1992 year Subscriber	Demand 1,997	Expansion Capacity	Space		Shortage Space	Demand 2,007	Expansion Capacity	Required Space	Demand 2002+2007	Expansion Capacity 2002+2007	Required Space	Shortage Space	XB space
						Required	Remained									
CYP-2	1970	13,000	28,880	8,690												
CYP-3	1989	20,480							863			4,256				
TOTAL		33,480			5,447	76	110			2,381	67					
BNA-1	1970	12,000	31,091	67,742										863	63	
BNA-2	1986	15,240							24,923			61,845				
BNA-3		9,216														
total		36,456														
TOTAL		45,672			67,930	264	70	394		32,122	156			24,923	135	
KGC-1	1971	13,000	41,006	83,531												
KGC-2	1986	19,240							17,749			54,539				
KGC																
total		32,240														
TOTAL		52,648			86,605	320	105	213		29,174	148			17,749	113	
TMM-1	1968	10,000	15,511	35,970												
TMM-2	1980	5,120							11,080			29,597				
total		15,120														
TOTAL		22,288			36,600	170	40	130		15,542	107			11,080	93	
STD-1	1971	3,250	14,791	9,950												
STD-2	1986	14,862							3,740			8,808				
TOTAL		18,112			8,655	86	294			4,537	74			3,740	71	
TNT-1	1970	5,250	16,320	13,811												
TNT-2	1989	13,312							10,287			23,357				
TOTAL		18,562			16,797	110	0	110		11,937	96			10,287	91	
BGC	1984	13,192	15,741	61,394												
TOTAL		13,288			68,835	267	140	327		20,773	122			14,478	103	
PKG-1	1979	8,000	22,369	21,668												
PKG-2	1985	21,360							18,472			32,346				
TOTAL		29,360			22,066	126	96	310		16,633	110			14,478	103	
HAM-1	1979	8,000	29,286	55,018												
HAM-2	1985	20,384							25,640			63,614				
total		28,384			39,974											
TOTAL		36,576			63,718	251	126	325		34,240	163			25,640	137	
TKC-1	1979	10,000	23,167	11,764												
TKC-2	1985	13,192							14,906			29,778				
total		23,192														
TOTAL		26,264			14,616	104	280			14,886	105			14,906	105	
LKG-1	1984	3,820	4,098	18,302					6,743			16,747				
TOTAL		4,944			21,558	125	315	38		12,673	98			6,743	80	
																338

13-8 Required Space (3/8)

Required Space of the each Exchange Office in the BMA (Area - 2 2/2)

Unit Name	Opening Year	Line Capacity	1992 year Subscriber	Demand 1,997	Expansion Capacity	Required Remained Space	Shortage Space	Demand 2,002	Expansion Capacity	Required Space	Shortage Space	Demand 2,007	Expansion Capacity	Required Space	Shortage Space	Demand 2002+2007	Expansion Capacity 2002+2007	Required Space	Shortage Space	
KTI	1985	14,096	12,701	38,109	44,493	193	53	19,448	14,901	105	8,080	8,080	0	22,981	129	27,528	0	22,981	129	129
	TOTAL	14,096	23,520	30,652	44,493	193	53	19,448	14,901	105	8,080	8,080	0	22,981	129	27,528	0	22,981	129	129
	total	22,312			44,493			13,632												
ONT	1984	20,312	23,520	30,652	33,021	159	68		11,140	93	7,403	7,403	0	18,543	116	0	0	18,543	116	116
	TOTAL	26,384	5,790	6,853	33,021	159	68	13,273	11,140	93	7,403	7,403	0	18,543	116	0	0	18,543	116	116
	total	11,776			6,853			40,007												
FKN	1964	5,000	11,178	32,453	6,176	79?			10,993	93	7,572	7,572	0	18,565	116	20,845	0	18,565	116	116
	TOTAL	11,776	5,790	6,853	6,176	79?		40,007	10,993	93	7,572	7,572	0	18,565	116	20,845	0	18,565	116	116
	total	5,000			6,176			38,120												
SPK-1	1986	2,870														78,127				
	TOTAL	15,014														78,127				
	total	8,120														38,120				
SPK-2	1977	7,000	21,105	68,141	44,620	194	80		39,252	178	33					0				
	TOTAL	15,014			44,620	194	80	21,662	39,252	178	33					0				
	total	8,120														33,181				
SPK-3	1985	12,192	16,992	66,795	72,551	278	132		17,605	113						0				
	TOTAL	25,360			72,551	278	132	43,561	17,605	113						0				
	total	15,120														0				
BPL	1985	12,192	16,992	66,795	43,561				27,720							71,281				
	TOTAL	30,084			43,561				27,720							71,281				
	total	12,192														0				
BGJ	1989	5,120	3,597	8,845	53,723	221	294		37,225	172	172					0				
	TOTAL	6,144			53,723	221	294	11,371	37,225	172	172					0				
	total	5,120														25,487				
BBB	1989	2,624	3,901	9,714	10,846	93	150		12,469	97	97					0				
	TOTAL	2,624			10,846	93	150	4,925	12,469	97	97					0				
	total	2,624														8,654				
Area total	TOTAL	440,628	340,844	651,379	688,146	3,204	-1,312	391,932	342,940	2,169	-859	264,529	262,522	1,928	658,461	1,876	-1,242	3,298		
	total	5,696			9,889	90?			4,439	73	73					0				
	total	2,624			688,146	3,204										0				

13-8 Required Space (4/8)

Required Space of the each Exchange Office in the BMA (Area -3)

Unit Name	Opening Year	Line Capacity	1992 year Subscriber	Demand 1,997	Expansion Capacity	Space		Demand 2,002	Expansion Capacity	Required Space	Shortage Space	Demand 2,007	Expansion Capacity	Required Space	Shortage Space	Demand 2002+2007	Expansion Capacity	Required Space	Shortage Space	
						Required	Remained													
TNB-1	1970	20,000	20,711	18,976				18,120				18,225				36,345				
TNB-2	1992	8,192																		
TOTAL		28,192			18,743	116	217		18,162	114				18,225	115		36,387	169		968
BKE-1	1971	6,000	15,561	18,279				16,121				12,682				28,803				
BKE-2	1986	12,192																		
TOTAL		18,192			21,896	126	271		14,745	104		10,075		12,682	98		27,427	142		288
DKN-1	1971	12,000	17,500	19,993				14,796								24,871				
DKN-2	1990	13,312																		
total		25,312																		
TOTAL		27,960			16,051	108	150		12,908	99		10,075		10,075	90		22,983	129		336
BGT-1	1976	11,000	51,208	60,278				36,222				23,830				60,052				
BGT-2	1986	29,540																		
total		40,540																		
TOTAL		69,140			56,835	231	210		31,265	154		983		23,830	131		55,095	225		492
PSN-1	1979	5,000	17,076	12,392				3,349												
PSN-2	1991	20,480																		
TOTAL		25,480			5,328	76	224		2,403	67		14,008		983	63		3,386	70		208
CSW-1	1979	5,100	24,429	34,723				22,001								36,009				
CSW-2	1983	15,192																		
TOTAL		20,292			47,660	203	90		18,804	116		15,625		14,008	102		32,812	158		252
REN	1985	17,984	18,839	34,439				26,164												
TOTAL		22,080			41,664	185	126		21,948	126		15,625		15,625	107		37,573	173		173
LTY	1985	25,360	26,013	25,867				9,606												
TOTAL		25,360			30,362	151	270		6,756	80		2,480		2,480	67		9,236	88		88
MSK	1990	14,336	12,436	52,232				29,073												
TOTAL		18,432			57,865	234	120		24,591	134		17,369		17,369	60		42,460	187		187
BXC	1987	19,970	22,154	71,538				19,798												
total		19,970																		
TOTAL		32,258			69,353	268	105		14,466	103		21,940		6,469	79		20,935	123		123
NGK	1971	5,000	15,662	60,897				34,159												
TOTAL		22,384			67,839	264	112		29,271	148		27,949		21,940	126		51,211	214		214
PPG-1	1969	3,310	13,784	33,524				33,305												
PPG-2	1984	14,144																		
total		17,454																		
TOTAL		22,526			38,104	174	83		31,163	153		37,293		27,949	144		59,112	257		216
BBT	1991	5,120	6,104	51,522				54,648												
TOTAL		14,848			64,637	254	98		47,706	203		37,293		37,293	172		84,999	315		315
Area total		346,544	261,277	494,660	536,338			317,362	274,188	1,603	-868	209,428	1,355	209,428	1,355		526,790	1,511	-1,121	2,760

13-8 Required Space (5/8)

Required Space of the each Exchange Office in the BMA (Area 4 1/2)

Unit Name	Opening Year	Line Capacity	1992 year Subscriber	Demand 1,997	Expansion Capacity	Space		Demand 2,002	Expansion Capacity 2,007	Required Space	Demand 2002+2007	Expansion Capacity 2002+2007	Required Space		Shortage XB Space	
						Required	Remained						Space	Space		
PYT-1	1967	12,000	32,904	72,199				69,179	44,660		113,839					
PYT-2	1976	5,800														
PYT-3	1985	5,000														
total		22,800														
TOTAL		35,064			97,711	353	0	83,330	2,036	194	103,666		372		1,211	
ITM-1	1971	10,000	26,689	37,930												
ITM-2	1990	20,480														
total		31,504														
TOTAL		40,720			27,231	142	224									
BGN-1	1970	10,000	24,453	19,266				8,336	2,036	66		7,848	95		288	
BGN-2	1990	5,120							4,721							
total		15,120														
TOTAL		30,480			16,573	110	0	8,336	4,721	74	73,840	11,611	245		364	
BGS-1	1970	10,000	22,807	72,550				51,966								
BGS-2	1985	13,192														
total		23,192														
TOTAL		23,192			92,951	339	96	51,966	21,874	126	73,840	11,611	245		364	
DNM-1	1970	3,480	28,792	117,476				56,637	34,709		91,346					
DNM-2	1983	14,240														
total		17,720														
TOTAL		33,400			135,523	467	48	56,637	34,709	126	91,346	61,803	308		315	
LKS-1	1976	6,000	14,918	42,390				30,945	22,044		52,989					
LKS-2	1987	11,264														
total		17,264														
TOTAL		38,768			30,918	159	156	30,945	22,044	164	52,989	82,575	208	80	168	
RIT-1	1983	15,925	17,813	61,706				18,629	8,352		26,981					
RIT-2	1992	6,144														
total		22,069														
TOTAL		25,141			61,830	245	100	18,629	8,352	126	26,981	82,575	208	80	168	
LTP-1/1	1979	5,200	27,542	21,009				6,963	3,488		10,451					
LTP-2/1	1983	15,960														
total		21,160														
TOTAL		30,376			20,960	123	60	6,963	3,488	85	10,451	22,870	87	87		
LTP-1/2	1979	3,200	28,572	23,925				9,215	6,346		15,561					
LTP-2/2	1983	25,110														
total		28,310														
TOTAL		34,918			21,265	124	60	9,215	6,346	79	15,561	14,413	103		252	