

3-8 Concentrator Usage of SPC Switch in the BMA (9/12)

Unit	CP	HW	1989 Year												1990 Year												1991 Year												Average
			No.	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12			
EKC		0	0	1	2	9	10	15	21	20	23	22	18	23					30	29	28		31		36	35	38	38	41	35		37	38	40	41	42	38		
EKC		1		0	0	0	0	0	0	0	0	0	0	1					7	9	11		12		14	15	16	23	23	20		20	31	29	29	30	23		
EKC		2	0	0																			0		0	0	0	1	0	0		0	1	1	1	3	2		
NGK		0	85	83	67	81	78		87	88	50	79	73	64								75	70	60	71	72		79	68	67	72		42	71	70	67	67		
NGK		1	86	84	69	79	83		87	89	56	76	73	67								74	76	64	71	76											73		
NGK		2	85	83	69	82	83		83	83	87	74	65	61								69	74	66	73	73												73	
NGK		0	77	83	69	83	84		84	86	88	74	75	67								67	67	59	68	68		72	62	74		58	66	63	64	66			
NGK		1	81	94	69	83	84		82	85	88	81	70	68								65	68	54	65	64		71	71	74		62	66	71	69	68			
NGK		2	51	49	49	55	59		58	63	59	51	47	46								48	44	42	50	50		66	71	72		63	70	67	66	64			
NGK		0	54	48	40	51	48		54	50	53	47	55	56								57	60	23	62	60		72	71	74						68			
NGK		1																																			60		
NGK		2																																			53		
PPG-2	OM	0	44	47	35	45	47	47	51	53	50	51	57	54					52	57	63	60	58			61	59	73		69	73	73	70	70	76	69			
PPG-2		1	52	57	41	43	58	54	56	54	59	60	66	64					53	59	62	69	59			64	68	74		67	74	71	75	70	76	71			
PPG-2		2	56	58	41	52	54	60	58	52	58	62	63	67					67	61	64	68	67			63	72	79		70	82	83	81	77	77	76			
PPG-2	OM	0	48	55	34	44	54	56	56	56	57	59	60	65					58	65	63	67	60			55	64	74		70	74	72	70	66	71	68			
PPG-2		1	46	45	31	38	39	39	47	44	50	45	53	48					49	55	49	56	54			53	59	64		60	67	60	65	63	68	62			
PPG-2		2																																			0		
PPG-2		0	40	47	37	42	51	45	47	49	48	49	51	54					44	49	57	56	53			47	55	62		56	70		61	64	55	64	59		
PPG-2		1	47	53	41	47	48	55	58	55	56	57	61	57					54	65	58	59	63			63	66	78		74	81	79	84	77	81	76			
PPG-2		2	6	5	4	6	8	8	9	8	7	8	7	5					9	8	9	9	11			8	8	12		12	12	12	11	14	13	11			
PPG-2		0	53	53	41	46	45	52	53	46	52	52	57	56					54	55	57	62	62			58	66	64		62	67	69	71	73	67	66			
PPG-2		1	39	60	41	52	60	57	59	57	65	62	63	64					67	66	65	68	68			66	73	81		70	75	76	73	79	72	74			

3-8 Concentrator Usage of SPC Switch in the BMA (11/12)

Unit No.	CP	1989 Year												1990 Year												1991 Year												Average
		No.	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	
RIT	1	0	36	40	35	35	38	35	44	42	41	35	39	46	42	45	43	38	40	45	41	40	40	36	43	53	44	51	53	47	41	53	47					
RIT	1	0	36	35	31	30	31	40	38	34	46	36	47	41	40	45	41	40	48	49	48	48	40	48	49	40	48	48	48	45	44	50	46					
RIT	1	0	35	41	38	34	32	36	41	44	39	44	48	39	42	31	38	40	45	41	45	40	47	45	41	45	46	45	64	65	64	41	44					

3-8 Concentrator Usage of SPC Switch in the BMA (12/12)

Unit	CP	HW	1989 Year												1990 Year												1991 Year												Average	
			No.	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12				
NWWD	OM	6	70	72	45	60	58	54	62	74	63	69	62	69				60	67	66	72	61				64	62	79	73	76	63	70	66	73	74	71	76	70		
PKK		1	21	19	9	16	15	12	15	19	15	17	16	14				13	14	17	19	17				15	13	16	15	18	15	17	14	17	17	17	16	16		
PKK		2	78	87	56	76	76	72	81	84	89	88	88	86				89	95	98	97	73				92	91	101	109	102	98	119	104	103	106	113	112	104		
PKK		0	54	64	39	54	56	51	59	59	53	57	59	61				49	52	58	61	51				59	54	63	61	66	58	67	64	63	65	58	58	61		
PKK		1	105	118	81	105	105	107	108	110	113	119	120	119				0	0								0	0	0	0	0	0	0	0	0	0	0	0	0	
PKK		0	65	70	48	60	62	61	63	62	59	64	63	68				64	62	64	69	66				65	64	73	71	78	69	72	66	73	73	66	66	70		
PKK		1	92	99	66	85	86	87	106	102	102	115	115	105				0	0	0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PKK		2	60	62	39	55	52	52	62	64	59	62	65	60				52	62	61	65	57				57	62	75	58	69	62	70	66	67	68	60	62	65		
PKK		0	28	25	14	21	16	23	26	24	19	24	28	31				25	26	30	27	25				24	28	32	35	35	27	33	31	32	34	32	30	31		
PKK		1	0			0	0	0	0	0	0	0	0	0				2	6	15	20	18				20	23	27	28	31	23	31	30	35	40	36	38	30		
PKK		2	21	26	13	17	19	21	22	24	25	28	25	29				30	29	31	35	34				31	30	33	32	37	26	37	33	38	40	37	32	34		
PKK		3	0	0	2	12	17	17	17	24	16	18	16	22				19	22	23	17	21				17	18	25	23	28	24	29	21	29	32	22	22	24		
PKK		4																0	0	0	0					0	0	0	0	0	0	0	0	2	6	12	17	13		
PKK		0	17	22	11	19	19	19	25	19	21	23	23	25				24	24	28	23	29				25	30	32	36	36	29	34	30	36	35	35	30	32		
PKK		1																0	0	0	0					5	6	11	14	15	18	21	22	24	29	23	23	17		
PKK		2	26	27	17	21	23	26	31	29	29	3	28	33				27	33	33	37	29				29	31	32	34	35	25	35	27	29	34	27	31	31		
PKK		4									8	17	21	42	46			58	61	61	69	69				71	74	76	78	90	95	86	92	96	103	101	107	89		
PKK		0	3	4	4	7	8	10	20	18	20	23	22					24	29	26	24	25				27	27	31	33	33	28	33	29	38	29	25	28	30		
PKK		1	10	11	8	6	10	9	12	10	10	10	11	12				8	8	11	10	16				9	10	11	14	13	9	11	12	19	22	25	21	15		
PKK		2	20	22	14	20	23	25	26	19	21	19	25	22				25	27	28	28	27				21	26	30	29	27	28	34	30	37	35	30	31	30		
PKK		3	0	1	0	1	0	2	5	9	7	15	18	24				27	27	27	32	23				27	23	31	33	33	28	32	31	35	32	30	33	31		
PKK		4	0	0	0	1	0	1	0	1	3	4	6	6				20	22	23	30	27				24	31	33	36	36	34	36	33	43	37	37	34	34		
PKK		1	17	18	9	14	16	17	20	20	16	32	20	23				18	19	19	22	21				21	21	22	27	22	20	22	23	26	26	20	22	23		
PKK		2	10	8	3	11	13	12	18	15	11	16	13	20				15	18	19	20	14				17	14	18	19	24	18	23	18	22	24	16	22	20		
NWVN	OM	0	54	56	56	49	53	53	61	64	62	62	49	69				67		59		65					70	72	76	74							73			
NWVN		1	47	54	50	51	53	53	58	61	61	58	48	63				60		55		63					68	68	67	71								68		
NWVN		2	58	63	66	64	62	64	73	72	73	69	67	74				76		67		70					79	83	82	86									82	
NWVN	OM	0	43	47	50	47	50	53	55	56	63	64	52	63				59		57		68					74	78	77	80									77	
NWVN		1	46	44	52	50	50	52	55	55	52	54	54	68				60		52		49						60	66	68	66									65
NWVN		2	34	34	36	34	38	31	35	36	40	36	32	42				41		39		45					45	41	46	45									44	

3-10 Final Routs Traffic between XB(LE) and SPC Tandem (1/2)

Outgoing from LE (XB) to TDM

No.	Exchange office name	Unit name	KCMIT-1		PATT-2		PNCT-3		LKS1-4		PKGT-6		LTY1-8	
			No of Circuit	Small Working	No of Circuit	Small Working	No of Circuit	Small Working	No of Circuit	Small Working	No of Circuit	Small Working	No of Circuit	Small Working
1	PELORE CBT	PNC-1	0	0	0	0	0	0	0	0	0	0	0	0
1		PNC-2	0	0	0	0	0	0	0	0	0	0	0	0
1		PNC-3	0	0	0	0	0	0	0	0	0	0	0	0
1	RAMBANT BAY	SRSE-1	97	97	220	220	14	14	20	20	0	0	0	0
1		SRSE-2	57	57	84	220	220	224	4	102	0	0	0	0
1		SRSE-3	57	57	126	220	220	234	14	106	0	0	0	0
1	KEMAS KASIM	KKM-2	103	103	91	12	88	239	206	31	85	0	0	0
1	UDA WONO	SRW-1	0	0	0	0	0	0	0	0	0	0	0	0
1		SRW-2	0	0	0	0	0	0	0	0	0	0	0	0
1		SRW-3	0	0	0	0	0	0	0	0	0	0	0	0
1		SRW-TTA	27	27	4	63	41	47	63	22	154	0	0	0
1	SAMBERS	SMS-1	166	166	147	19	89	65	122	57	188	0	0	0
1	ASDE TOR DAUN	ASD-1	0	0	0	0	0	0	0	0	0	0	0	0
1	PATRO WAN	PTW-1	154	154	72	82	47	106	106	125	118	0	0	0
1	SEKAYAMBEK	SCP-2	0	0	0	0	0	0	0	0	0	0	0	0
1	BANG NA	BNA-1	0	0	0	0	0	0	0	0	0	0	0	0
1	BERLONG CHAN	KGC-1	0	0	0	0	0	0	0	0	0	0	0	0
1	TROJO MAJAMBE	TMM-1	0	0	0	0	0	0	0	0	0	0	0	0
1	BANTORAJAT	STD-1	0	0	0	0	0	0	0	0	0	0	0	0
1	FRANSON TIE	TNT-1	0	0	0	0	0	0	0	0	0	0	0	0
1	PETA ERANONG	PEE-1	0	0	0	0	0	0	0	0	0	0	0	0
1	BUA NAH	HAM-1	0	0	0	0	0	0	0	0	0	0	0	0
1	TREK CHAN	TKC-1	0	0	0	0	0	0	0	0	0	0	0	0
1	RAMUT WAKAN	SPK-1	0	0	0	0	0	0	0	0	0	0	0	0
1	PUCHAO SANGKIR	SPS-1	0	0	0	0	0	0	0	0	0	0	0	0
1	THOR BUKA	TNB-1	0	0	0	0	0	0	0	0	0	0	0	0
1	BANG KEAR	BKE-1	0	0	0	0	0	0	0	0	0	0	0	0
1	BAO REBANONG	BKN-1	0	0	0	0	0	0	0	0	0	0	0	0
1	BANO PELAT	BGT-1	130	130	74	56	57	0	0	0	0	0	0	0
1	FRANBARON	FBN-1	0	0	0	0	0	0	0	0	0	0	0	0
1	CEBAN BANTONG	CSW-1	0	0	0	0	0	0	0	0	0	0	0	0
1	PETA PADANG	PPG-1	0	0	0	0	0	0	0	0	0	0	0	0
1	Phuay Yobih	PYT-1	0	0	0	0	0	0	0	0	0	0	0	0
1		PYT-2	0	0	0	0	0	0	0	0	0	0	0	0
1	STAMAKALA	ITM-1	0	0	0	0	0	0	0	0	0	0	0	0
1	BANG REEN	BGR-1	0	0	0	0	0	0	0	0	0	0	0	0
1	BANG BU	BGS-1	0	0	0	0	0	0	0	0	0	0	0	0
1	DONG MANG	DNG-1	0	0	0	0	0	0	0	0	0	0	0	0
1	LAKE SI	LKS-1	0	0	0	0	0	0	0	0	0	0	0	0
1	BLAT PERAO 1	LTP1-1	0	0	0	0	0	0	0	0	0	0	0	0
1	BLAT PERAO 1	LTP2-1	0	0	0	0	0	0	0	0	0	0	0	0
1	INTEBARULI	NTB-1	0	0	0	0	0	0	0	0	0	0	0	0
1	MOAT WONO WAN	MYW-1	0	0	0	0	0	0	0	0	0	0	0	0

3-10 Final Routs Traffic between XB(LE) and SPC Tandem (2/2)

Incoming from TDM to LE(XB)

Unit	KOKTI			PYT T-2			PNC T-3			LXST-4			PKGT-5			LTY T-8		
	No of Circuit	Repair/Deter %	No of Circuit	No of Circuit	Repair/Deter %	No of Circuit	No of Circuit	Repair/Deter %	No of Circuit	Repair/Deter %	No of Circuit	Repair/Deter %	No of Circuit	Repair/Deter %	No of Circuit	Repair/Deter %	No of Circuit	Repair/Deter %
1 BELONG GERT	415	415 P	330	85	80	0	415	415 P	330	85	80	0	415	415 P	330	85	80	0
1 BAMBAY RAT	367	360 P	401	41	111	0	367	360 P	401	41	111	0	367	360 P	401	41	111	0
1 KUNING BAZON	46	46 P	62	16	135	0	46	46 P	62	16	135	0	46	46 P	62	16	135	0
1 SUPAWONG	415	400 P	380	20	95	0	415	400 P	380	20	95	0	415	400 P	380	20	95	0
1 SRW-1	414	399 P	412	13	103	0	414	399 P	412	13	103	0	414	399 P	412	13	103	0
1 SRW-2	369	369 P	395	26	107	0	369	369 P	395	26	107	0	369	369 P	395	26	107	0
1 SRW-3	20	20 P	54	34	270	0	20	20 P	54	34	270	0	20	20 P	54	34	270	0
1 SRW-4	43	36 P	102	66	283	43	43	36 P	102	66	283	43	43	36 P	102	66	283	43
1 SAMS-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 ASD-1	301	301 D	294	7	98	0	301	301 D	294	7	98	0	301	301 D	294	7	98	0
1 FTW-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 SKW-1	754	754 D	630	324	57	0	754	754 D	630	324	57	0	754	754 D	630	324	57	0
1 CYP-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 BNA-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 KGC-1	343	311 P	247	64	79	0	343	311 P	247	64	79	0	343	311 P	247	64	79	0
1 TRAM-1	108	108 P	113	4	104	0	108	108 P	113	4	104	0	108	108 P	113	4	104	0
1 STD-1	178	178 P	194	16	109	0	178	178 P	194	16	109	0	178	178 P	194	16	109	0
1 TND-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 PKG-2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 HAM-1	295	290 P	277	53	81	0	295	290 P	277	53	81	0	295	290 P	277	53	81	0
1 TKC-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 SPK-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 PNC CHAG BANGKOK PERAL	119	119 D	5	114	4	0	119	119 D	5	114	4	0	119	119 D	5	114	4	0
1 TNB-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 TNB-2	44	44 P	23	21	52	48	44	44 P	23	21	52	48	44	44 P	23	21	52	48
1 BKE-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 DKN-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 BGT-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 PSN-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 CSN-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 PPG-1	375	375 D	359	16	96	0	375	375 D	359	16	96	0	375	375 D	359	16	96	0
1 PPT-1	170	170 D	173	3	102	0	170	170 D	173	3	102	0	170	170 D	173	3	102	0
1 PPT-2	41	41 P	85	44	207	55	41	41 P	85	44	207	55	41	41 P	85	44	207	55
1 PPT-3	302	291 D	283	8	97	0	302	291 D	283	8	97	0	302	291 D	283	8	97	0
1 ITM-1	224	224 D	240	16	107	0	224	224 D	240	16	107	0	224	224 D	240	16	107	0
1 BGN-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 BGS-1	65	65 D	51	14	78	0	65	65 D	51	14	78	0	65	65 D	51	14	78	0
1 DNM-1	186	186 D	180	6	97	0	186	186 D	180	6	97	0	186	186 D	180	6	97	0
1 LKS XB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 LTP1-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 LTP2-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 NTR-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 NWW-1	223	218 D	151	66	70	0	223	218 D	151	66	70	0	223	218 D	151	66	70	0

3-11 Final Routs (SPC) Traffic Between LE and Tandem(1/4)

Outgoing from LE (SPC) to TDM

Area	Exchange office name	KKM T1			PYT T-2			PNC T-3			LKS T-4			PKG T-6			LTY T-8									
		No of Circuit			No of Circuit			No of Circuit			No of Circuit			No of Circuit			No of Circuit									
		Incall	Working	Required	Incall	Working	Required	Incall	Working	Required	Incall	Working	Required	Incall	Working	Required	Incall	Working	Required							
1	Saman Rat	162	160	189	441	439	297	142	68	161	161	261	166	89	89	152	171	127	127	180	-53	142				
1	Kuang Kasem	191	95	123	188	126	111	15	88	157	157	126	133	80	91	91	80	112	112	87	25	78				
1	Sura Wong	60	60	125	208	103	103	145	-42	141	643	503	135	107	120	120	215	-95	199	199	149	50	75			
1	Samsen	149	105	107	102	140	100	82	18	82	101	101	55	48	52	60	46	44	77		0	0	0			
1	Asok Din Daeng	63	63	128	203	199	232	-33	117	309	263	209	102	42	71	191	133	58	70	157	110	47	70			
1	Patum Wan	118	118	179	152	99	89	94	-5	106	435	198	109	17	87	94	152	-58	162	120	101	19	84			
1	Sukhumwit	90	90	109	121	117	87	83	4	95	592	416	304	112	73	141	141	128	19	91	120	94	26	78		
2	Chaiyaphruk	60	60	44	73	72	72	52	20	72	205	131	74	64	96	397	166	153	52	124	124	67	54			
2	Bang Na	60	60	64	107	68	68	58	10	85	169	134	35	79	90	389	166	160	51	118	118	72	46	61		
2	Khlong Chan	60	60	61	102	92	91	108	-17	119	184	145	39	79	124	584	147	437	25	94	94	62	32	66		
2	Ronkhaeng				0			0																		
2	Thung Mahamek	60	60	49	83	73	73	30	43	41	288	206	90	116	44	138	115	68	41	119	94	39	55	41		
2	Saibpradit	60	60	84	140						280	280	236	44	84											
2	Thanon Tok	60	60	38	63						240	163	149	14	91											
2	Bang Chan				0			46	6	88																
2	Hua Mak	60	60	80	133	97	97	96	1	99	168	168	155	13	92	601	184	158	26	86						
2	Trok Chan	96	96	90	6						260	260	287	-27	110											
2	Lat Krabang				0																					
2	Khlong Toei	90	90	93	103	48	48	102	-54	213	294	262	16	94	76	142	106	36	75							
2	Ori Noi				0			66	-15	179	75	75	105	-90	140	106	106	67	39	63	172	163	164	-1	101	76
2	Samut Prathan				0						225	225	93	132	41											
2	Pu Chao Saeng Phra	90	90	69	77	60	60	39	21	65	176	176	84	92	48	285	213	131	82	62	123	123	42	81	34	
2	Bang Phli				0			35	16	69	104	104	145	-41	139	106	106	54	52	51	178	178	196	-18	110	75
2	Bang Pu				0						30	30	72	-42	240	30	30	34	-4	113	164	164	146	18	89	
2	Bang Phli Bang Bo				0																					
3	Bang Khae	90	90	64	26	71					142	142	30	112	21											
3	Dao Khomong	90	60	49	11	82					165	165	59	106	36											
3	Bang Phai	86	86	73	13	85	140	140	-2	101	245	245	157	88	64											
3	Phasi Charoen				0																					
3	Charan Sanitwong	60	60	48	12	80	70	70	37	53	161	161	38	123	24	98	98	47	51	48	181	181	166	-5	103	
3	Rot Buran	60	30	56	26	187					107	107	100	7	93											
3	Muban Senbaki				0																					
3	Ekkachai				0			49	-1	102	120	120	111	9	93	100	100	63	27	70	509	329	284	45	86	
3	Nong Khaem				0																					
3	Para Pradsang	60	60	50	10	83					199	199	72	107	36	138	138	12	126	9	311	311	283	28	91	
3	Bang Bue Thong				0																					

3-11 Final Routs (SPC) Traffic Between LE and Tandem(2/4)

Area	Exchange office name	Unit	KKM T1			PVT T-2			PNCT-3			LKS T-4			PKG T-6			LTY T-8																
			No of Circuit			No of Circuit			No of Circuit			No of Circuit			No of Circuit			No of Circuit																
			Install	Working	Reqd Differ	Install	Working	Reqd Differ	Install	Working	Reqd Differ	Install	Working	Reqd Differ	Install	Working	Reqd Differ	Install	Working	Reqd Differ														
4	Imbamara	ITM-2	63	63F	53	10	84	257	77F	91	-14	118	191	191F	95	96	50	109	109F	79	30	72	89	89F	61	28	69	88	88F	48	40	55		
4	Bang Khen	BGN-2	60	60F	39	21	65	99	99F	38	61	38	178	178F	63	115	35	298	244F	120	124	49	95	95F	51	44	54	124	123F	43	80	35		
4	Bang Su	BGS-2	60	60F	78	-18	130	140	140F	136	4	97	161	161F	96	65	60	232	232F	107	125	46	60	60F	73	-13	122				0	###		
4	Don Mhuang	DNM-2	60	60F	90	-30	150	50	50F	30	20	60	150	150F	71	79	47	581	581F	372	209	64	124	124F	81	43	65	125	125F	44	81	35		
4	Ram Inthra	RI				0	###				0	###	93	93F	83	10	89	173	173F	192	-19	111	101	101F	85	16	84	77	77F	41	36	53		
4	Lai Phao	LIP1-2				0	###	67	67F	99	-32	148	135	135F	168	-33	124	183	183F	238	-55	130	100	100F	114	-54	190	103	103F	71	32	69		
4	Lai Phao	LIP2-2	90	90F	56	34	62	88	88F	113	-25	128	143	143F	103	40	72	240	240F	175	65	73	154	124F	73	51	59	148	148F	64	84	43		
4	Chaeng Warhana	CWT				0	###	76	76F	98	-22	129	95	95F	110	-15	116	360	360F	274	86	76	98	98F	78	20	80	126	126F	45	81	36		
4	Nonthaburi	NTB-2				0	###				0	###				0	###															0	###	
4	Ngum Wong Wan	NWW-2	86	86F	102	-16	119	95	95F	123	-28	129	117	117F	132	-15	113	211	211F	155	56	73	122	122F	117	5	96	60	60F	92	-32	153		
4	Pak Kret	PKK				0	###	90	90F	54	-2	104				0	###	340	211F	194	17	92											0	###
4	Pathum Thani	PTT				0	###				0	###				0	###																0	###
4	Rangsit	RST				0	###				0	###				0	###																0	###
4	Thayaburi	TYB				0	###				0	###				0	###																0	###
4	Nava Nakhon	NWN				0	###				0	###				0	###	233	233F	253	-18	108											0	###
4	Bang Phun	BAN				0	###				0	###				0	###																0	###

3-11 Final Routs (SPC) Traffic Between LE and Tandem(3/4)

Incoming from TDM to LE (SPC)

Area	Exchange office name	Unit	KKM T1			PYT T-2			PNCT-3			LKS T-4			PKG T-5			LTY T-8			
			Incall	Working	Request/Differ %	Incall	Working	Request/Differ %	Incall	Working	Request/Differ %	Incall	Working	Request/Differ %	Incall	Working	Request/Differ %	Incall	Working	Request/Differ %	
1	Samran Rat	SRR-4	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
1	Krong Aseem	KKM-3	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
1	Surawong	SRW-4	1021	967D	599	368	62	1021	967D	599	368	62	1021	967D	599	368	62	1021	967D	599	368
1	Sazsco	SMS-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
1	Asok Din Daeng	ASD-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
1	Pathun Wac	PTW-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
1	Sukhumwit	SKW-1	754	754D	430	324	57	754	754D	430	324	57	754	754D	430	324	57	754	754D	430	324
1	Chaiyaphruk	CYP-3	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
2	Bang Na	BNA-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
2	Khlong Chan	KGC-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
2	Ramkhamhaeng	RMK	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
2	Thung Mahamek	TMM-2	610	610D	207	403	34	610	610D	207	403	34	610	610D	207	403	34	610	610D	207	403
2	Sathupradit	STD-2	617	617D	237	380	38	617	617D	237	380	38	617	617D	237	380	38	617	617D	237	380
2	Tharon Tok	TNT-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
2	Bang Chan	BGC-1	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
2	Phu Mak	HAM-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
2	Trok Chau	TKC-2	496	496D	175	321	35	496	496D	175	321	35	496	496D	175	321	35	496	496D	175	321
2	Lak Krabang	LKG	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
2	Khlong Toei	KTI	455	455D	693	238	152	455	455D	693	238	152	455	455D	693	238	152	455	455D	693	238
2	On Not	ONT	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
2	Somut Prakan	SPK-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
2	Pu Chao Saming Phrai	PSP-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
2	Bang Phli	BPL-1	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
2	Bang Pu	BGU	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
2	Bang Phli Bang Bo	BBB	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
3	Bang Khae	BKE-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
3	Dao Kuanong	DKN-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
3	Bang Phlat	BGT-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
3	Phat Charoen	PSN-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
3	Charan Suniwong	CSW-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
3	Rat Burana	RBN	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
3	Muban Sertthakti	MSK	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
3	Phraechai	PKC	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
3	Nong Kwaan	NGK	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
3	Phra Pradaeng	PPG-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
3	Bang Bus Thong	BBT	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
4	Inthamara	ITM-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	
4	Bang Khen	BGN-2	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	0	###	

3-11 Final Routs (SPC) Traffic Between LE and Tandem(4/4)

Area	Exchange office name	Unit name	KKM T1						PYTT-2						PNC T-3						LKST-4						PKG T-6						LTY T-8					
			No of Circuit		Require	Differ	%	No of Circuit		Require	Differ	%	No of Circuit		Require	Differ	%	No of Circuit		Require	Differ	%	No of Circuit		Require	Differ	%	No of Circuit		Require	Differ	%						
			Instal	Working				Instal	Working				Instal	Working				Instal	Working				Instal	Working				Instal	Working				Instal	Working	Instal	Working	Instal	Working
4	Bang Su	SGS-2			0	####			0	####			0	####			432	432	D	302	130	70			0	####			0	####								
4	Don Muang	DNM-2			0	####			0	####			0	####			409	409	D	462	-53	113			0	####			0	####								
4	Ram Inbra	RIT			0	####			0	####			0	####											0	####			0	####								
4	Lat Phao	LTP1-2			0	####			0	####			0	####											0	####			0	####								
4	Lat Phao	LTP2-2			0	####			0	####			0	####											0	####			0	####								
4	Chang Watthana	CWT			0	####			0	####			0	####			700	700	D	362	338	52			0	####			0	####			567	567	D	185	382	33
4	Nonthaburi	NTB-2			0	####			0	####			0	####											0	####			0	####								
4	Ngam Wong Wan	NWV-2			0	####			0	####			0	####			714	714	D	322	392	45			0	####			0	####								
4	Pak Kret	PKK			0	####			0	####			0	####			419	419	D	319	100	76			0	####			0	####								
4	Pathum Thani	PTT			0	####			0	####			0	####			312	312	D	155	157	50			0	####			0	####								
4	Rangsit	RST			0	####			0	####			0	####			231	231	D	183	46	80			0	####			0	####								
4	Thayaburi	TYB			0	####			0	####			0	####											0	####			0	####								
4	Nawa Nakhon	NWN			0	####			0	####			0	####			154	154	D	195	-41	127			0	####			0	####								
4	Bang Phun	BAN			0	####			0	####			0	####											0	####			0	####								

3- 11 Final Routs (SPC) Traffic Between Tandem and TC to Tandem

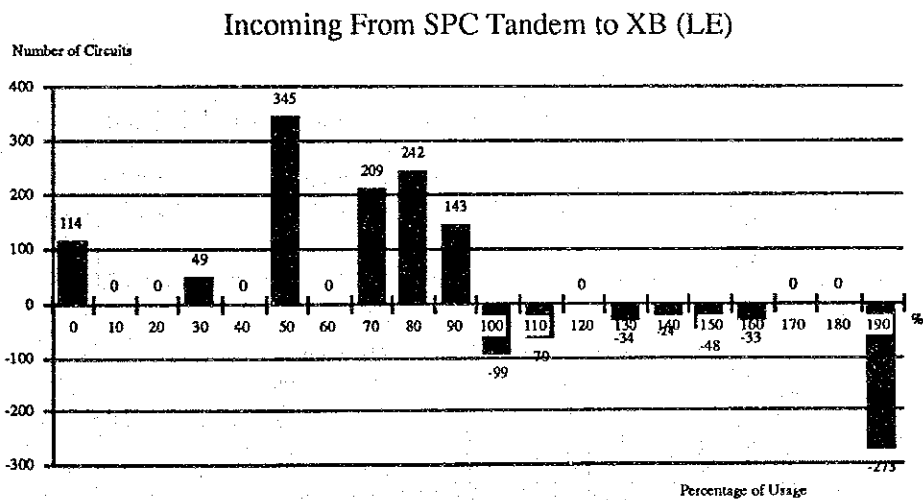
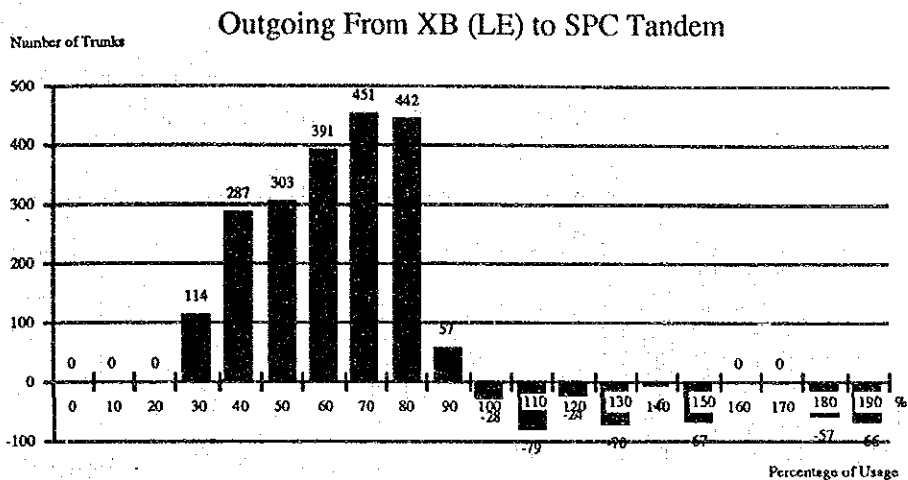
Outgoing from TC and TDM to TDM

Exchange Office Name	Unit	KKM T1			PYT T-2			PNC T-3			LKS T-4			PKG T-6			LTY T-8		
		Install	Working	Request Differ %	Install	Working	Request Differ %	Install	Working	Request Differ %	Install	Working	Request Differ %	Install	Working	Request Differ %	Install	Working	Request Differ %
Krung Kasern	KKM T1			0 ####			0 ####			0 ####			0 ####			0 ####			0 ####
Phahonyothin	PYT T2	149	149 F	199 -50 134			-0 ####	211	187 F	148 39 79	312	276 F	180 96 65	414	335 F	213 122 64	328	296 F	197 99 67
Phloen Chit	PNC T3	143	142 F	115 27 81	226	204 F	194 10 95	327	222 F	158 64 71	235	233 F	186 47 80	327	222 F	158 64 71	177	162 F	125 37 77
Lak Si	LKS T4	125	125 F	125 0 100	356	356 F	397 -41 112	215	215 F	177 38 82			0 ####	212	212 F	210 2 99	81	81 F	97 -16 120
Phra Khanong	PKG T6	34	34 F	66 -32 194	480	348 F	255 93 73	252	202 F	109 93 54	234	175 F	121 54 69			0 ####	259	255 F	74 181 29
Lat Ya	LTY T8	126	121 F	118 3 98	250	220 F	215 5 98	236	181 F	196 -15 108	132	102 F	110 -8 108	345	345 F	99 246 29	145	144 F	130 14 90
Lak Si	LKS TC	313	233 F	141 92 61			0 ####			0 ####			0 ####			0 ####			0 ####
Krung Kasern	KKM TC	159	159 F	157 2 99			0 ####	213	188 F	215 -27 114	115	100 F	138 -38 138	241	225 F	171 54 76	142	112 F	159 -47 142
Phra Khanong	PKG TC			0 ####	258	182 F	59 123 32	126	70 F	30 40 43			0 ####	399	398 F	184 214 46			0 ####
Lat Ya	LTY TC			0 ####			0 ####			0 ####			0 ####			0 ####			0 ####

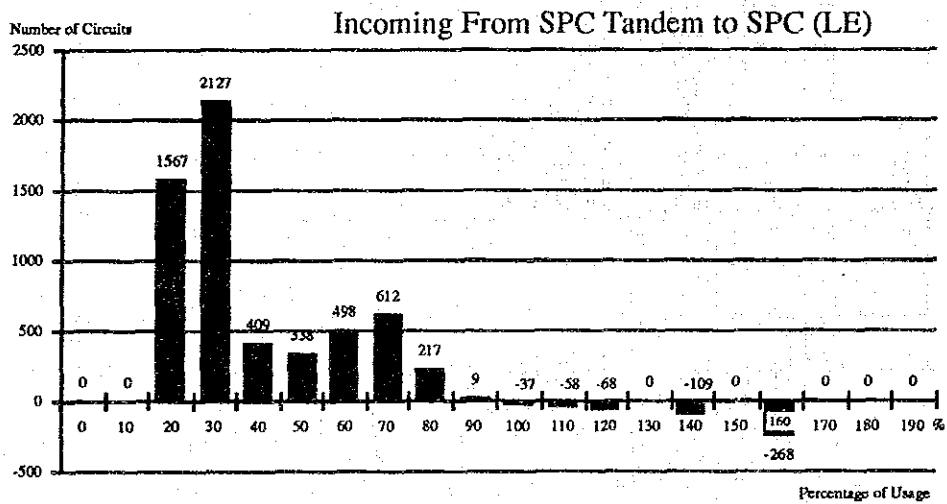
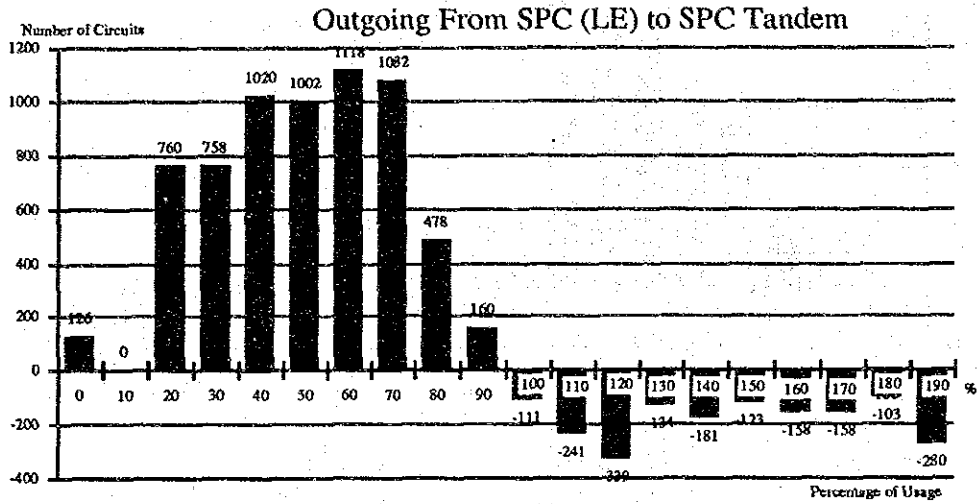
Outgoing from TC and TDM to TC

Exchange Office Name	Unit	KKM TC			LTY TC			PKG TC			LKS TC		
		Install	Working	Request Differ %	Install	Working	Request Differ %	Install	Working	Request Differ %	Install	Working	Request Differ %
Krung Kasern	KKM T1			0 ####			0 ####			0 ####			0 ####
Phahonyothin	PYT T2	255	224 F	274 -50 122			0 ####			0 ####			0 ####
Phloen Chit	PNC T3	105	100 F	152 -52 152	166	166 F	170 -4 102			0 ####			0 ####
Lak Si	LKS T4	125	125 F	127 -2 102			0 ####			0 ####	249	249 F	211 38 85
Phra Khanong	PKG T6	441	404 F	277 127 69			0 ####	74	74 D	127 -53 172			0 ####
Lat Ya	LTY T8	170	98 F	87 11 89	145	144 F	130 14 90			0 ####			0 ####
Krung Kasern	KKM TC			0 ####			0 ####			0 ####			0 ####
Lak Si	LKS TC			0 ####			0 ####	348	344 D	166 178 48			0 ####
Phra Khanong	PKG TC	19	18 F	44 -26 244			0 ####			0 ####			0 ####
Lat Ya	LTY TC			0 ####			0 ####			0 ####			0 ####

Percentage of usage of the total number of required circuits and afford circuits in each final routs

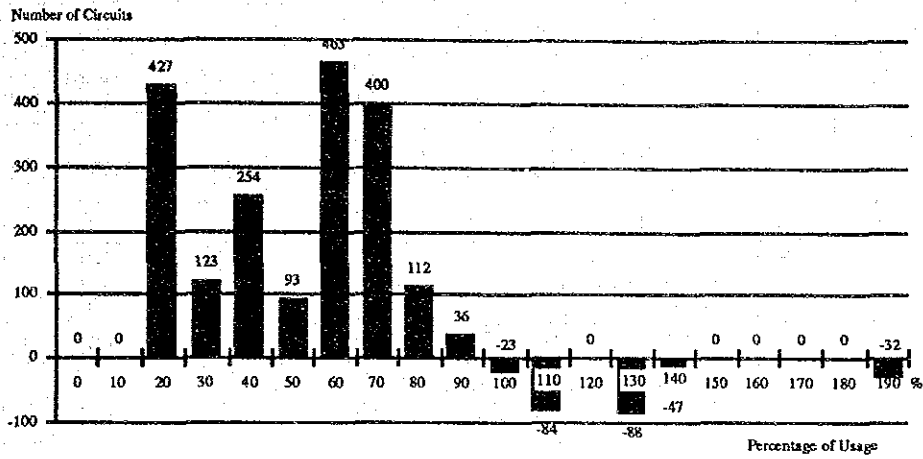


Percentage of usage of the total number of required circuits and afford circuits in each final routs

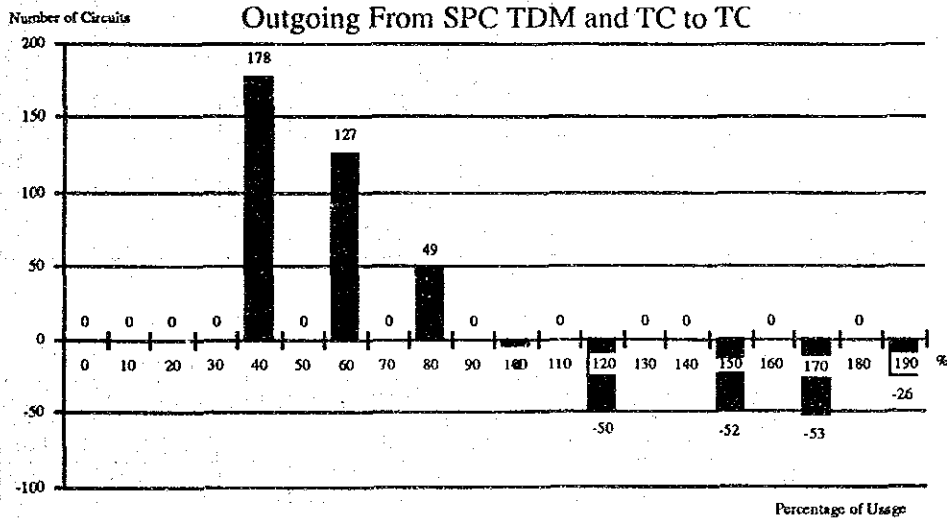


Percentage of usage of the total number of required circuits and afford circuits in each final routs

Outgoing From SPC Tandem and TC to SPC Tandem



Outgoing From SPC TDM and TC to TC



3-12 PSTN ~ MTX Traffic (1/2)

MTX 02 ~ PSTN

Outgoing					Incoming				
Exchange name	Plan	Installed Circuit	Required		Exchange name	Plan	Installed Circuit	Required	
			Circuit	Traffic				Circuit	Traffic
KKTCD	132	108	48	36.00	KKTCD	48	72	84	68.98
KKTDD		62	55	41.59	KKTDD		27	26	16.94
PYTCD		84	37	26.38	PYTCD		36	31	20.71
PYTDD		42	34	23.71	PYTDD		18	19	10.61
PLTDD		75	64	50.38	PLTDD		45	56	42.55
PNTDD		42	57	43.46	PNTDD		18	30	19.51
LSTDD		39	51	38.71	LSTDD		21	29	18.70
LYTDD		42	51	38.26	LYTDD		18	29	18.74
LYTCD	441	30	10	3.94	LYTCD	129	30	26	16.32
LSTCD	279	0	0	0.00	LSTCD	81	0	0	0.00
PNTCD	323	30	0	0.00	PNTCD	97	30	0	0.00
KKMTDD		84	90	74.11	KKMTDD		36	45	32.86
NMA	45	42	20	11.62	NMA	15	18	10	3.91
PLKR	68	30	24	14.78	PLKR	22	30	13	5.95
SNIT	66	42	18	10.08	SNIT	24	18	8	3.02

MTX03 ~ PSTN

Outgoing					Incoming				
Exchange name	Plan	Installed Circuit	Required		Exchange name	Plan	Installed Circuit	Required	
			Circuit	Traffic				Circuit	Traffic
KKMCO	364	126	150	122.30	KKMCI	170	54	55	41.88
LKSCO	231	61	63	49.22	LKSCI	29	27	25	15.84
PKGCO	220	63	55	42.26	PKGCI	42	27	40	28.39
LTYSO	286	84	103	86.09	LTYSO	49	36	33	22.42
NMACO	47	20	0	0.00	NMACI	13	10	0	0.00
PLKCO	42	20	0	0.00	PLKCI	18	10	0	0.00
SNICO	37	20	0	0.00	SNICI	23	10	0	0.00

MTX04 ~ PSTN

Outgoing					Incoming				
Exchange name	Plan	Installed Circuit	Required		Exchange name	Plan	Installed Circuit	Required	
			Circuit	Traffic				Circuit	Traffic
NMACO	130	84	55	41.83	NMACI		36	23	13.80

3-12 PSTN ~ MTX Traffic (2/2)

MTX05 ~ PSTN

Outgoing					Incoming				
Exchange name	Plan	Installed Circuit	Required		Exchange name	Plan	Installed Circuit	Required	
			Circuit	Traffic				Circuit	Traffic
KKMCO	24	21	0	0.00	KKMCI		9	0	0.00
LKSCO	64	42	0	0.00	LKSCI		18	0	0.00
PKGCO	67	21	0	0.00	PKGCI		9	0	0.00
LTYCO	66	42	0	0.00	LTYCI		18	0	0.00
NMACO	18	21	0	0.00	NMACI		9	0	0.00
PLKCO	197	167	130	109.70	PLKCI		71	69	55.15
SNICO	18	21	0	0.00	SNICI		9	0	0.00

MTX07 ~ PSTN

Outgoing					Incoming				
Exchange name	Plan	Installed Circuit	Required		Exchange name	Plan	Installed Circuit	Required	
			Circuit	Traffic				Circuit	Traffic
SNICO	150	146	140	118.97	SNICI	60	63	60	46.25

3-13 MTX~Base Station Traffic (1/2)

MTX 02

MTX 02

Exchange office name	Unit name	Unit code	Plan	Number of Circuits			Exchange office name	Unit name	Unit code	Plan	Number of Circuits		
				Installed Circuit	Required						Installed Circuit	Required	
					Circuit	Traffic						Circuit	Traffic
LAK SI	LKS	L1I 0141	60	32	13	8.52	KRUNG KASEM	KKM	K1I 0103	92	32	20	14.62
		L2I 0141		28	25	19.32			K2I 0103		31	18	13.06
KHLONG CHAN	KGC -2	K1I 0111	60	32	15	10.44			K3I 0103		28	16	11.35
		K2I 0111		28	23	18.00	PHILOEN CHIT	PNC -3	P1I 0101	60	32	12	7.51
BANG NA	BNA -2	B1I 0110	60	28	31	26.81			P2I 0101		26	7	3.26
		B2I 0110		32	16	10.87	PHAHONYOTHIN	PYT	P1I 0136	64	32	6	2.47
RAT BURANA	RBN	R1I 0132	68	21	12	7.27			P2I 0136		32	7	3.55
		R2I 0132		32	12	7.42	INTHAMARA	ITM	I1I 0137	64	32	14	8.93
PATHUM THANI	PTT	P1I 0501	48	24	21	15.55			I2I 0137		32	15	10.58
		P2I 0501		24	21	15.36	SUKHUMWIT	SKW	S1I 0108	64	32	13	8.64
SAMUT PRAKAN	SPK -2	S1I 0301	48	24	19	13.82			S2I 0108		32	20	14.59
		S2I 0301		24	13	8.64	THUNG MAHAMEK	TMM	T1I 0112	64	32	8	3.91
DON MUANG	DNM -2	D1I 0140	32	16	13	8.71			I2I 0112		32	8	4.49
		D2I 0140		16	15	10.51	LAT PHRAO 1	LTP1 -2	L1I 0143	60	28	13	8.47
BANG CHAN	BGC	B1I 0115	48	24	11	7.08			L2I 0143		32	15	9.96
		B2I 0115		24	18	12.96	BANG SU	BGS -2	B1I 0139	64	32	10	5.98
PHASI CHAROEN	PSN -2	P1I 0130	32	16	19	14.11			B2I 0139		32	6	2.5
		P2I 0130		16	10	6.00	HUA MAK	HAM -2	H1I 0117	64	32	12	7.46
NONG KHAEM	NGK	N1I 0149	32	16	14	9.07			H2I 0117		30	7	3.72
		N2I 0149		16	8	4.13	PHRA KHANONG	PKG	P1I 0116	53	21	9	5.16
BANG PU	BGU	B1I 0306	32	16	9	4.90			P2I 0116		32	15	9.77
		B2I 0306		16	15	9.98	LAT YA	LTY	L1I 0133	60	32	7	3.29
BANG BUB THONG	BBT	B1I 0402		16	14	9.55			L2I 0133		14	14	80.98
		B2I 0402		16	16	11.09	CHARAN SANITWONG	CSW -2	C1I 0131	53	21	17	11.88
NAWA NAKHON	NWN	N1I 0504	32	16	0	0.00			C2I 0131		32	19	13.75
		N2I 0504		16	0	0.00	NONTHABURI	NTB	N1I 0401	53	21	10	5.52
ASOK DIN DAENG	ASD -2	A1I 0106	84	28	14	9.48			N2I 0401		32	20	14.5
		A2I 0106		28	13	8.45							
		A3I 0106		28	16	11.40							

MTX 03

MTX 03

Exchange office name	Unit name	Unit code	Plan	Number of Circuits			Exchange office name	Unit name	Unit code	Plan	Number of Circuits		
				Installed Circuit	Required						Installed Circuit	Required	
					Circuit	Traffic						Circuit	Traffic
NAKON PATHON -1	NPT-1	130	40	25	30	23.83	SAMUT SONGKHAM -1	SKM -1	161	24	12	8.09	
NAKON PATHON -2	NPT-2	131		14	16	11.04	CHACHOENG SAO	CCO-1	103	8	9	5.28	
RATCHA BURI -1	RBR-1	132	24	9	11	6.29	PHANOM SARAKHAM	PNK-1	104	8	9	6.72	
RATCHA BURI -2	RBR-2	133		9	13	6.89	BANG PAKONG	BPA-1	105	44	13	7.08	
PHETCKA BURI -1	PBI -1	134	24	17	17	11.66	BANG PAKONG	BPA-2	106		15	13.20	
PHETCKA BURI -2	PBI -2	135		0	0	0.00	BANG PAKONG	BPA-3	107		17	12.96	
HUA HIN -1	HHN -1	136	16	9	9	5.23	CHON BURI	CBIR	108	36	30	28.80	
HUA HIN -2	HHN -2	137		0	0	0.00	SI RACHA	SRA-1	109	44	16	12.24	
PRACHUAP KHIKI KHAN	PKN	138	32	17	19	13.75	SI RACHA	SRA-2	110		9	5.36	
KANCHANA BURI -1	KCR -1	139	32	29	31	24.94	BAN KANUM RAI	BKR	111	12	13	7.80	
SARA BURI -1	SRI	140	32	17	17	11.81	PATHAYA	PTY-1	112	16	8	6.72	
SUPHAN BURI -1	SPB -1	141	32	9	8	3.89	RAYONG	RYG-1	114	32	30	24.48	
SUPHAN BURI -1	SPB -2	142		17	19	13.90	KHAO YAI DA	KYD-1	115	36	16	13.80	
AYATHAYA -1	AYA -2	143	24	22	23	19.27	KHAO YAI DA	KYD-2	116		13	7.92	
LOP BURI -1	LBI -1	145	16	17	20	15.02	CHANTHA BURI	CTI-1	120	36	13	7.68	
CHANTHA BURI	CTI -3	146		13	0	0.00	CHANTHA BURI	CTI-2	121		25	22.44	
NAKORN NAYOK -1	NYK -1	147	16	16	17	11.78	TRAT	TRT-1	122	13	6	2.64	
KHAO PHAENGMA -1	KPM -1	148	8	7	9	4.70	TRAT	TRT-2	123		5	2.28	
PRACHIN BURI -1	PRI -1	150	16	8	10	5.52	KHLUNG	KEG-1	124	16	17	14.76	
ARANYAPRATHET -1	APT -1	151	8	6	7	3.22	BAN CHANG	BCO-1	128	16	17	13	7.32
SAMUT SAKHON -1	SKN -1	160	24	15	13	8.33							

3- 13 MTX~Base Station Traffic (3/2)

MTX 04

Exchange office name	Unit name	Unit code	Number of Circuits				Exchange office name	Unit name	Unit code	Number of Circuits			
			Plan	Installed Circuit	Required					Plan	Installed Circuit	Required	
					Circuit	Traffic						Circuit	Traffic
UDON THANI -1	UDN -1	420	32	17	13	8.23	CHUM PHAE	CPE	436	16	12	5	1.70
SAWANG DAEN DIN -1	SDD -1	422	8	6	1	0.02	ROIET -1	RET -1	437	8	9	5	1.78
SAKHON NAKHON -1	SNK -1	423	8	9	5	1.85	NAKHON RATCHSIMA -1	NMA -1	440	48	24	13	8.76
MUKDAHAN -1	MDM -1	424	8	9	4	0.94	NAKHON RATCHSIMA -2	NMA -2	441		24	19	13.94
NAKHON PHANOM -1	NPM -1	425	8	9	4	1.51	KHAO YAI THIANG -1	KYTR -1	442	8	9	12	7.15
NONG KHAI -1	NKI -1	426	8	9	7	3.29	HUAIN THALAENG -1	HITLR -1	443	8	6	3	0.70
PHU PUA SAT -1	PPS -1	427	9	9	7	3.02	BURI RAM -1	BRM -1	444	16	13	6	2.64
LOEI -1	LET -1	428	8	9	3	0.70	KHONG -1	KHN -1	445	8	9	6	2.74
KHON KAEN -21	KKN21	430	48	17	14	9.31	CHAI YAPHUM	CPM	446	8	6	4	1.39
KHON KAEN -22	KKN22	431		7	9	4.66	SRN -1	SRN -1	448	16	9	8	4.15
BAN HUAI YANG -1	BHG -1	432	8	9	6	2.35	UBON RATCHATHANI -1	UBN -1	450	32	30	18	12.89
MAHA SARAKHAM -1	MHM -1	433	16	34	3	0.53	SI SA KET -1	SSK -1	453	16	12	6	2.38
SELAPHUM -1	SIM -1	434	16	9	2	0.10	AMNAT CHAROEN -1	AMN -1	454	8	9	4	1.13
KALASIN -1	KLN -1	435	8	6	6	2.52	YASOTHON	YST	455	8	9	6	2.33

MTX 05

Exchange office name	Unit name	Unit code	Number of Circuits				Exchange office name	Unit name	Unit code	Number of Circuits			
			Plan	Installed Circuit	Required					Plan	Installed Circuit	Required	
					Circuit	Traffic						Circuit	Traffic
DOI MON PA KOI -1	DMP1	515	9	9	5	1.97	MAE SAI -1	MS11	548	16	9	9	4.92
LAM PHUN -1	LPN1	516	16	17	19	13.90	NAN -1	NAN1	549	8	9	3	0.79
PIRAE	PR1	517	16	9	5	2.09	PHIT SANULOK -1	PLK (R)	550	32	30	12	7.51
CHIANG MAI -31	CM131	530	88	30	22	17.04	KAMPHAENG PHET -1	KPT	552	24	22	12	7.80
CHIANG MAI -33	CM133	532		25	28	22.80	KHAO -1010	K101	553	8	9	3	0.43
CHIANG MAI -21	CM121	533	88	13	7	3.43	SUKHO THAI -1	SRT1	554	16	9	5	1.92
CHIANG MAI -22	CM122	534		30	8	4.42	UTTARADIT -1	UTD1	555	8	9	4	1.49
CHIANG MAI -23	CM123	535		30	8	4.22	FANG -1	FAG1	556	8	5	6	2.90
MAE HONG SON -1	MHN1	536	8	6	3	0.67	SAWANKHALOK -1	SLK1	557	8	9	5	1.73
CHIANG RAI -1	CR1	538	16	17	18	12.86	PHEICHABUN -1	PBN1	558	16	7	7	3.00
PHA YAO -1	PYO1	539	8	8	11	6.38	TAPHAN HIN -1	TPH1	559	16	6	6	2.28
LAM PANG (R)	LPG (R)	540	32	30	15	10.25	NAKHON SAWAN -1	NSNR1	560	48	17	18	12.89
DEN CHAI (R)	DC1	542	8	9	3	0.67	NAKHON SAWAN -2	NSNR2	561		13	14	8.90
MAE THAA (R)	MAT1	543	8	9	6	2.35	CHAI NAT -1	CNT -1	562	16	17	16	10.94
WEING PHA PHAO	WPP1	544	8	9	3	0.46	TAK	TAK1	570	16	9	6	2.69
MAE LA NOI	MLN1	547	8	6	0	0.00	MAE SOT -1	MSO1	571	8	9	6	2.26

MTX 07

Exchange office name	Unit name	Unit code	Number of Circuits				Exchange office name	Unit name	Unit code	Number of Circuits			
			Plan	Installed Circuit	Required					Plan	Installed Circuit	Required	
					Circuit	Traffic						Circuit	Traffic
YALAK -1	YLA1	730	8	9	8	3.84	THUNG SONG -1	TSGR1	753	16	8	8	4.34
NARATHIWAT -1	NWT1	731	16	18	6	2.26	SI CHON	SCNR1	754	8	9	6	2.30
SUKGAI KOLOK -1	SKL1	732	16	9	5	1.61	HUA SAI	HS1	755	8	9	10	6.14
BETONG	BTGR1	733	8	9	0	0.00	PHUKET -1	PKT (R)	760	56	33	25	19.22
PATTANI	PTN1	734	8	9	9	4.66	PHUKET -2	PKT(R)	761		25	20	15.02
HAT YAI -1	HY1 (R)	740	64	60	47	41.28	KHAO BAN BANG DUK -1	KBKR1	762	24	25	14	9.31
PHATTHALUNG	PLG1	742	16	12	3	0.67	SURAT THANI -1	SNI	770	32	33	35	28.99
SATUN -1	STN1	743	8	9	4	0.94	KHAO CHAI RAT -1	KCRR1	771	16	5	7	3.00
SATHINGPHRA	SPA1	745	16	17	6	2.90	CHUM PHON	CPN1	772	16	11	10	5.45
LANOU	LGU1	746	8	9	3	0.58	RANONG -1	RNGR1	773	16	15	8	4.37
NAKHON SI THAMMARAT	NRTT1	750	16	17	13	8.76	LAMAE -1	LME1	774	8	5	4	1.37
TRANG -1	TRG1	751	16	17	9	5.11	WING SA -1	WSA1	775	8	9	9	4.75
KRABI -1	KB1	752	16	12	9	5.09	KO SAMUI -1	KOSR1	776	16	17	7	3.53

3-14 Call Period Observations in the Morning on May 12, 1992 (1/6)

Unit	SRR4	HAM2	SRW4	BKE	CSW2	PKK	PNC	PTW2	LTP1	Total	%	Cumulative FQ %
Call Type: Total												
1	11	2	16	11	6	16	13	13	5	13	93	1.03
2	39	22	38	35	24	30	27	27	32	32	279	3.10
3	88	62	64	66	71	70	66	66	79	59	625	6.94
4	69	82	71	95	90	92	79	79	69	69	716	7.96
5	80	72	58	59	90	76	75	75	54	60	624	6.93
6	63	85	83	87	71	51	55	55	72	66	633	7.03
7	63	60	67	51	46	53	69	69	67	48	524	5.82
8	54	51	57	53	47	66	47	47	56	50	481	5.34
9	54	53	49	53	44	45	54	54	56	58	466	5.18
10	43	42	29	35	38	36	48	48	48	53	372	4.13
11	42	38	34	35	36	30	30	30	43	47	335	3.72
12	24	29	40	32	32	42	42	42	33	41	315	3.50
13	35	29	27	18	34	35	26	26	32	24	260	2.89
14	23	26	23	27	21	19	21	21	23	34	217	2.41
15	20	24	28	18	34	31	24	24	29	19	227	2.52
16	25	22	23	22	27	22	14	14	29	23	207	2.30
17	20	13	17	21	17	17	23	23	26	18	172	1.91
18	20	15	15	17	15	15	16	16	18	20	151	1.68
19	18	18	15	16	16	10	10	10	15	13	131	1.46
20	21	11	18	21	28	20	20	20	18	8	165	1.83
21	13	13	17	26	13	7	12	12	11	25	137	1.52
22	11	16	12	14	17	10	11	11	12	17	120	1.33
23	6	13	5	12	11	4	9	9	11	7	78	0.87
24	8	8	9	9	7	11	9	9	11	15	87	0.97
25	9	13	9	6	10	9	13	13	12	6	87	0.97
26	7	11	6	7	7	7	12	12	8	11	76	0.84
27	8	7	5	8	7	16	8	8	3	10	72	0.80
28	6	8	7	7	6	7	8	8	10	6	65	0.72
29	6	4	12	6	3	11	10	10	7	6	65	0.72
30	7	5	8	11	6	4	5	5	6	4	56	0.62
31	3	5	7	7	12	5	6	6	11	6	62	0.69
32	3	2	6	5	6	6	6	6	11	4	49	0.54
33	4	6	5	6	7	8	5	5	0	8	49	0.54
34	5	3	6	5	5	5	6	6	4	2	42	0.47
												8,038
												89.31

3-14 Call Period Observations in the Morning on May 12, 1992 (2/6)

Unit	SRR4	HAM2	SRW4	BKE	CSW2	PKK	PNC	PTW2	LTP1	Total	%	Cumulative FQ %		
35	5	5	4	4	7	5	4	8	7	6	51	0.57	8,089	89.88
36	4	4	5	5	5	3	3	1	1	7	33	0.37	8,122	90.24
37	2	4	3	3	4	6	8	5	1	1	34	0.38	8,156	90.62
38	5	8	4	4	3	5	5	2	3	4	39	0.43	8,195	91.06
39	4	6	7	7	6	2	8	1	2	7	43	0.48	8,238	91.53
40	7	4	4	4	1	3	5	4	2	4	34	0.38	8,272	91.91
41	2	2	4	4	2	2	4	4	5	4	29	0.32	8,301	92.23
42	2	4	4	4	4	1	1	4	2	5	27	0.30	8,328	92.53
43	3	0	3	3	7	2	3	3	3	3	27	0.30	8,355	92.83
44	4	2	2	2	3	1	3	3	0	2	20	0.22	8,375	93.06
45	0	3	3	1	2	1	1	2	1	6	17	0.19	8,392	93.24
46	2	3	4	4	3	3	2	4	3	1	25	0.28	8,417	93.52
47	3	5	2	2	2	0	4	3	3	4	26	0.29	8,443	93.81
48	0	0	1	1	2	4	5	2	2	1	17	0.19	8,460	94.00
49	4	2	3	3	0	1	2	2	1	0	15	0.17	8,475	94.17
50	0	2	2	2	1	1	2	1	1	2	12	0.13	8,487	94.30
51	2	4	2	2	2	1	2	2	1	2	18	0.20	8,505	94.50
52	0	1	2	2	0	1	1	3	1	5	14	0.16	8,519	94.66
53	5	0	2	2	1	1	2	3	2	2	18	0.20	8,537	94.86
54	0	2	1	1	1	0	1	2	0	3	10	0.11	8,547	94.97
55	2	3	1	1	2	1	2	3	4	1	19	0.21	8,566	95.18
56	3	2	1	1	0	3	5	3	0	1	18	0.20	8,584	95.38
57	1	1	3	3	3	1	3	3	3	4	22	0.24	8,606	95.62
58	2	3	0	0	1	1	0	1	1	0	9	0.10	8,615	95.72
59	1	2	4	4	0	2	1	3	1	1	15	0.17	8,630	95.89
60	1	4	2	2	2	1	2	3	1	2	18	0.20	8,648	96.09
61	5	8	7	7	5	7	5	9	8	7	61	0.68	8,709	96.77
62	0	6	5	5	4	3	6	5	3	5	37	0.41	8,746	97.18
63	3	7	7	7	7	2	3	4	1	3	37	0.41	8,783	97.59
64	2	5	7	7	1	2	3	4	2	3	29	0.32	8,812	97.91
65	1	5	4	4	1	4	3	1	0	4	23	0.26	8,835	98.17
66	3	0	0	0	1	2	2	2	3	1	14	0.16	8,849	98.32
67	4	1	4	4	5	3	1	2	3	3	26	0.29	8,875	98.61
68 over00:17:00	10	22	9	9	11	21	11	19	8	14	125	1.39	9,000	100.00
		1000	1000	1000	1000	1000	1000	1000	1000	1000	9000	100.0		

3-14 Call Period Observations in the Morning on May 12, 1992 (3/6)

Unit	SRR4	HAM2	SRW4	BKE	CSW2	PKK	PNC	FTW2	LTP1	Total	%	Cumulative FQ%
Call Type: Trunk Call												
1	0	0	0	0	0	0	0	0	0	0	0.00%	0
2	3	0	1	1	0	0	0	1	0	6	1.56%	6
3	4	2	2	1	3	3	3	1	2	20	5.21%	26
4	1	2	5	2	2	1	2	2	5	21	5.47%	47
5	9	6	6	2	4	1	4	4	2	38	9.90%	85
6	2	7	4	6	5	3	3	3	3	36	9.38%	121
7	4	2	6	5	5	2	5	5	3	32	8.33%	153
8	5	4	1	0	1	5	0	0	3	19	4.95%	172
9	6	0	3	2	2	1	4	4	2	25	6.51%	197
10	3	2	2	2	2	1	2	0	3	16	4.17%	213
11	1	2	2	1	1	2	2	1	1	15	3.91%	228
12	2	0	2	2	1	1	1	1	4	15	3.91%	243
13	4	3	1	1	1	1	2	1	1	15	3.91%	258
14	1	0	1	3	0	1	1	3	1	11	2.86%	269
15	0	0	2	0	0	4	0	1	4	12	3.13%	281
16	2	0	0	0	0	0	3	1	3	9	2.34%	290
17	2	1	0	2	2	1	0	1	0	9	2.34%	299
18	0	2	1	1	1	2	1	1	0	8	2.08%	307
19	0	0	0	0	1	1	0	0	1	5	1.30%	312
20	0	0	0	1	0	0	0	1	0	2	0.52%	314
21	0	2	2	0	0	0	0	1	0	8	2.08%	322
22	1	1	0	2	1	1	0	1	2	8	2.08%	330
23	0	0	0	0	2	0	0	0	0	2	0.52%	332
24	1	0	0	0	0	0	0	0	0	1	0.26%	333
25	1	1	0	0	0	0	0	0	0	2	0.52%	335
26	1	0	0	0	0	0	0	0	1	2	0.52%	337
27	0	0	0	0	0	0	0	1	1	4	1.04%	341
28	0	0	0	0	0	0	1	1	1	3	0.78%	344
29	0	0	0	0	0	1	0	0	0	1	0.26%	345
30	2	0	0	0	1	0	0	0	0	3	0.78%	348
31	0	0	0	0	0	1	1	0	2	5	1.30%	353
32	0	0	0	0	0	0	0	0	0	0	0.00%	353
33	1	0	0	0	0	0	0	0	0	1	0.26%	354
34	1	0	0	0	0	0	0	0	0	1	0.26%	355

3-14 Call Period Observations in the Morning on May 12, 1992 (4/6)

Unit	SRR4	HAM2	SRW4	BKE	CSW2	PKK	PNC	PTW2	LTP1	Total	%	Cumulative FQ %
35	1	1	0	0	0	1	0	1	1	0	5	1.30%
36	0	0	0	0	0	0	0	0	0	0	0	93.75%
37	0	0	0	0	0	0	0	0	0	0	0	93.75%
38	0	0	0	0	0	0	0	0	0	0	0	93.75%
39	0	0	0	0	0	0	0	0	0	1	1	94.01%
40	0	0	0	0	0	1	0	0	0	0	1	94.27%
41	0	0	0	1	0	0	0	0	1	0	2	94.79%
42	0	0	0	1	0	0	0	0	0	0	1	95.05%
43	1	0	0	0	0	0	0	0	0	0	1	95.31%
44	0	0	0	0	1	0	1	0	0	0	2	95.83%
45	0	0	0	0	0	0	0	1	0	0	1	95.09%
46	0	0	0	0	0	0	0	0	0	0	0	96.09%
47	0	0	0	0	0	0	0	0	0	1	1	96.35%
48	0	0	0	0	0	0	0	0	0	0	0	96.35%
49	0	0	0	1	0	0	0	0	0	0	1	96.61%
50	0	0	0	0	0	0	0	0	0	0	0	96.61%
51	0	0	0	0	1	0	0	0	0	0	1	96.88%
52	0	0	0	0	0	0	0	0	0	0	0	96.88%
53	0	0	0	0	0	0	0	0	0	0	0	96.88%
54	0	0	0	0	0	0	0	0	0	0	0	96.88%
55	0	0	0	0	0	0	0	0	0	0	0	96.88%
56	0	0	0	0	0	0	0	0	0	0	0	96.88%
57	0	0	0	0	1	0	0	0	0	0	1	97.14%
58	0	0	0	0	0	0	0	0	0	0	0	97.14%
59	0	0	0	0	0	0	0	0	0	0	0	97.14%
60	0	0	0	0	0	0	1	0	0	0	1	97.40%
61	0	1	0	0	0	0	0	1	0	0	2	97.92%
62	0	1	0	0	0	0	0	0	0	0	1	98.18%
63	1	0	0	0	0	0	0	0	0	0	1	98.44%
64	0	0	0	0	0	0	0	0	0	0	0	98.44%
65	0	0	0	0	0	0	0	0	0	0	0	98.44%
66	0	0	0	0	0	0	0	0	1	0	1	98.70%
67	0	0	0	0	0	0	0	0	0	0	0	98.70%
68 over00:17:00	0	1	0	0	1	1	0	2	0	0	5	100.00%
Total	60	41	44	44	41	41	33	39	52	33	384	100.00%

3-14 Call Period Observations in the Morning on May 12, 1992 (5/6)

Unit	SRR4	HAM2	SRW4	IBKE	CSW2	IPKK	PNC	PTW2	LTP1	Total	%	Cumulative FQ %
1	0:0:10	9	7	15	8	5	16	12	4	12	88	1.08%
2	0:0:20	34	26	36	27	20	28	27	26	30	254	3.11%
3	0:0:30	75	59	56	52	62	58	51	68	46	527	6.45%
4	0:0:40	63	69	61	81	80	79	67	59	60	619	7.58%
5	0:0:50	68	69	48	52	79	67	61	48	50	542	6.64%
6	0:1:00	58	70	74	79	62	46	48	65	59	561	6.87%
7	0:1:10	55	52	57	46	38	49	62	62	47	468	5.73%
8	0:1:20	46	44	50	50	45	60	44	50	48	437	5.35%
9	0:1:30	49	48	42	51	40	43	47	51	55	426	5.22%
10	0:1:40	38	39	26	33	36	32	45	46	48	343	4.20%
11	0:1:50	40	33	30	32	33	28	24	40	45	305	3.73%
12	0:2:00	22	29	34	30	31	41	39	29	36	291	3.56%
13	0:2:10	30	28	26	17	33	32	25	29	22	242	2.96%
14	0:2:20	22	23	19	24	21	18	18	20	33	198	2.42%
15	0:2:30	21	22	24	18	30	27	22	25	18	207	2.53%
16	0:2:40	22	20	22	22	27	18	12	26	23	192	2.35%
17	0:2:50	18	11	16	19	15	17	19	26	16	157	1.92%
18	0:3:00	20	12	14	16	13	14	14	18	20	141	1.73%
19	0:3:10	18	17	14	15	14	9	10	14	11	122	1.49%
20	0:3:20	21	10	17	19	28	18	19	18	7	157	1.92%
21	0:3:30	13	13	14	26	13	7	10	11	22	129	1.58%
22	0:3:40	10	12	12	12	16	9	9	10	15	105	1.29%
23	0:3:50	6	14	5	10	11	4	8	11	6	75	0.92%
24	0:4:00	7	8	9	9	7	10	9	10	14	83	1.02%
25	0:4:10	8	12	9	6	10	9	13	12	6	85	1.04%
26	0:4:20	6	10	6	7	7	6	12	8	10	72	0.88%
27	0:4:30	8	6	5	7	7	16	7	2	8	66	0.81%
28	0:4:40	6	8	7	7	6	6	7	9	6	62	0.76%
29	0:4:50	6	4	11	6	2	11	10	7	6	63	0.77%
30	0:5:00	5	5	8	10	6	4	4	6	4	52	0.64%
31	0:5:10	3	5	7	7	11	4	6	9	5	57	0.70%
32	0:5:20	3	2	6	5	6	6	6	11	4	49	0.60%
33	0:5:30	3	6	5	6	7	8	5	0	8	48	0.59%
34	0:5:40	4	4	6	5	5	6	6	4	2	42	0.51%

3-14 Call Period Observations in the Morning on May 12, 1992 (6/6)

Unit	SRR4	HAM2	SRW4	BKE	CSW2	PKK	PNC	PTW2	LTP1	Total	%	Cumulative FQ%		
35	0:5:50	4	4	4	7	4	4	7	6	6	46	0.56%	7,311	89.53%
36	0:6:00	4	6	5	5	3	3	1	1	7	35	0.43%	7,346	89.96%
37	0:6:10	2	3	3	3	6	8	4	1	1	31	0.38%	7,377	90.34%
38	0:6:20	5	8	3	3	5	4	2	3	4	37	0.45%	7,414	90.79%
39	0:6:30	4	5	7	6	2	8	1	2	6	41	0.50%	7,455	91.29%
40	0:6:40	7	3	4	1	2	5	4	2	4	32	0.39%	7,487	91.69%
41	0:6:50	2	3	2	2	2	4	3	4	4	26	0.32%	7,513	92.00%
42	0:7:00	2	3	3	4	1	1	3	2	5	24	0.29%	7,537	92.30%
43	0:7:10	2	0	3	7	2	3	3	3	3	26	0.32%	7,563	92.62%
44	0:7:20	4	2	2	2	1	2	3	0	2	18	0.22%	7,581	92.84%
45	0:7:30	0	3	1	2	1	1	1	1	5	15	0.18%	7,596	93.02%
46	0:7:40	2	2	4	3	3	2	4	3	1	24	0.29%	7,620	93.31%
47	0:7:50	3	5	2	2	0	4	3	3	3	25	0.31%	7,645	93.62%
48	0:8:00	0	1	1	2	4	5	2	2	1	18	0.22%	7,663	93.84%
49	0:8:10	4	2	2	0	1	2	2	1	0	14	0.17%	7,677	94.01%
50	0:8:20	0	2	2	1	1	2	1	1	2	12	0.15%	7,689	94.16%
51	0:8:30	2	3	2	1	1	2	2	1	2	16	0.20%	7,705	94.35%
52	0:8:40	0	1	2	0	1	1	3	1	5	14	0.17%	7,719	94.53%
53	0:8:50	5	0	2	1	1	2	3	2	2	18	0.22%	7,737	94.75%
54	0:9:00	0	2	1	1	0	1	2	0	3	10	0.12%	7,747	94.87%
55	0:9:10	2	3	1	2	1	2	3	4	1	19	0.23%	7,766	95.10%
56	0:9:20	3	2	1	0	3	5	2	0	1	17	0.21%	7,783	95.31%
57	0:9:30	1	1	3	2	1	3	2	3	4	20	0.24%	7,803	95.55%
58	0:9:40	2	3	0	1	1	0	1	0	0	8	0.10%	7,811	95.65%
59	0:9:50	1	2	4	0	2	1	3	1	1	15	0.18%	7,826	95.84%
60	0:10:00	1	4	2	2	1	1	3	1	2	17	0.21%	7,843	96.04%
61	0:11:00	5	8	4	4	7	5	8	8	7	56	0.69%	7,899	96.73%
62	0:12:00	0	3	5	4	3	6	5	3	5	34	0.42%	7,933	97.15%
63	0:13:00	2	5	7	7	2	3	4	1	3	34	0.42%	7,967	97.56%
64	0:14:00	2	4	7	1	2	3	4	2	3	28	0.34%	7,995	97.91%
65	0:15:00	1	5	4	1	4	3	1	0	4	23	0.28%	8,018	98.19%
66	0:16:00	3	0	0	1	2	2	2	2	1	13	0.16%	8,031	98.35%
67	0:17:00	4	1	4	5	3	1	2	3	2	25	0.31%	8,056	98.65%
68 over00:17:00		8	19	6	10	20	11	14	8	14	110	1.35%	8,166	100.00%
Total		904	915	894	907	919	916	886	909	916	8166	100.00%		

ANNEX

CHAPTER 5 PROJECT EVALUATION

5-1 Calculation Procedure of Completed Calls by the Model (1/18)

Successful Call Ratio	Another New Calls generated by First Completed Call										Total	1992 Cumulative
	36.92%	1	2	3	4	5	6	7	8	9		
The 1st Effect												
Times	1	2	3	4	5	6	7	8	9	10		
Offered Calls (Original)	2,907,371,636											2,907,371,636
Offered Calls (Re-try)	1,650,588,754	832,961,046	367,805,784	139,208,460	43,906,767	11,078,661	2,096,546	264,503	16,685	16,685		3,047,927,204
Successful Calls	1,073,384,132	609,387,446	307,524,211	135,791,685	51,394,927	16,210,114	4,090,175	774,032	97,653	6,160		2,198,660,535
Unsuccessful Calls	1,833,987,504	1,041,201,307	525,436,835	232,014,100	87,813,533	27,696,652	6,988,486	1,322,514	166,850	10,525		3,756,638,305
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		
Abandoned Calls	183,998,750	208,240,261	157,631,050	92,805,640	43,906,767	16,617,991	4,891,940	1,058,011	150,165	10,525		708,711,101
Intended Re-try Calls	1,650,588,754	832,961,046	367,805,784	139,208,460	43,906,767	11,078,661	2,096,546	264,503	16,685	0		3,047,927,204
The 2nd Effect												
Times	1	2	3	4	5	6	7	8	9	10		
Offered Calls (Original)	219,866,053											219,866,053
Offered Calls (Re-try)	124,823,545	62,991,554	27,814,816	10,527,452	3,320,390	837,809	158,548	20,003	1,262	1,262		3,127,237,689
Successful Calls	81,173,225	46,084,103	23,256,103	9,886,672	3,886,672	1,225,868	309,314	58,535	7,385	466		3,278,422,583
Unsuccessful Calls	138,692,828	78,739,443	39,735,451	17,545,753	6,640,780	2,094,522	528,495	100,013	12,618	796		2,364,931,269
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		
Abandoned Calls	13,869,283	15,747,889	11,920,635	7,018,301	3,320,390	1,256,713	369,946	80,011	11,356	796		762,306,421
Intended Re-try Calls	124,823,545	62,991,554	27,814,816	10,527,452	3,320,390	837,809	158,548	20,003	1,262	0		3,278,422,583
The 3rd Effect												
Times	1	2	3	4	5	6	7	8	9	10		
Offered Calls (Original)	16,627,073											16,627,073
Offered Calls (Re-try)	9,439,612	4,763,651	2,103,458	796,124	251,100	63,358	11,990	1,513	95	95		3,295,853,485
Successful Calls	6,138,616	3,485,048	1,758,711	776,584	293,924	92,705	23,391	4,427	558	35		2,377,505,268
Unsuccessful Calls	10,488,458	5,954,564	3,004,940	1,326,874	502,200	158,395	39,967	7,563	954	60		4,062,212,979
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		
Abandoned Calls	1,048,846	1,190,913	901,482	530,750	251,100	95,037	27,977	6,051	859	60		766,359,495
Intended Re-try Calls	9,439,612	4,763,651	2,103,458	796,124	251,100	63,358	11,990	1,513	95	0		3,295,853,485
The 4th Effect												
Times	1	2	3	4	5	6	7	8	9	10		
Offered Calls (Original)	1,257,400											1,257,400
Offered Calls (Re-try)	713,858	360,245	159,071	60,206	18,989	907	4,791	114	7	7		3,297,171,673
Successful Calls	464,225	263,552	133,000	58,728	22,228	7,011	1,769	335	42	3		2,378,456,160
Unsuccessful Calls	793,175	450,306	227,245	100,343	37,978	11,978	3,022	572	72	5		4,063,837,676
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		
Abandoned Calls	79,318	90,061	68,173	40,137	18,989	7,187	2,116	458	65	5		766,666,003
Intended Re-try Calls	713,858	360,245	159,071	60,206	18,989	4,791	907	114	7	0		1,318,188
												3,297,171,673

5-1 Calculation Procedure of Completed Calls by the Model (2/18)

Successful Call Ratio	36.92%	Another New Calls generated by First Completed Call										10%	1992	
The 5th Effect	1	2	3	4	5	6	7	8	9	10	Total	Cumulative		
Times	95,089										95,089	3,145,217,252		
Offered Calls (Original)	53,985	27,243	12,030	4,553	1,436	1,436	362	69	9	1	99,686	3,297,271,359		
Offered Calls (Re-try)	19,931	10,058	4,441	1,681	590	590	229	43	5	0	71,910	2,378,528,070		
Successful Calls	59,983	34,054	17,185	7,588	2,872	906	60%	80%	90%	100%	122,865	4,063,960,541		
Unsuccessful Calls	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		0		
Abandoned Call Ratio	5,998	6,811	5,156	3,035	1,436	544	160	35	5	0	23,179	766,689,182		
Abandoned Calls	53,985	27,243	12,030	4,553	1,436	362	69	9	1	0	99,686	3,297,271,359		
Intended Re-try Calls														
The 6th Effect														
Times	1	2	3	4	5	6	7	8	9	10	Total	Cumulative		
Offered Calls (Original)	7,191										7,191	3,145,224,443		
Offered Calls (Re-try)	4,083	2,060	910	344	109	109	27	5	1	0	7,539	3,297,278,898		
Successful Calls	2,655	1,507	761	336	127	40	10	2	0	0	5,438	2,378,533,508		
Unsuccessful Calls	4,536	2,575	1,300	574	217	69	17	3	0	0	9,292	4,063,969,833		
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		0		
Abandoned Calls	454	515	390	230	109	41	12	3	0	0	1,753	766,690,935		
Intended Re-try Calls	4,083	2,060	910	344	109	27	5	1	0	0	7,539	3,297,278,898		
The 7th Effect														
Times	1	2	3	4	5	6	7	8	9	10	Total	Cumulative		
Offered Calls (Original)	544										544	3,145,224,987		
Offered Calls (Re-try)	309	156	69	26	8	8	2	0	0	0	570	3,297,279,468		
Successful Calls	201	114	58	25	10	3	1	0	0	0	411	2,378,533,919		
Unsuccessful Calls	343	195	98	43	16	5	1	0	0	0	703	4,063,970,536		
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		0		
Abandoned Calls	34	39	29	17	8	3	1	0	0	0	133	766,691,068		
Intended Re-try Calls	309	156	69	26	8	2	0	0	0	0	570	3,297,279,468		
The 8th Effect														
Times	1	2	3	4	5	6	7	8	9	10	Total	Cumulative		
Offered Calls (Original)	41										41	3,145,225,028		
Offered Calls (Re-try)	23	12	5	2	1	1	0	0	0	0	43	3,297,279,511		
Successful Calls	15	9	4	2	1	0	0	0	0	0	31	2,378,533,950		
Unsuccessful Calls	26	15	7	3	1	0	0	0	0	0	53	4,063,970,589		
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		0		
Abandoned Calls	3	3	2	1	1	0	0	0	0	0	10	766,691,078		
Intended Re-try Calls	23	12	5	2	1	0	0	0	0	0	43	3,297,279,511		

5-1 Calculation Procedure of Completed Calls by the Model (3/18)

Successful Call Ratio	36.92%	Another New Calls generated by First Completed Call										10%	1992						
The 9th Effect																			
Times	1	2	3	4	5	6	7	8	9	10	Total	Cumulative							
Offered Calls (Original)	3											3	3,145,225,031						
Offered Calls (Re-try)												3	3,297,279,514						
Successful Calls	1	1	0	0	0	0	0	0	0	0		2	2,378,533,953						
Unsuccessful Calls	2	1	1	0	0	0	0	0	0	0		4	4,063,970,593						
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%			0						
Abandoned Calls	0	0	0	0	0	0	0	0	0	0		1	766,691,078						
Intended Re-try Calls	2	1	0	0	0	0	0	0	0	0		3	3,297,279,514						
The 10th Effect																			
Times	1	2	3	4	5	6	7	8	9	10	Total	Cumulative							
Offered Calls (Original)	0											0	3,145,225,031						
Offered Calls (Re-try)												0	3,297,279,515						
Successful Calls	0	0	0	0	0	0	0	0	0	0		0	2,378,533,953						
Unsuccessful Calls	0	0	0	0	0	0	0	0	0	0		0	4,063,970,593						
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%			0						
Abandoned Calls	0	0	0	0	0	0	0	0	0	0		0	766,691,078						
Intended Re-try Calls	0	0	0	0	0	0	0	0	0	0		0	3,297,279,515						

5-1 Calculation Procedure of Completed Calls by the Model (4/18)

The 1st Effect		1	2	3	4	5	6	7	8	9	10	Total	Cumulative
Times													
Offered Calls (Original)	2,907,371,636											2,907,371,636	2,907,371,636
Offered Calls (Re-try)		1,449,745,206	642,584,567	249,216,592	249,216,592	82,847,008	22,950,675	5,086,325	845,423	93,681	5,190	2,453,374,667	2,453,374,667
Successful Calls	1,296,543,629	646,514,497	286,560,864	111,138,246	111,138,246	36,945,659	10,234,863	2,268,249	377,017	41,777	2,315	2,390,627,115	2,390,627,115
Unsuccessful Calls	1,610,828,007	803,230,709	356,023,704	138,078,346	138,078,346	45,901,349	12,715,811	2,818,076	468,406	51,904	2,876	2,970,119,187	2,970,119,187
Abandoned Call Ratio	10%	20%	30%	40%	40%	50%	60%	70%	80%	90%	100%		0
Abandoned Calls	161,082,801	160,646,142	106,807,111	55,231,338	55,231,338	22,950,675	7,629,487	1,972,653	374,725	46,714	2,876	516,744,521	516,744,521
Intended Re-try Calls	1,449,745,206	642,584,567	249,216,592	82,847,008	82,847,008	22,950,675	5,086,325	845,423	93,681	5,190	0	2,453,374,667	2,453,374,667
The 2nd Effect													
Times													
Offered Calls (Original)	239,062,712											239,062,712	3,146,434,348
Offered Calls (Re-try)		119,207,333	52,837,418	20,492,184	20,492,184	6,812,211	1,887,151	418,230	69,516	7,703	427	201,732,174	2,655,106,840
Successful Calls	106,610,119	53,160,562	23,562,869	9,138,498	9,138,498	3,037,909	841,576	186,510	31,001	3,435	190	196,572,668	2,587,199,784
Unsuccessful Calls	132,452,593	66,046,772	29,274,548	11,353,686	11,353,686	3,774,303	1,045,575	231,720	38,515	4,268	236	244,222,217	3,214,341,404
Abandoned Call Ratio	10%	20%	30%	40%	40%	50%	60%	70%	80%	90%	100%		0
Abandoned Calls	13,245,259	13,209,354	8,782,365	4,341,474	4,341,474	1,887,151	627,345	162,204	30,812	3,841	236	42,490,043	559,234,564
Intended Re-try Calls	119,207,333	52,837,418	20,492,184	6,812,211	6,812,211	1,887,151	418,230	69,516	7,703	427	0	201,732,174	2,655,106,840
The 3rd Effect													
Times													
Offered Calls (Original)	19,657,267											19,657,267	3,166,091,614
Offered Calls (Re-try)		9,801,990	4,344,631	1,684,999	1,684,999	560,144	155,174	34,390	5,716	633	35	16,587,711	2,671,694,551
Successful Calls	8,766,167	4,371,202	1,937,490	751,426	751,426	249,796	69,200	15,336	2,549	282	16	16,163,463	2,603,363,247
Unsuccessful Calls	10,891,100	5,430,788	2,407,141	933,573	933,573	310,347	85,974	19,054	3,167	351	19	20,081,514	3,234,422,919
Abandoned Call Ratio	10%	20%	30%	40%	40%	50%	60%	70%	80%	90%	100%		0
Abandoned Calls	1,089,110	1,086,158	722,142	373,429	373,429	155,174	51,584	13,337	2,534	316	19	3,493,803	562,728,367
Intended Re-try Calls	9,801,990	4,344,631	1,684,999	560,144	560,144	155,174	34,390	5,716	633	35	0	16,587,711	2,671,694,551
The 4th Effect													
Times													
Offered Calls (Original)	1,616,346											1,616,346	3,167,707,961
Offered Calls (Re-try)		805,982	357,243	138,551	138,551	46,059	12,759	2,828	470	52	3	1,363,948	2,673,058,499
Successful Calls	720,810	359,428	159,313	61,787	61,787	20,540	5,690	1,261	210	23	1	1,329,063	2,604,692,311
Unsuccessful Calls	895,536	446,554	197,931	76,764	76,764	25,519	7,069	1,567	260	29	2	1,651,231	3,236,074,149
Abandoned Call Ratio	10%	20%	30%	40%	40%	50%	60%	70%	80%	90%	100%		0
Abandoned Calls	89,554	89,311	59,379	30,706	30,706	12,759	4,242	1,097	208	26	2	287,283	563,015,650
Intended Re-try Calls	805,982	357,243	138,551	46,059	46,059	12,759	2,828	470	52	3	0	1,363,948	2,673,058,499

5-1 Calculation Procedure of Completed Calls by the Model (5/18)

The 5th Effect											
Times	1	2	3	4	5	6	7	8	9	10	
Offered Calls (Original)	132,906										132,906
Offered Calls (Re-try)		66,273	29,375	11,393	3,787	1,049	233	39	4	0	112,153
Successful Calls	59,270	29,554	13,100	5,081	1,689	468	104	17	2	0	109,284
Unsuccessful Calls	73,637	36,719	16,275	6,312	2,098	581	129	21	2	0	135,775
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
Abandoned Calls	7,364	7,344	4,883	2,525	1,049	349	90	17	2	0	23,622
Intended Re-try Calls	66,273	29,375	11,393	3,787	1,049	233	39	4	0	0	112,153
											563,039,272
											112,153
											2,673,170,652
The 6th Effect											
Times	1	2	3	4	5	6	7	8	9	10	
Offered Calls (Original)	10,928										10,928
Offered Calls (Re-try)		5,449	2,415	937	311	86	19	3	0	0	9,222
Successful Calls	4,874	2,430	1,077	418	139	38	9	1	0	0	8,986
Unsuccessful Calls	6,055	3,019	1,338	519	173	48	11	2	0	0	11,164
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
Abandoned Calls	605	604	401	208	86	29	7	1	0	0	1,942
Intended Re-try Calls	5,449	2,415	937	311	86	19	3	0	0	0	9,222
											563,041,215
											9,222
											2,673,179,874
The 7th Effect											
Times	1	2	3	4	5	6	7	8	9	10	
Offered Calls (Original)	899										899
Offered Calls (Re-try)		448	199	77	26	7	2	0	0	0	758
Successful Calls	401	200	89	34	11	3	1	0	0	0	739
Unsuccessful Calls	498	248	110	43	14	4	1	0	0	0	918
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
Abandoned Calls	50	50	33	17	7	2	1	0	0	0	160
Intended Re-try Calls	448	199	77	26	7	2	0	0	0	0	758
											563,041,374
											758
											2,673,180,632
The 8th Effect											
Times	1	2	3	4	5	6	7	8	9	10	
Offered Calls (Original)	74										74
Offered Calls (Re-try)		37	16	6	2	1	0	0	0	0	62
Successful Calls	33	16	7	3	1	0	0	0	0	0	61
Unsuccessful Calls	41	20	9	4	1	0	0	0	0	0	75
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
Abandoned Calls	4	4	3	1	1	0	0	0	0	0	13
Intended Re-try Calls	37	16	6	2	1	0	0	0	0	0	62
											563,041,388
											62
											2,673,180,694

5-1 Calculation Procedure of Completed Calls by the Model (6/18)

The 9th Effect											
Times	1	2	3	4	5	6	7	8	9	10	
Offered Calls (Original)	6									6	3,167,852,774
Offered Calls (Re-try)	3	1	1	1	0	0	0	0	0	5	2,673,180,699
Successful Calls	3	1	1	0	0	0	0	0	0	5	2,604,811,385
Unsuccessful Calls	3	2	1	0	0	0	0	0	0	6	3,236,222,088
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
Abandoned Calls	0	0	0	0	0	0	0	0	0	1	563,041,389
Intended Re-try Calls	3	1	1	0	0	0	0	0	0	5	2,673,180,699
The 10th Effect											
Times	1	2	3	4	5	6	7	8	9	10	
Offered Calls (Original)	0									0	3,167,852,775
Offered Calls (Re-try)	0	0	0	0	0	0	0	0	0	0	2,673,180,700
Successful Calls	0	0	0	0	0	0	0	0	0	0	2,604,811,386
Unsuccessful Calls	0	0	0	0	0	0	0	0	0	1	3,236,222,089
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
Abandoned Calls	0	0	0	0	0	0	0	0	0	0	563,041,389
Intended Re-try Calls	0	0	0	0	0	0	0	0	0	0	2,673,180,700

5-1 Calculation Procedure of Completed Calls by the Model (7/18)

Successful Call Ratio	Another New Call generated by First Completed Call										Total	1994 Cumulative	
	52.27%	1	2	3	4	5	6	7	8	9			10
The 1st Effect													
Times	1	2	3	4	5	6	7	8	9	10			
Offered Calls (Original)	2,907,371,636											2,907,371,636	
Offered Calls (Re-try)	1,248,901,658	476,873,746	159,325,994	45,627,121	10,888,756	2,078,851	297,666	28,415	1,356	1,944,023,564		1,944,023,564	
Successful Calls	1,519,703,127	652,809,476	249,265,183	83,280,792	23,849,610	5,691,627	1,086,630	155,592	14,853	2,535,857,598		2,535,857,598	
Unsuccessful Calls	1,387,668,509	596,092,182	227,608,563	76,045,202	21,777,512	5,197,128	992,221	142,074	13,562	2,315,537,602		2,315,537,602	
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		0	
Abandoned Calls	138,766,851	119,218,436	68,282,569	30,418,081	10,888,756	3,118,277	694,555	113,659	12,206	371,514,038		371,514,038	
Intended Re-try Calls	1,248,901,658	476,873,746	159,325,994	45,627,121	10,888,756	2,078,851	297,666	28,415	1,356	1,944,023,564		1,944,023,564	
The 2nd Effect													
Times	1	2	3	4	5	6	7	8	9	10			
Offered Calls (Original)	253,585,760											253,585,760	
Offered Calls (Re-try)	108,931,267	41,593,716	13,896,677	3,979,673	949,735	181,321	25,963	2,478	118	169,560,949		2,113,584,513	
Successful Calls	132,551,019	56,939,122	21,741,321	7,263,888	2,080,202	496,433	94,778	13,571	1,295	221,181,691		2,757,039,290	
Unsuccessful Calls	121,034,741	51,992,145	19,852,395	6,632,788	1,899,471	453,302	86,543	12,392	1,183	201,965,017		2,517,502,619	
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		0	
Abandoned Calls	12,103,474	10,398,429	5,955,719	2,653,115	949,735	271,981	60,580	9,914	1,065	32,404,068		403,918,106	
Intended Re-try Calls	108,931,267	41,593,716	13,896,677	3,979,673	949,735	181,321	25,963	2,478	118	169,560,949		2,113,584,513	
The 3rd Effect													
Times	1	2	3	4	5	6	7	8	9	10			
Offered Calls (Original)	22,118,169											22,118,169	
Offered Calls (Re-try)	9,501,165	3,627,873	1,212,091	347,114	82,837	15,815	2,265	216	10	14,789,386		3,183,075,565	
Successful Calls	11,561,319	4,966,324	1,896,314	633,568	181,439	43,300	8,267	1,184	113	19,291,833		2,776,331,122	
Unsuccessful Calls	10,556,850	4,534,841	1,731,559	578,523	165,675	39,538	7,548	1,081	103	17,615,723		2,535,118,341	
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		0	
Abandoned Calls	1,055,685	906,968	519,468	231,409	82,837	23,723	5,284	865	93	2,826,336		406,744,442	
Intended Re-try Calls	9,501,165	3,627,873	1,212,091	347,114	82,837	15,815	2,265	216	10	14,789,386		2,128,373,899	
The 4th Effect													
Times	1	2	3	4	5	6	7	8	9	10			
Offered Calls (Original)	1,929,183											1,929,183	
Offered Calls (Re-try)	828,707	316,429	105,721	30,276	7,225	1,379	198	19	1	1,289,955		3,185,004,748	
Successful Calls	1,008,397	433,171	165,400	55,261	15,825	3,777	721	103	10	1,682,666		2,778,013,788	
Unsuccessful Calls	920,786	395,536	151,029	50,460	14,450	3,449	658	94	0	1,536,472		2,536,654,814	
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		0	
Abandoned Calls	92,079	79,107	45,309	20,184	7,225	2,069	461	75	8	246,518		406,990,960	
Intended Re-try Calls	828,707	316,429	105,721	30,276	7,225	1,379	198	19	1	1,289,955		2,129,663,854	

5-1 Calculation Procedure of Completed Calls by the Model (8/18)

Successful Call Ratio	52.27%	Another New Call generated by First Completed Call						10%	1994								
The 5th Effect		1	2	3	4	5	6	7	8	9	10						
Times	1		2	3	4	5	6	7	8	9	10						
Offered Calls (Original)	168,267		72,281	27,599	9,221	2,641	630	120	17	2	0			168,267	3,185,173,015		
Offered Calls (Re-try)		87,954	37,782	14,426	4,820	1,380	329	63	9	1	0			112,512	2,129,776,366		
Successful Calls		80,312	34,499	13,173	4,401	1,260	301	57	8	1	0			146,765	2,778,160,553		
Unsuccessful Calls		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%			134,014	2,536,788,828		
Abandoned Call Ratio																	
Abandoned Calls	8,031	6,900	3,952	1,760	630	180	40	7	1	0	0			21,502	407,012,462		
Intended Re-try Calls	72,281	27,599	9,221	2,641	630	120	17	2	0	0	0			112,512	2,129,776,366		
The 6th Effect																	
Times	1	2	3	4	5	6	7	8	9	10							
Offered Calls (Original)	14,676													14,676	3,185,187,691		
Offered Calls (Re-try)		6,304	2,407	804	230	55	10	2	0	0	0			9,813	2,129,786,179		
Successful Calls	7,672	3,295	1,258	420	120	29	5	1	0	0	0			12,801	2,778,173,354		
Unsuccessful Calls	7,005	3,009	1,149	384	110	26	5	1	0	0	0			11,689	2,536,800,516		
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%							
Abandoned Calls	700	602	345	154	55	16	4	1	0	0	0			1,875	407,014,337		
Intended Re-try Calls	6,304	2,407	804	230	55	10	2	0	0	0	0			9,813	2,129,786,179		
The 7th Effect																	
Times	1	2	3	4	5	6	7	8	9	10							
Offered Calls (Original)	1,280													1,280	3,185,188,971		
Offered Calls (Re-try)		550	210	70	20	5	1	0	0	0	0			856	2,129,787,035		
Successful Calls	669	287	110	37	11	3	0	0	0	0	0			1,117	2,778,174,471		
Unsuccessful Calls	611	262	100	33	10	2	0	0	0	0	0			1,020	2,536,801,536		
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%							
Abandoned Calls	61	52	30	13	5	1	0	0	0	0	0			164	407,014,501		
Intended Re-try Calls	550	210	70	20	5	1	0	0	0	0	0			856	2,129,787,035		
The 8th Effect																	
Times	1	2	3	4	5	6	7	8	9	10							
Offered Calls (Original)	112													112	3,185,189,083		
Offered Calls (Re-try)		48	18	6	2	0	0	0	0	0	0			75	2,129,787,110		
Successful Calls	58	25	10	3	1	0	0	0	0	0	0			97	2,778,174,568		
Unsuccessful Calls	53	23	9	3	1	0	0	0	0	0	0			89	2,536,801,625		
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%							
Abandoned Calls	5	5	3	1	0	0	0	0	0	0	0			14	407,014,515		
Intended Re-try Calls	48	18	6	2	0	0	0	0	0	0	0			75	2,129,787,110		

5-1 Calculation Procedure of Completed Calls by the Model (9/18)

Successful Call Ratio	52.27%									10%							1994
The 9th Effect																	
Times	1	2	3	4	5	6	7	8	9	10							
Offered Calls (Original)	10																3,185,189,093
Offered Calls (Re-try)		4	2	1	0	0	0	0	0	0							2,129,787,116
Successful Calls	5	2	1	0	0	0	0	0	0	0							8 2,778,174,576
Unsuccessful Calls	5	2	1	0	0	0	0	0	0	0							8 2,536,801,633
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%							0
Abandoned Calls	0	0	0	0	0	0	0	0	0	0							1 407,014,516
Intended Re-try Calls	4	2	1	0	0	0	0	0	0	0							7 2,129,787,116
The 10th Effect																	
Times	1	2	3	4	5	6	7	8	9	10							
Offered Calls (Original)	1																1 3,185,189,094
Offered Calls (Re-try)		0	0	0	0	0	0	0	0	0							1 2,129,787,117
Successful Calls	0	0	0	0	0	0	0	0	0	0							1 2,778,174,577
Unsuccessful Calls	0	0	0	0	0	0	0	0	0	0							1 2,536,801,633
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%							0
Abandoned Calls	0	0	0	0	0	0	0	0	0	0							0 407,014,517
Intended Re-try Calls	0	0	0	0	0	0	0	0	0	0							1 2,129,787,117

5-1 Calculation Procedure of Completed Calls by the Model (10/18)

Successful Call Ratio	59.95%	Another New Call generated by First Completed Call										10%	Total	1995
The 1st Effect	1	2	3	4	5	6	7	8	9	10			Cumulative	
Times														
Offered Calls (Original)	2,907,371,636												2,907,371,636	
Offered Calls (Re-try)	1,048,058,111	335,828,581	94,158,168	22,628,281	4,531,728	726,049	87,243	6,989	280	1,506,025,430			1,506,025,430	
Successful Calls	1,742,862,624	628,272,384	201,316,913	56,444,367	13,564,824	2,716,605	52,299	4,190	168	2,645,669,613			2,645,669,613	
Unsuccessful Calls	1,164,509,012	419,785,727	134,511,668	37,713,801	9,063,457	1,815,123	290,809	34,944	2,799	1,767,727,453			1,767,727,453	
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%			0	
Abandoned Calls	116,450,901	83,957,145	40,353,501	15,085,520	4,531,728	1,089,074	203,567	27,955	2,519	261,702,023			261,702,023	
Intended Re-try Calls	1,048,058,111	335,828,581	94,158,168	22,628,281	4,531,728	726,049	87,243	6,989	280	1,506,025,430			1,506,025,430	
The 2nd Effect														
Times	1	2	3	4	5	6	7	8	9	10				
Offered Calls (Original)	264,566,961												264,566,961	
Offered Calls (Re-try)	158,598,186	95,371,897	30,559,955	8,568,268	2,059,144	412,381	66,070	7,939	636	25	137,046,316		1,643,071,746	
Successful Calls	105,968,775	38,199,944	12,240,383	3,431,906	824,763	165,174	26,463	3,180	255	10	160,860,853		2,886,422,037	
Unsuccessful Calls	52,629,411	57,171,953	18,319,572	5,136,363	1,234,381	247,207	39,606	4,759	381	15	240,752,424		2,886,422,037	
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%			0	
Abandoned Calls	10,596,877	7,639,989	3,672,115	1,372,762	412,381	99,104	18,524	2,544	229	10	23,814,537		285,516,560	
Intended Re-try Calls	95,371,897	30,559,955	8,568,268	2,059,144	412,381	66,070	7,939	636	25	0	137,046,316		1,643,071,746	
The 3rd Effect														
Times	1	2	3	4	5	6	7	8	9	10				
Offered Calls (Original)	24,075,242												24,075,242	
Offered Calls (Re-try)	14,432,225	8,678,716	2,780,915	779,701	187,379	37,526	6,012	722	58	2	12,471,033		3,196,013,840	
Successful Calls	9,643,018	3,476,144	1,113,859	312,299	75,052	15,031	2,408	289	23	1	14,638,124		1,655,542,779	
Unsuccessful Calls	4,789,207	5,202,572	1,667,057	467,402	112,327	22,496	3,604	433	35	1	21,908,151		2,908,330,189	
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%			0	
Abandoned Calls	964,302	695,229	334,158	124,920	37,526	9,018	1,686	231	21	1	2,167,091		287,683,651	
Intended Re-try Calls	8,678,716	2,780,915	779,701	187,379	37,526	6,012	722	58	2	0	12,471,033		1,655,542,779	
The 4th Effect														
Times	1	2	3	4	5	6	7	8	9	10				
Offered Calls (Original)	2,190,815												2,190,815	
Offered Calls (Re-try)	1,313,313	789,752	253,060	70,952	17,051	3,415	547	66	5	0	1,134,847		3,198,204,655	
Successful Calls	877,502	473,427	151,700	42,553	10,222	2,047	328	39	3	0	1,993,613		2,910,323,801	
Unsuccessful Calls	445,811	316,325	101,360	28,419	6,830	1,368	219	26	2	0	1,332,050		1,944,558,480	
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%			0	
Abandoned Calls	87,750	63,265	30,408	11,368	3,415	821	153	21	2	0	197,202		287,880,854	
Intended Re-try Calls	789,752	253,060	70,952	17,051	3,415	547	66	5	0	0	1,134,847		1,656,677,626	