表 6.5.1 - 2　2005 - 2010年間の年次別整備計画及び計画後の変電所の設備利用率

Provinces	Grid Substations	2005				2006								2007								2008								2009								2010			
		After Reinforcement				Before Reinforcement				After Reinforcement				Before Reinforcement				After Reinforcement				Before Reinforcement				After Reinforcement				Before Reinforcement				After Reinforcement				After Reinforcement			
		Trans. Cap. (MVA)	Peak Load (MW)	Peak Cap. (MVA)	Over Load (%)	Trans. Cap. (MVA)	Peak Load (MW)	Peak Cap. (MVA)	Over Load (%)	Trans. Cap. (MVA)	Peak Load (MW)	Peak Cap. (MVA)	Over Load (%)	Trans. Cap. (MVA)	Peak Load (MW)	Peak Cap. (MVA)	Over Load (%)	Trans. Cap. (MVA)	Peak Load (MW)	Peak Cap. (MVA)	Over Load (%)	Trans. Cap. (MVA)	Peak Load (MW)	Peak Cap. (MVA)	Over Load (%)	Trans. Cap. (MVA)	Peak Load (MW)	Peak Cap. (MVA)	Over Load (%)	Trans. Cap. (MVA)	Peak Load (MW)	Peak Cap. (MVA)	Over Load (%)	Trans. Cap. (MVA)	Peak Load (MW)	Peak Cap. (MVA)	Over Load (%)	Trans. Cap. (MVA)	Peak Load (MW)	Peak Cap. (MVA)	Over Load (%)
North Central	(1) Anuradhapura	63	32.3	35.9	57	63	34.9	38.8	62	63	34.9	38.8	62	63	37.8	42.0	67	63	33.8	37.6	60	63	36.2	40.2	64	63	36.2	40.2	64	63	39.1	43.4	69	63	39.1	43.4	69	63	42.3	47.0	75
	(2) Habarana	63	24.2	26.9	43	63	25.9	28.8	46	63	25.9	28.8	46	63	27.8	30.9	49	63	22.8	25.3	40	63	24.4	27.1	43	63	24.4	27.1	43	63	26.3	29.2	46	63	26.3	29.2	46	63	28.4	31.6	50
	(3) Polonnaruwa	32	14.4	16.0	50	32	15.5	17.2	54	32	15.5	17.2	54	32	16.8	18.7	58	32	19.2	21.3	67	32	20.5	22.8	71	32	20.5	22.8	71	32	22.1	24.6	77	32	22.1	24.6	77	32	23.8	26.4	83
Northern	(4) Chunnakam	70	49.7	55.2	79	70	53.4	59.3	85	70	53.4	59.3	85	70	57.2	63.6	91	91.5	57.9	64.3	70	91.5	60.9	67.7	74	91.5	60.9	67.7	74	91.5	64.0	71.1	78	91.5	63.9	71.0	78	91.5	67.2	74.7	82
	(5) Kilinochchi	20	9.9	11.0	55	20	10.8	12.0	60	20	10.8	12.0	60	20	11.7	13.0	65	20	11.8	13.1	66	20	12.6	14.0	70	20	12.6	14.0	70	20	13.3	14.8	74	20	13.2	14.7	73	20	13.9	15.4	77
	(6) Vavunia	10	6.8	7.6	76	10	7.4	8.2	82	10	7.3	8.1	81	10	8.0	8.9	89	20	8.1	9.0	45	20	8.6	9.6	48	20	8.6	9.6	48	20	9.3	10.3	52	20	9.3	10.3	52	20	10.0	11.1	56
Central	(7) Kiribathkumbura	94.5	36.5	40.6	43	94.5	38.4	42.7	45	94.5	38.4	42.7	45	94.5	40.5	45.0	48	94.5	41.0	45.6	48	94.5	42.8	47.6	50	94.5	42.8	47.6	50	94.5	45.2	50.2	53	94.5	45.1	50.1	53	94.5	47.7	53.0	56
	(8) Ukuwela	63	32.0	35.6	56	63	34.6	38.4	61	63	34.6	38.4	61	63	37.6	41.8	66	63	38.0	42.2	67	63	40.8	45.3	72	63	40.7	45.2	72	63	44.2	49.1	78	63	44.1	49.0	78	63	47.8	53.1	84
	(9) Rantembe	20	7.5	8.3	42	20	7.9	8.8	44	20	7.9	8.8	44	20	8.5	9.4	47	20	8.6	9.6	48	20	9.0	10.0	50	20	9.0	10.0	50	20	9.6	10.7	53	20	9.5	10.6	53	20	10.2	11.3	57
	(10) Nuwara Eliya	63	30.6	34.0	54	63	32.0	35.6	56	63	32.0	35.6	56	63	33.6	37.3	59	63	33.7	37.4	59	63	35.0	38.9	62	63	35.0	38.9	62	63	36.8	40.9	65	63	36.7	40.8	65	63	38.6	42.9	68
	(11) Wimalasurendra	63	18.2	20.2	32	63	22.9	25.4	40	63	22.9	25.4	40	63	19.8	22.0	35	63	20.0	22.2	35	63	20.7	23.0	37	63	20.7	23.0	37	63	21.6	24.0	38	63	21.6	24.0	38	63	22.6	25.1	40
	(12) Palekelle	63	21.9	24.3	39	63	23.8	26.4	42	63	23.8	26.4	42	63	25.6	28.4	45	63	25.9	28.8	46	63	27.5	30.6	49	63	27.5	30.6	49	63	29.5	32.8	52	63	29.5	32.8	52	63	31.7	35.2	56
North Western	(13) Kurunegala	63	30.8	34.2	54	63	33.1	36.8	58	63	33.1	36.8	58	63	35.6	39.6	63	63	36.1	40.1	64	63	38.4	42.7	68	63	38.4	42.7	68	63	41.3	45.9	73	63	41.2	45.8	73	63	44.4	49.3	78
	(14) Puttalam	63	33.3	37.0	59	63	36.5	40.6	64	63	36.5	40.6	64	63	40.1	44.6	71	63	40.6	45.1	72	63	44.1	49.0	78	63	44.1	49.0	78	63	48.4	53.8	85	63	48.4	53.8	85	63	48.9	54.3	86
	(15) Bolawatta	91.5	46.5	51.7	56	91.5	50.3	55.9	61	91.5	50.3	55.9	61	91.5	54.7	60.8	66	91.5	50.3	55.9	61	91.5	54.1	60.1	66	91.5	54.0	60.0	66	91.5	58.7	65.2	71	91.5	58.7	65.2	71	91.5	63.8	70.9	77
	(16) Chilaw	63	45.5	50.6	80	63	49.8	55.3	88	63	49.8	55.3	88	63	54.7	60.8	96	94.5	55.3	61.4	65	94.5	60.0	66.7	71	94.5	60.0	66.7	71	94.5	65.7	73.0	77	94.5	65.7	73.0	77	94.5	72.0	80.0	85
	(17) Kuliyapitiya	63	43.9	48.8	77	63	49.9	55.4	88	63	49.9	55.4	88	63	56.9	63.2	100	94.5	57.6	64.0	68	94.5	64.8	72.0	76	94.5	64.7	71.9	76	94.5	73.5	81.7	86	94.5	73.5	81.7	86	94.5	57.1	63.4	67
	(18) Pannala																																					63	34.3	38.1	60
Western-North	(19) Kotugoda	120	60.6	71.3	59	120	65.0	76.5	64	120	65.0	76.5	64	120	70.3	82.7	69	120	59.5	70.0	58	120	63.6	74.8	62	120	66.1	77.8	65	120	71.4	84.0	70	120	71.4	84.0	70	120	77.1	90.7	76
	(20) Sapugaskanda	122	87.7	103.2	85	122	96.9	114.0	94	122	77.7	91.4	75	122	86.3	101.5	84	122	87.4	102.8	85	122	95.9	112.8	93	122	87.4	102.8	85	122	96.7	113.8	94	122	82.6	97.2	80	122	91.6	107.8	89
	(21) Biyagama	120	72.4	85.2	71	120	81.3	95.6	80	120	81.2	95.5	80	120	91.6	107.8	90	120	85.0	100.0	83	120	94.6	111.3	93	120	68.4	80.5	67	120	76.7	90.2	75	120	76.6	90.1	75	120	85.9	101.1	84
	(22) Veyangoda	63	21.5	25.3	40	63	22.9	26.9	43	63	22.9	26.9	43	63	24.5	28.8	46	63	27.8	32.7	52	63	29.4	34.6	55	63	31.3	36.8	58	63	33.4	39.3	62	63	33.4	39.3	62	63	35.7	42.0	67
	(23) Aniyakanda	63	34.8	40.9	65	63	37.5	44.1	70	63	37.5	44.1	70	63	40.6	47.8	76	63	47.6	56.0	89	63	50.9	59.9	95	63	42.9	50.5	80	63	46.5	54.7	87	63	46.4	54.6	87	94.5	50.3	59.2	63
	(24) Kelaniya	126	82.7	97.3	77	126	92.5	108.8	86	126	92.4	108.7	86	126	103.9	122.2	97	126	95.2	112.0	89	126	105.9	124.6	99	126	93.2	109.6	87	126	104.7	123.2	98	189	104.6	123.1	65	189	117.5	138.2	73
	(25) Muthuragawella	63	40.9	48.1	76	63	45.5	53.5	85	94.5	45.5	53.5	57	94.5	50.8	59.8	63	94.5	70.4	82.8	88	94.5	77.5	91.2	96	94.5	69.0	81.2	86	94.5	76.7	90.2	95	126	76.6	90.1	72	126	80.1	94.2	75
	(26) Gonawala	94.5	50.5	59.4	63	94.5	56.7	66.7	71	94.5	63.4	74.6	79	94.5	71.5	84.1	89	94.5	68.5	80.6	85	94.5	76.3	89.8	95	94.5	63.5	74.7	79	94.5	71.4	84.0	89	94.5	71.3	83.9	89	126	85.2	100.2	80
	(27) Katana	63	29.9	33.2	53	63	31.7	35.2	56	63	31.7	35.2	56	63	33.7	37.4	59	63	46.1	51.2	81	63	48.4	53.8	85	63	48.4	53.8	85	63	51.5	57.2	91	94.5	51.5	57.2	61	94.5	54.7	60.8	64
	(28) Imbulgoda																									94.5	68.7	76.3	81	94.5	77.2	85.8	91	126	77.2	85.8	68	126	86.7	96.3	76
Eastern	(29) Trincomalee	63	23.4	26.0	41	63	24.8	27.6	44	63	24.8	27.6	44	63	26.5	29.4	47	63	26.8	29.8	47	63	28.2	31.3	50	63	28.1	31.2	50	63	30.0	33.3	53	63	29.9	33.2	53	63	31.9	35.4	56
	(30) Inginiyagala	30	0.6	0.7	2	30	0.6	0.7	2	30	0.6	0.7	2	30	0.7	0.8	3	30	2.5	2.8	9	30	2.6	2.9	10	30	2.6	2.9	10	30	2.8	3.1	10	30	2.8	3.1	10	30	2.9	3.2	11
	(31) Valaichchenai	63	8.9	9.9	16	63	9.4	10.4	17	63	9.4	10.4	17	63	10.1	11.2	18	63	13.0	14.4	23	63	13.7	15.2	24	63	13.6	15.1	24	63	14.6	16.2	26	63	14.5	16.1	26	63	15.5	17.2	27
	(32) Ampara	63	14.8	16.4	26	63	15.4	17.1	27	63	15.4	17.1	27	63	16.1	17.9	28	63	18.4	20.4	32	63	19.1	21.2	34	63	19.1	21.2	34	63	20.1	22.3	35	63	20.0	22.2	35	63	21.0	23.3	37
Western-South	(33) Ratmalana	123	76.0	89.4	73	123	83.5	98.2	80	123	73.9	86.9	71	123	81.7	96.1	78	123	82.7	97.3	79	123	90.1	106.0	86	123	90.0	105.9	86	123	99.1	116.6	95	123	83.0	97.6	79	123	91.3	107.4	87
	(34) Pannipitiya	123	66.6	78.4	64	123	71.9	84.6	69	123	66.7	78.5	64	123	72.2	84.9	69	123	73.1	86.0	70	123	78.2	92.0	75	123	78.2	92.0	75	123	84.9	99.9	81	123	84.8	99.8	81	123	92.2	108.5	88
	(35) O.D.S.S(Kolonnawa)	158	96.4	113.4	72	158	104.5	122.9	78	158	104.4	122.8	78	158	113.7	133.8	85	158	103.4	121.6	77	158	111.6	131.3	83	158	108.0	127.1	81	158	117.7	138.5	88	158	107.8	126.8	81	158	117.5	138.2	88
	(36) Matugama	94.5	17.1	20.1	21	94.5	18.3	21.5	23	94.5	18.3	21.5	23	94.5	19.7	23.2	25	94.5	21.7	25.5	27	94.5	23.1	27.2	29	94.5	23.1	27.2	29	94.5	24.8	29.2	31	94.5	22.0	25.9	27	94.5	13.9	16.4	17
	(37) Avissawella	63	27.0	31.8	50	63	29.2	34.4	55	63	29.2	34.4	55	63	31.8	37.4	59	63	38.6	45.4	72	63	41.8	49.2	78	63	39.8	46.8	74	63	43.6	51.3	81	63	43.2	50.8	81	63	43.5	51.2	81
	(38) Panadura	63	40.8	48.0	76	63	44.6	52.5	83	63	44.6	52.5	83	63	49.0	57.6	92	94.5	48.0	56.5	60	94.5	52.1	61.3	65	94.5	52.1	61.3	65	94.5	57.1	67.2	71	94.5	64.1	75.4	80	94.5	70.4	82.8	88
	(39) Sithawaka	63	19.8	23.3	37	63	22.0	25.9	41	63	22.0	25.9	41	63	24.6	28.9	46	63	18.7	22.0	35	63	20.6	24.2	38	63	20.6	24.2	38	63	22.9	26.9	43	63	22.9	26.9	43	63	25.4	29.9	47
	(40) Athurugiriya	63	30.9	36.4	58	63	33.2	39.1	62	63	47.5	55.9	89	63	51.4	60.5	96	94.5	52.0	61.2	65	94.5	55.6	65.4	69	94.5	55.6	65.4	69	94.5	60.3	70.9	75	94.5	60.2	70.8	75	94.5	65.3	76.8	81
	(41) Sri Jaya'pura	126	72.0	84.7	67	126	78.4	92.2	73	126	78.4	92.2	73	126	85.8	100.9	80	126	86.8	102.1	81	126	93.7	110.2	87	126	93.7	110.2	87	126	102.2	120.2	95	126	71.2	83.8	66	126	77.7	91.4	73
	(42) Dehiwala	126	88.9	104.6	83	126	99.7	117.3	93	126	75.8	89.2	71	126	82.0	96.5	77	126	83.0	97.6	77	126	88.8	104.5	83	126	88.8	104.5	83	126	96.0	112.9	90	189	95.9	112.8	60	189	103.8	122.1	65
	(43) Horana	63	20.0	23.5	37	63	21.7	24.1	38	63	21.6	25.4	40	63	23.5	26.1	41	63	25.1	29.5	47	63	26.9	31.6	50	63	26.9	31.6	50	63	29.2	32.4	51	63	29.1	34.2	54	63	31.6	37.2	59
	(44) Kesbewa									63	38.2	44.9	71	63	42.1	46.8	74	63	42.7	50.2	80	63	46.5	54.7	87	63	46.5	54.7	87	63	51.1	56.8	90	94.5	60.7	71.4	76	94.5	66.7	78.5	83
	(45) Angoda																																	94.5	57.0	67.1	71	94.5	62.1	73.1	77
Southern	(46) Galle	91.5	52.5	58.3	64	91.5	57.1	63.4	69	91.5	57.1	63.4	69	91.5	62.4	69.3	76	91.5	63.2	70.2	77	91.5	68.2	75.8	83	91.5	68.1	75.7	83	91.5	74.2	82.4	90	91.5	60.8	67.6	74	91.5	66.3	73.7	81
	(47) Deniyaya	30	21.1	23.4	78	30	22.6	25.1	84	30	22.6	25.1	84	30	24.3	27.0	90	30	20.1	22.3	74	30	21.3	23.7	79	30	21.3	23.7	79	30	28.1	31.2	104	30	22.9	25.4	85	46.5	24.6	27.3	59
	(48) Matara	63	40.8	45.3	72	63	43.2	48.0	76	63	43.2	48.0	76	63	46.0	51.1	81	63	49.3	54.8	87	63	51.9	57.7	92	94.5	51.9	57.7	61	94.5	55.3	61.4	65	94.5	55.3	61.4	65	94.5	58.9	65.4	69
	(49) New Galle	94.5	52.4	58.2	62	94.5	57.0	63.3	67	94.5	57.0	63.3	67	94.5	62.2	69.1	73	94.5	63.0	70.0	74	94.5	68.0	75.6	80	94.5	67.9	75.4	80	94.5	74.0	82.2	87	94.5	60.8	67.6	71	94.5	66.3	73.7	78
	(50) Ambalangoda	63	23.7	26.3	42	63	25.6	28.4	45	63	25.6	28.4	45	63	27.7	30.8	49	63	28.0	31.1	49	63	30.0	33.3	53	63	30.0	33.3	53	63	32.4	36.0	57	63	19.3	21.4	34	63	20.7	23.0	37
	(51) Hambantota	20	10.0	11.1	56	20	10.3	11.4	57	20	10.3	11.4	57	20	10.7	11.9	59	20	12.1	13.4	67	20	12.4	13.8	69	20	12.4	13.8	69	20	12.9	14.3	72	20	12.9	14.3	72	20	13.4	14.9	74
	(52) Boossa																																	63	42.6	47.3	75	63	47.4	52.7	84
Uva	(53) Badulla	94.5	28.0	31.1	33	94.5	29.5	32.8	35	94.5	29.5	32.8	35	94.5	31.3	34.8	37	94.5	32.7	36.3	38	94.5	34.2	38.0	40	94.5	34.2	38.0	40	94.5	36.2	40.2	43	94.5	36.2	40.2	43	94.5	38.3	42.6	45
	(54) Medagama	10	3.4	3.8	38	10	3.6	4.0	40	10	3.6	4.0	40	10	3.7	4.1	41	10	3.8	4.2	42	10	4.0	4.4	44	10	3.9	4.3	43	10	4.2	4.7	47	10	4.2	4.7	47	10	4.4	4.9	49
Sabaragamuwa	(55) Balangoda	63	12.5	13.9	22	63	13.2	14.7	23	63	13.2	14.7	23	63	14.0	15.6	25	63	14.2	15.8	25	63	14.7	16.3	26	63	14.7	16.3	26	63	15.5	17.2	27	63	15.5	17.2	27	63	16.4	18.2	29
	(56) Thulhiriya	94.5	48.4	53.8	57	94.5	54.0	60.0	63	94.5	54.0	60.0	63	94.5	60.0	66.7	71	94.5	46.0	51.1	54	94.5	50.5	56.1	59	94.5	50.5	56.1	59	94.5	56.0	62.2	66	94.5	56.0	62.2	66	94.5	60.0	66.7	71
	(57) Embilipitiya	63	7.0	7.8	12	63	7.3	8.1	13	63	7.3	8.1	13	63	7.7	8.6	14	63	7.9	8.8	14	63	8.2	9.1	14	63	8.2	9.1	14	63	8.6	9.6	15	63	8.6	9.6	15	63	9.0	10.0	16
	(58) Ratnapura	63	40.4	44.9	71	63	46.3	51.4	82	63	46.2	51.3	81	63	52.7	58.6	93	63	45.7	50.8	81	63	51.5	57.2	91	94.5	60.0	66.7	71	94.5	68.2	75.8	80	94.5	68.1	75.7	80	94.5	60.3	67.0	71
	(59) Kegalle	63	44.5	49.4	78	63	49.7	55.2	88	63	49.6	55.1	87	63	55.4	61.6	98	63	43.6	48.4	77	63	48.1	53.4	85	63	48.1	53.4	85	63	53.5	59.4	94	94.5	53.4	59.3	63	94.5	59.2	65.8	70
	(60) Aguruwella																	63	31.2	34.7	55	63	34.4	38.2	61	63	36.4	40.4	64	63	40.4	44.9	71	63	40.4	44.9	71	63	44.7	49.7	79
	(61) Eheliyagoda																																					63	30.2	33.6	53
Colombo	(62) Kelanitissa(KTS)	120	43.9	51.6	43	120	46.5	54.7	46	120	46.5	54.7	46	120	49.4	58.1	48	120	50.0	58.8	49	120	52.6	61.9	52	120	52.5	61.8	51	120	55.9	65.8	55	120	55.8	65.6	55	120	59.4	69.9	58
	(63) Sub-E(Kollupitiya)	90	27.9	50.5	56	90	29.6	53.6	60	90	29.6	53.6	60	90	31.5	57.0	63	90	31.9	57.7	64	90	33.6	60.8	68	90	33.6	60.8	68	90	35.8	64.8	72	90	35.8	64.8	72	90	38.1	69.0	77
	(64) Sub-F(Fort)	90	31.5	74.1	82	90	33.4	78.6	87	90	33.4	78.6	87	90	35.6	83.8	93	90	27.0	63.5	71	90	28.5	67.1	75	90	28.5	67.1	75	90	30.3	71.3	79	90	30.3	71.3	79	90	32.3	76.0	84
	(65) Town Hall	126	31.5	57.0	45	126	33.4	78.6	62	126	33.4	60.5	48	126	35.6	83.8	66	126	27.0	48.9	39	126	28.5	51.6	41	126	28.5	51.6	41	126	30.3	71.3	57	126	30.3	54.8	44	126	29.3	53.0	42
	(66) Sub-B																	126	27.0	63.5	50	126	28.5	67.1	53	126	28.5	67.1	53	126	30.3	71.3	57	126	30.3	71.3	57	126	32.3	76.0	60
TOTAL		4325	2088	2469	57	4325	2277	2707	63	4420	2277	2691	61	4420	2481	2946	67	4766	2308	2978	62	4766	2705	3209	67	4924	2705	3204	65	4924	2953	3507	71	5365	2948	3490	65	5520	3214	3799	68

表 6.5.1 - 3　2010年迄に実施すべき拡張・整備計画

Augmentation and Extension of GSS	Re-marks	Proposed Commiss. Year
(1) Power Transmission Facilities Related to Trincomalee Coal-Fired Thermal Plant		
(1-1) Construction of Trincomalee - Veyangoda 220kV Line		2007
a) Trincomalee P/S - Habarana 220kV line (2cct, 95km, 4xZebra)		
b) Habarana - Wariyapola 220kV line (2cct, 80km, 4xZebra)		
c) Wariyapola - Veyangoda 220kV line (2cct, 65km, 4xZebra)		
d) Veyangoda (two 220kV T/L bays for Wariyapola line)		
(1-2) Construction of 220kV Habarana Switching Substation	a	2007
a) Habarana 220kV Switching Station		
b) Double pi-connection of Kotmale - New Anuradhapura 220kV line (2x2cct, 0.5km, Zebra)		
(1-3) Construction of 220kV Wariyapola Switching Station	a	2007
a) Wariyapola 220kV Switching Station		
(1-4) Construction of 220kV Matale Substation		2009
a) Matale (2x150MVA (220/132kV))	b	
b) Double pi-connection of Kotmale - Habarana 220kV line (2x2cct, 0.5km, Zebra)		
c) Double pi-connection of Ukuwela - Habarana 132kV line (2x2cct, 2.0km, Lynx)		
(1-5) Construction of Trincomalee P/S Substation		2007
a) Trincomalee P/S (2x150MVA (220/132kV))		
b) Trincomalee P/S - Trincomalee 132kV line (2cct, 10km, 2xZebra)		
c) Trincomalee (two 132kV T/L bays for Trincomalee P/S line)		
(1-6) Construction of Victoria - Padukka 220kV Line	c	2009
a) Victoria - New Polipitiya 220kV line (2cct, 40km, 2xZebra)		
b) New Polipitiya - Padukka 220kV line (2cct, 60km, 2xZebra)		
c) Victoria power station (two T/L bays for Padukka line)		
(1-7) Construction of 220kV Padukka Switching Substation	a	2007
a) Padukka switching station		
(1-8) Construction of 220kV New Polpitiya Substation		2009
a) New Polpitiya (2x150MVA (220/132kV))		
b) Double pi-connection of Polpitiya - Avissawella 132kV line (2x2cct, 2.0km, Lynx&2xZebra)		
c) Reconductoring of Polpitiya - New Polpitiya section (2cct, 4.0km, 2xZebra)		
(1-9) Construction of Veyangoda - Padukka 220kV Line		2007
a) Veyangoda - Padukka line (2cct, 37km, 4xZebra)		
b) Veyangoda (two 220kV T/L bays for Padukka line)		
(1-10) Construction of Padukka - Pannipitiya 220kV Line		2007
a) Padukka - Pannipitiya line (2cct, 18km, 4xZebra)		
b) Pannipitiya (two T/L bays for 220kV Padukka line)		
(2) Construction of Pannala Substation		2010
a) Veyangoda - Pannala 132kV line (2cct, 20km, Zebra)		
b) Pannala (2 x 31.5MVA)		

表 6.5.1 - 3　2010年迄に実施すべき拡張・整備計画

Augmentation and Extension of GSS	Re-marks	Proposed Commiss. Year
(3) Construction of Eheliyagoda 132kV Substation		2010
a) Avissawella - Eheliyagoda 132kV line (2cct, 17km, Bear)		
b) Eheliyagoda - Ratnapura 132kV line (2cct, 25km, Bear)		
c) Eheliyagoda (2 x 31.5MVA)		
d) Avissawella (four 132kV T/L bays for Eheliyagoda line & double pi arrangement)		
e) Ratunapura (two 132kV T/L bays for Eheliyagoda line)		
f) Double pi-connection for Avisawella (2cct, 0.3km, Lynx)		
(4) Construction of Imbulgoda 132kV Substation		2008
a) Biyagama - Imbulgoda 132kV line (2cct, 12km, Zebra)		
b) Imbulgoda (3x31.5MVA)		
c) Biyagama (two 132kV T/L bays for Imbulgoda line)		
(5) Construction of Angoda 132kV Substation		2009
a) Angoda (3 x 31.5MVA)		
b) Double pi-connection for Angoda (2x2cct, 0.1km, Lynx)		
(6) Construction of Aguruwella 132kV Substation		2007
a) Aguruwella (2 x 31.5MVA)		
b) Connection of Polpitiya 132kV line (1x2cct, 0.2km, Lynx)		
c) Connection of Thulhiriya 132kV line (1x2cct, 0.2km, Lynx)		
d) Connection of Kolonnawa 132kV line (1x2cct, 0.2km, Lynx)		
(7) Construction of Kesbewa 132kV Substation		2006
a) Kesbewa (2 x 31.5MVA)		
b) Double pi-connection for Kesbewa (2x2cct, 1.0km, Lynx)		
(8) Construction of Sub-B 132kV Substation (GIS)		2007
a) Kelanittissa - Sub-B underground cables (1cct, 3.5km, Cu800sq.mm,CV Cables)		
b) Sub-B (2 x 63MVA (Final : 3 x 63MVA))		
c) Single pi-connection of Kelanittissa - Fort UGC (2x1cct, 0.2km, Cu500, OF Cables)		
d) Kelanittissa (one 132kV T/L bay for Sub-B line)		
(9) Power Transmission Facilities Related to Boossa Thermal Plant		
(9-1) Construction of Boossa - Pannipitiya 220kV Line		2008
a) Boossa - Matugama 220kV line (2cct, 54km, 2xZebra)		
b) Matugama - Pannipitiya 220kV line (2cct, 45km, 2xZebra)		
c) Pannipitiya (two 220kV T/L bays for Boossa line)		
(9-2) Construction of Boossa Substation		2008
a) Boossa (2x150MVA (220/132kV), 2x31.5MVA (132/33kV))		
(9-3) Construction of Boossa - New Galle 132kV Line		2008
a) Boossa - New Galle 132kV line (2cct, 12km, 2xZebra)		
b) New Galle (two 132kV T/L bays for Boossa line)		
(9-4) Construction of Matugama 220kV Substation	d	2008
a) Matugama (2x150MVA (220/132kV))		
b) Connection to existing 132kV Matugama substayion		

表 6.5.1 - 3　2010年迄に実施すべき拡張・整備計画

Augmentation and Extension of GSS	Re-marks	Proposed Commiss. Year
(10) Construction of Trincomalee - Kilinochchi 132kV Line		2007
a) Trincomalee - Kilinochchi Line (2cct, 140km, Lynx)		
b) Trincomalee (two 132kV T/L bays for Kilinochchi line)		
c) Kilinochchi (two 132kV T/L bays for Trincomalee line)		
(11) Construction of Pulmoddai 132kV Substation		2007
a) Pulmoddai (1 x 10MVA)	e	
b) Single pi-connection line for Pulmoddai (2cct, 8km, Lynx)		
(12) Construction of Mannar 132kV Substation		2006
a) Vavuniya - Mannar 132kV line (1st cct of 2cct construction, 80km, Lynx)		
b) Mannar (1 x 10MVA)	e,f	
c) Vavunia (one 132kV T/L bays for Mannar line)		
(13) Construction of Galenbindunuwewa 132kV Substation		2006
a) Galenbidunuwewa (1x10MVA)	e	
b) Single pi-connection line for Galenbidunuwewa (2cct, 1.0km, Lynx)		
(14) Construction of Daladagama 132kV Substation		2006
a) Kuliyapitiya - Daladagama 132kV line (1st cct of 2cct construction, 50km, Bear)		
b) Daladagama (1 x 10MVA)	e,f	
c) Kuliyapitiya (one 132kV T/L bays for Daladagama line)		
(15) Construction of Batticaloa 132kV Substation		2008
a) Batticalloa (1 x 10MVA)	e	
b) Single pi-connection line for Batticaloa (2cct, 5km, Lynx)		
(16) Construction of Girandurukotre 132kV Substation		2008
a) Rantembe - Girandurukotre 132kV line (1st cct of 2cct construction, 40km, Lynx)		
b) Girandurukotre (1 x 10MVA)	e,f	
c) Rantembe (one 132kV T/L bays for Girandurukotre line)		
(17) Construction of Wellawaya 132kV Substation		2008
a) Badulla - Wellawaya 132kV line (1st cct of 2cct construction,40km, Lynx)		
b) Wellawaya (1 x 10MVA)	e,f	
c) Badulla (one T/L bays for 132kV Wellawaya line)		
(18) Construction of Tissamaharama 132kV Substation		2006
a) Hambantota - Tissamaharama 132kV line (1st cct of 2cct construction, 30km, Lynx)		
b) Embilipitiya - Hambantota 132kV line (2nd cct of 2cct construction, 24.0km, Bear)		
c) Tissamaharama (1 x 10MVA)	e,f	
d) Embilipitiya (one 132kV T/L bay for Hambantota line)		
e) Hambantota (two 132kV T/L bays for Embilipitiya & Tissamaharama line)		
(19) Addition of Transformers		
(19-1) Chilaw (132/33kV, 1x31.5MVA, total 3x31.5MVA)		2007
(19-2) Kuliyapitiya (132/33kV, 1x31.5MVA, total 3x31.5MVA)		2007
(19-3) Aniyakanda (132/33kV, 1x31.5MVA, total 3x31.5MVA)		2010
(19-4) Kelaniya (132/33kV, 1x63MVA, total 3x63MVA)		2009

表 6.5.1 - 3　2010年迄に実施すべき拡張・整備計画

Augmentation and Extension of GSS	Re-marks	Proposed Commiss. Year
(19-5) Gonawala (132/33kV, 1x31.5MVA, total 4x31.5MVA)		2010
(19-6) Katana (132/33kV, 1x31.5MVA, total 3x31.5MVA)		2009
(19-7) Panadura (1x31.5MVA, total 3x31.5MVA)		2007
(19-8) Dehiwala (132/33kV, 1x63MVA, total 3x63MVA)		2009
(19-9) Matara (132/33kV, 1x31.5MVA, total 3x31.5MVA)		2008
(19-10) Ratnapura (132/33kV, 1x31.5MVA, total 3x31.5MVA)		2009
(19-11) Kegalle (132/33kV, 1x31.5MVA, total 3x31.5MVA)		2009
(19-12) Athurugiriya (132/33kV, 1x31.5MVA, total 3x31.5MVA)		2007
(19-13) Vavunia (132/33kV, 1x10MVA, total 2x10MVA)		2007
(19-14) Kesbewa (132/33kV, 1x31.5MVA, total 3x31.5MVA)		2009
(19-15) Imbulgoda (132/33kV, 1x31.5MVA, total 4x31.5MVA)		2009
(20) Replace of Transformers		
(21-1) Chunnakam (only 1x10MVA to 1x31.5MVA, total 91.5MVA)		2007
(21-2) Deniyaya (only 1x15MVA to 1x31.5MVA, total 46.5MVA)		2010
New Subprojects Proposed by Power System Analysis		
(21) Addition of 220/132kV Tie Transformers		
(21-1) Pannipitiya (1x250MVA, total 3x250MVA)		2007
(21-2) Veyangoda (1x150MVA, total 3x150MVA)		2007
(21-3) Kotugoda (1x250MVA, total 3x250MVA)		2008
(21-4) New Chilaw (1x150MVA, total 3x150MVA)		2008
(21-5) Biyagama (1x250MVA, total 3x250MVA)		2008
(22) Static Capacitor		
(22-1) Ampara (10MVA)		2009
(22-2) Biyagama (60MVA)		2008
(22-3) Chunnakam (20MVA, total 40MVA)		2007
(22-4) Dehiwala (60MVA)		2009
(22-5) Inginiyagara (10MVA)		2008
(22-6) Kegalle (20MVA)		2009
(22-7) Kelaniya (60MVA)		2009
(22-8) Kolonnawa (120MVA)		2007
(22-9) Kotugoda (30MVA, total 60MVA)		2008
(22-10) Matugama (80MVA)		2008
(22-11) Thulhiriya (40MVA)		2008
(22-12) Valaichchenai (10MVA)		2009
(23) Replacement of 132kV Circuit Breakers		
(23-1) Anuradhapura (11kA to 31.5kA, 6sets)		2007
(23-2) Kollupitiya (25kA to 40kA, 6sets)		2007
(23-3) Trincomalee (12.5kA to 31.5kA, 2sets)		2007

Remarks :

(a) Land space for future extension of 132kV switchgear shall be considered.
(b) Space for installation of distribution transformer(s) in future shall be considered.
(c) Righht of way of the abolished 66kV line may be used for the proposed 220kV line.
(d) Land space adjoinning to the existing 132kV Matugama substation is available for the 220kV substation.
(e) One unit only is proposed to be provided for cost saving, since no high demand is expected.
(f) A circuit breaker is proposed not to be provided for cost saving.

表 6.6.1 - 1　2015年地点における整備計画前及び計画後の変電所の設備利用率

Provinces	Grid Substations	Voltage Ratio (kV)	Before Reinforcement				After Reinforcement				Countermeasures
			Trans. Cap. (MVA)	Peak Load (MW)	Peak Cap. (MVA)	Load (%)	Trans. Cap. (MVA)	Peak Load (MW)	Peak Cap. (MVA)	Load (%)	
North Centraal	(1) Anuradhapura	132/33	63	62.8	69.8	111	94.5	62.8	69.8	74	Addition of trans.
	(2) Habarana	132/33	63	41.8	46.4	74	63	41.9	46.6	74	
	(3) Polonnaruwa	132/33	32	34.7	38.6	120	63	34.7	38.6	61	Replace of trans.
Northern	(4) Chunnakam	132/33	91.5	86.1	95.7	105	94.5	86.1	95.7	101	Replace of trans.
	(5) Kilinochchi	132/33	20	17.8	19.8	99	30	17.9	19.9	66	Addition of trans.
	(6) Vavunia	132/33	20	14.5	16.1	81	20	14.5	16.1	81	
Central	(7) Kiribothkumbura	132/33	94.5	62.6	69.6	74	94.5	62.6	69.6	74	
	(8) Ukuwela	132/33	63	70.7	78.6	125	94.5	70.8	78.7	83	Addition of trans.
	(9) Rantembe	-/132/3	20	14.0	15.6	78	20	14.0	15.6	78	
	(10) Nuwara Eliya	132/33	63	48.9	54.3	86	63	49.0	54.4	86	
	(11) Wimalasurendra	132/33	63	27.9	31.0	49	63	28.1	31.2	50	
	(12) Palekelle	132/33	63	45.1	50.1	80	63	45.1	50.1	80	
North Western	(13) Kurunegala	132/33	63	63.8	70.9	113	94.5	63.9	71.0	75	Addition of trans.
	(14) Puttalam	132/33	63	76.0	84.4	134	94.5	76.1	84.6	89	Addition of trans.
	(15) Bolawatta	132/33	91.5	96.5	107.2	117	123	96.6	107.3	87	Addition of trans.
	(16) Chilaw	132/33	94.5	113.2	125.8	133	126	99.4	110.4	88	Addition of trans.
	(17) Kuliyapitiya	132/33	94.5	107.3	119.2	126	126	94.5	105.0	83	Addition of trans.
	(18) Pannala	132/33	63	64.4	71.6	114	126	92.4	102.7	81	Addition of trans.
Western-North	(19) Kotugoda	-/132/33	120	112.5	132.4	110	120	90.4	106.4	89	
	(20) Sapugaskanda	132/33	121.5	152.6	179.5	148	121.5	152.7	179.6	148	
	(21) Biyagama	-/132/33	120	150.1	176.6	147	120	150.3	176.8	147	
	(22) Veyangoda	132/33	63	49.2	57.9	92	94.5	49.2	57.9	61	Addition of trans.
	(23) Aniyakanda	132/33	94.5	74.5	87.6	93	126	89.9	105.8	84	Addition of trans.
	(24) Kelaniya	132/33	189	207.6	244.2	129	189	207.8	244.5	129	
	(25) Muthuragawella	220/33	126	143.2	168.5	134	189	143.3	168.6	89	Addition of trans.
	(26) Gonawala	132/33	126	141.6	166.6	132	126	141.7	166.7	132	
	(27) Katana	132/33	94.5	73.7	86.7	92	126	81.2	90.2	72	Addition of trans.
	(28) Imbulgoda	132/33	126	153.1	180.1	143	126	153.2	170.2	135	
Eastern	(29) Trincomalee	132/33	63	43.1	47.9	76	63	43.1	47.9	76	
	(30) Inginiyagara	132/33	30	3.6	4.0	13	30	3.6	4.0	13	
	(31) Valaichchenai	132/33	63	21.1	23.4	37	63	21.1	23.4	37	
	(32) Ampara	132/33	63	26.6	29.6	47	63	26.6	29.6	47	
Western-South	(33) Ratmalana	132/33	123	145.5	171.2	139	123	145.6	171.3	139	
	(34) Pannipitiya	132/33	123	138.7	163.2	133	123	138.8	163.3	133	
	(35) O.D.S S(Kolonnawa)	132/33	157.5	180.5	212.4	135	157.5	162.0	190.6	121	
	(36) Matugama	132/33	94.5	17.4	20.5	22	94.5	34.3	40.4	43	
	(37) Avissawella	132/33	63	68.4	80.5	128	94.5	71.2	83.8	89	Addition of trans.
	(38) Panadura	132/33	94.5	110.7	130.2	138	126	99.8	117.4	93	Addition of trans.
	(39) Sithawaka	132/33	63	42.8	50.4	80	63	42.8	50.4	80	
	(40) Athurugiriya	132/33	94.5	97.1	114.2	121	126	97.2	114.4	91	Addition of trans.
	(41) Sri Jaya'pura	132/33	126	118.4	139.3	111	189	118.6	139.5	74	Addition of trans.
	(42) Debiwala	132/33	189	153.3	180.4	95	189	153.4	180.5	95	
	(43) Horana	132/33	63	47.5	55.9	89	63	47.5	55.9	89	
	(44) Kesbewa	132/33	94.5	106.3	125.1	132	126	106.4	125.2	99	
	(45) Angoda	132/33	94.5	94.8	111.5	118	126	94.8	111.5	89	Addition of trans.
Southern	(46) Galle	132/33	91.5	101.3	112.6	123	91.5	98.3	109.2	119	
	(47) Deniyaya	132/33	46.5	35.2	39.1	84	46.5	35.2	39.1	84	
	(48) Matara	132/33	94.5	80.6	89.6	95	126	80.6	89.6	71	Addition of trans.
	(49) New Galle	132/33	94.5	101.3	112.6	119	94.5	98.3	109.2	116	
	(50) Ambalangoda	132/33	63	29.4	32.7	52	63	29.4	32.7	52	
	(51) Hambantota	132/33	20	16.0	17.8	89	30	16.5	18.3	61	Addition of trans.
	(52) Boossa	132/33	63	70.8	78.7	125	94.5	67.8	75.3	80	Addition of trans.
Uva	(53) Badulla	132/33	94.5	50.6	56.2	59	94.5	50.7	56.3	60	
	(54) Medagama	132/33	10	5.6	6.2	62	10	5.7	6.3	63	
Sabaraga-muwa	(55) Balangoda	132/33	63	21.1	23.4	37	63	20.5	22.8	36	
	(56) Thulhiriya	132/33	94.5	100.1	111.2	118	126	100.2	111.3	88	Addition of trans.
	(57) Embilipitiya	132/33	63	11.4	12.7	20	63	11.4	12.7	20	
	(58) Ratnapura	132/33	94.5	112.8	125.3	133	126	112.9	125.4	100	Addition of trans.
	(59) Kegalle	132/33	94.5	95.3	105.9	112	126	95.3	105.9	84	Addition of trans.
	(60) Aguruwella	132/33	63	74.8	83.1	132	94.5	74.8	83.1	88	Addition of trans.
	(61) Eheliyagoda	132/33	63	56.4	62.7	99	94.5	56.4	62.7	66	Addition of trans.
Colombo	(62) Kelanitissa(KTS)	132/33	120	79.8	93.9	78	120	87.8	103.3	86	
	(63) Sub-E(Kollipitiya)	132/11	90	51.8	93.8	104	90	34.6	62.6	70	
	(64) Sub-F(Fort)	132/11	90	43.9	103.3	115	90	29.3	68.9	77	
	(65) Town Hall	132/11	126	39.9	93.9	75	126	53.2	96.3	76	
	(66) Sub-B	132/11	126	43.9	103.3	82	189	67.4	158.6	84	Addition of trans.
	TOTAL		5570	4944	5862	105	6569	4943	5832	89	

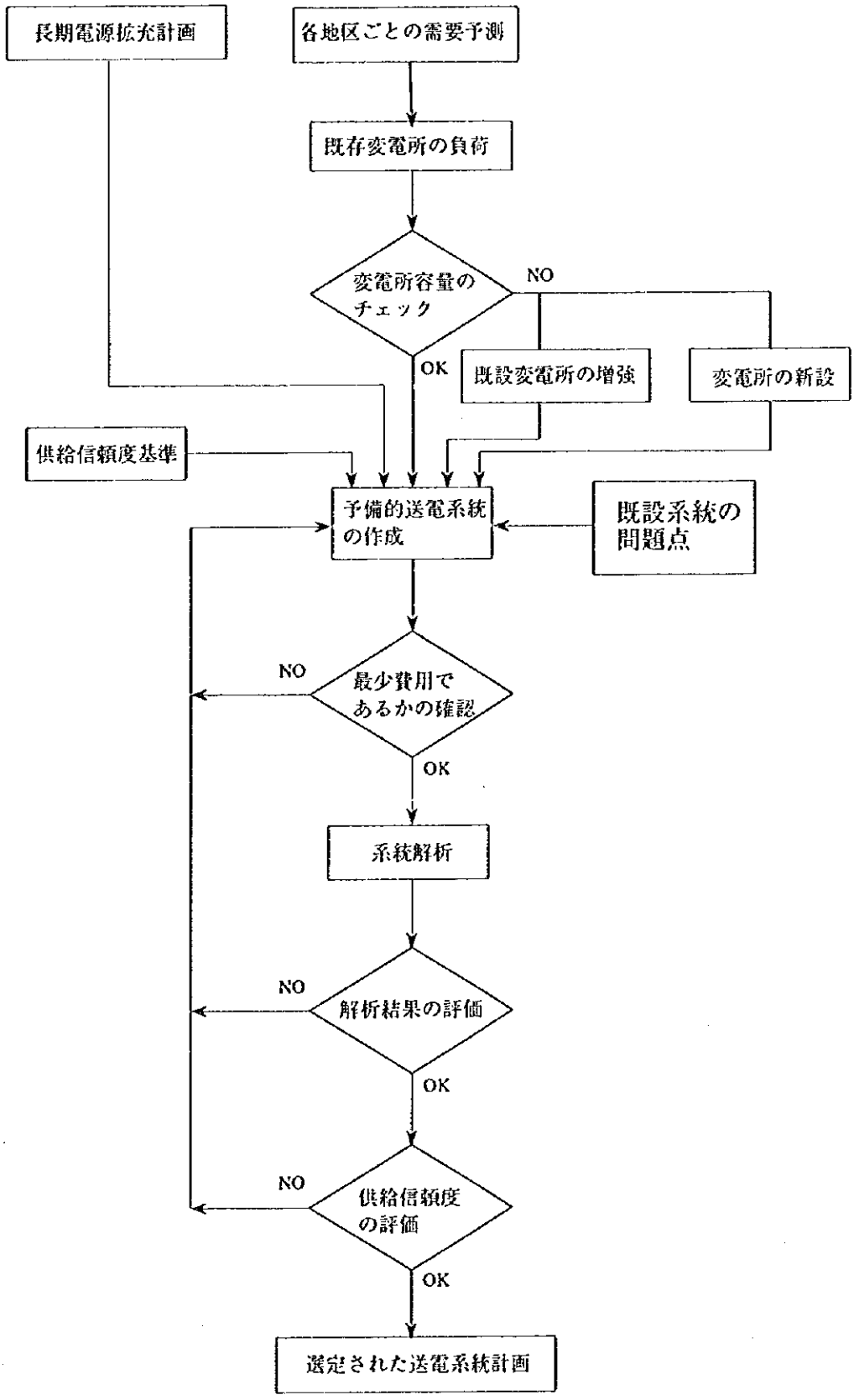
Remarks:
a) Load factor for calculation of peak load in MVA is assummed as 85% for Western-North, Western-South and Colombo and 90% for other areas.
b) Peak load in MVA of Kollipitiya and Fort grid substations is calculated in the basis of day-time peak, i.e 0.65 for Kollipitiya and 0.5 for Fort.
c) Only rearrangement of 33kV feeders and transformer addition are considered.

表 6.6.1 - 2 2015年迄に実施すべき拡張・整備計画

Sub-projects for Augmentation and Extension	Re-marks	Proposed Commiss. Year
(1) Power Transmission Facilities Related to Mawella Coal-fired Thermal Plant		
(1-1) Construction of Mawella - Padukka 220kV Line		2013
a) Mawella - Kahawatta Line (2cct, 100km, 4xZebra)		
b) Kahawatta - Padukka Line (2cct, 90km, 4xZebra)		
c) Padukka (two T/L bays for Kahawatta line)		
(1-2) Construction of Khawatta Switching Station		2013
(1-3) Construction of Mawella - Boossa Line		2013
a) Mawella - Boossa line (2cct, 70km, 2xZebra)		
b) Boossa (two T/L bays for Kahawatta line)		
(2) Construction of Mullaittivu 132kV Substation		2012
a) Single pi-connection of Trincomalee - Kilinochchi line (2cct, 3km, Lynx)		
b) Mullativu (1x10MVA)		
(3) Construction of Palattadichchenai 132kV Substation		2011
a) Trincomalee P/S - Palattadichchenai line (1st cct on 2cct, 35km, Lynx)		
b) Palattadichchenai (1x10MVA)		
c) Trincomalee (one T/L bay for Palattadichchenai line)		
(4) Construction of Maha Oya 132kV Substation		2012
a) Rantembe - Maha Oya line (1st cct on 2cct, 70km, Lynx)		
b) Maha Oya (1x10MVA)		
c) Rantembe (one T/L bay for Maha Oya line)		
(5) Construction of Pottuvil 132 kV Substation		2011
a) Sigle T-branch line for Pottuvil (1st cct on 2cct, 40km, Lynx)		
b) Pottuvil (1x10MVA)		
(6) Construction of Substations		
(6-1) North - A (2x31.5MVA, TL 1x2cct, 10km, Bear)		
(6-2) North Western - A (2x31.5MVA, TL 1x2cct, 10km, Bear)		
(6-3) North Western - B (2x31.5MVA, TL 1x2cct, 10km, Bear)		
(6-4) Western North - A (3x31.5MVA, TL 1x2cct, 10km, Zebra)		
(6-5) Western North - B (3x31.5MVA, TL 1x2cct, 10km, Zebra)		
(6-6) Western North - C (3x31.5MVA, TL 1x2cct, 10km, Zebra)		
(6-7) Western North - D (3x31.5MVA, TL 1x2cct, 10km, Zebra)		
(6-8) Western North - E (3x31.5MVA, TL 1x2cct, 10km, Zebra)		
(6-9) Western North - F (3x31.5MVA, TL 1x2cct, 10km, Zebra)		
(6-10) Western South - A (3x31.5MVA, TL 1x2cct, 10km, Zebra)		
(6-11) Western South - B (3x31.5MVA, TL 1x2cct, 10km, Zebra)		
(6-12) Western South - C (3x31.5MVA, TL 1x2cct, 10km, Zebra)		
(6-13) Western South - D (3x31.5MVA, TL 1x2cct, 10km, Zebra)		
(6-14) Sabaragamuwa - A (2x31.5MVA, TL 1x2cct, 10km, Bear)		
(6-15) Sabaragamuwa - B (2x31.5MVA, TL 1x2cct, 10km, Bear)		
(6-16) South - A (2x31.5MVA, TL 1x2cct, 10km, Bear)		
(7) Addition of Transformers		
(7-1) Anuradhapura (132/33kV, 2x31.5MVA, total 4x31.5MVA)		
(7-2) Kilinochchi (132/33kV, 1x10MVA, total 3x10MVA)		
(7-3) Ukuwela (132/33kV, 1x31.5MVA, total 3x31.5MVA)		

表 6.6.1 - 2 2015年迄に実施すべき拡張・整備計画

Sub-projects for Augmentation and Extension	Re-marks	Proposed Commiss. Year
(7-4) Kurunegara (132/33kV, 1x31.5MVA, total 3x31.5MVA)		
(7-5) Putallam (132/33kV, 1x31.5MVA, total 3x31.5MVA)		
(7-6) Bolawatta (132/33kV, 1x31.5MVA, total 123MVA)		
(7-7) Chilaw (132/33kV, 1x31.5MVA, total 4x31.5MVA)		
(7-8) Kuliyapitiya (132/33kV, 1x31.5MVA, total 4x31.5MVA)		
(7-9) Pannala (132/33kV, 2x31.5MVA, total 4x31.5MVA)		
(7-10) Veyangoda (132/33kV, 1x31.5MVA, total 3x31.5MVA)		
(7-11) Aniyakanda (132/33kV, 1x31.5MVA, total 4x31.5MVA)		
(7-12) Muthuragawella (220/33kV, 1x63MVA, total 3x63MVA)		
(7-13) Katana (132/33kV, 1x31.5MVA, total 4x31.5MVA)		
(7-14) Avissawella (132/33kV, 1x31.5MVA, total 3x31.5MVA)		
(7-15) Panadura (132/33kV, 1x31.5MVA, total 4x31.5MVA)		
(7-16) Athurugiriya (132/33kV, 1x31.5MVA, total 4x31.5MVA)		
(7-17) Kesbewa (132/33kV, 1x31.5MVA, total 4x31.5MVA)		
(7-18) Angoda (132/33kV, 1x31.5MVA, total 4x31.5MVA)		
(7-19) Hambantota (132/33kV, 1x10MVA, total 3x10MVA)		
(7-20) Boossa (132/33kV, 1x31.5MVA, total 3x31.5MVA)		
(7-21) Thulhiriya (132/33kV, 1x31.5MVA, total 4x31.5MVA)		
(7-22) Ratnapura (132/33kV, 1x31.5MVA, total 4x31.5MVA)		
(7-23) Kegalle (132/33kV, 1x31.5MVA, total 4x31.5MVA)		
(7-24) Aguruwella (132/33kV, 1x31.5MVA, total 3x31.5MVA)		
(7-25) Eheliyagoda (132/33kV, 1x31.5MVA, total 3x31.5MVA)		
(8) Replacement of Transformers		
(8-1) Polonnaruwa (132/33kV, 2x16MVA to 2x31.5MVA)		
New Subprojects Proposed by Power System Analysis		
(9) Addition of 220/132kV Tie Transformers		
(9-1) Boossa (1x150MVA, total 3x150MVA)		2011
(9-2) Kolonnawa (1x250MVA, total 3x250MVA)		2013
(9-3) Matale (1x150MVA, total 3x150MVA)		2013
(9-4) Trincomalee (1x150MVA, total 3x150MVA)		2013
(9-5) Biyagama (1x250MVA, total 4x250MVA)		2013
(9-6) Pannipitiya (1x250MVA,total 4x250MVA)		2013
(9-7) New Chilaw (1x150MVA, total 4x150MVA)		2014
(9-8) Veyangoda (1x150MVA, total 4x150MVA)		2014
(10) Static Capacitor		
Addition 700MVA in total in the system		



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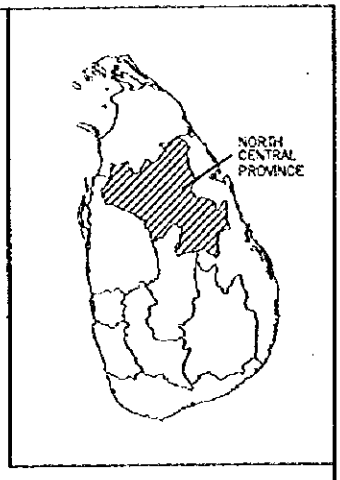

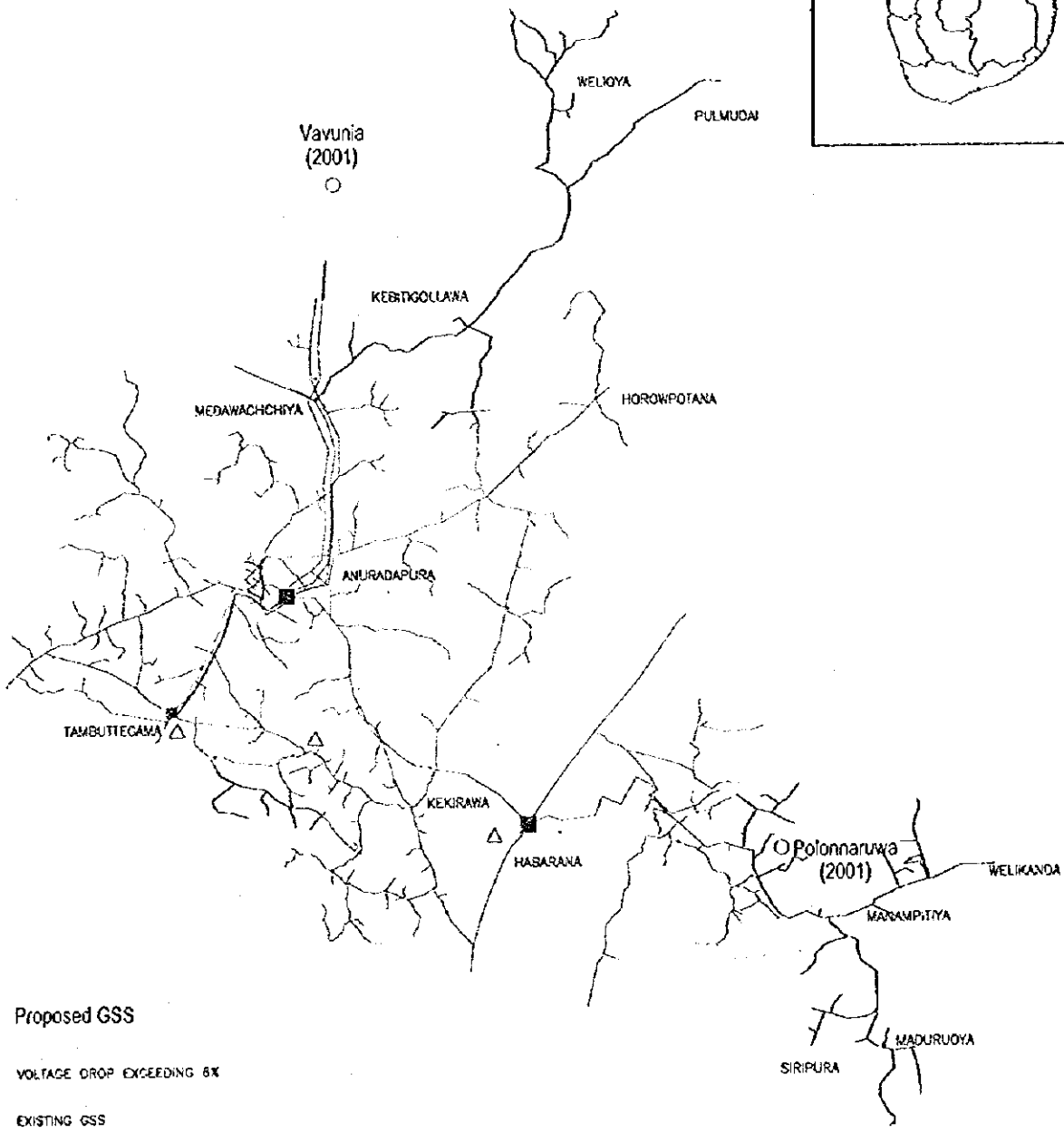

○ Proposed GSS

VOLTAGE DROP EXCEEDING 6%

EXISTING GSS

△ PROPOSED IND. ESTATES

PROPOSED GANTRY

EXISTING LINES

PROPOSED EXPRESS LINE

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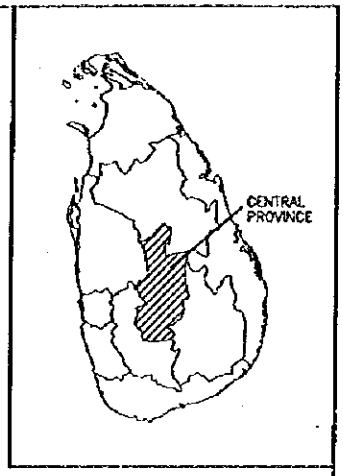
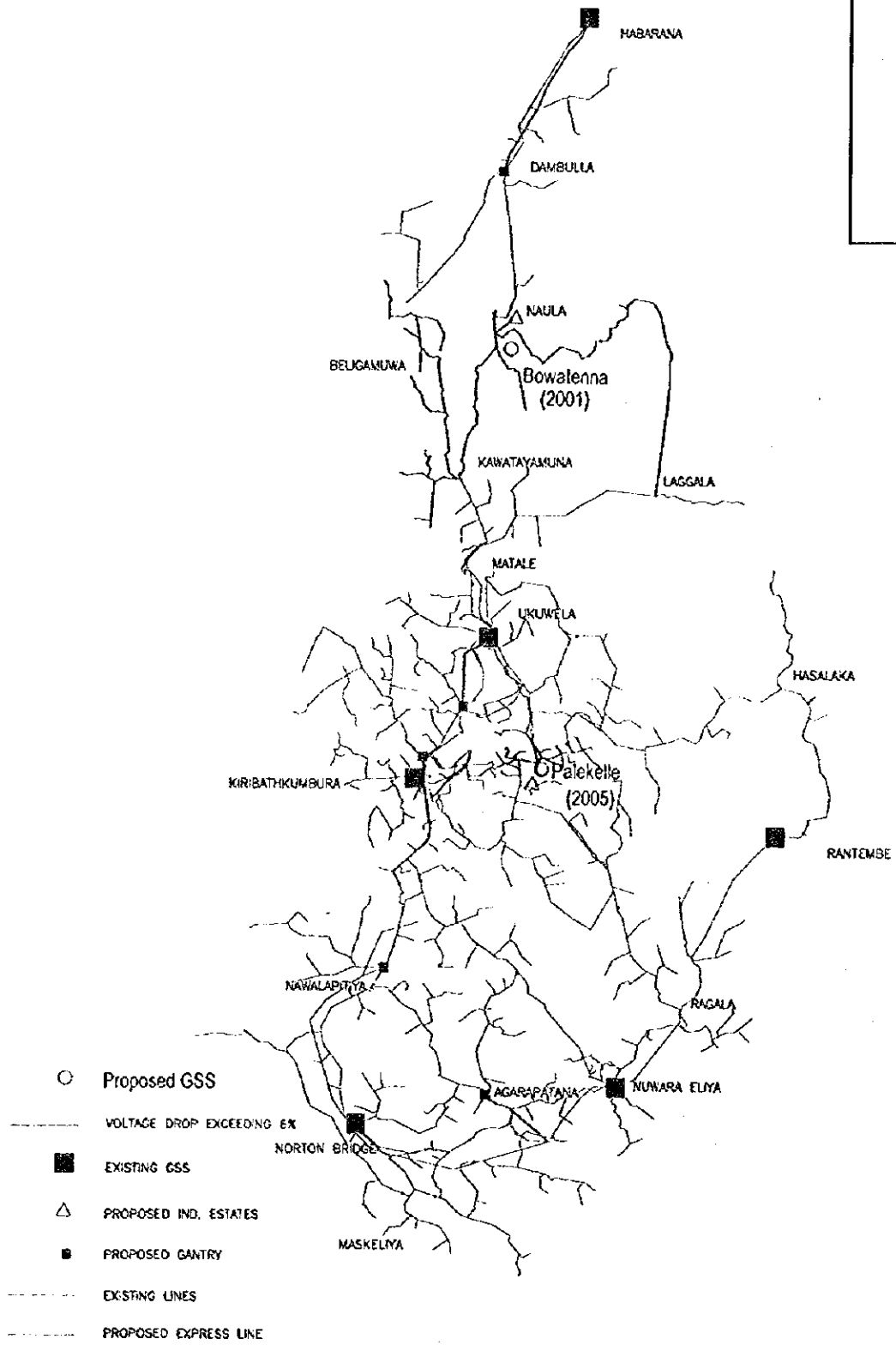
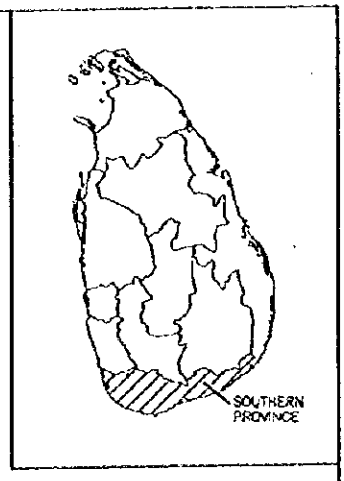
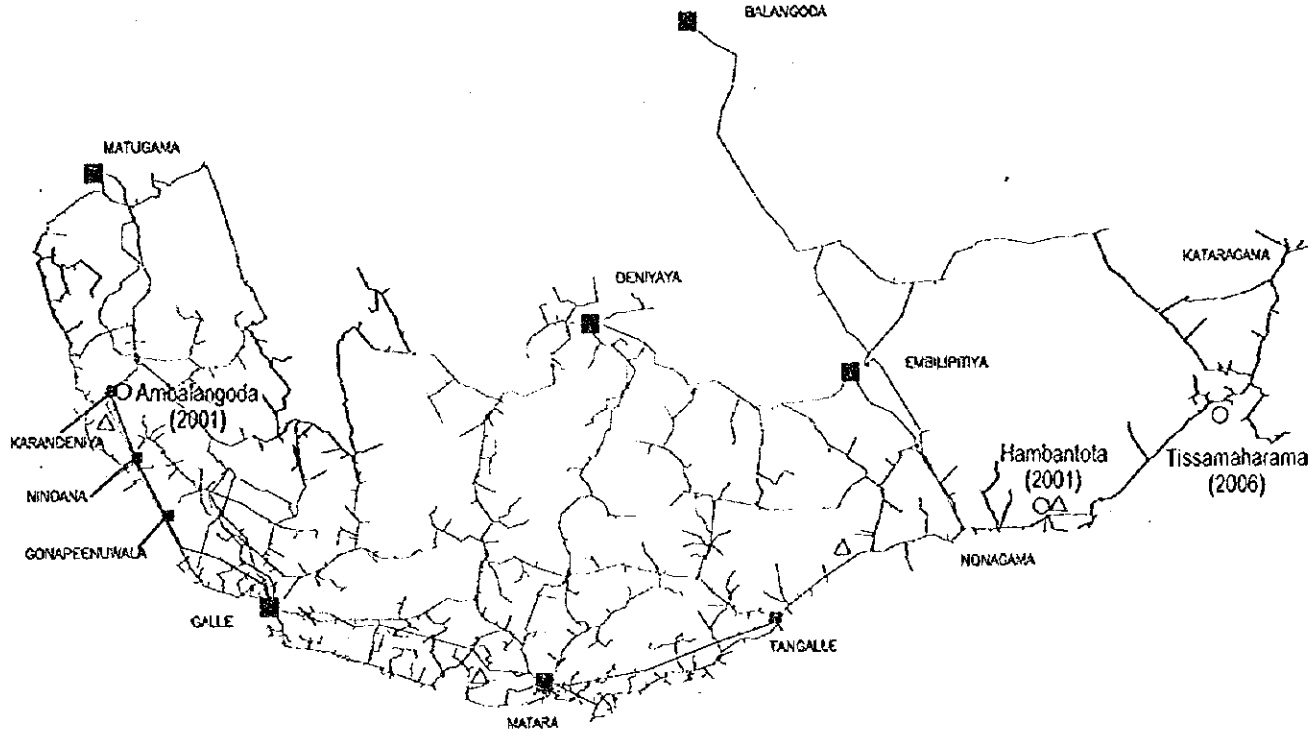




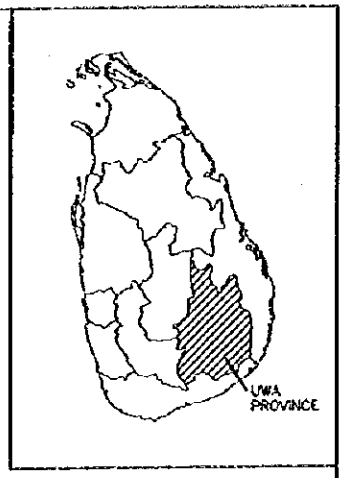
CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA	TITLE 図 6.1.5 - 2 中部州の高圧配電系統

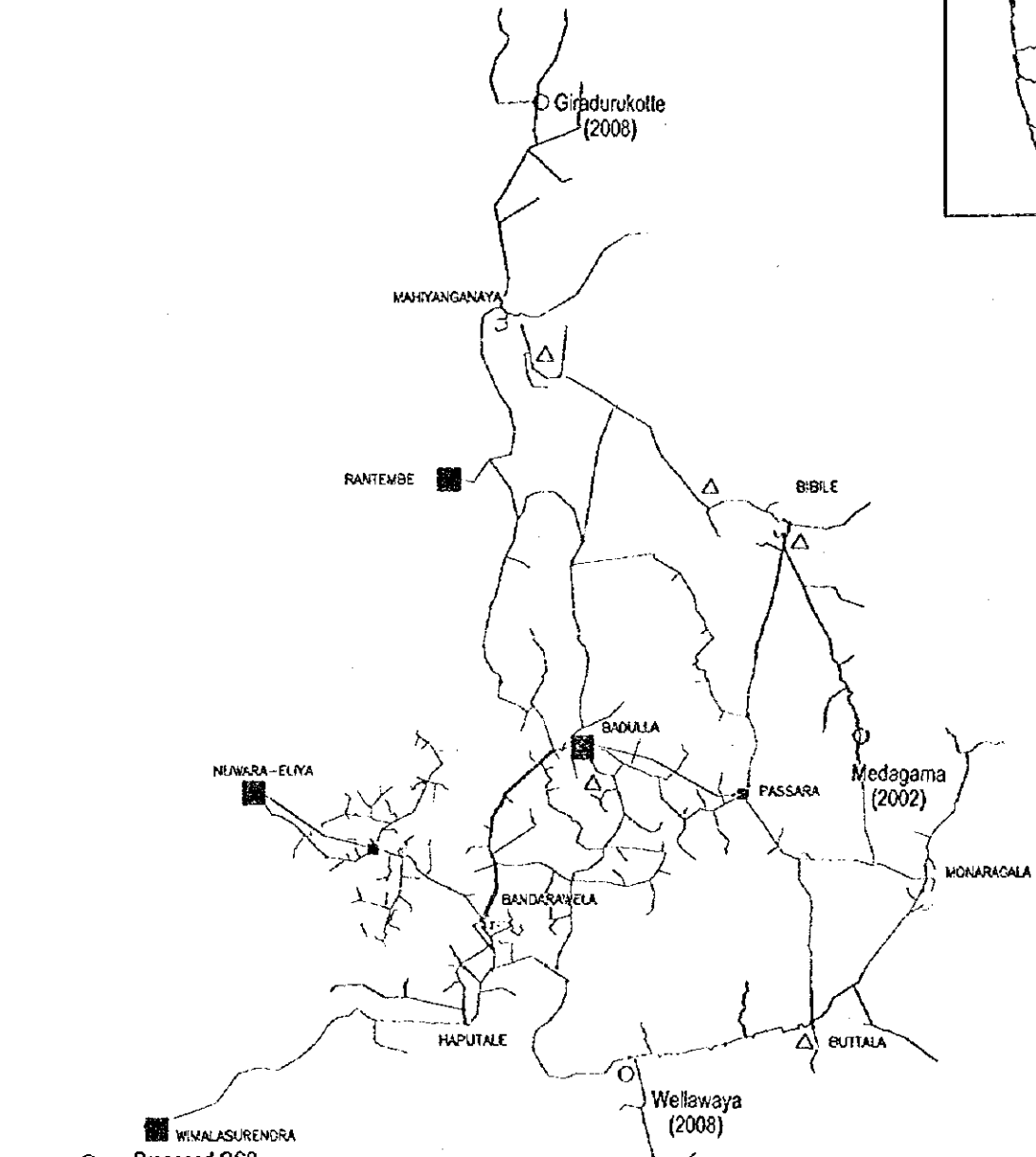




- Proposed GSS
- VOLTAGE DROP EXCEEDING 5%
- EXISTING GSS
- PROPOSED IND. ESTATES
- PROPOSED GANTRY
- EXISTING LINES
- PROPOSED EXPRESS LINE

CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA	TITLE 図 6.1.5 - 3 南部州の高圧配電系統





CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA	TITLE 図 6.1.5 - 4 ウバ州の高圧配電系統

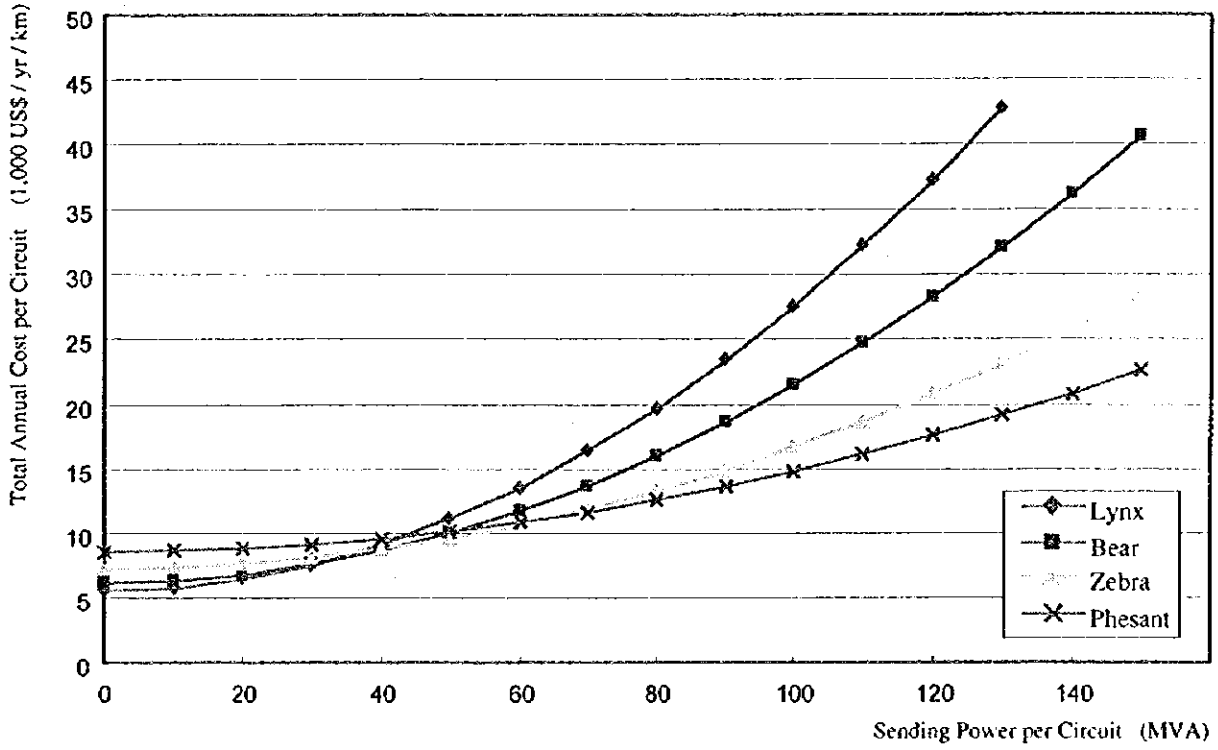


図 6.1.6 - 1　132kV架空送電線の電線サイズ別送電容量と年間費用

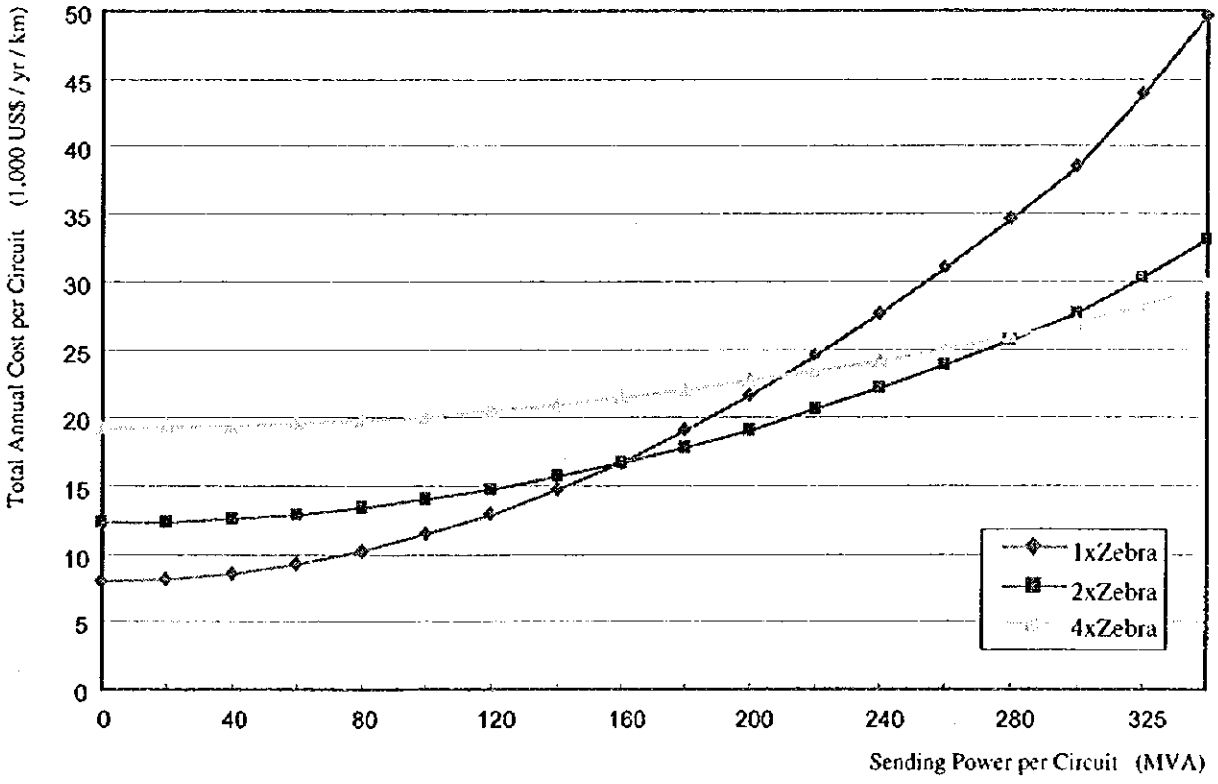
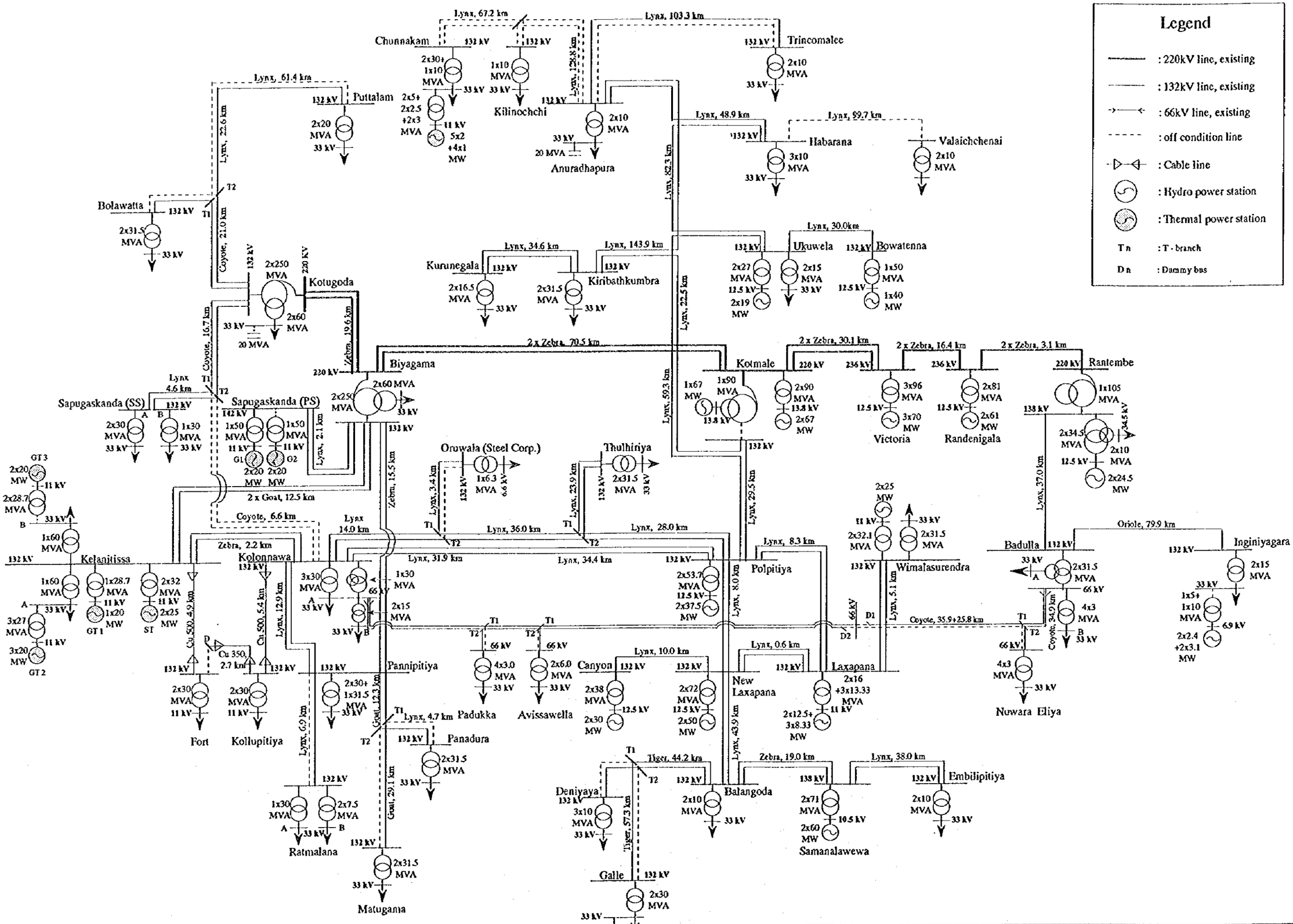
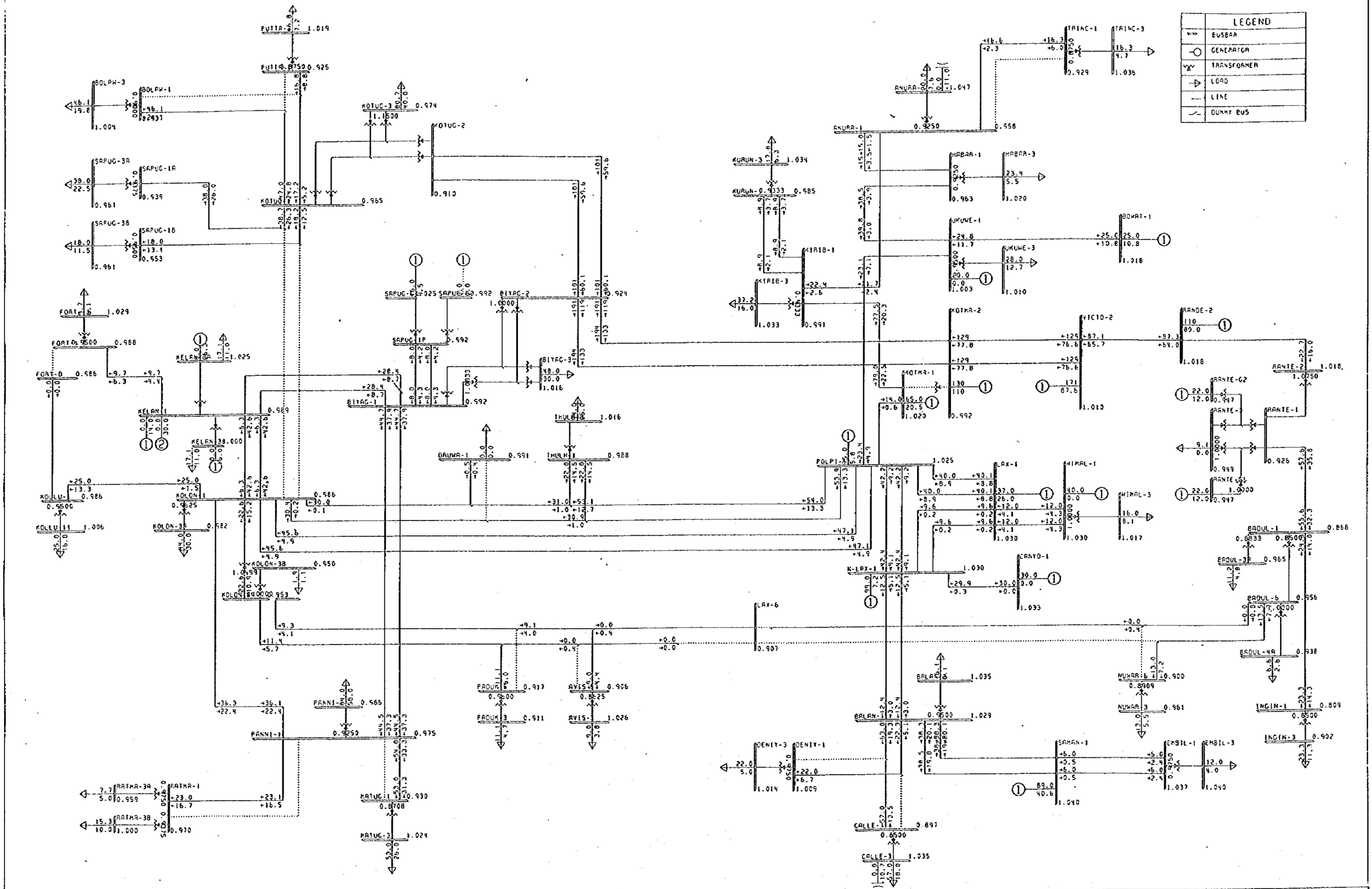


図 6.1.6 - 2　220kV架空送電線の電線サイズ別送電容量と年間費用

Note : Assumed annual load factor is 60%.

CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA	TITLE


Legend
: 220kV line, existing
: 132kV line, existing
: 66kV line, existing
: off condition line
: Cable line
: Hydro power station
: Thermal power station
Tn : T - branch
Dn : Dummy bus
Chunnakam
Puttalam
Kilinochchi
Anuradhapura
Trincomalee
Habarana
Valaichchenai
Bolawatta
Kotugoda
Kurunegala
Kiribathkumbra
Ukuwela
Bowatenna
Biyagama
Sapugaskanda (SS)
Sapugaskanda (PS)
Kotmale
Victoria
Randenigala
Rantembe
Oruwala (Steel Corp.)
Thulhiriya
Kelanitissa
Kolonnawa
Pannipitiya
Padukka
Panadura
Avissawella
Canyon
Polpitiya
New Laxapana
Laxapana
Wimalasurendra
Badulla
Nuwara Eliya
Inginiyagara
Oriole, 79.9 km
Fort
Kollupitiya
Ratmalana
Matugama
Deniyaya
Galle
Balangoda
Embilipitiya
Samanalawewa
Lynx, 67.2 km
Lynx, 103.3 km
Lynx, 61.4 km
Lynx, 48.9 km
Lynx, 99.7 km
Lynx, 30.0km
Lynx, 34.6 km
Lynx, 143.9 km
2 x Zebra, 70.5 km
2 x Zebra, 30.1 km
2 x Zebra, 16.4 km
2 x Zebra, 3.1 km
2 x Goat, 12.5 km
Coyote, 6.6 km
Lynx, 36.0 km
Lynx, 28.0 km
Lynx, 31.9 km
Lynx, 34.4 km
Lynx, 4.7 km
Lynx, 10.0 km
Lynx, 0.6 km
Lynx, 8.3 km
Tiger, 44.2 km
Zebra, 19.0 km
Lynx, 38.0 km
Coyote, 35.9+25.8 km
Zebra, 2.2 km
Lynx, 14.0 km
Cu 350, 2.7 km
Cu 500, 4.9 km
Cu 500, 5.4 km
Lynx, 12.9 km
Lynx, 6.9 km
Goat, 12.3 km
Goat, 29.1 km
Tiger, 57.3 km
Lynx, 3.4 km
Lynx, 23.9 km
Lynx, 29.5 km
Lynx, 43.9 km
Lynx, 8.0 km
Lynx, 5.1 km
Coyote, 34.9 km
Lynx, 37.0 km
Lynx, 82.3 km
Lynx, 22.5 km
Lynx, 59.3 km
Coyote, 21.0 km
Coyote, 16.7 km
Zebra, 19.6 km
Lynx, 2.1 km
Lynx, 129.8 km
Lynx 4.6 km
GT 1
GT 2
GT 3
ST
Victoria
Randenigala
Wimalasurendra
Samanalawewa
CEYLON ELECTRICITY BOARD
JAPAN INTERNATIONAL COOPERATION AGENCY
NIPPON KOEI CO., LTD. Consulting Engineer, TOKYO JAPAN
MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA
TITLE
図 6.2 - 1
1995年CEB既存系統図
(1995年11月28日 19:00)



PRESENT SYSTEM ANALYSIS
28 NOVEMBER 1995 NIGHT PEAK
95NIA1.SAV, 95NIA1.DAW THU, OCT 10 1996 13:33

50 % RATED
0.950UV 1.050OV
KV: ≤50 ≤120 ≤200

BUS - VOLTAGE (PU)
BRANCH - MW/MVAR
EQUIPMENT - MW/MVAR

CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA	TITLE 図 6.2-2 1995年潮流計算結果

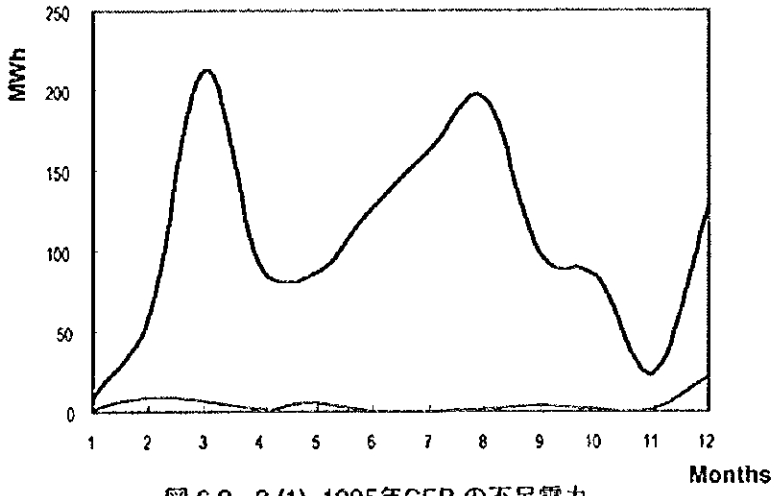


図 6.2 - 3 (1) 1995年CEB の不足電力

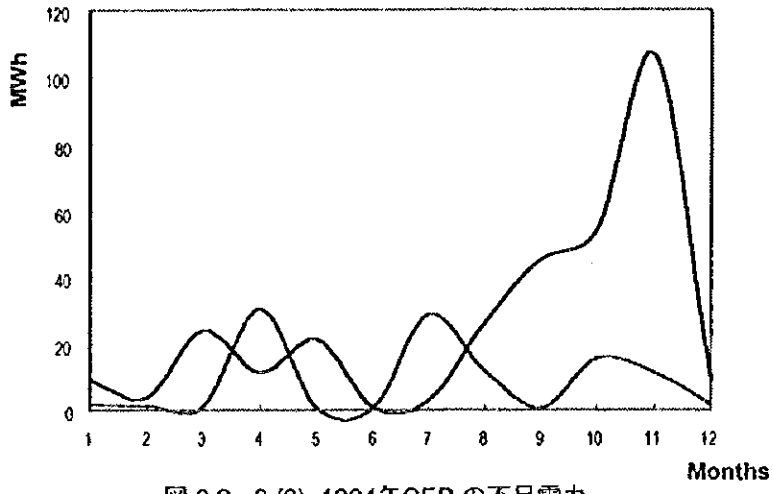


図 6.2 - 3 (2) 1994年CEB の不足電力

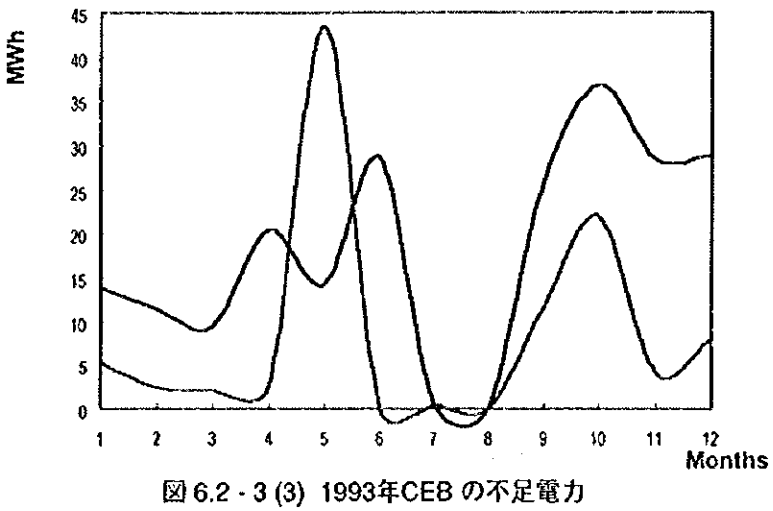


図 6.2 - 3 (3) 1993年CEB の不足電力

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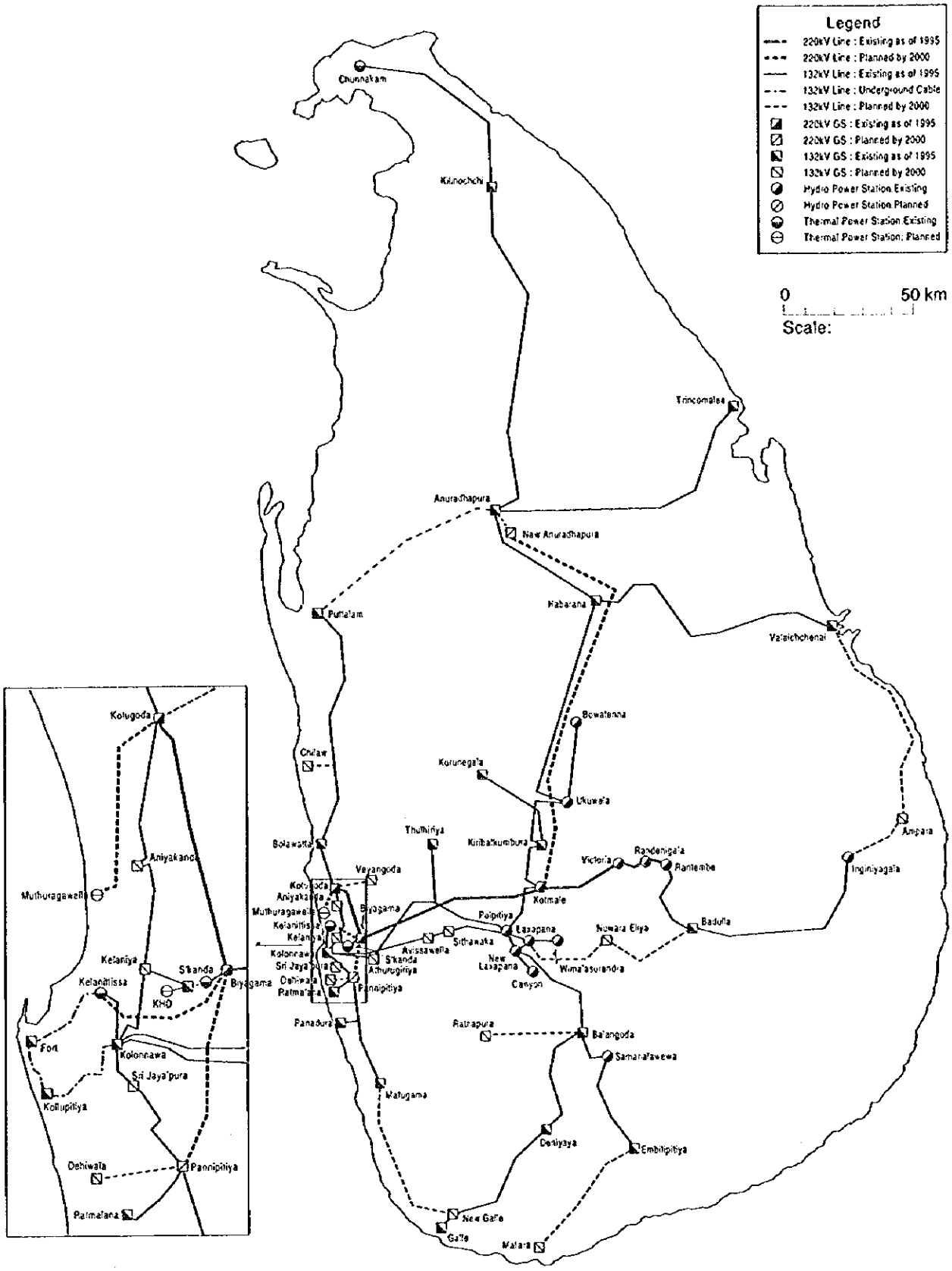
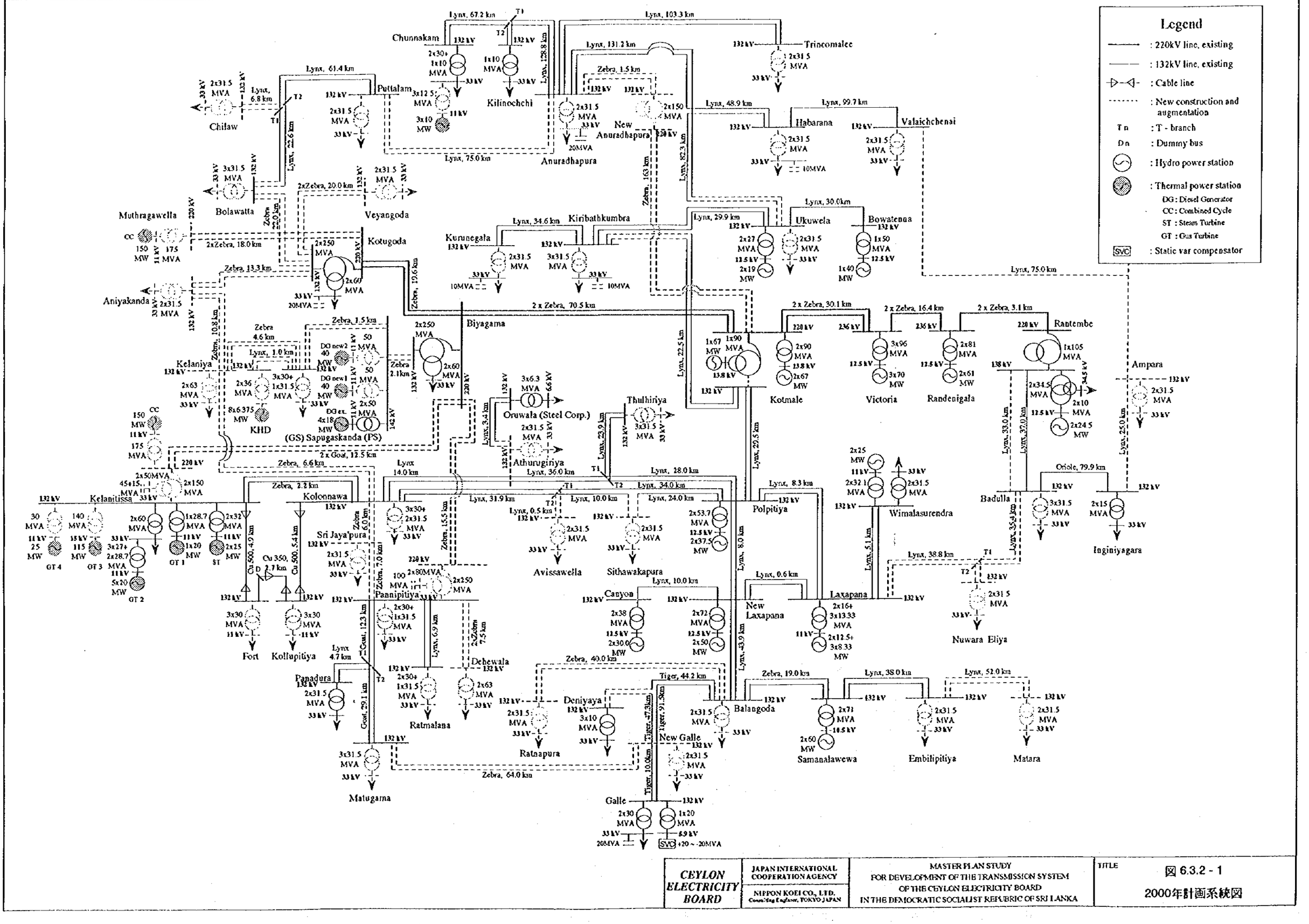
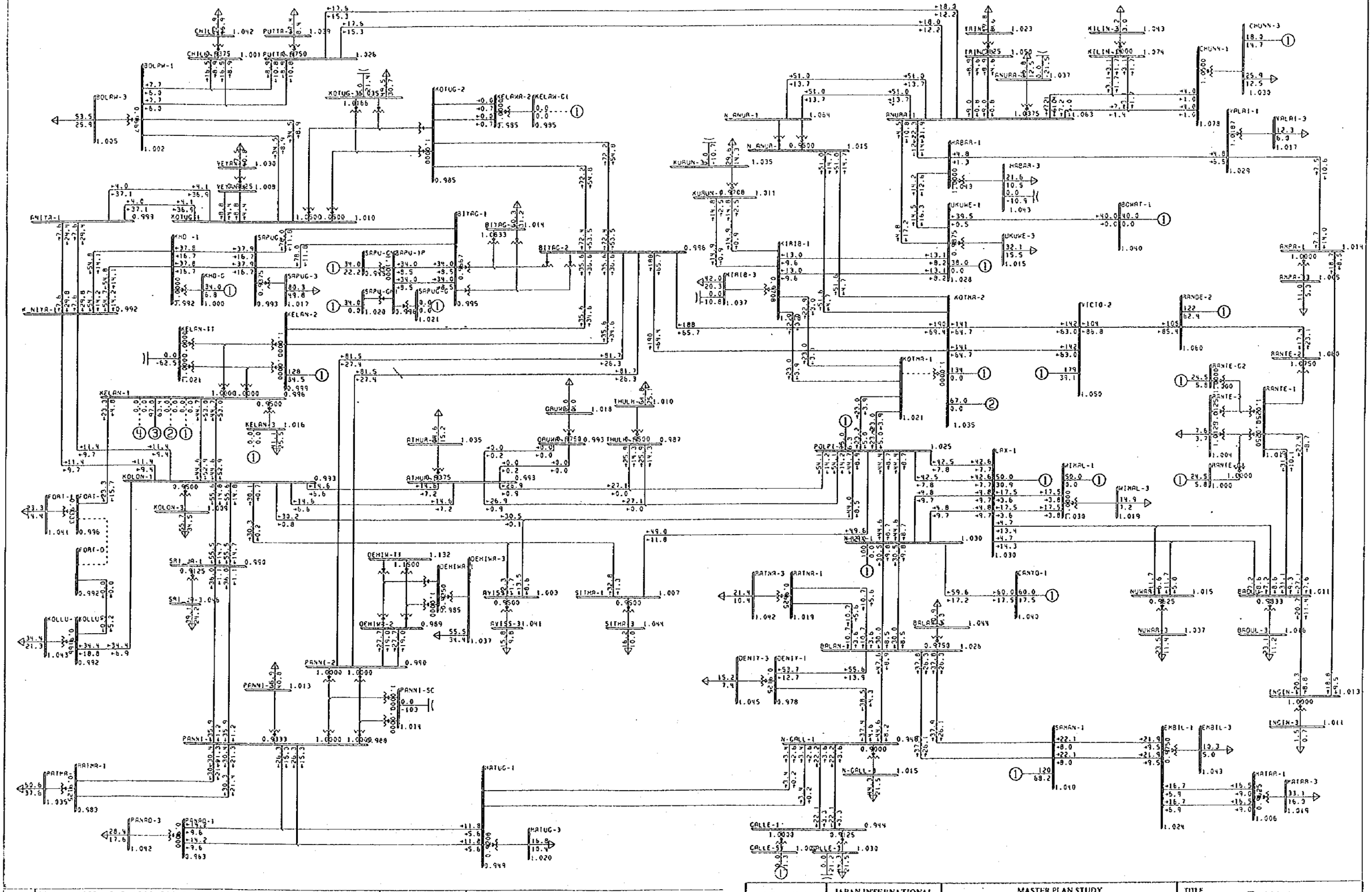


CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY / NIPPON KOEI CO., LTD. Consulting Engineers	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA	TITLE 図 6. 3. 1 - 1 2000年時点におけるCEBの送電系統


Legend
: 220kV line, existing
: 132kV line, existing
: Cable line
: New construction and augmentation
Tn : T - branch
Dn : Dummy bus
: Hydro power station
: Thermal power station
DG : Diesel Generator
CC : Combined Cycle
ST : Steam Turbine
GT : Gas Turbine
SVC : Static var compensator
Chunnakam
Kilinochchi
Puttalam
Chilaw
Trincomalee
New Anuradhapura
Anuradhapura
Habarana
Valaichchenai
Bolawatta
Veyangoda
Muthragawella
Kotugoda
Kurunegala
Kiribathkumbra
Ukuwela
Bowatenna
Aniyakanda
Biyagama
Kelaniya
KHD
(GS) Sapugaskanda (PS)
Oruwala (Steel Corp.)
Athuruginiya
Thulhiriya
Kotmale
Victoria
Randenigala
Rantembe
Ampara
Kelanitissa
Kolonnawa
Sri Jaya'pura
Pannipitiya
Fort
Kollupitiya
Ratmalana
Dehewala
Panadura
Matugama
Ratnapura
Deniyaya
Avissawella
Sithawakapura
Canyon
Galle
New Galle
Balangoda
Polpitiya
New Laxapana
Laxapana
Wimalasurendra
Badulla
Inginiyagara
Nuwara Eliya
Samanalawewa
Embilipitiya
Matara
CEYLON ELECTRICITY BOARD
JAPAN INTERNATIONAL COOPERATION AGENCY
NIPPON KOEI CO., LTD. Consulting Engineer, TOKYO JAPAN
MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA
TITLE
図 6.3.2 - 1
2000年計画系統図



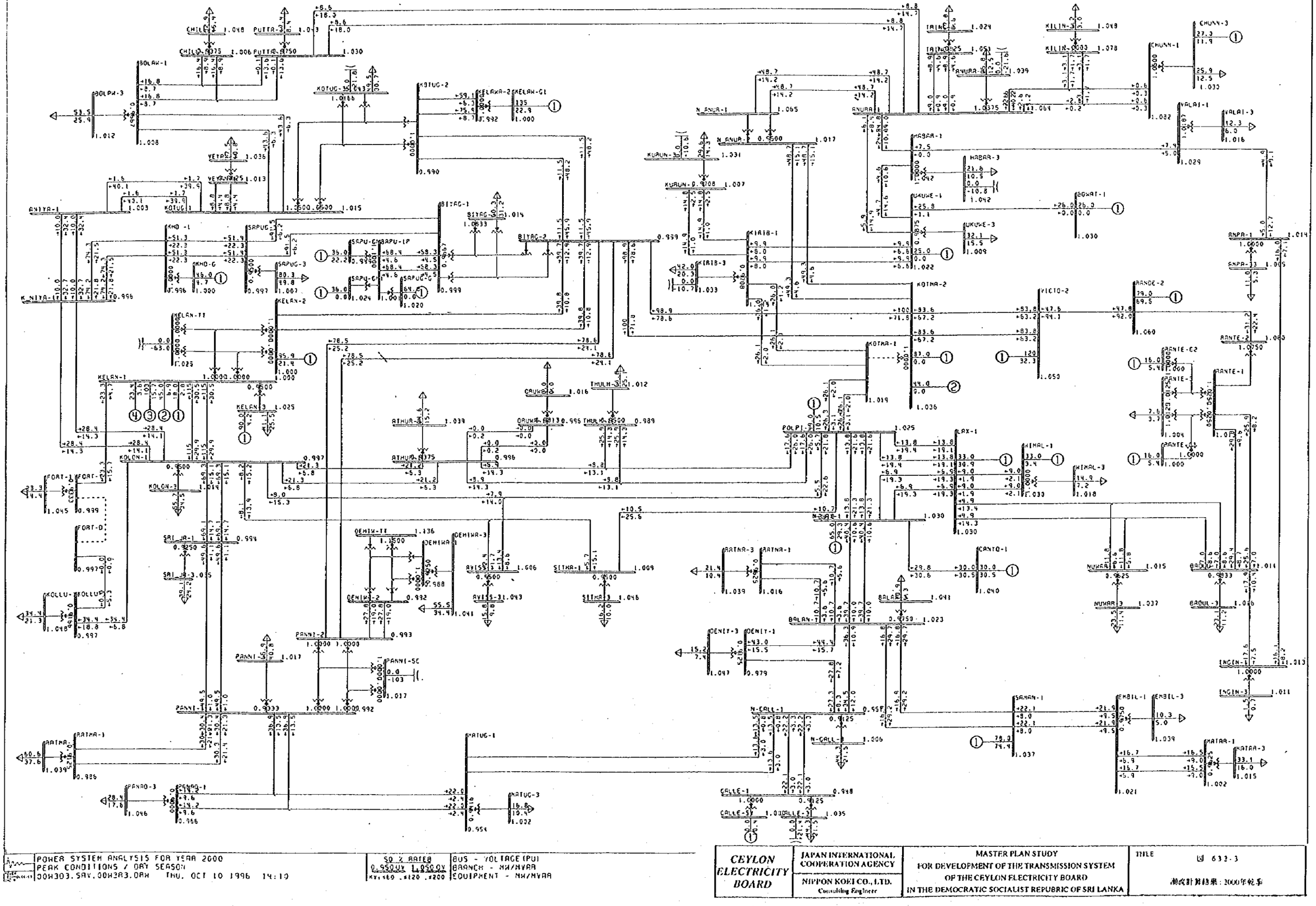
POWER SYSTEM ANALYSIS FOR YEAR 2000
PEAK CONDITIONS / RAINY SEASON
00W3R3.SAV, 00W3R3.DRW THU, OCT 10 1996 14:07

50 % RATED
0.950KV 1.050KV
MW: 560 .8120 .6200

BUS - VOLTAGE (PU)
BRANCH - MW/MVAR
EQUIPMENT - MW/MVAR

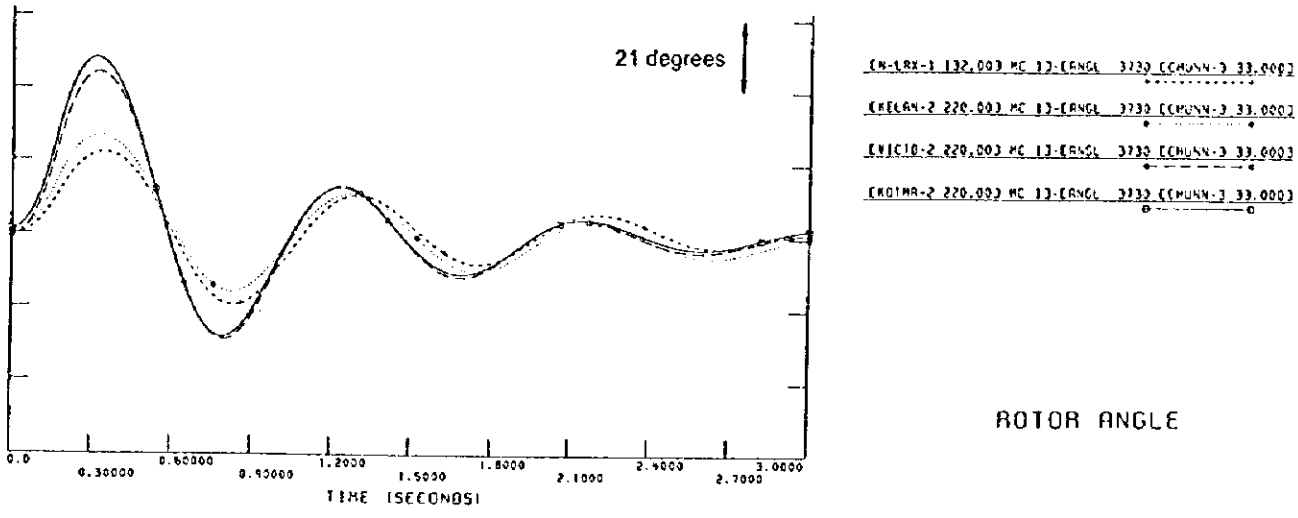
CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA

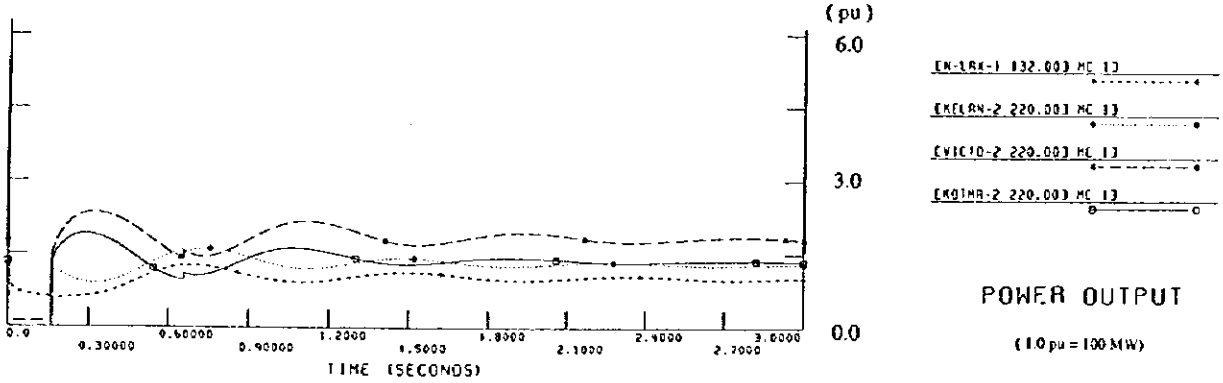
TITLE 図 6.3.2-2
潮流計算結果：2000年雨期

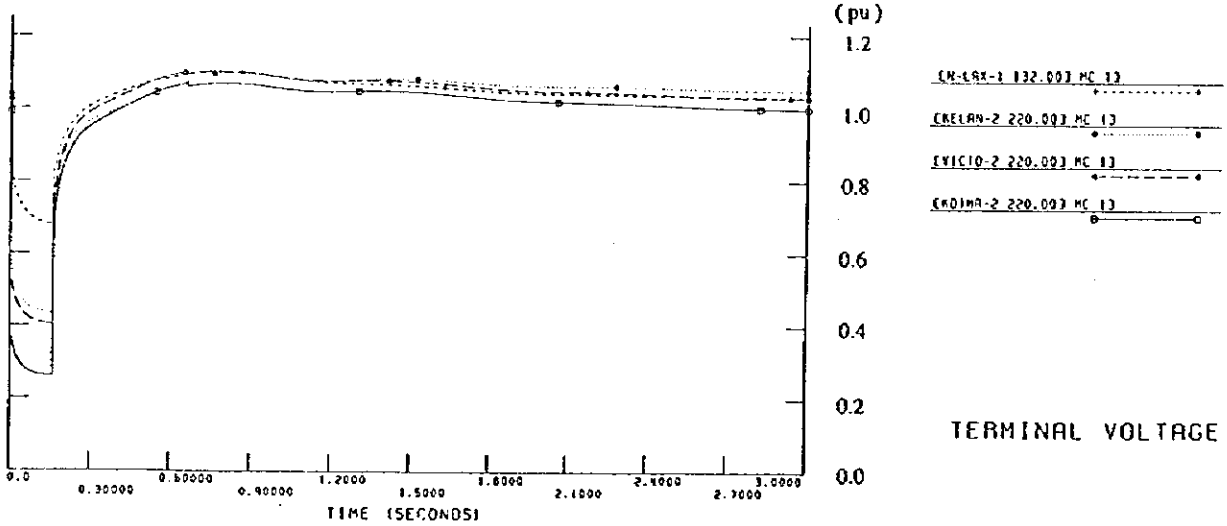


POWER SYSTEM ANALYSIS FOR YEAR 2000 PEAK CONDITIONS / DRY SEASON 00H303.SAV, 00H3R3.DRW THU, OCT 10 1996 14:19	50 % RATED 0.950 UV 1.050 OV KV: ≤69 ≤120 ≤200	BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR	

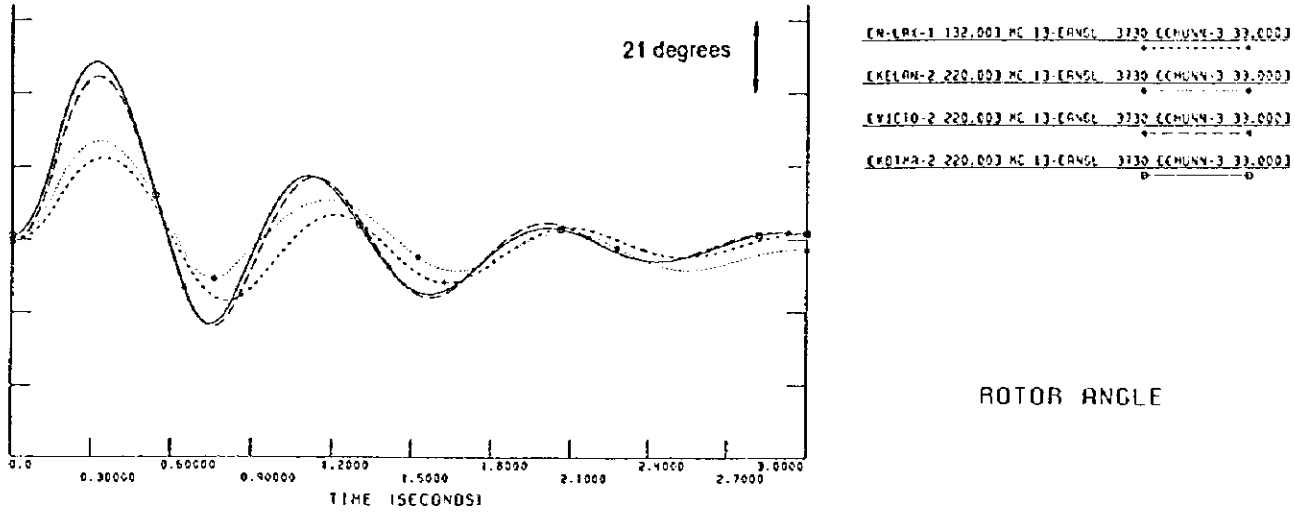
CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA	TITLE 図 6.3.2-3 潮流計算結果：2000年乾季

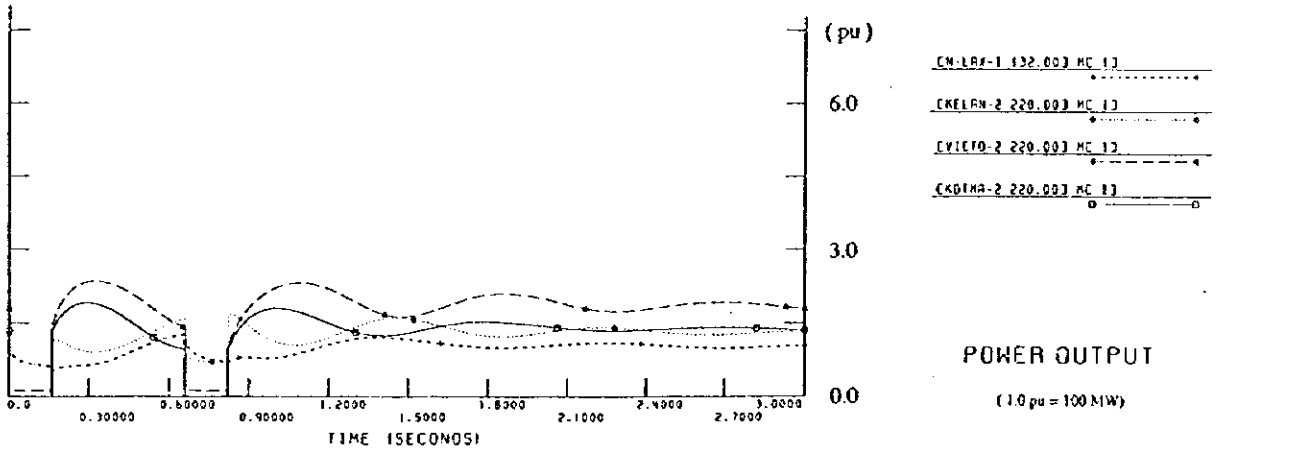


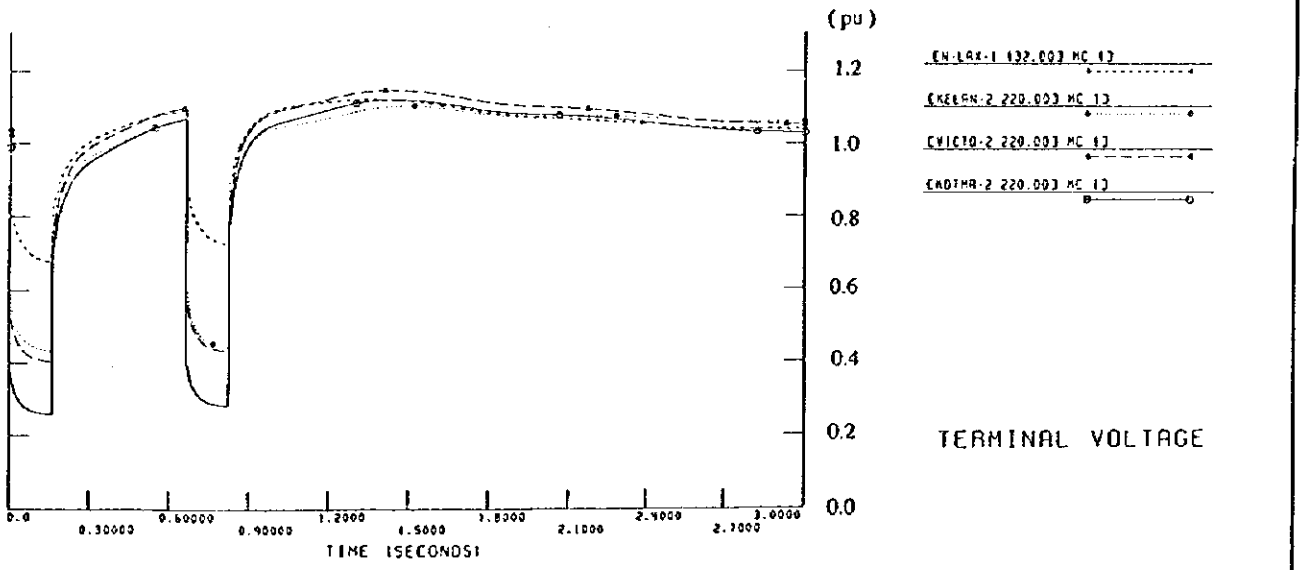




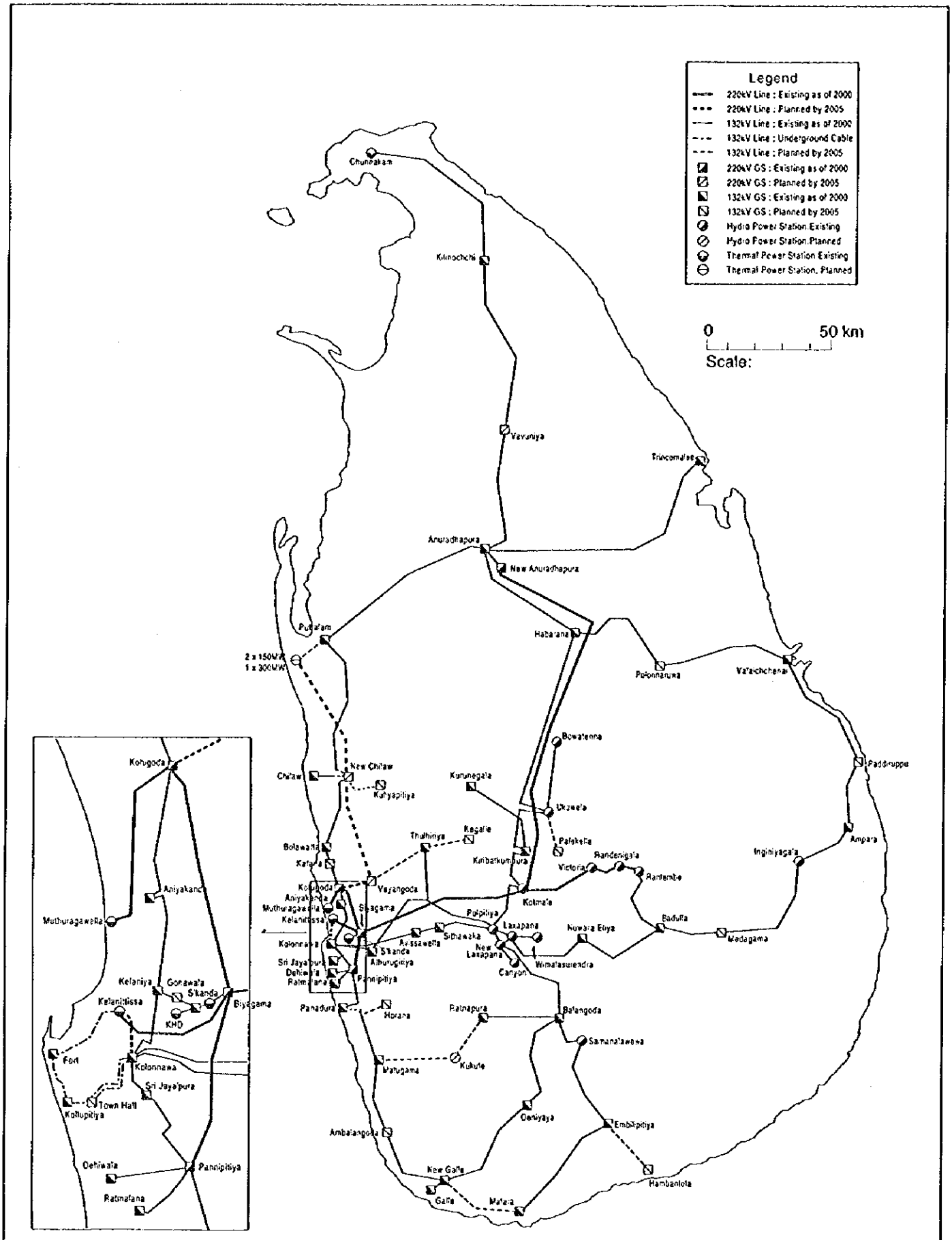
CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA	TITLE 図 6.3.2 - 4 過渡安定度計算結果：2000年雨期 (ｺﾄﾗﾜ - ﾍﾞﾝﾀﾜ 220kV線再閉路成功)



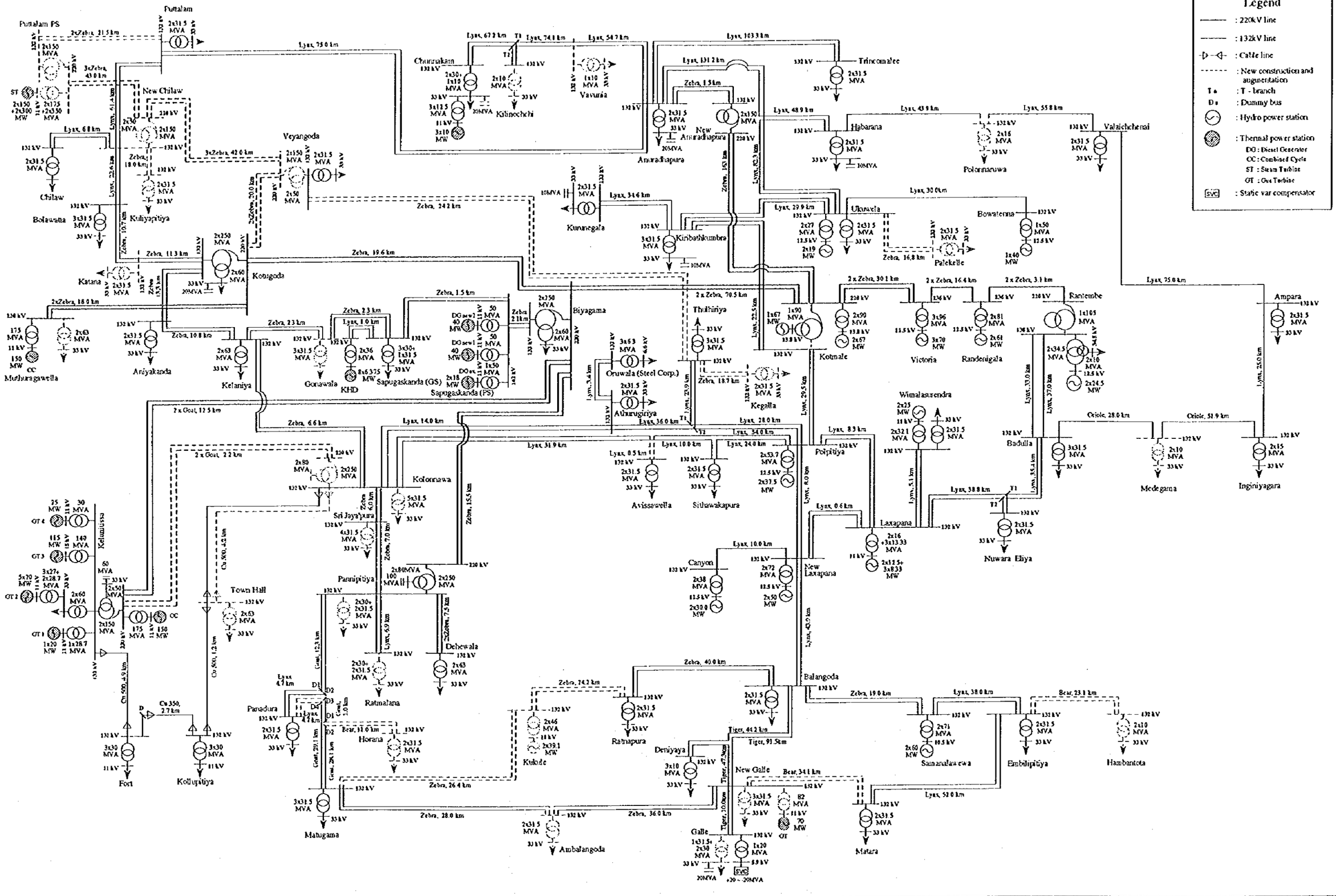




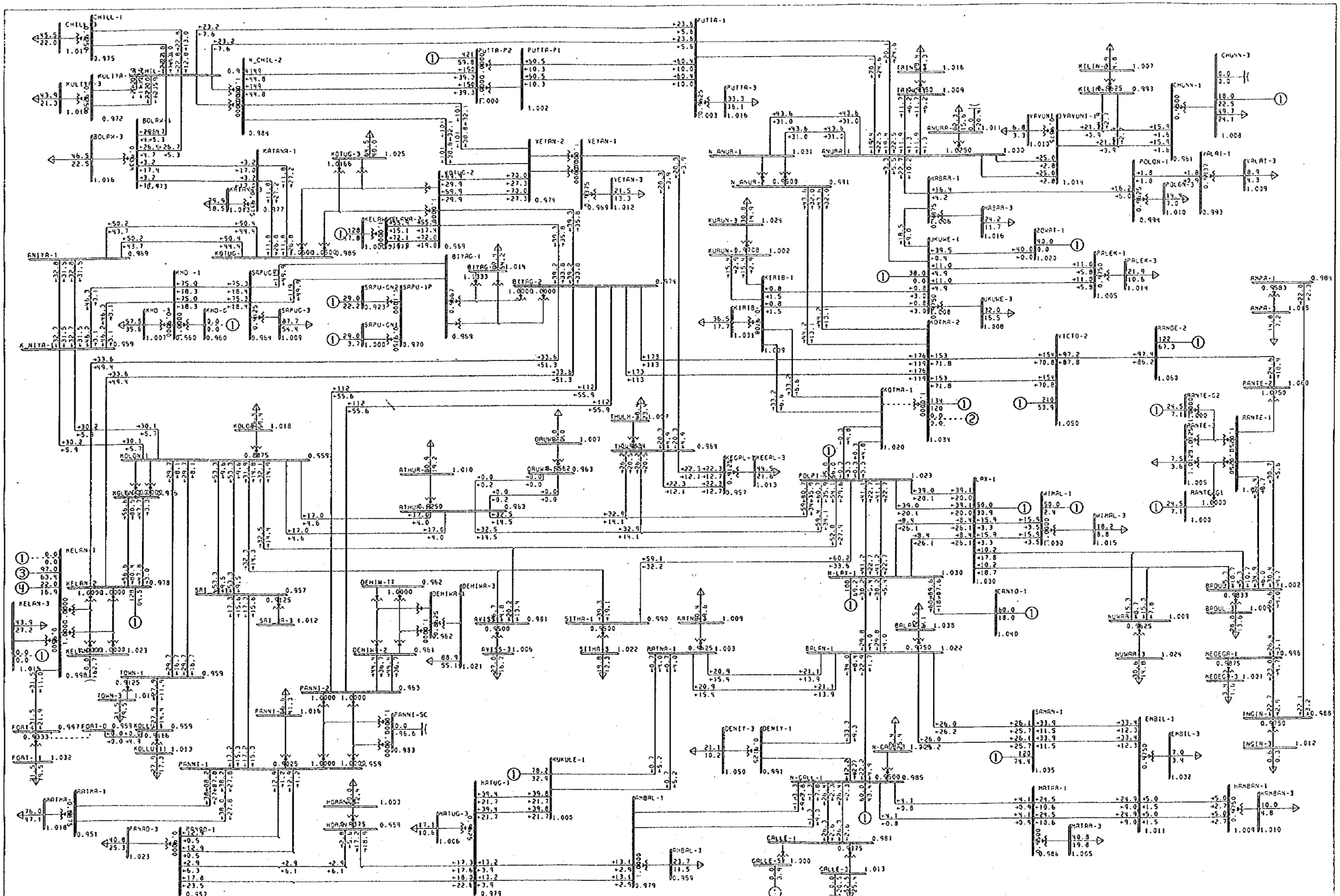
CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA	TITLE 図 6.3.2 - 5 過渡安定度計算結果：2000年雨期 (コトムレ－セ゛ウ゛ 220kV線両回路3失陥)

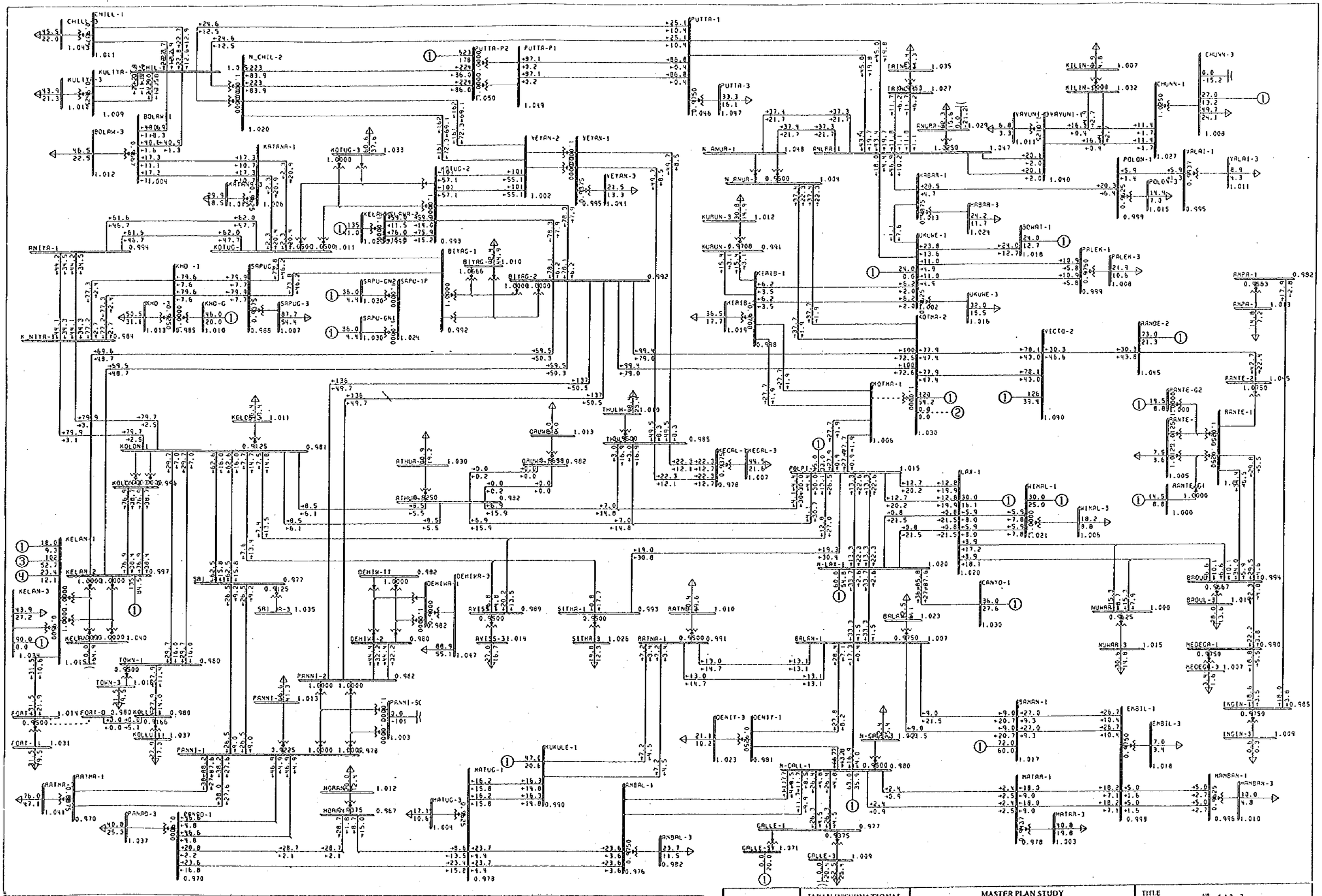


CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineers	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA	TITLE 図 6.4.1-1 2005年時点におけるCEBの送電系統



CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer, TOKYO JAPAN	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA	TITLE 図 6.4.2 - 1 2005年計画系統図


POWER SYSTEM ANALYSIS FOR YEAR 2005
PEAK CONDITIONS /RAINY SEASON
OSW2R2.SAV.2005.DRW THU. OCT 10 1996 14:35
50 % RATED
0.950KV 1.050KV
KV: ≤60 ,≤120 ,≤200
BUS - VOLTAGE (PU)
BRANCH - MW/MVAR
EQUIPMENT - MW/MVAR
CEYLON ELECTRICITY BOARD
JAPAN INTERNATIONAL COOPERATION AGENCY
NIPPON KOEI CO., LTD.
Consulting Engineer
MASTER PLAN STUDY
FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM
OF THE CEYLON ELECTRICITY BOARD
IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA
TITLE
図 6.4.2-2
潮流計算結果：2005年雨季



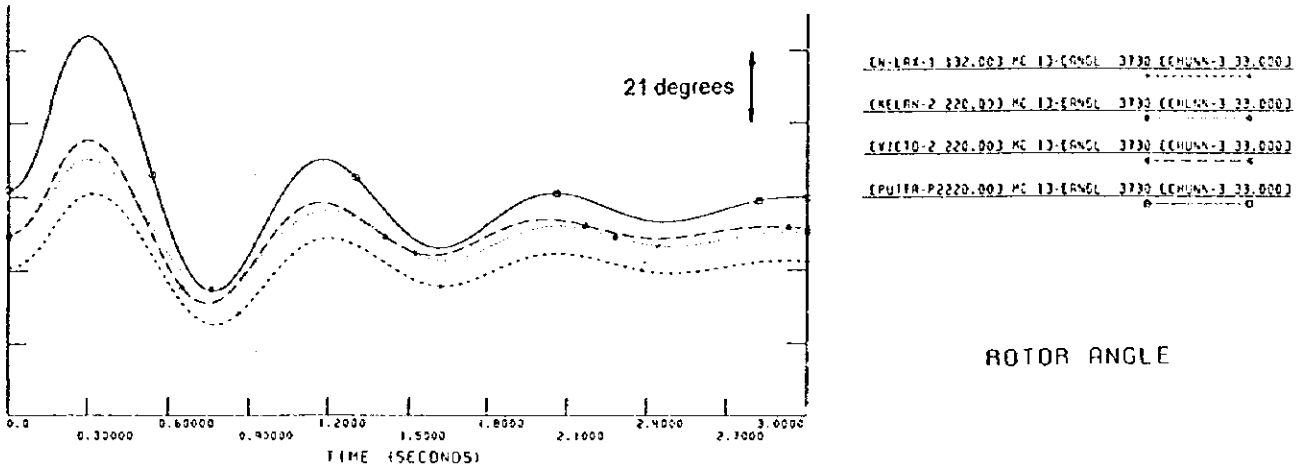
POWER SYSTEM ANALYSIS FOR YEAR 2005
PEAK CONDITIONS / DRY SEASON
DSH201.SAV , 2005.DAW THU, OCT 10 1996 14:38

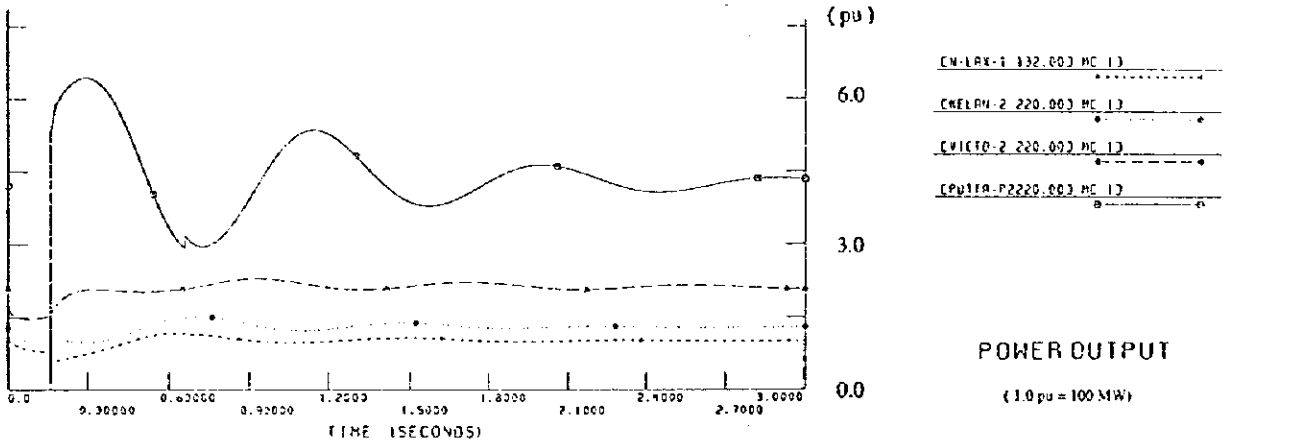
50 % RATED
0.950UV 1.050OV
AV:560 .6820 .4200

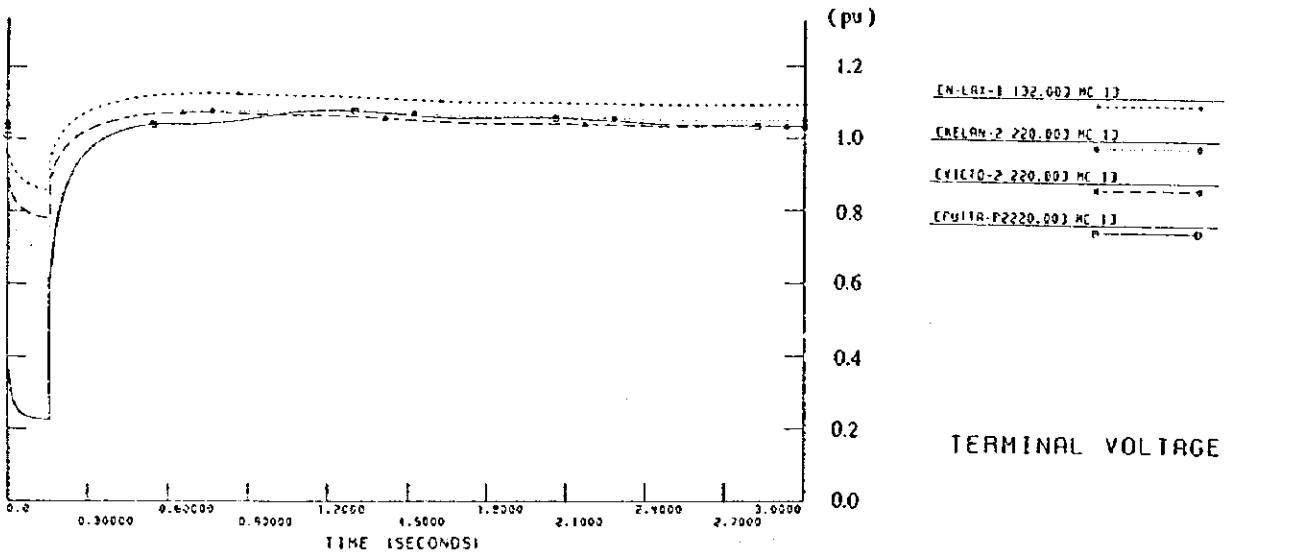
BUS - VOLTAGE (PU)
BRANCH - MW/MVAR
EQUIPMENT - MW/MVAR

CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA

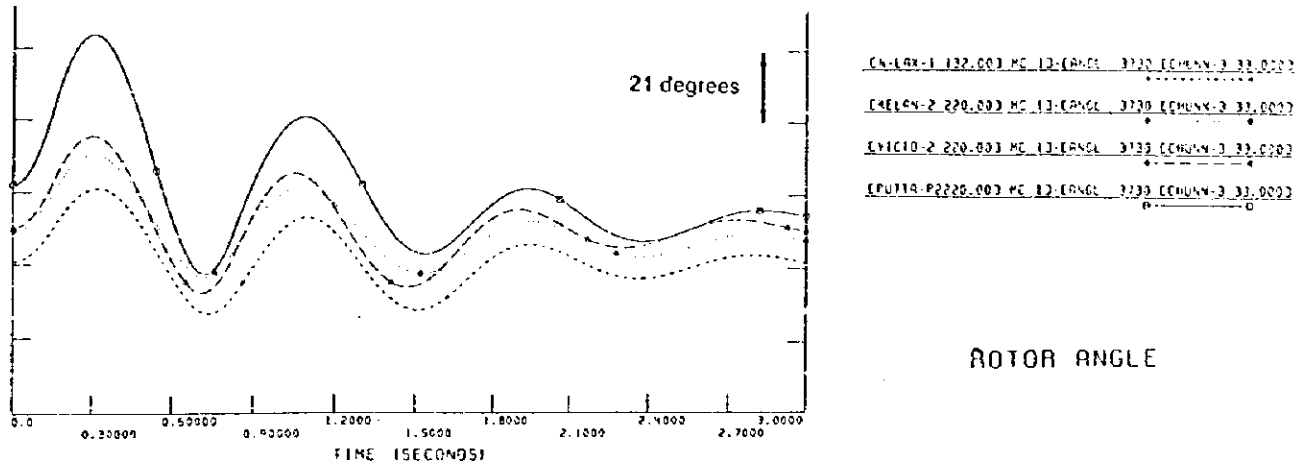
TITLE 図 6.4.2-3
潮流計算結果：2005年乾季

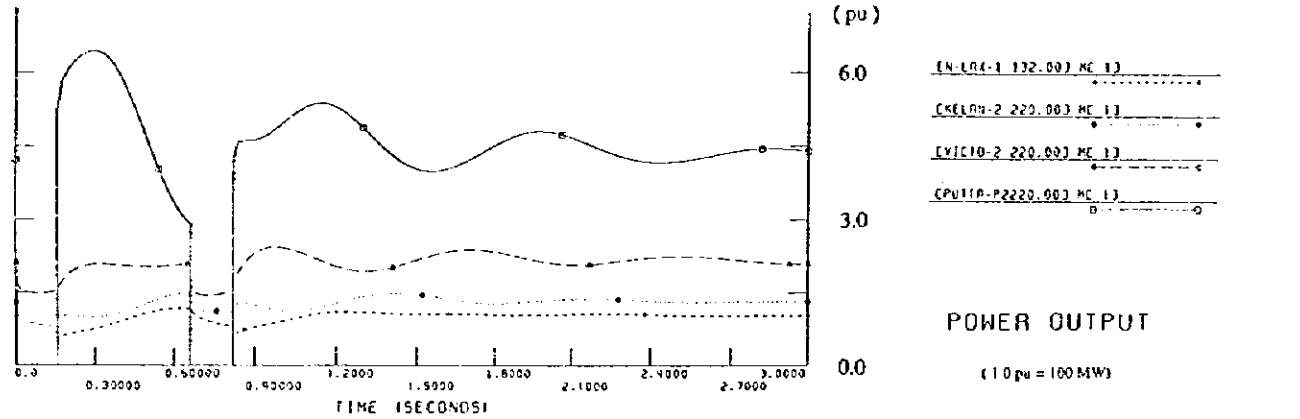


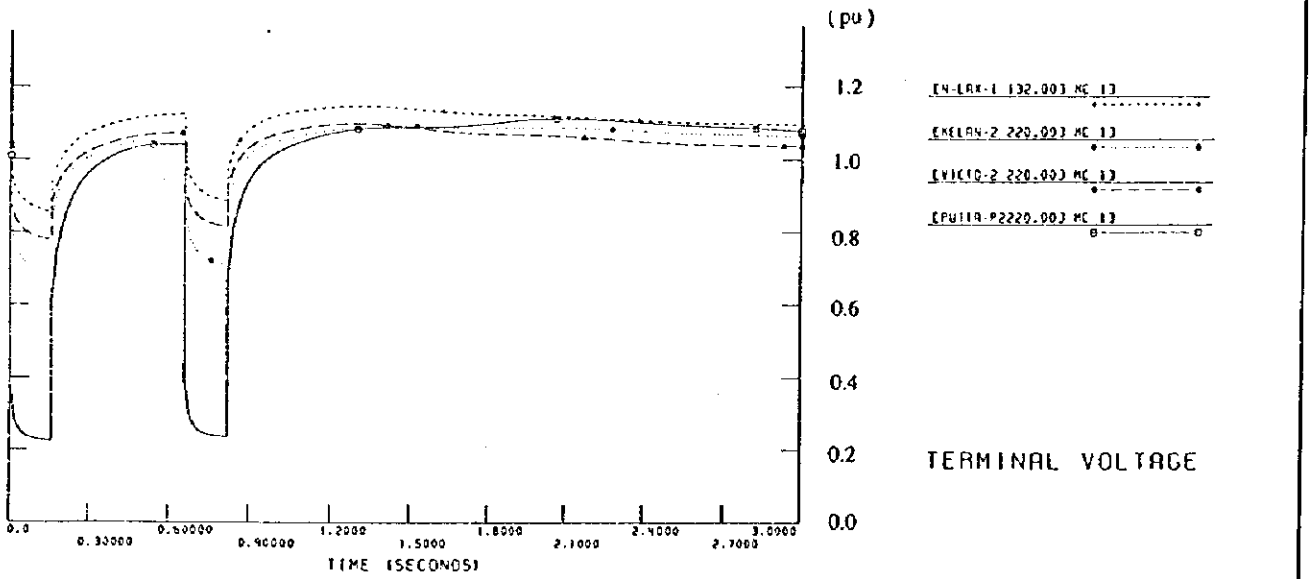




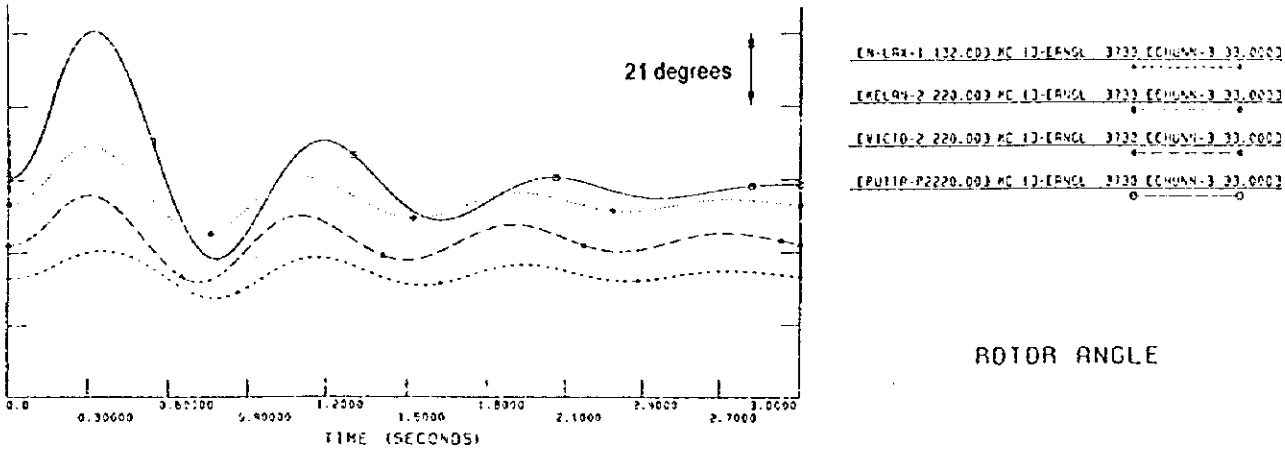
CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA	TITLE 図 6.4.2 - 4 過渡安定度計算結果：2005年雨期 (ｶﾄﾏﾚ - ﾋﾟﾀﾋﾔ 220kV線再閉路成功)

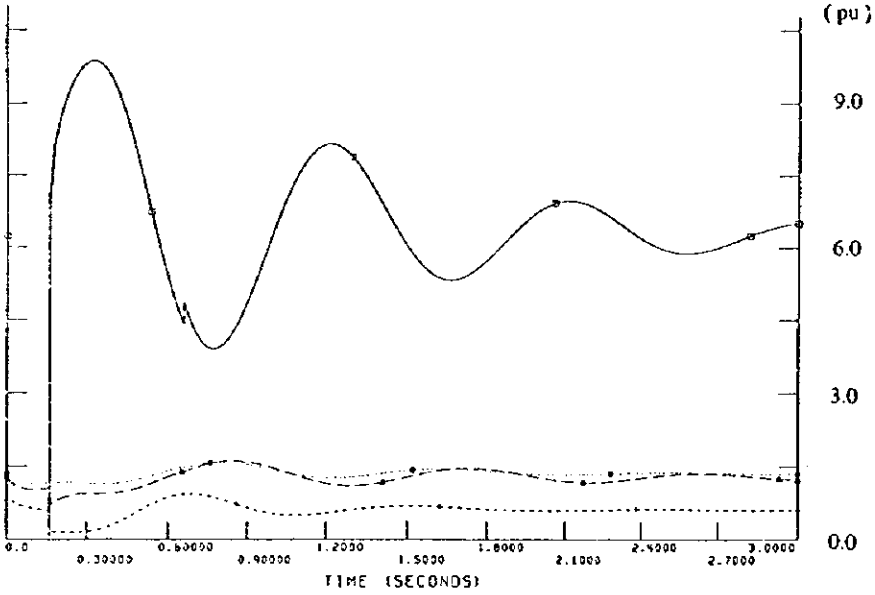


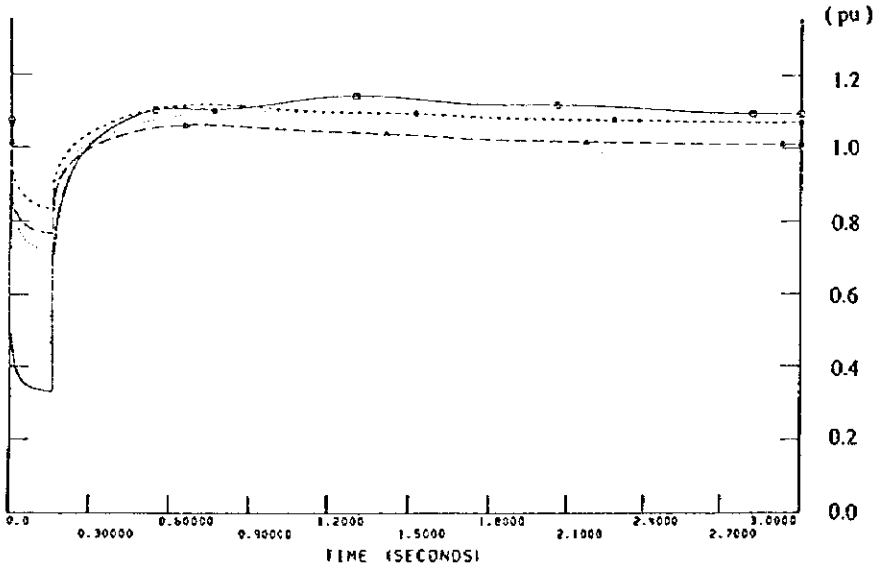




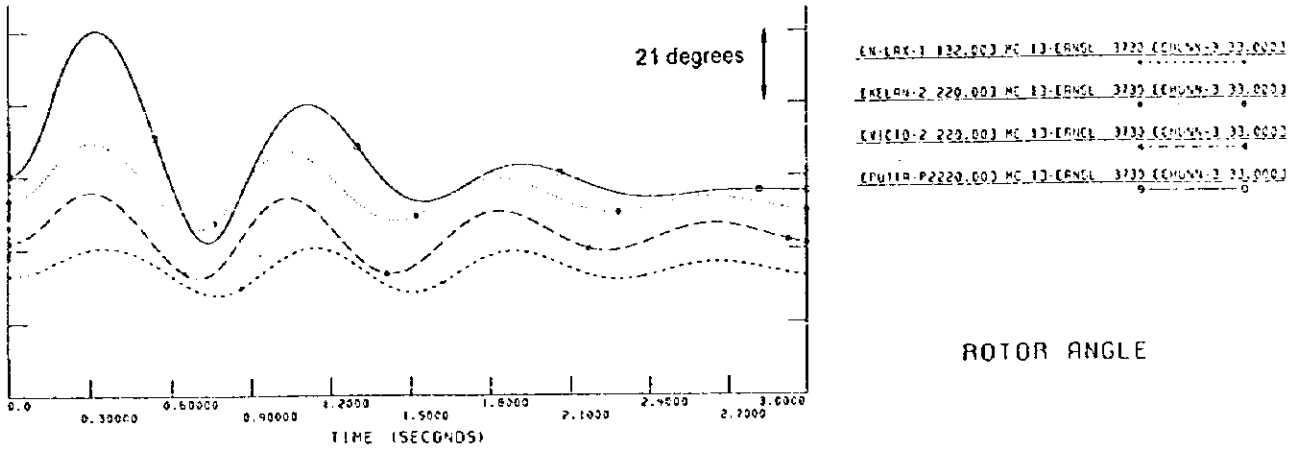
CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA	TITLE 図 6.4.2 - 5 過渡安定度計算結果：2005年雨期 (ｺﾛﾝﾎﾞ・ﾋﾟﾘﾔﾀﾝﾀﾞ220kV線再閉路失敗)

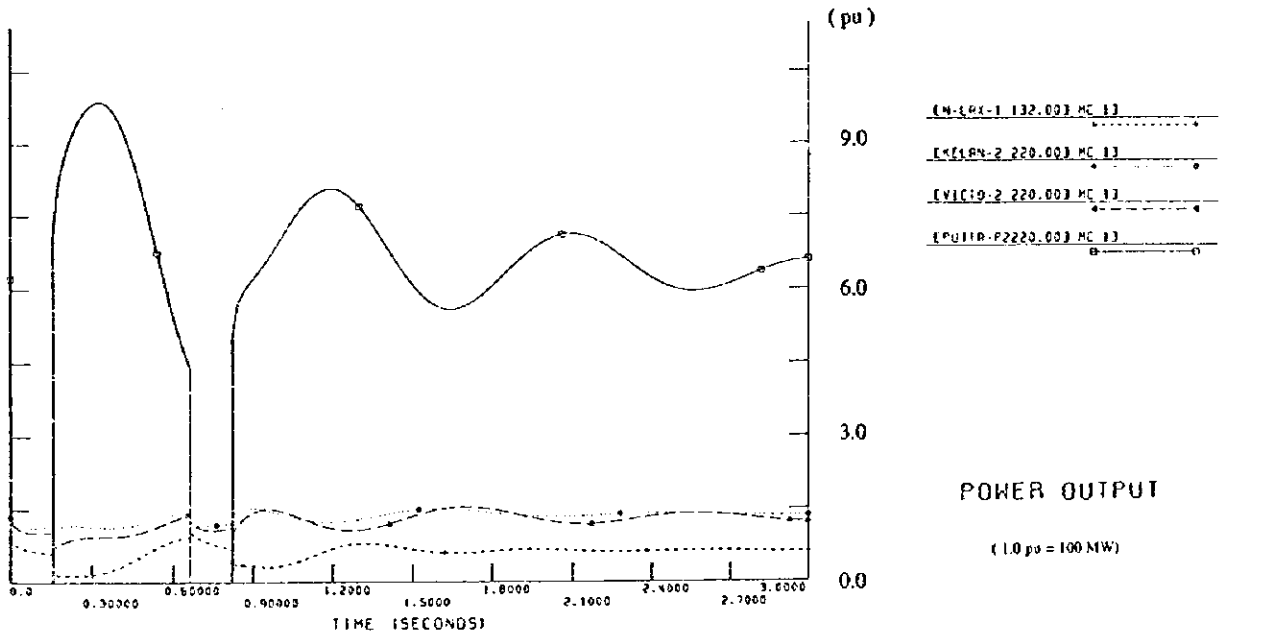


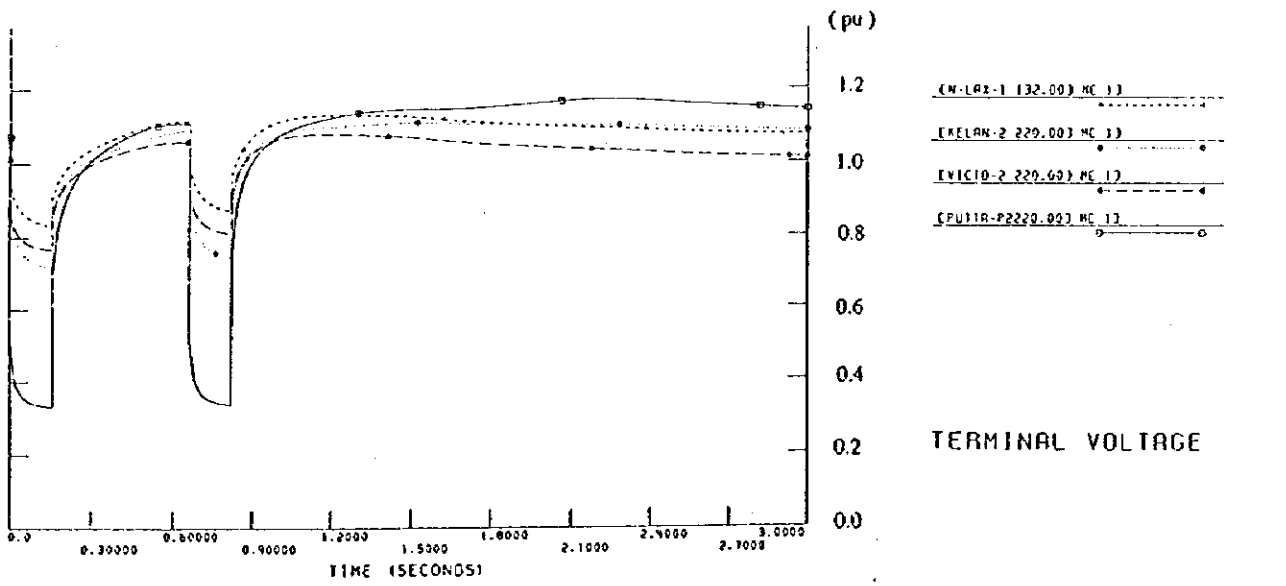




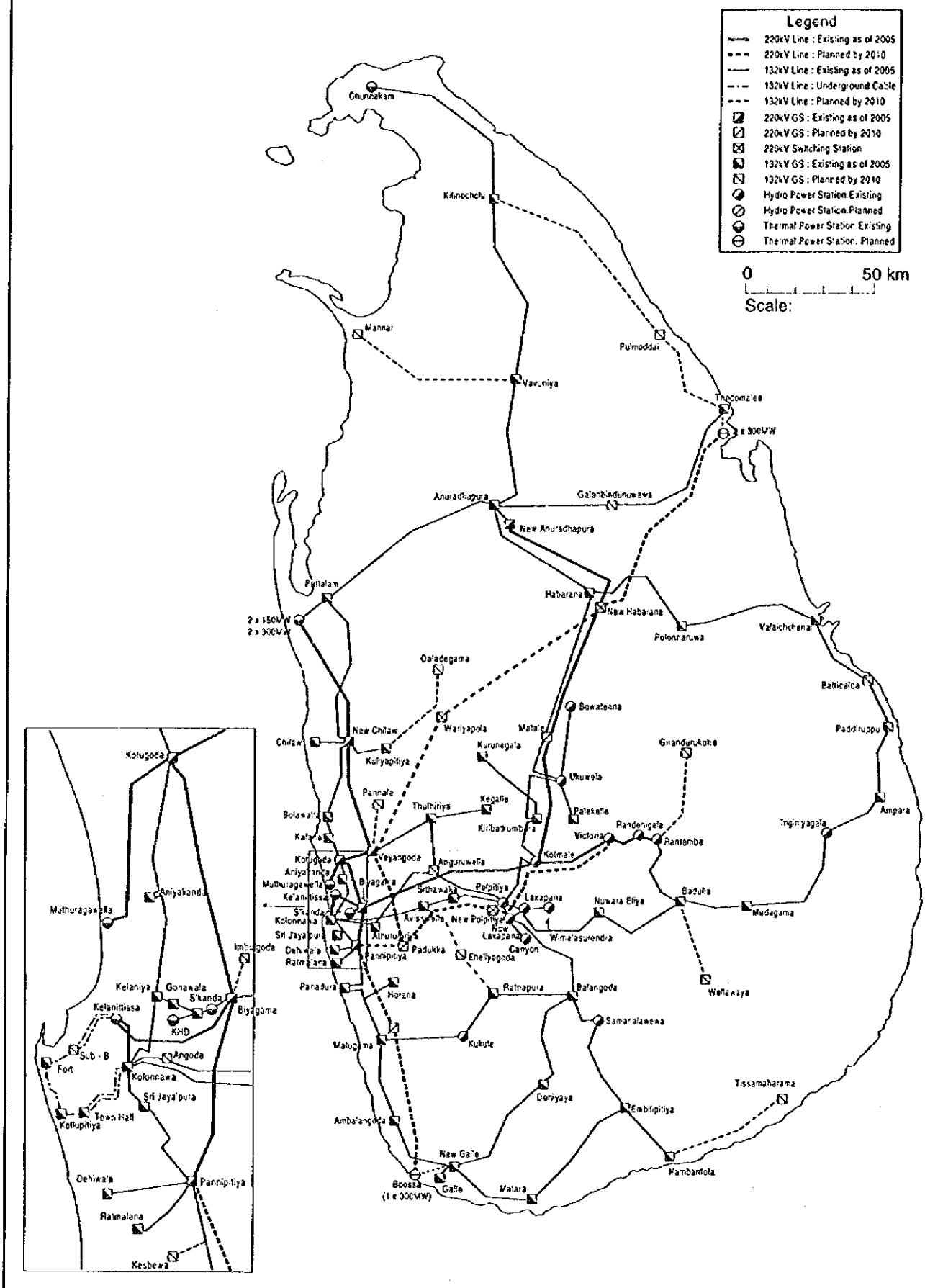
CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA	TITLE 図 6.4.2 - 6 過渡安定度計算結果：2005年乾季 (アヌラダプラ発電所 - 新たな220kV線再閉路成功)



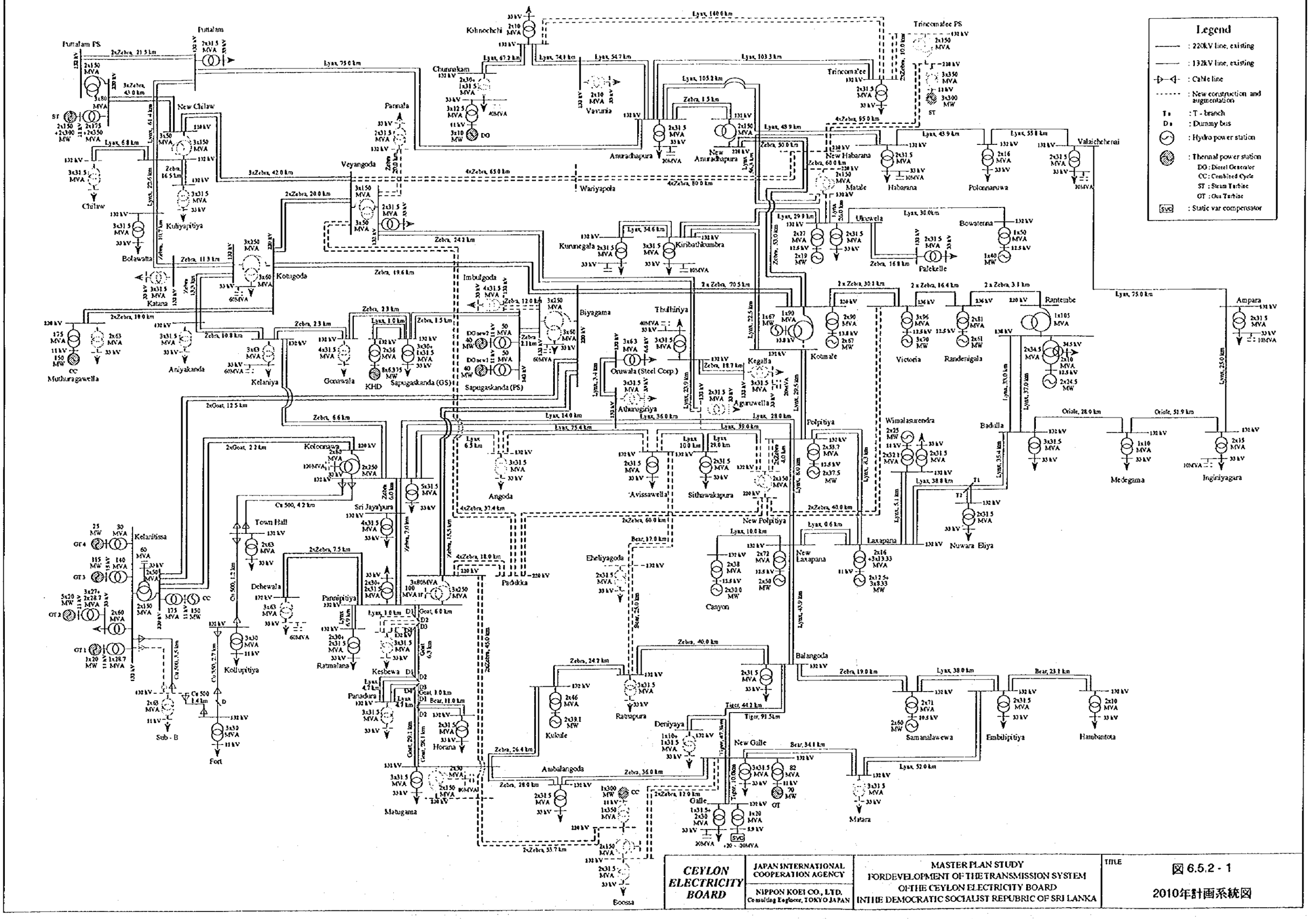


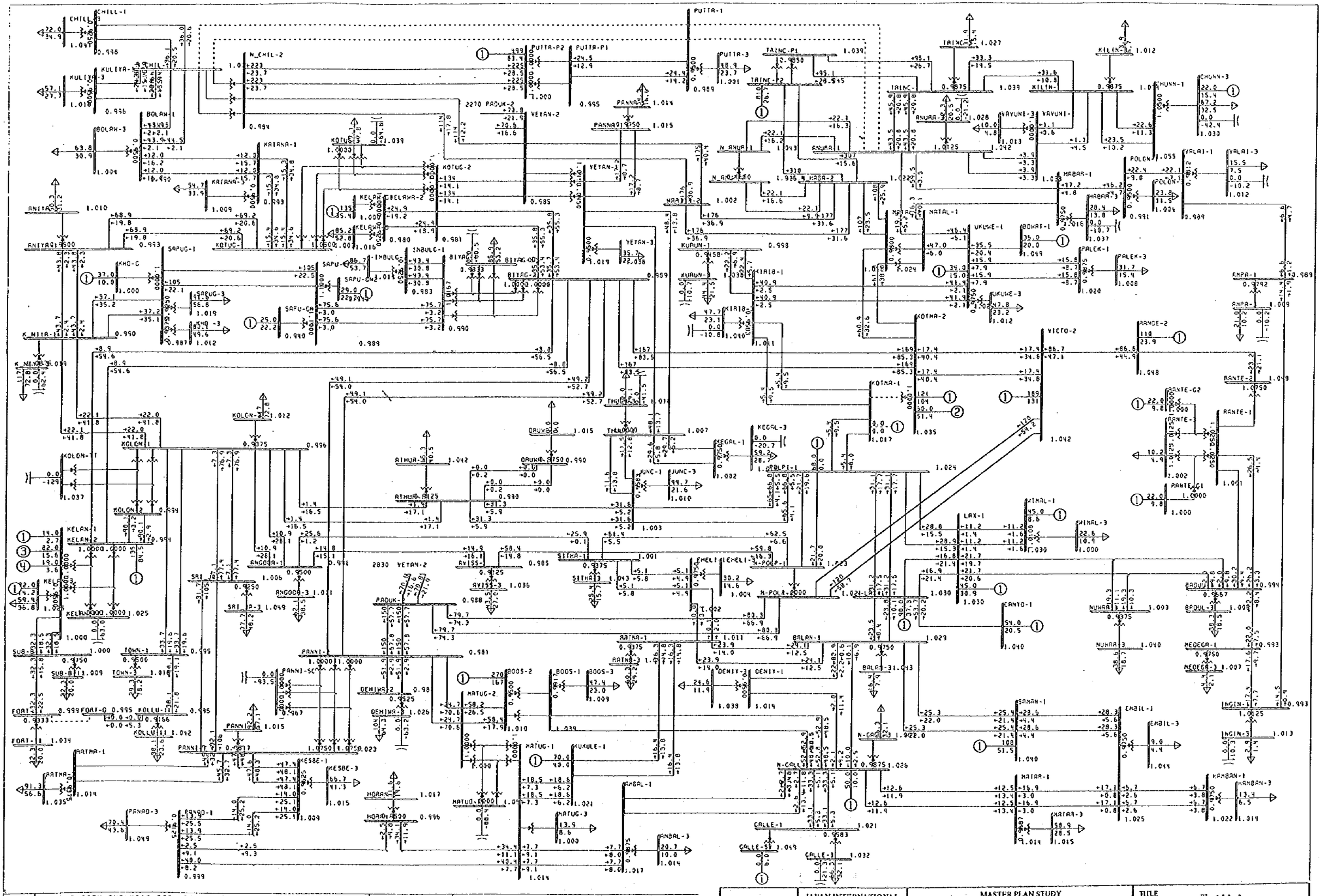


CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA	TITLE 図 6.4.2 - 7 過渡安定度計算結果：2005年乾季 (ケラワラ発電所 - 新Puttalam 220kV線両回線故障)



CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineers	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA	TITLE 図 6.5－1 2010年時点におけるCEBの送電系統


Legend
: 220kV line, existing
: 132kV line, existing
: Cable line
: New construction and augmentation
T-n : T - branch
Dm : Dummy bus
: Hydro power station
: Thermal power station
DO : Diesel Generator
CC : Combined Cycle
ST : Steam Turbine
GT : Gas Turbine
SVC : Static var compensator
Puttalam PS
Puttalam
Kothmale
Trincomalee PS
Trincomalee
Chunnakam
Vavuniya
Anuradhapura
New Anuradhapura
New Habarana
Matale
Habarana
Polonnaruwa
Valaichchenai
Parnala
Veyangoda
Wariyapola
New Chilaw
Chilaw
Kuliyapitiya
Bolawatta
Katana
Kotugoda
Kurunegala
Kirinbathkumbra
Ukuwela
Bowatenna
Palekelle
Imbulgoda
Biyagama
Thulhiriya
Kelaniya
Aniyakanda
Muthurajawela
Gonawala
KHD
Sapugaskanda (GS)
Sapugaskanda (PS)
Oruwala (Steel Corp.)
Kegalla
Aturugiriya
Aguruwella
Victoria
Randenigala
Rantembe
Ampara
Kolonnawa
Sri Jayapura
Angoda
Avissawella
Sithawakapura
Polpitiya
New Polpitiya
Wimalasurendra
Badulla
Oriole, 28.0 km
Oriole, 51.9 km
Medegama
Inginiyagara
Kelanitissa
Town Hall
Dehiwala
Panagitiya
Ratmalana
Kesbewa
Panadura
Horana
Padukka
Eheliyagoda
Canyon
New Laxapana
Laxapana
Nuwara Eliya
Kolluptiya
Sub - B
Fort
Matugama
Ambalangoda
Kukule
Ratnapura
Deniyaya
New Galle
Galle
Matara
Balangoda
Samanalawewa
Embilipitiya
Hambantota
Boossa
CEYLON ELECTRICITY BOARD
JAPAN INTERNATIONAL COOPERATION AGENCY
NIPPON KOEI CO., LTD.
Consulting Engineer, TOKYO JAPAN
MASTER PLAN STUDY
FORDEVELOPMENT OF THE TRANSMISSION SYSTEM
OF THE CEYLON ELECTRICITY BOARD
IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA
TITLE
図 6.5.2 - 1
2010年計画系統図

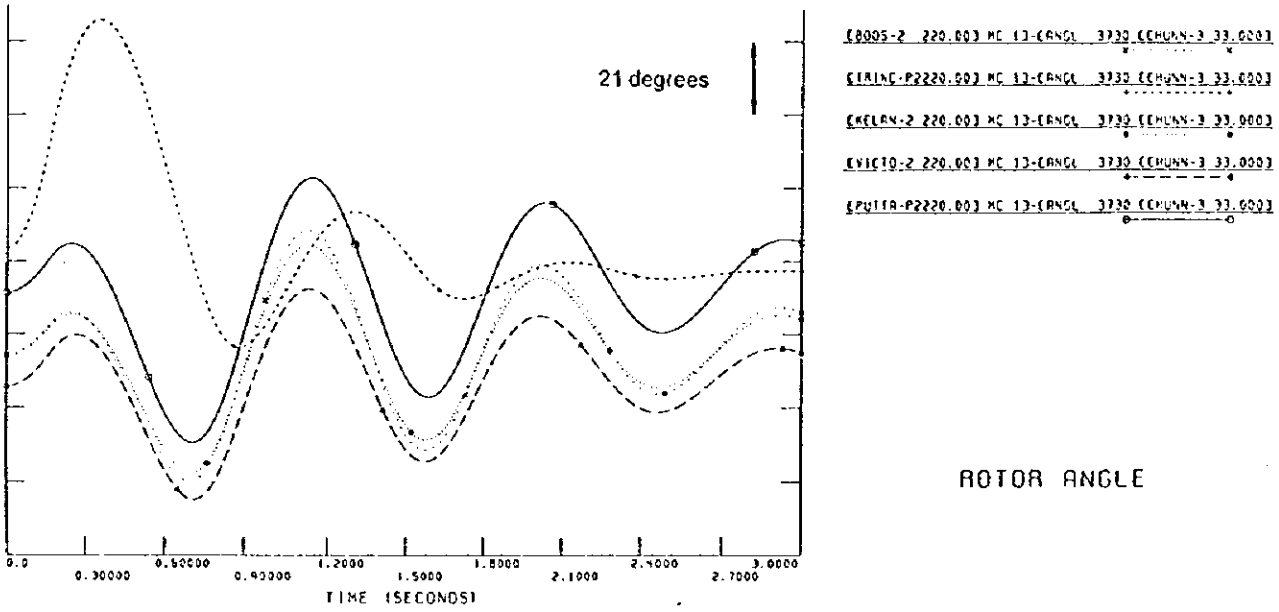


POWER SYSTEN ANALYSIS FOR YEAR 2010
PEAK CONDITIONS
10W2A3.SAV, 2010.DAW THU, OCT 10 1996 14:48

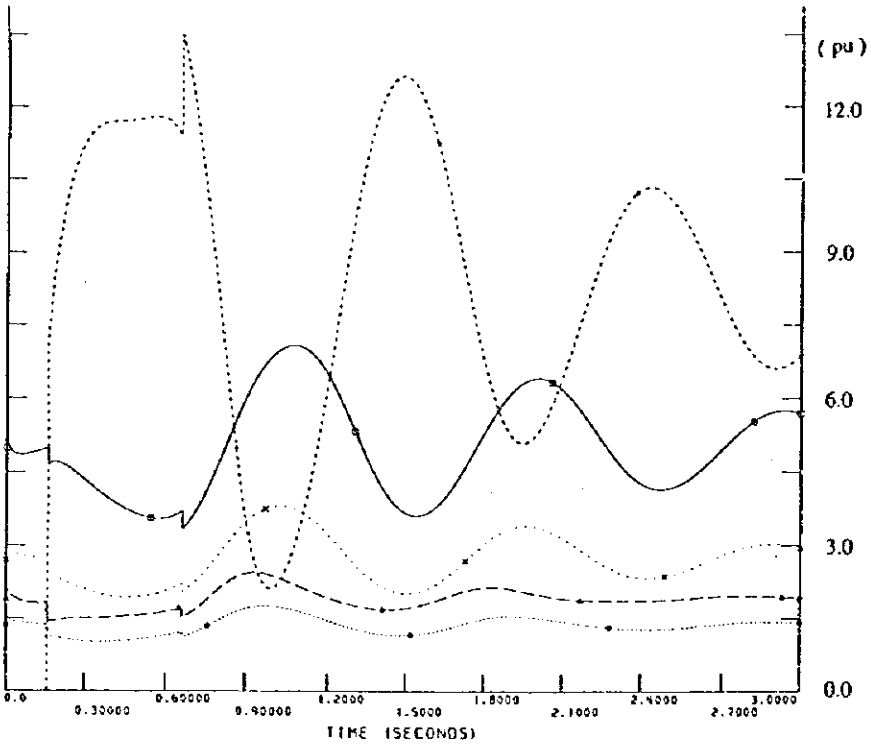
50 % RATED
0.950kV 1.050kV
MW:650 .5120 .4200

BUS - VOLTAGE (PU)
BRANCH - MW/MVAR
EQUIPMENT - MW/MVAR

CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA	TITLE 図 6.5.2-2 潮流計算結果：2010年

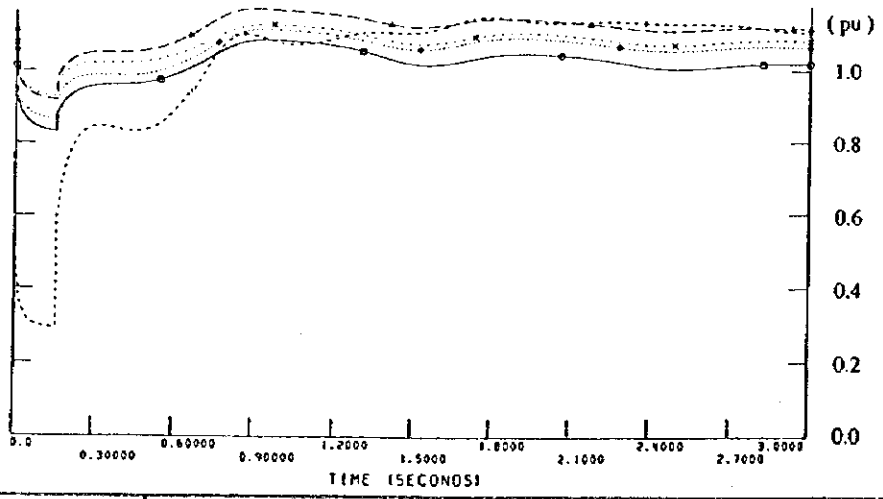


ROTOR ANGLE



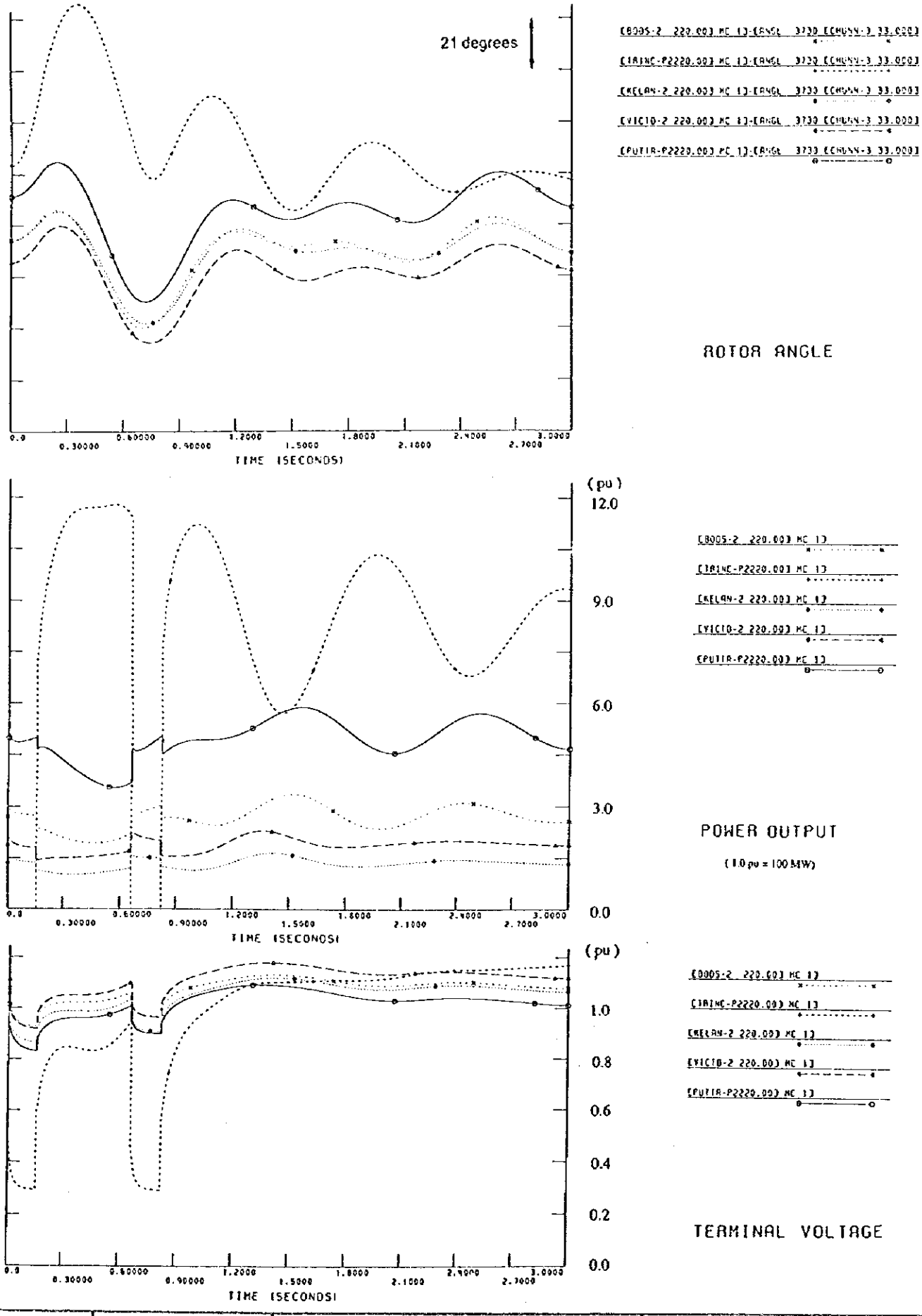
POWER OUTPUT

(1.0 pu = 100 MW)

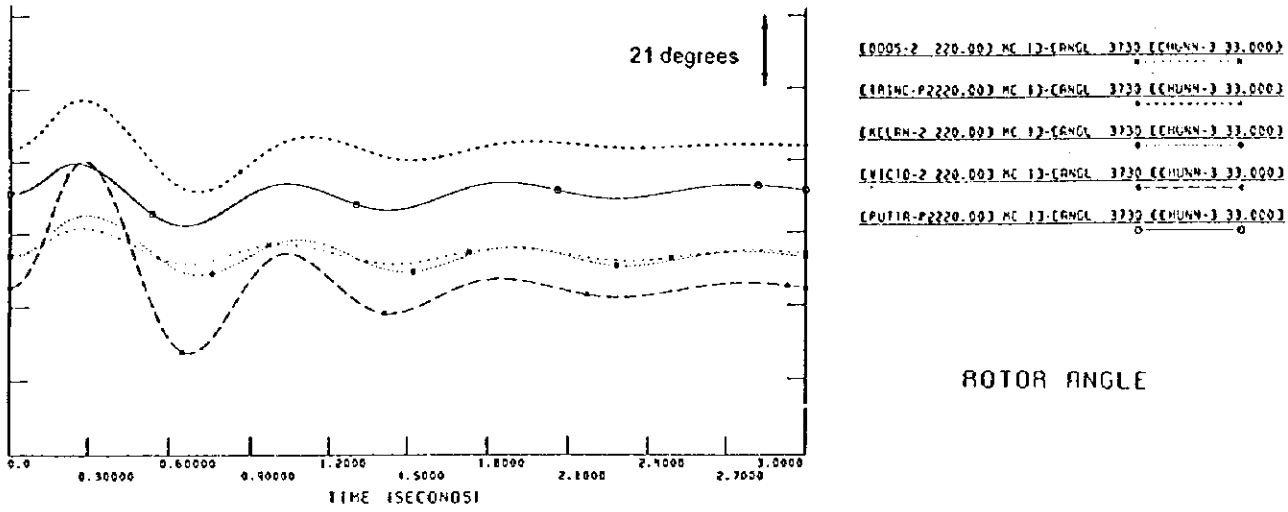


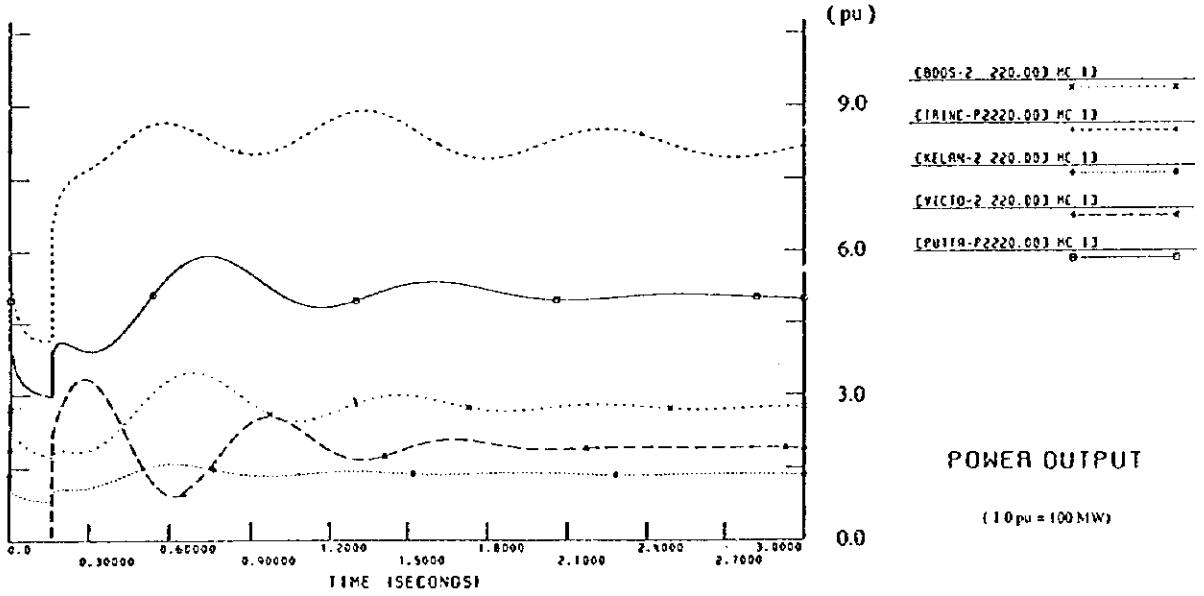
TERMINAL VOLTAGE

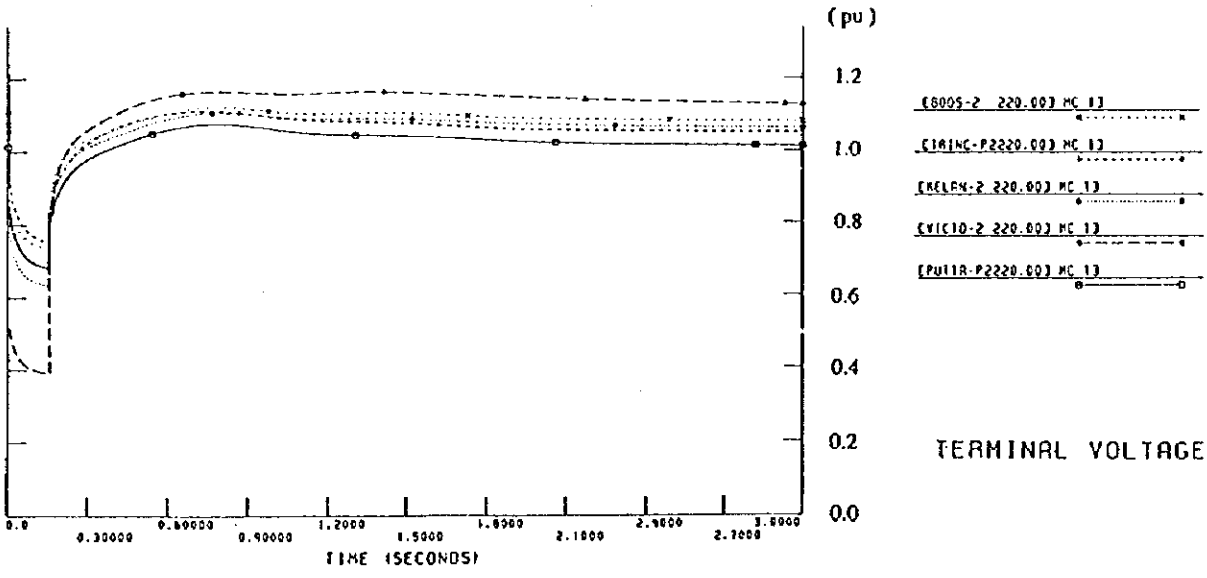
CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA	TITLE 図 6.5.2 - 3 過渡安定度計算結果：2010年 (ｷﾘﾝﾄﾞﾈ発電所 - 新ﾊﾞﾃｨｱ 220kV線再閉路成功)



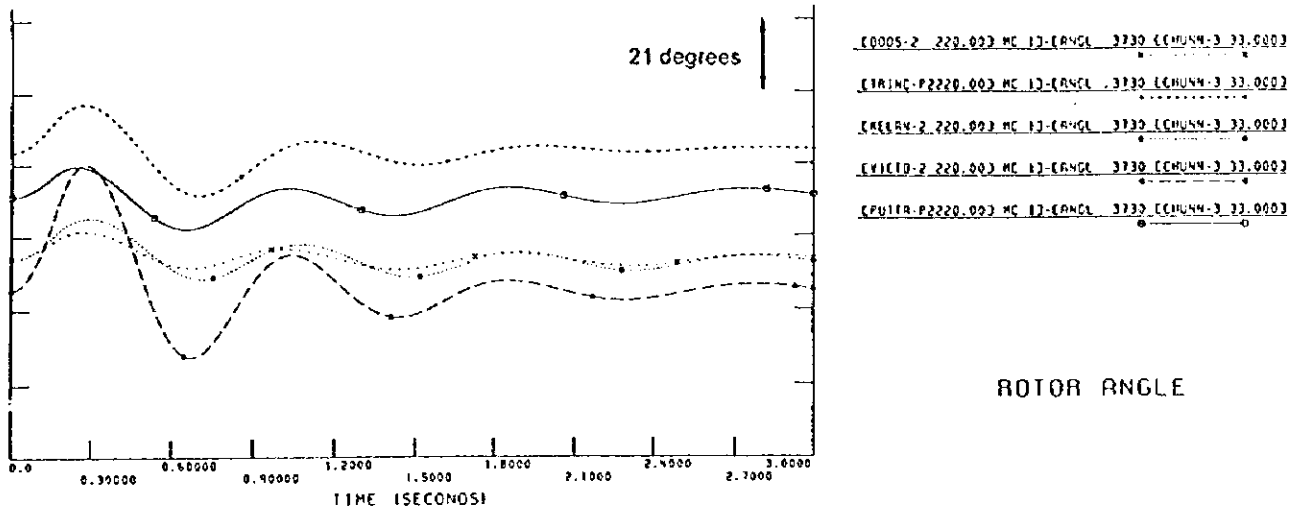
CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA	TITLE 図 6.5.2 - 4 過渡安定度計算結果：2010年 (ｷｬﾝﾄﾞﾗﾙ発電所 - 新ﾊﾞﾝﾀﾞﾗ 220kV線再閉路失敗)

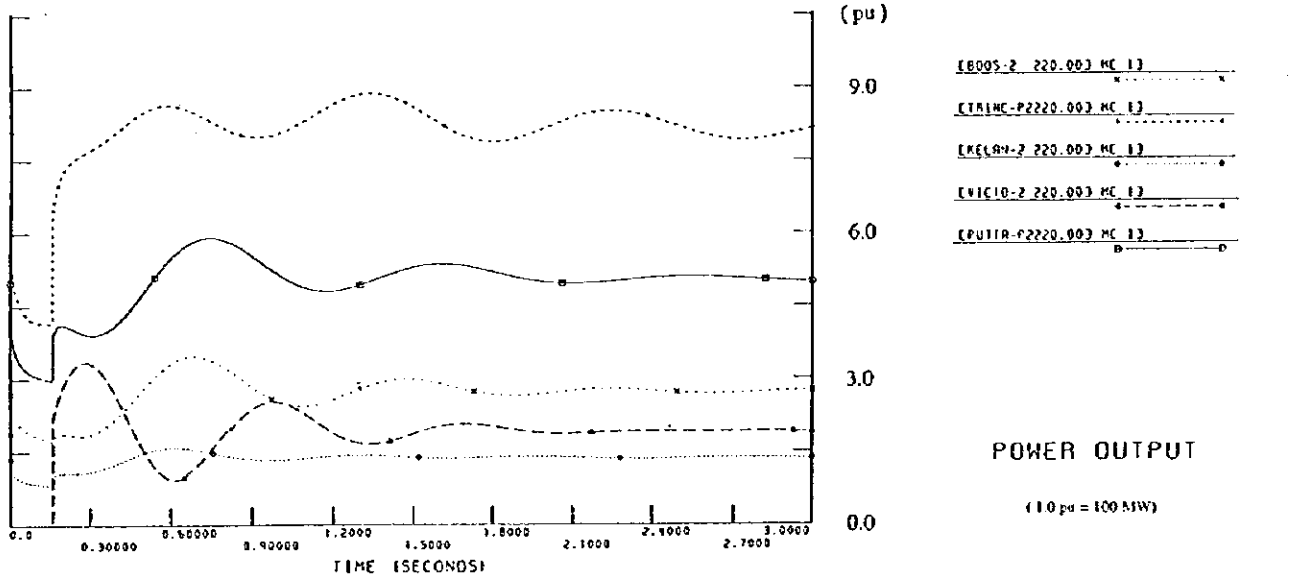


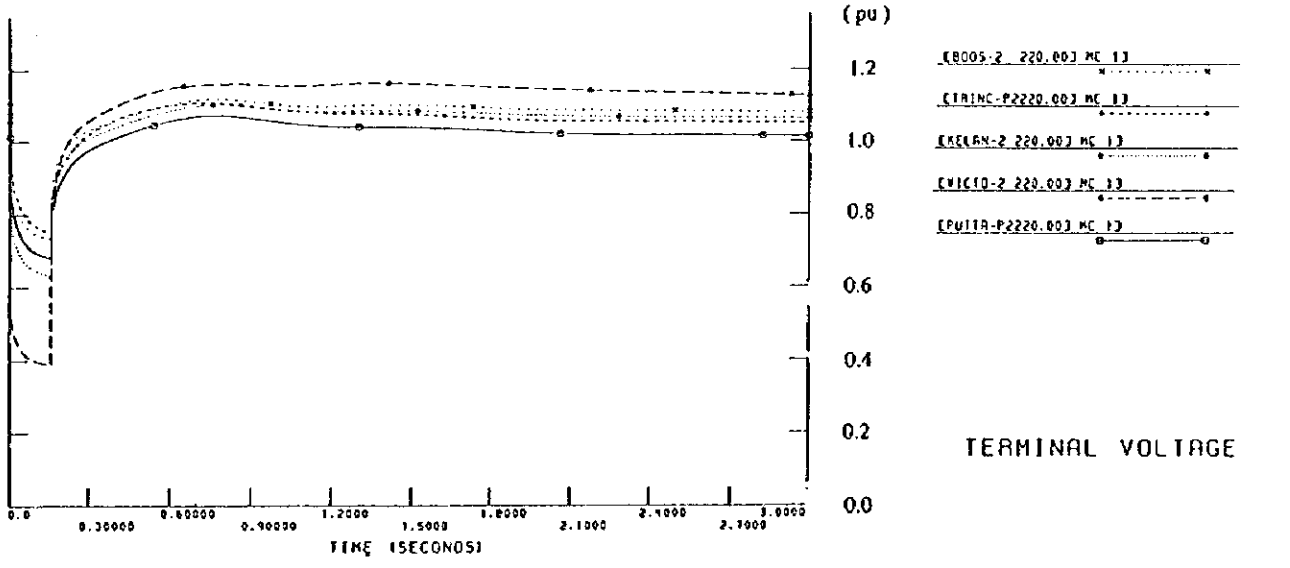




CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA	TITLE 図 6.5.2 - 5 過渡安定度計算結果：2010年 (ﾋﾞﾀﾈﾗｰ - 新ﾊﾞﾃﾞﾘﾔ 220kV線再閉路成功)







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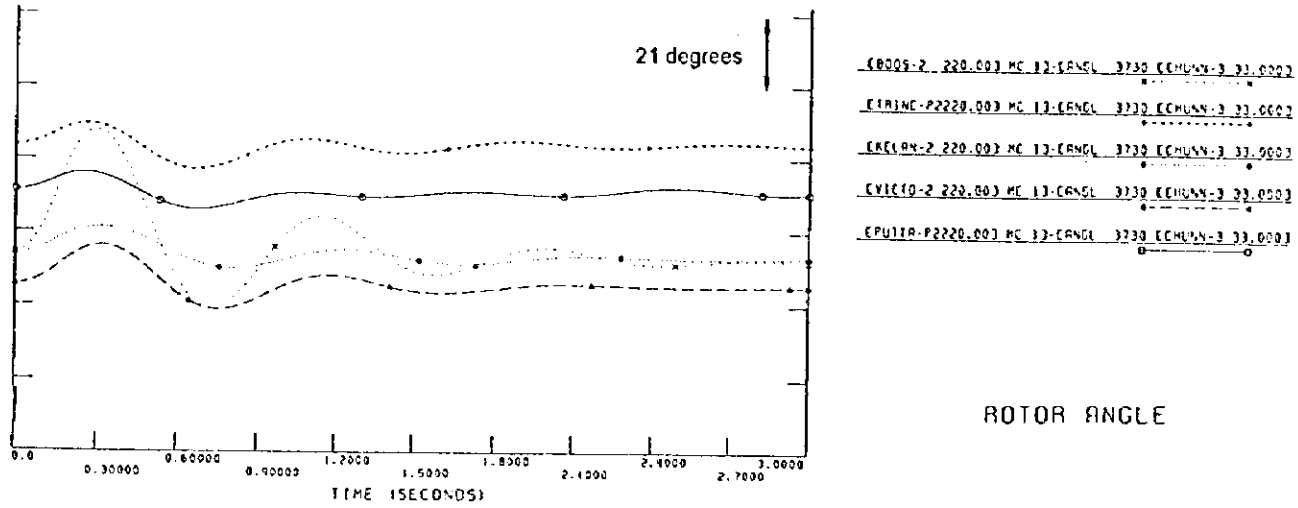

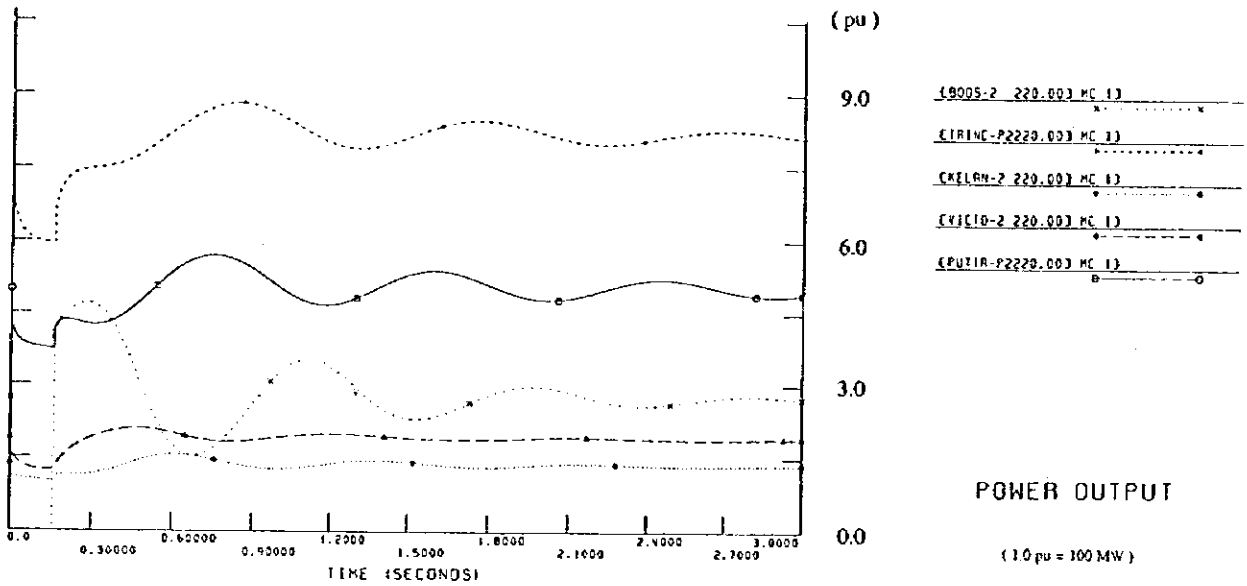

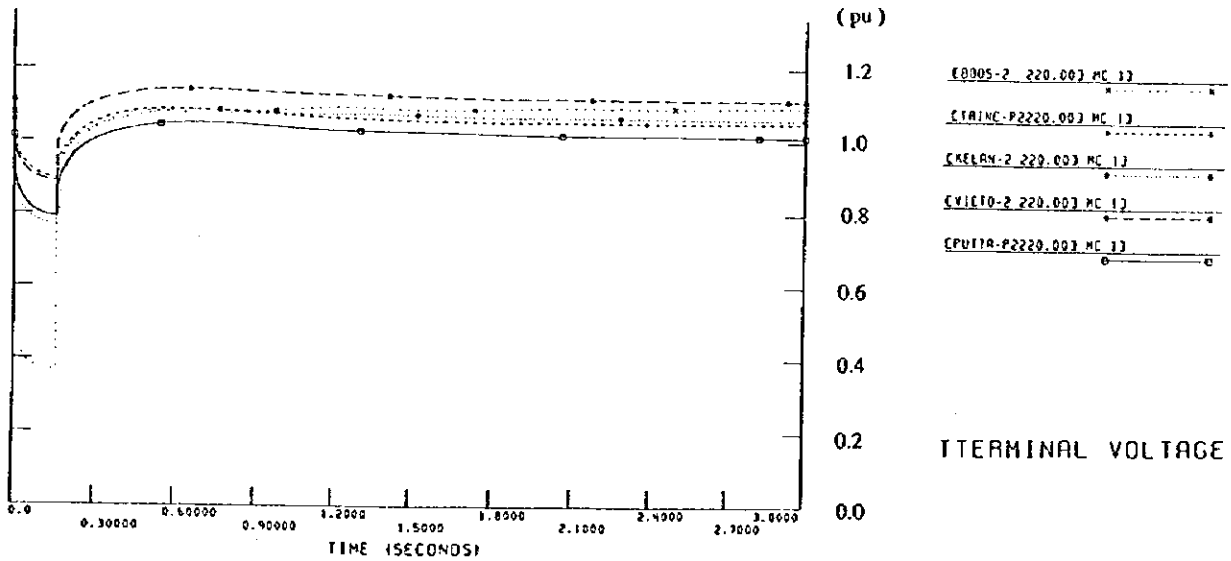

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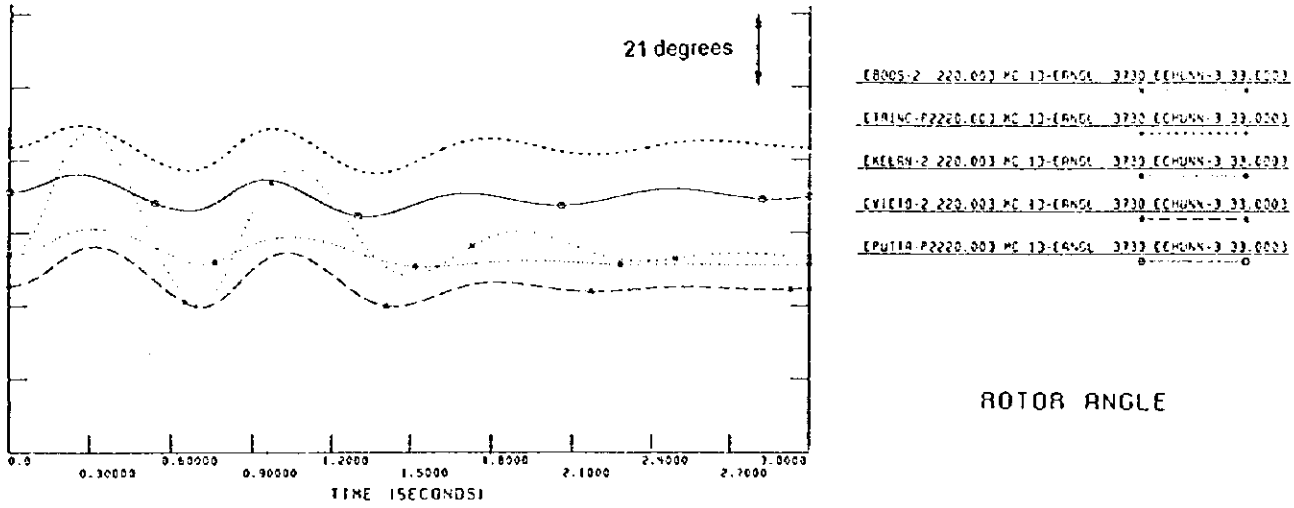
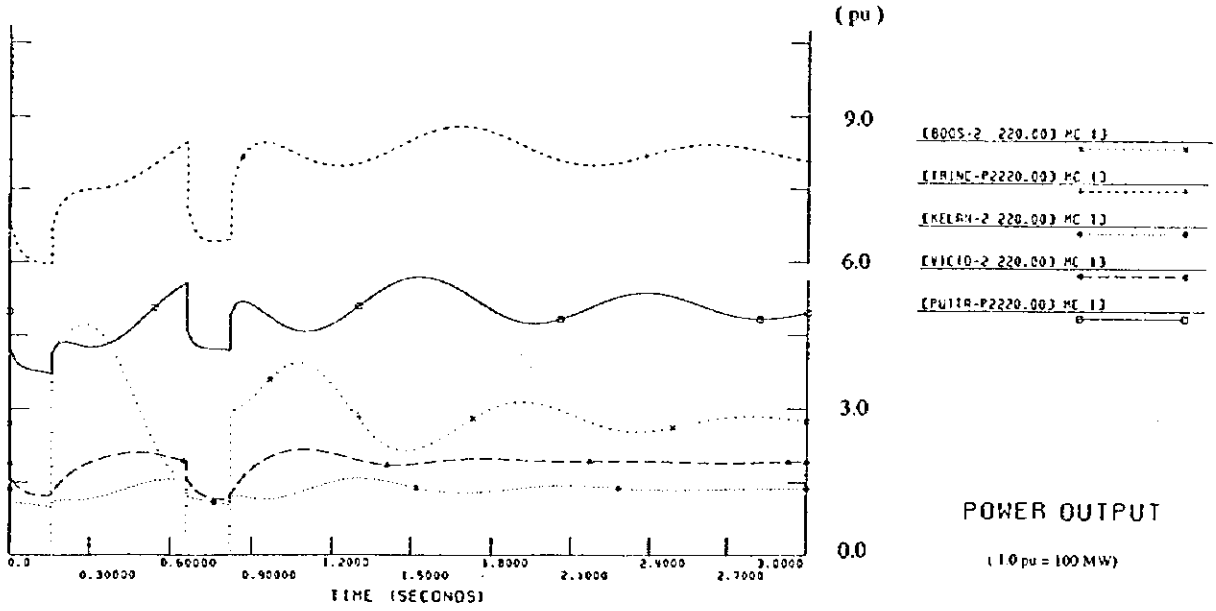
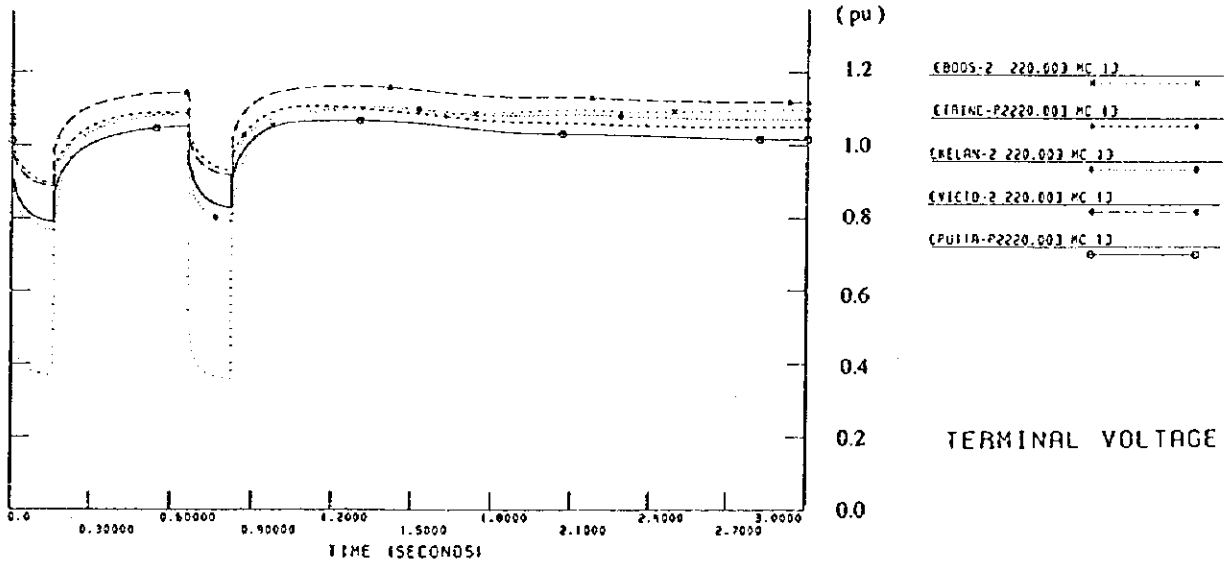
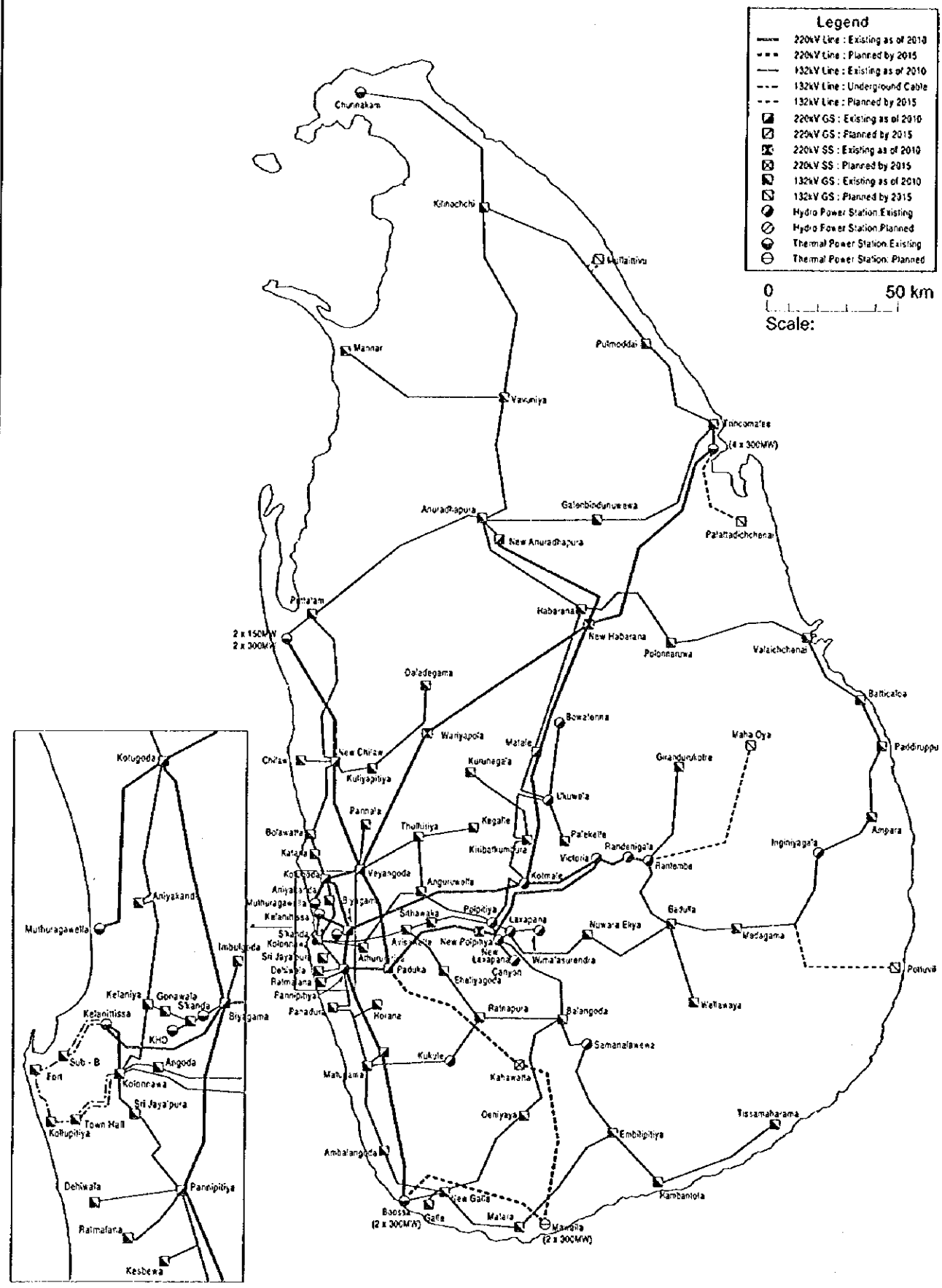


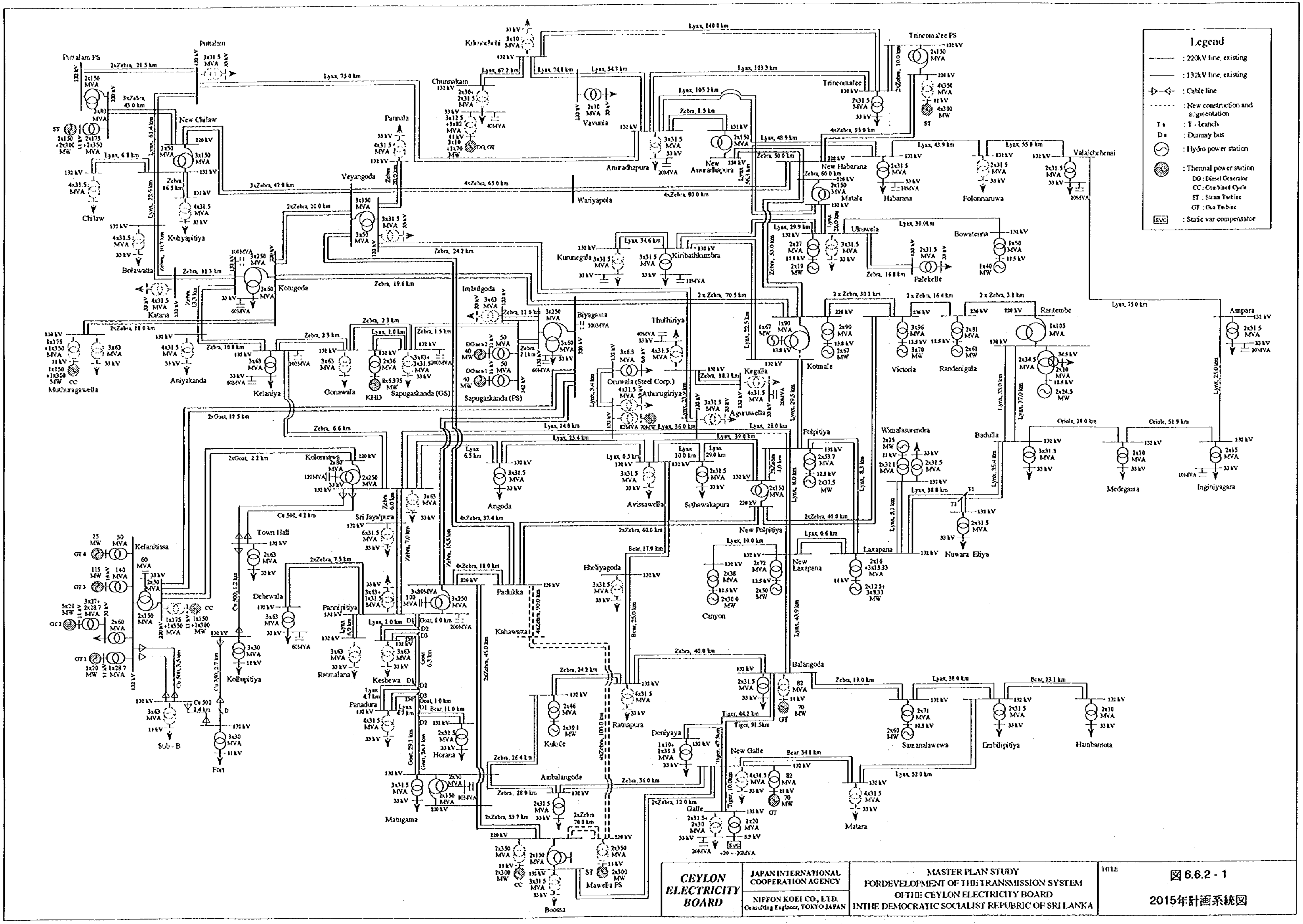




CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA	TITLE 図 6.5.2 - 8 過渡安定度計算結果：2010年 (ﾌﾟｰﾄ-ﾏﾀﾗ 220kV線再閉路失敗)



CEYLON ELECTRICITY BOARD	JAPAN INTERNATIONAL COOPERATION AGENCY NIPPON KOEI CO., LTD. Consulting Engineer	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA	TITLE 図 6. 6 - 1 2015年時点におけるCEB送電系統



CEYLON ELECTRICITY BOARD

JAPAN INTERNATIONAL COOPERATION AGENCY

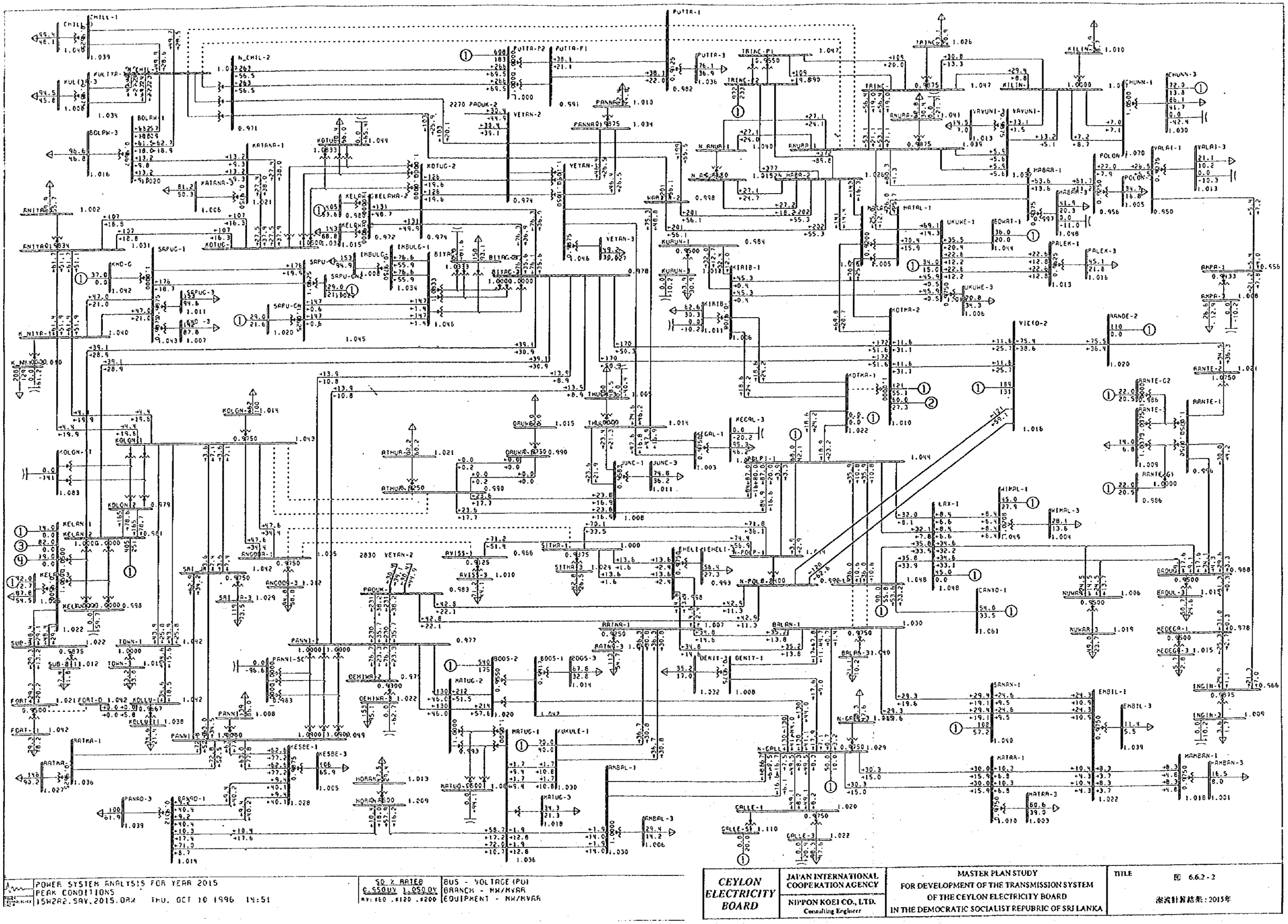
NIPPON KOEI CO., LTD. Consulting Engineer, TOKYO JAPAN

MASTER PLAN STUDY FORDEVELOPMENT OF THE TRANSMISSION SYSTEM OFTHE CEYLON ELECTRICITY BOARD INTHE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA

TITLE

図 6.6.2 - 1

2015年計画系統図



POWER SYSTEM ANALYSIS FOR YEAR 2015 PEAK CONDITIONS I5W2A2.SAV.2015.ORW THU. OCT 10 1996 14:51	50 % RATED 0.950KV 1.050 KV KV: 380 .420 .200	BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR	CEYLON ELECTRICITY BOARD

JAPAN INTERNATIONAL COOPERATION AGENCY	MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA	TITLE 図 6.6.2-2 潮流計算結果：2015年
NIPPON KOEI CO., LTD. Consulting Engineer		