Items	Contents	Remarks
System Rated Capacity	1.000 MVA	
System Frequency	60 Hz	
The Number of Generators	30 machines	
The Number of Nodes (Bus)	115 nodes	
The Number of Branches	129 branches	
(Transmission Lines)	(99)	
(Transformers)	(30)	
The Total Sum of the		
Generator Rated Capacity and		
Output		
- Davtime (Heavy Load)	128.840 MVA (100.460MW)	
- Nighttime (Light Load)	66,720MVA	
	(Generated : 46,550 MW)	
	(Pumped : -2,620 MW)	
The Total Sum of the Loads		
- Daytime (Heavy Load)	100,200 MW	
- Nighttime (Light Load)	43,730 MW	
Generator Model	LGT = 4 in Y-method	
	(All Generators)	
Generator Constants	Refer to Table 5.2	
Generator Inertia Constants	Refer to Table 5.2	
Excitation System Model	LAT = 1 (All Generators)	Refer to Fig. 1.1
Governor Model	LPT = 1 in Y-method	Refer to Fig. 1.2, Fig. 1.3
	(Thermal & Nuclear Gen.)	Governor of the pumped
	LPT = 3 (Hydraulic)	generator is locked.
		(LPT = 0)
Step-up Transformer		Transformer Capacity is
- Reactance	0.14 p.u. (for All Generators)	the same as the Generator
(Self capacity base)		Rated Output.
- Tap Ratio	Refer to Table 5.3	
Transmission Line Model	π Type Equivalent Circuit	
	TACSR 810mm ²	
	4 conductors	
Load Characteristic	NLT = 2 in Y-method	Refer to Fig. 1.4
	(All Loads)	For reference, $NLT = 107$
Power Factor	Daytime : $Q = 0.2 P (98 \%)$	(Fig.1.5) and the Constant
	Nighttime : $Q = 0.1 P (99.5 \%)$	Impedance Load are also
		considered.
Capacity of the static	Daytime : (SC) 13,200 MVA	
condenser (SC) &	Nighttime : (ShR) 2,400 MVA	
shunt reactor (ShR)	(SC) 1,400 MVA	
Governor Spinning Reserve		Refer to Fig. 1.3
(PLM)	Refer to Table 5.3	
Load Frequency Characteristic		
- Active Power Load	3.33 % / Hz (All Loads)	
- Reactive Power Load	0.0 % / Hz (All Loads)	