Table 2.3 Calculation Results by Y-method

(Excitation System Model: LAT = 1, Load Characteristic: Constant Current [NLT = 2])

(Excitation System Model: LAI = 1, Load Characteristic: Constant Current [NLI = 2])				
Branch,	Daytime Condition		Nighttime Condition	
Fault Location	1 cct. 3LG-O	2 cct. 3LG-O	1 cct. 3LG-O	2 cct. 3LG-O
11 (Point A)	(Fig.) 1st		Stable	
	[G1]			
12	Stable	1st	Stable	Stable
		[G1]		
15		N th (3 sec)		Stable
		[G7]		
18	N th (5 sec)	1st	Stable	Stable
	[G10, etc.]	[G10, etc.]		
19	N th (5 sec)	1st	Stable	Stable
	[G10, etc.]	[G10, etc.]		
20	Stable	Stable	Stable	Stable
22		N th (7 sec)		Stable
		[G4, etc.]		
24	Stable	N th (3 sec)	Stable	Stable
		[G7, etc.]		
28		N th (3 sec)	1st	1st
		[G6]	[G7, etc.]	[G7, etc.]
30		Stable	N th (4 sec)	1st
			[G7, etc.]	[G7, etc.]
31		Stable		Stable
33 (Point B)	(Add.) N th (6 sec)	1st	Stable	N th (2 sec)
	[G6]	[G6]		[G7, etc.]
35	Stable	N th	1st	1st
		[G7, etc.]	[G7, etc.]	[G7, etc.]
36 (Point C)	(Fig.) Sustained		(Fig.) Stable	<u> </u>
,	Swing			

Legend:

1st : Step-out in 1st internal angle swing after the fault is cleared.

N th : Step-out in several swing after the fault is cleared.

(Fig.) : In this case, the calculation results are shown in graph figures.

(Add.) : In this case, the excitation system model (LAT) is changed as additional case.

(? sec) : Approximate time that any generator is step-out.

[G?] : Generator(s) No. that is step-out.

Note1 : Fault Duration Time is 70 [ms] in all cases.

Note2 : The "Step-Out" is judged when the generator internal angle is more than 360 [deg] from the reference generator that is G3 in daytime condition, G6 in nighttime condition.