

SHORT- CIRCUIT REPORT

Fault at bus: Bus11

Prefault voltage = 33.000 kV
= 100.00 % of nominal bus kV (33.000 kV)
= 100.00 % of base kV (33.000 kV)

Contribution		3-Phase Fault		Line-To-Ground Fault					Positive & Zero Sequence Impedances Looking into "From Bus"			
From Bus ID	To Bus ID	% V From Bus	kA Symm. rms	% Voltage at From Bus			kA Symm. rms		% Impedance on 100 MVA base			
				Va	Vb	Vc	Ia	I10	R1	X1	R0	X0
Bus11	Total	0.00	0.858	0.00	122.70	121.10	0.551	0.551	8.41E+001	1.86E+002	2.09E+002	5.03E+002
Bus10	Bus11	0.35	0.349	0.49	122.50	120.89	0.333	0.551	2.01E+002	4.59E+002	2.09E+002	5.03E+002
Bus12	Bus11	11.62	0.508	71.78	74.78	100.00	0.218	0.000	1.45E+002	3.12E+002		

Indicates fault current contribution is from three-winding transformers

* Indicates a zero sequence fault current contribution (I10) from a grounded Delta- Y transformer

Fault at bus: **Bus13**

Prefault voltage = 33.000 kV
= 100.00 % of nominal bus kV (33.000 kV)
= 100.00 % of base kV (33.000 kV)

Contribution		3-Phase Fault		Line-To-Ground Fault					Positive & Zero Sequence Impedances Looking into "From Bus"			
From Bus ID	To Bus ID	% V From Bus	kA Symm. rms	% Voltage at From Bus			kA Symm. rms		% Impedance on 100 MVA base			
				Va	Vb	Vc	Ia	3I0	R1	X1	R0	X0
Bus13	Total	0.00	0.899	0.00	92.43	83.74	1.204	1.204	8.37E+001	1.76E+002	6.92E+000	4.80E+001
Bus12	Bus13	0.90	0.323	2.85	92.15	83.38	0.689	1.204	2.07E+002	5.01E+002	6.92E+000	4.80E+001
Bus14	Bus13	1.90	0.571	1.70	92.03	84.39	0.510	0.000	1.40E+002	2.72E+002		
Bus234	Bus13	7.44	0.005	50.88	53.48	100.00	0.005	0.000	1.34E+004	3.08E+004		

Indicates fault current contribution is from three-winding transformers

* Indicates a zero sequence fault current contribution (3I0) from a grounded Delta- Y transformer

Fault at bus: **Bus15**

Prefault voltage = 33.000 kV
= 100.00 % of nominal bus kV (33.000 kV)
= 100.00 % of base kV (33.000 kV)

Contribution		3-Phase Fault		Line-To-Ground Fault					Positive & Zero Sequence Impedances Looking into "From Bus"			
From Bus ID	To Bus ID	% V From Bus	kA Symm. rms	% Voltage at From Bus			kA Symm. rms		% Impedance on 100 MVA base			
				Va	Vb	Vc	Ia	3I0	R1	X1	R0	X0
Bus15	Total	0.00	0.908	0.00	92.57	85.86	1.168	1.168	8.16E+001	1.74E+002	1.61E+001	6.30E+001
Bus14	Bus15	0.61	0.329	1.86	92.32	85.55	0.672	1.168	2.08E+002	4.89E+002	1.61E+001	6.30E+001
Bus16	Bus15	0.66	0.579	0.57	92.45	86.09	0.497	0.000	1.33E+002	2.71E+002		

Indicates fault current contribution is from three-winding transformers

* Indicates a zero sequence fault current contribution (3I0) from a grounded Delta- Y transformer