

TVA Steady-State Planning Criteria

TVA's Transmission Planning and Planning Coordinator have criteria for acceptable steady-state voltage limits, post-contingency voltage deviations, and the transient voltage response for its system. See Table I, below, for TVA's Planning Criteria.

Table I: TVA Planning Criteria

Category	BES Level	Thermal Loading	Voltage Range - Low (% of Base Voltage)	Voltage Range - High (% of Base Voltage)	Voltage Deviation (Instantaneous)
P0	HV	< 100 % Continuous Rating	97%	106%	N/A
	EHV	< 100% Continuous Rating	98%	108%	N/A
P1	HV	< 100 % Continuous Rating	95%	106%	7%
	EHV	< 100% Continuous Rating	98%	108%	7%
P2	HV	< 100% Continuous Rating	95%	106%	7%
	EHV	< 100% Continuous Rating	98%	108%	7%
P3	HV	< 100% Continuous Rating	95%	106%	7%
	EHV	< 100% Continuous Rating	98%	108%	7%
P4	HV	< 100% 4-Hour Rating	93%	106%	10%
	EHV	< 100% 4-Hour Rating	98%	108%	10%
P5	HV	< 100% 4-Hour Rating	93%	106%	10%
	EHV	< 100% 4-Hour Rating	98%	108%	10%

Category	BES Level	Thermal Loading	Voltage Range - Low (% of Base Voltage)	Voltage Range - High (% of Base Voltage)	Voltage Deviation (Instantaneous)
P6	HV	< 100% 4-Hour Rating	93%	106%	10%
	EHV	< 100% 4-Hour Rating	98%	108%	10%
P7	HV	< 100% 4-Hour Rating	93%	106%	10%
	EHV	< 100% 4-Hour Rating	98%	108%	10%
Category	BES Level	Load Loss	Load & Generation Criteria		
Extreme Events	EHV, HV	Cascading	<ul style="list-style-type: none"> • Loss of 1000 MW, or more of Load • Loss of 4500 MW, or more of Generation 		