

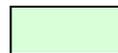
Intelligent Alarms Criteria and Thresholds Summary

Intelligent Alarm Type	Criteria For Alarming	Alarm Time Window	Frequency Threshold (East)	Frequency Threshold (West)	Frequency Threshold (ERCOT)
FTL Low	Interconnection Frequency Lower than FTL-Low for More Than 5-Minutes	> 5 Minutes	59.950	59.932	59.930
FTL High	Interconnection Frequency Greater than FTL-High for More Than 5-Minutes	> 5 Minutes	60.050	60.070	60.090
FAL Low	Exceeding Frequency Threshold	1 Minute	59.908	59.80	59.622
FAL High	Exceeding Frequency Threshold	1 Minute	60.020	60.200	60.372
FRL Low	Exceeding Frequency Threshold	1 Minute	59.820	59.500	59.300
FRL High	Exceeding Frequency Threshold	1 Minute	60.180	60.500	60.700
Prolong (DCS Equiv.)	If after a Short Term Alarm, Frequency Does Not Cross Schedule or Pre-Event Frequency In less Than 20 Minutes (DCS)	> 20-Minutes	Scheduled or Pre-Event Frequency	Scheduled or Pre-Event Frequency	Scheduled or Pre-Event Frequency
Long Term Low	Average Frequency Deviation Greater than 30mHz for More Than 60 Continuous Minutes	> 60 Minutes	-0.030	-0.030	-0.030
Long Term High	Average Frequency Deviation Less than -30mHz for More Than 60 Min	> 60 Minutes	0.030	0.030	0.030
Short Term High	Interconnection Frequency 1-Minute Change Greater Than 0.035 Hz	1 Minute	0.035	0.035	0.035
Short Term Low	Interconnection Frequency 1-Minute Change Lower Than -0.035 Hz	1 Minute	-0.035	-0.035	-0.035

Primary Control Alert



Secondary Control Alert



Tertiary Control Alert

