

Mapping Document

Draft SERC Regional Automatic Underfrequency Load Shedding Standard PRC-006-SERC-3

SERC’s regional standard [number “title”insert text

Standard: [number]		
Requirement in Approved Standard	Translation to New Standard or Other Action	Description and Change Justification
<p>PRC-006-SERC-2</p> <p>R1. Each Planning Coordinator shall include its SERC subregion as an identified island in the criteria (required by the NERC PRC standard on UFLS) for selecting portions of the BPS that may form islands. <i>[Violation Risk Factor: Medium] [Time Horizon: Long-term Planning]</i></p> <p>1.1 A Planning Coordinator may adjust island boundaries to differ from subregional boundaries where necessary for the sole purpose of producing a contiguous subregional</p>	<p>PRC-006-SERC-3</p> <p>remove</p>	<p>Planning Coordinator Subregions may not be contiguous. R1 inhibits the ability to build islands that properly tests the capabilities of UFLS settings</p>



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island more suitable for simulation.		
<p>PRC-006-SERC-2</p> <p>2.3. The highest frequency set point for relays used to arrest frequency decline shall be no lower than 59.3 Hz and not higher than 59.5 Hz.</p>	<p>PRC-006-SERC-3</p> <p>2.3. The highest frequency set point for relays used to arrest frequency decline shall be no lower than 59.3 Hz and not higher than 59.6 Hz.</p>	Adjusted the high limit from 59.5 to 59.6 to adhere to Florida Peninsula existing settings
<p>PRC-006-SERC-2</p> <p>2.4. The lowest frequency set point shall be no lower than 58.4 Hz.</p>	<p>PRC-006-SERC-3</p> <p>2.4. The lowest frequency set point shall be no lower than 58.2 Hz.</p> <p>2.4.1 At least 30% of Peak Demand shall be set greater than or equal to 58.4 Hz</p>	Lower the set point from 58.4 to 58.2 to adhere to Florida Peninsula existing settings. Added sub-bullet to ensure reliable settings
<p>PRC-006-SERC-2</p> <p>2.6. Time delay (from frequency reaching the set point to the trip</p>	<p>PRC-006-SERC-3</p> <p>2.6. Time delay setting shall be at least six cycles (0.1 seconds).</p>	Clarified language



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signal) shall be at least six cycles.		
<p>PRC-006-SERC-2</p> <p>4.1. The percent of load shedding to be implemented shall be based on the actual or estimated substation or feeder demand (including losses) of the UFLS entities at the time coincident with the previous year's actual Peak Demand in the season specified by the Planning Coordinator in R2.</p>	<p>PRC-006-SERC-3</p> <p>4.1. The percent of load shedding to be implemented shall be based on either:</p> <p>A. the actual or estimated substation or feeder demand (including losses) of the UFLS entities at the time coincident with the previous year's actual Peak Demand in the season specified by the Planning Coordinator in R2.</p> <p>B. the forecasted substation or feeder demand (including losses) of the UFLS entities at the time coincident with the next year's forecasted Peak Demand in the season</p>	<p>Added second method for calculating the percent of load shed based on existing Florida Peninsula entities practices.</p>



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	specified by the Planning Coordinator in R2.	
<p>PRC-006-SERC-2</p> <p>5.1. The percent of load shedding to be implemented shall be based on the actual or estimated substation or feeder demand (including losses) of the UFLS entities at the time coincident with the previous year actual Peak Demand in the season specified by the Planning Coordinator in R2.</p>	<p>PRC-006-SERC-3</p> <p>5.1. The percent of load shedding to be implemented shall be based on either:</p> <p>A. the actual or estimated substation or feeder demand (including losses) of the UFLS entities at the time coincident with the previous year actual Peak Demand in the season specified by the Planning Coordinator in R2.</p> <p>B. the forecasted substation or feeder demand (including losses) of the UFLS entities at the time coincident with the next year's forecasted Peak Demand in the season</p>	<p>Added second method for calculating the percent of load shed based on existing Florida Peninsula entities practices.</p>



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	specified by the Planning Coordinator in R2.	
<p>PRC-006-SERC-2</p> <p>R7. Each Planning Coordinator shall provide the following information to SERC according to the schedule specified by SERC. <i>[Violation Risk Factor: Lower] [Time Horizon: Long- term Planning]</i></p> <p>7.1. Underfrequency trip set points (Hz)</p> <p>7.2. Total clearing time associated with each set point (sec). This includes the time from when frequency reaches the set point and ends when the breaker opens.</p> <p>7.3. Amount of previous year actual or estimated load associated with each set point, both in percent and in MW. The percentage and the Load demand (MW) shall be based</p>	<p>PRC-006-SERC-3</p> <p>remove</p>	<p>Removal of Regional UFLS database as it is no longer a standard requirement</p>



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on the time coincident with the previous year actual Peak Demand.		
PRC-006-SERC-2 R8. Each Generator Owner shall provide the following information within 30 days of a request by SERC to facilitate post-event analysis of frequency disturbances. <i>[Violation Risk Factor: Lower]</i> <i>[Time Horizon: Long-term Planning]</i>	PRC-006-SERC-3 R8. Each Generator Owner shall provide the following information within 30 days of a request by SERC or Planning Coordinator to facilitate post-event analysis of frequency disturbances. <i>[Violation Risk Factor: Lower]</i> <i>[Time Horizon: Long-term Planning]</i>	Added Planning Coordinator as a requestor