Comments to CAISO's March 3, 2021 Recommendations regarding PRR 1318

March 12, 2021

CAISO's Business Practice Manual (BPM) Proposed Revision Request (PRR) process allows market participants to recommend clarifying BPM language. On February 16, 2021, CDWR submitted comments for PRR 1318. On March 3, 2021, the CAISO responded with its recommendations.

PRR 1318 is the CAISO's efforts to comply with the North American Electric Reliability Corporation Reliability Standard BAL-003-1.1 - Frequency Response and Frequency Bias Setting. These requirements include the following new telemetry points for generating units: (1) droop setting; (2) governor blocking status (on/off); (3) deadband setting in mHz for governor or frequency responsive device; and (4) operational unit ramp rate (MW/min) programmed in the generating unit's distributed control system.¹

The California Department of Water Resources State Water Project (CDWR) recommends the following BPM for Direct Telemetry² language to further clarify the static vs dynamic attributes of the four new telemetry points and asks the CAISO to define the ramp rate calculations:

- **Droop Setting** (BPM page 105) Droop settings can be provided by the Plant Controller System. This information may be based on test/certification results or it may be dynamic. Data representation for 5% Droop should be 0.05.
- **Deadband** (BPM page 105) Deadband setting can be provided by the Plant Controller System. This information may be based on test/certification results or it may be dynamic. Data representation should be in Hz (Example: 0.036 Hz for 36 millihertz).
- Operating Ramp Rates (BPM page 105) Ramp Rates can be provided by the Plan Controller System. This information is dynamic. Ramp Rate, expressed in MW/Min, will reflect real-time changes in a unit's ramp rate, based on different constrains. This information can be retrieved from the governor or calculated. If calculated, the following formula will be followed... (**)
- Governor blocking status (BPM Page 109) Blocking status can be provided by the Plant Controller System. Blocking status represents if the resource is capable and ready to respond to frequency deviations. Telemetry will have two states. ON = 1 and OFF = 0

(**) CAISO, please define the calculations.

¹<u>http://www.caiso.com/Documents/TelemetryRequirements_FAQs.pdf</u>

https://bpmcm.caiso.com/BPM%20Document%20Library/Direct%20Telemetry/BPM for Direct Telemetry V14%20Redlin e.pdf