

Phasor Measurement Unit (PMU) Placement Plan in RTEP Planning Process

Solution

The Planning Committee (PC) will **approve** the following modification to M14B Attachment B, Section B.3:

• The 5-year plan will specify the level of budget commitments which must be made in order to meet scheduled inservice dates. The commitment may include facility engineering and design, siting and permitting of facilities, installation or modification of metering system(s) required by Manual 01, or arrangements to construct transmission enhancements or expansions.

The Planning Committee (PC) will **recommend** that the Operating Committee (OC) take the following action:

• Consider and approve the following language in Manual 01:

Document	Section	Language
Manual 01: Control Center and Data Exchange Requirements	3.6	 Required Synchrophasor Data*: For substations with three or more non-radial transmission lines at 100 kV or above, Synchrophasor measurement signals are required for the following equipment locations: Bus voltages at 100 kV and above Line-terminal voltage and current values for transmission lines at 100 kV and above High-side / low-side voltage and current values for transformers at 100kV and above Dynamic reactive device power output (SVC, STATCOM, Synchronous Condenser, etc.)
		*These requirements shall only apply to new baseline and supplemental projects presented to the PJM Transmission Expansion Advisory Committee (TEAC) and/or the Sub Regional RTEP Committees (SRRTEP) for inclusion in the RTEP after June 1, 2021. In situations where the installation of a Synchrophasor device would cause technical challenges resulting in unusually high installation costs, PJM may approve on a case-by-case basis an alternative Synchrophasor device installation plan proposed by the Transmission Owner or Designated Entity.

Include the following device configuration and data quality requirements in supporting documents:

- PMU devices installed per this requirement shall include necessary design and configuration to make the device 'CIP ready'.
- PMU devices installed per this requirement shall comply to additional data quality requirements stipulated in M01.