Key Principle 3 – Reliability Unit Commitment

To facilitate this change to the Real-Time Market (RTM), Reliability Unit Commitment (RUC) will be modified to co-optimize energy and Ancillary Services (AS). RUC will look at the Resources planned to be available to determine whether additional Resource commitments are needed to meet the load forecast and minimum AS requirements, as well as resolve transmission congestion.

# Principle Concepts

# *Approved Principle Concepts*

None

# *Principle Concepts for Voting*

Again, these items are great, and very technical. Is there a high-level over view that summarizes these items? Or is that what is captured in the Key Principle above?

1. The RUC optimization will not use the Ancillary Service Demand Curves (ASDCs) that will be put into place for the RTM. Instead, RUC will attempt to solve for the AS Plan at a defined constant penalty value (similar to what is in place in the current RUC implementation). Is that penalty value determined yet? How do we decide?
2. Modifications will be made to the existing set of data elements provided by Qualified Scheduling Entities (QSEs) in Resource Current Operating Plans (COPs) to accommodate the changes to the RUC optimization.
3. Within the COPs, QSEs will have a mechanism through which to indicate the ability or inability of a Resource to provide AS (e.g., a Resource Status). Will this be through an updated schedule or SCED run? What will this mechanism look like? We may not know yet.
4. The amount of AS that can be provided by a Resource will be validated against that Resource’s qualifications and capabilities. In both RT and DA?
5. Proxy AS Offers will be used in RUC in determining a co-optimized solution that will meet the AS Plan. In both RT and DA?
6. The RUC engine will consider OFFQS Resources that are qualified for ECRS as being able to provide ECRS. In both RT and DA?
7. The RUC engine will consider OFF Resources that are qualified for Non-Spin when offline as being able to provide Non-Spin. In both RT and DA?
8. The current process under which ERCOT Operators review recommendations from the RUC optimization and make commitment instruction decisions will remain in place. In both RT and DA?

Note: For non-consensus items, opposing key principle or principle concept language would be provided in this form to TAC for their review.

# *Future Decision Points and Issues for Developing Principle Concepts*

Functionality and Process Concepts Another high-level overview of what we’re trying to accomplish here would be helpful

1. Details on changes to COP or alternative source of Resource information
2. Potential floors for AS Offers on Resources committed through the RUC process

Settlement Concepts

1. Capacity short calculation and allocation of RUC make-whole
2. Changes to RUC claw-back and make-whole

# Applicable Protocol Sections

*Placeholder*