Key Principle 1.4 – Systems/Applications that Provide Input into the Real-Time Optimization Engine

ERCOT’s systems and applications that provide input for the Real-Time Market (RTM) optimization engine will be modified to account for Real-Time Co-optimization (RTC) (e.g., the Resource Limit Calculator (RLC)). Real-Time information provided by Qualified Scheduling Entities (QSEs) to ERCOT, and ERCOT to QSEs, will need to be reviewed and modified to accommodate such changes.

# Principle Concepts

# *Approved Principle Concepts*

None

#  *Principle Concepts for Voting*

1. Under RTC, for Resources that are being economically dispatched by ERCOT, the current practice of pre-reserving portions of their capacity to provide Ancillary Services (AS) through telemetry from the Resource’s QSE will be discontinued. AS awards will now be an output of RTC.
	1. Because of this, RLC calculated Resource Limits of High Ancillary Service Limits (HASLs) and Low Ancillary Service Limits (LASLs) will be discontinued.
	2. With the HASL and LASL calculations being discontinued, the method for calculating dispatch limits needs to be modified. High Sustained Limits (HSLs), Low Sustained Limits (LSLs), and telemetered ramp rates will be used directly to calculate High Dispatch Limits (HDLs) and Low Dispatch Limits (LDLs), per the formulas
		1. HDL=Min(HSL,TelemMW+NormalRampRateUp\*5)
		2. LDL=Max(LSL,TelemMW-NormalRampRateDn\*5)

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*

1. Telemetry changes associated with any change to the RLC logic, both from the QSEs to ERCOT and from ERCOT to the QSEs

# Applicable Protocol Sections

*Placeholder*