***RTC+B Market Readiness Sessions- draft outline***

***(deliver as individual/informal training units)***

**RTC+B Executive Overview (5-7 minutes) / Audience- Execs, Regulators, Board, Public**

ERCOT procures Energy & Ancillary Services, and how this occurs is changing with RTC.

* Currently: Energy every 5 minute, and 4 Types of A/S reserves purchased in day-ahead in hourly increments.
* With RTC: Energy and A/S will be procured in real-time every 5 minutes
  + Resource specific selection of energy and AS provides efficiencies (graphic example)
  + Benefit of $1.6B
* Benefits and other changes:
  + SCED prices will include AS scarcity (replace ORDC curve)
  + RUC and SCED will have access to full range of resource capacity
  + Better congestion management
  + Day-Ahead market allow virtual A/S positions and hedging ahead of real-time procurement
* Batteries included
  + Show single model improvement / Single economic offer to charge/discharge
  + RUC and SCED include assessing battery state of charge

**RTC+B Basics (20-30 minutes) / Audience- Intro to All QSE personnel**

Approach as “What stays the same and What changes”

* SCED (Current vs RTC+B changes to inputs and outputs in table)
* RUC (Current vs RTC+B changes to inputs and outputs in table)
* DAM (Current vs RTC+B changes to inputs and outputs in table)
* Real-Time Operations (COP, Telemetry, Resource Specific, no HASL)

Similar to Dave 2019 Board presentation

**Real-Time Market Details (20-30 minutes) / Audience- All QSE and Marketers**

* Expand on SCED changes (current vs RTC)
* ORDC -> ASDC transition details
* Single Offers for Batteries
* Proxy AS Offers
* Tutorial of Excel worksheet solver

**Day-Ahead Market Details (15-20 minutes) / Audience- All QSE and Marketers**

* Expand on DAM changes (current vs RTC)
* ASDCs
* Virtual AS offers
* AS Obligations
* Trade logic

**QSE Operations (45-60 minutes) / QSEs with Resources**

* Expand on Real-Time Operations changes (RUC, SCED) and (COP, Telemetry, Resource Specific, no HASL)
* RUC evaluation including AS and use of scaled ASDC and AS Deployment Factors
* AS Deployment
  + SCED
  + AS Manager / Operator
* SCED and new A/S telemetry ------------------- Abhi ICCP RTCBTF slides
* AS Qualification and Durations

**Settlement & Extracts Changes (45 minutes) / QSE Settlement Personnel**

* Explanation of new/modified/retired billing determinants ----------Magie RTCBTF S&B Deep Dive
* No change in extracts, just determinants within

**Market Submission Changes (20 minutes) / QSE market and operations staff**

* Walk-though all submission changes
  + COP, RT AS Offers, etc ------------------------------- Nathan RTCBTF slides

**Reports and Displays (20 minutes) / QSE personnel**

* Walk through changes of reports and extracts
* Walk through of changes to dashboards