Future education topics:

- Additional education
  - Settlement information
    - Rates (max and min)/statistical analysis on volatility, total quantities
  - How is real time dispatch decision made? And/or a “challenging period” like min-gen.
    - What decisions are made by applications (e.g. SCED, Day Ahead, RT) vs. people?
    - Differences between RT and DA commitment
  - Deconstruct what contributed to high numbers / high volatility.
    - Include how day ahead works vs. balance.
    - Look at what emergency payments is comprised of
  - How many of deviations (from RT) are from virtual transactions vs. load and gen.
  - Costs of OR over past five years, vs. congestion costs
  - Total costs in $/MWh for OR and lost opportunity costs
  - Who is paying BOR by voting sector?
    - 1999 to present net energy cost, lost cost, congestion cost and OR cost (side-by-side)
  - BOR by transaction type (incs, decs, load and gen)
  - Different treatment for reasons run (thermal, voltage and stability)
  - How is Day Ahead Scheduling Reserve was determined
  - Segmented make-wholes (more or less helpful or hurtful).
  - Develop a process map to show how uplift costs are allocated and how they interact
    (between products such as DA, RT)
  - SOM includes % of DA and RT that were economic. We want to include start-up and no-load.
  - What are other factors that could increase uplift charges (that are out of PJM’s control)?
    Example would be a substation that is out and causing high uplift. Cost causality.
  - Scenarios that are based on two-settlement process, to help stakeholders deconstruct the numbers.
  - How much of the operating reserves and balancing operating reserves charges are actually
due to having to maintain 7% operating reserves? How much of the operating reserves and
balancing operating reserves charges are for anything other than maintaining the 7% operating reserve requirement?

- How much of the operating reserves and balancing operating reserves charges are for congestion relief? Why is congestion relief done outside of the LMP market mechanism considered for anything other than reliability?

- The current operation summary report according to PJM falsely represents the amount of operating reserves that are scheduled on a daily basis? If this report is currently wrong, can we get this fixed to see how much PJM is actually carrying in operating reserves on a daily basis? The report shows the amount operating reserves PJM is carrying which is often 3 to 8 times the required 7%. If the operating reserves that are being reported in this file are accurate, then why is PJM carrying so many MW's of operating reserves above and beyond the 7% required?