## **Explanation of posted files**

**assumed\_resource\_mix.xlsx:** assumed resource mix for the year under study. Effective Nameplate and/or Installed Capacity are not provided for classes with no more than 3 owners due to data confidentiality reasons.

bins.xlsx: this Excel file includes 4 sheets. The pre-merging bins correspond to the output of using the Freedman Diaconis Estimator to create the temperature bins. The post-merging bins correspond to the output after PJM merged a few temperature bins to avoid having too small a sample size (in number of days) in some of the extreme bins. Each of the sheets include the upper bound and lower bound of each bin in load-weighted RTO-wide THI units as well as the days included in each bin. The Days column has all days in each bin since 1993-06-01 until 2024-05-31 (which are used to derive load scenarios). The Days\_after\_2012-06-01 column has all days in each bin since 2012-06-01 until 2024-05-31 (which are used to derive resource performance scenarios for variable and unlimited resources).

**hourly\_load\_scenarios.xlsx:** these are the per-unitized load scenarios used in the model (they are per-unitized on the 50/50 forecasted annual peak load). Hour 0 corresponds to June 1<sup>st</sup> at 0:00:00 AM. The columns contain the 390 load scenarios based on 30 delivery years of weather history (DY 1993 – DY 2023) and the 13 weather rotations (A-M).

hours\_and\_weight\_for\_performance\_adjustment\_calculation.xlsx: this file includes the timestamps as well as the weight of each timestamp for the calculation of the resource Performance Adjustment for ELCC Classes that have an ELCC Class Rating.

**stats\_performance\_adjustment.xlsx**: this file provides the minimum, the 25<sup>th</sup> percentile (25%), the median (50%), the 75<sup>th</sup> percentile (75%) and the maximum values for the Performance Adjustment in ELCC Classes that have an ELCC Class Rating and with a membership including more than 3 owners.

weekly\_schedule\_planned\_and\_maintenance\_outages\_by\_load\_scenario.xlsx: this file has the total quantity in MW of planned and maintenance outages for each week in each of the 390 load scenarios (the columns are named after the load scenarios). Week 0 corresponds to the first week of June in a delivery year.

info\_for\_loss\_of\_load\_hours.xlsx: this file has all the hours with loss of load identified by the model.
The columns in the file are:

- HourBeginningInYear: self-explanatory
- Year: this refers to the weather year (weather year 0 starts in June 1<sup>st</sup>, 1993 and ends in May 31<sup>st</sup>, 1994)
- Weights: probability of occurrence of the event
- Rotation: weather rotation (value can go from 0 to 12)
- Replication: resource performance draw (value can go from 0 to 99)
- Date: date of the identified loss of load hour in the simulation
- DayOfDeliveryYear: day number in delivery year (value goes from 0 to 364)

- HourBeginning: hour beginning of the loss of load event
- Load: load in hour
- LoadRelativetoSolvedLoad: ratio of load in hour to solved simulated annual peak load
- TotalUnlimitedOutput: total output of resources in the Unlimited Resources ELCC Classes
- TotalVariableOutput: total output of resources in the Variable Resources ELCC Classes
- TotalLimitedDurationAndCombinationOutput: total output of resources in the Limited Duration and Combination Resources ELCC Classes
- DROutput: total output of resources in the Demand Resources ELCC Class
- Margin: load minus total resource output from all ELCC Classes
- LOLEFlag: 1 if there is a loss of load event (i.e. Margin is less than 0)
- PlannedOutagesMW: amount of Planned and Maintenance Outages of Unlimited Resources scheduled in hour
- Bin: temperature bin employed to sample performance for Unlimited and Variable Resources for the hour
- ActualPerfDay: actual historical performance date used to sample performance for Unlimited and Variable Resources for the hour
- ActualTimeStampPerfDay: actual historical performance timestamp used to sample performance for Unlimited and Variable Resources for the hour

*montecarlo\_by\_date.xlsx:* this file has the random draws that determine the historical performance days being used in each of the 100 replications (see column names in file that go from 0 to 99) for each of the weather days since June 1<sup>st</sup>, 1993.

**share\_of\_maintenance\_planned\_outages\_by\_unlimited\_class.xlsx:** this file has the share of the total planned and maintenance outages scheduled in the model by Unlimited Resources class. For accreditation purposes, the weekly amounts of scheduled planned and maintenance outages are allocated based on these class shares.