MARS Version Update
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MARS Release History

- **3.22.6 – Feb 2018**
  - This version is currently in use

- **3.23.417 – Apr 2019**

- **3.24.460 – May 2019**
  - We are currently evaluating new functionality and identifying any concerns

Overview of New Functionality

- New Emergency Operating Procedure (EOP) functionality to enhance modeling of Special Case Resources (SCR)

- New unit functionality to enhance modeling of Resources with Energy Duration Limitations, such as:

  - Energy Limited Resources

  - Distributed Energy Resources

  - Energy Storage Resources

New EOP Functionality

- Earlier versions only contained the following restriction:
  - Number of Days per Month

- The following were added to support enhanced SCR modeling:
  - Number of Days per Year
  - Number of Hours per Day
  - Energy per Day

New Unit Functionality (EL3 Units)

- **Earlier versions only contained the following restrictions (EL2 Units):**
  - Minimum and Maximum Hourly Output
  - Monthly Energy and Storage
- **EL3 Units can additionally be subject to the following restrictions:**
  - Number of Days and Hours per Year
  - Number of Days and Hours per Month
  - Number of Hours per Day and Energy per Day

Next Steps

- NYISO Resource Adequacy and Planning Staff have begun work to understand the new functionality

  - The findings and conclusions of this work will be reported to the Installed Capacity Subcommittee in the fall of 2019

- The new version and functionality won't be used for the 2020 IRM Base Case