

Dual Fuel Operations

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Market Implementation Committee

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Conservative Operations – RTO

Long Duration Extreme Event – Fuel Limited Resources

- Oil inventory diminishing rapidly leading into forecasted all-time peak days based on economics (running as base load on oil due to natural gas being more expensive)
- Uncertainty about oil replenishment & delivery (snow and ice storms)
- Jan 25 – Jan 27
 - Max emergency criteria updated from 16 hours to 32 hours to conserve onsite fuel for oil fired CTs ensuring the units are available to serve load during peak periods during extended extreme cold weather operations. (M-13 Section 3.5)



Define triggers for the preservation of onsite fuel for dual fuel capable CTs during times of operational uncertainty



Pursue enhancements to allow Max Emergency status at a schedule level

Currently only allowed at a unit level
i.e. A dual fuel CT cannot place only their oil schedule in maximum emergency to preserve onsite fuel



The desired solution is a dual fuel capable CTs would run on gas at higher price to conserve onsite fuel during a defined emergency conditions to ensure a future peak load can be served



PJM may update the onsite fuel hours that would qualify as maximum emergency for Resource Limited Units to be placed into the Maximum Emergency Category. Examples of long-duration extreme events with the potential to cause wide-scale fuel disruptions include, but are not limited to:



Extended Cold Weather



Long-Duration Blizzard and/or Icing Conditions

Wide-Area Flooding



Impacts of Extreme Weather (i.e Hurricane Damage) expected to last more than 72 hours



Physical or Cyber Events



Initiating Criteria:

Conservative Operations and Cold Weather Advisory / Alert and Long Duration Extreme Events as defined in Manual 13 Section 3 while also anticipating prolonged peak loads and escalating emergency procedures if actions are not taken to preserve fuel.



Communications:

PJM Dispatch summarizes projected system conditions and communicates whether resource limited units may be placed into Maximum Emergency Category, including duration trigger (i.e. 32 hours).

PJM Dispatch may elect a subset of units by transmission zone depending on system conditions

Communication would be via Emergency Procedure posting and All Call

- SOS conference calls, Pardot messages would also be utilized

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