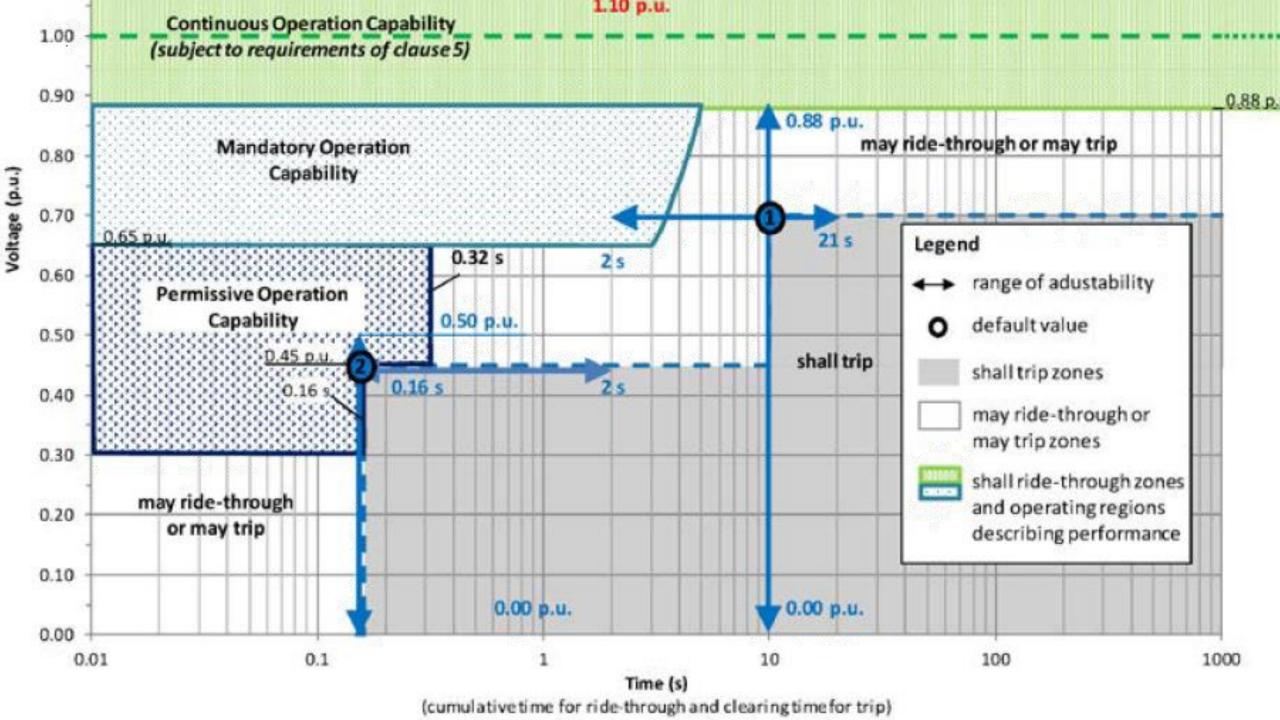


Recapping Day 1 and Breakout Prep

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- Mandatory Operation must not trip; must continue producing pre-disturbance real and reactive current.
- Momentary Cessation must stop producing real current, with rapid return to pre-disturbance output when conditions return to normal.
- **Permissive Operation** must not trip; may continue producing real current or not.
 - Could accommodate either Mandatory Operation or Momentary Cessation
- May Ride Through or May Trip Allowed to trip, but not required to trip.
- Trip cessation of output <u>without</u> immediate return to service (wait ~100s of seconds);
 - Return to service re-entry of DER to service following a trip; equivalent to start-up of DER.

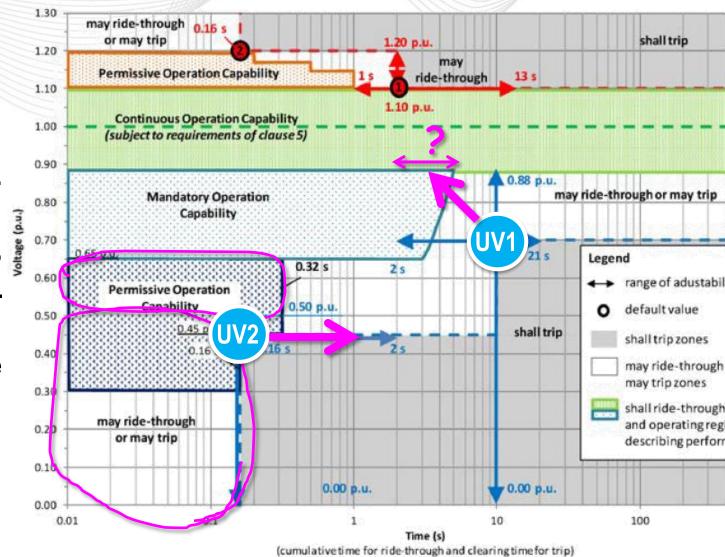




"Strawman" for PJM DER Voltage Ride Through

IEEE 1547-2018 "Category II" with adjusted trip settings and additions as follows:

- a) UV2 increased → 1.1 seconds for delayed transmission fault clearing.
- b) UV1 time decreased→2 5 seconds and volts increased→88% for arc-flash and recloser concerns.
- c) "Permissive Operation" range and severe low voltage "may trip" range is specified to "Mandatory Operation" for V > 0.50 and "Momentary Cessation" for V < 0.50.



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