

Update ListMajor Changes:

Except for the updates to section 010.30, sections 170, and 340, many of these changes are formalizing already existing requirements that app engineer addressed during design review or clarified intent of rules.

- 010.00 General Section:
  - o Added clarity on intent of manual
  - o Added note on the company being used going forward instead of “We Energies” throughout the manual
- 010.10
  - o Clarified process for getting fault current values
- 010.00.60
  - o Added clarity that the customer is required to get Company ground grid inspection before covering with backfill
- 010.20
  - o Removed Customer Substation information sheet
  - o This Section now is Voltage and Fault Duty Table
- 010.30
  - o Removed We Energies Electrical System Information Chart as this will be provided in letter by protection technician to job owner
  - o Added Example Sequence of Events
- 120.00.50
  - o Removed line tension disconnects
- 120.00.80
  - o Clarified voltage measurement
  - o Made insulator necessary for any structure
  - o Banned porcelain insulators
- 130.00.20
  - o Added visible break disconnects to better reflect We Energies work rules
- 130.00.30/130.00.40
  - o Added clarity on when and where shielded cable is allowed within unprotected zone
- 140.20.20
  - o Added recommendation on battery capacity
  - o Clarified ban on capacitor tripping schemes
- 170.10
  - o Removed 3000 kVA exception option
  - o Added 26.4 kV
  - o Added language on loss of phase protection relays
  - o Please Review Chart and exceptions vs old to see large amount of changes
- 180.10.40
  - o Added clarity that inspection is required of ground grid
- 180.30.10
  - o Added clarity on ground grid requirements and what is acceptable in lieu of grounding studies

- 190.10.30
  - o Added clarity on adequate grounding provisions
- 190.20.10.d
  - o Added requirement for grounding provisions that will be provided
- 190.20.30 Instrument Transformers
  - o Added this section: "There shall be grounding provisions provided on the bus on each side of the CTs for installation of protective grounding for metering operations"
- 220.10
  - o Removed language on loss compensated metering
  - o We Energies -> Company
- 220.20.10
  - o Added grounding connections to list of connections for customer to provide
  - o Added option for reverse polarity metering set up
  - o Updated instructions on shipping instrument transformers
- 220.20.20.
  - o Added company requirement for larger box instead of meter socket unless space is an issue.
- 220.20.30
  - o Added requirement for rigging provisions
- 220.20.40
  - o Added clarity on conduit and added company preference on how to mount
- 220.20.50
  - o Clarified this is only for legacy installations
- 260.50.30
  - o Added section on compartments having hinged screen doors to better align with other company practices
- 310.50
  - o Updated language to reflect more customers having generation
- 310.10.04
  - o Updated time setting to reflect new Company protection settings
- 320.10.10.d
  - o Added section to clarify intent of rules
- Addition of Section 340: Loss of Phase Protection