

Electric Service Rules

Summary of Changes

2019

General maintenance, clarifications and drawing clean-up have been made through-out the ESR manual.

Chapter 1:

- 105.C: Added guidelines for inactive service.
- 107.F: Added note that Alliant Energy has the right to request inspection for unsafe conditions.
- 110: Updated Section for clarification of requirements.
- 110 A & B: Updated and clarified the Short Circuit Current Ratings (SCCR).
- 114: Added language to allow for Variance requests in circumstances where our current standards may not be able to be met.
- 116.E: Split paragraph into E and F.

Chapter 2:

- 205: Changed max temp service size to 1200A per ESR 609.

Chapter 3:

- 306: Clarified that rigid conduit needs to be RGS.

Chapter 4:

- 401.D: Corrected NEC references.
- 404: Changed requirement to include a pull-string anytime conduit is installed.
Cleaned up language.
- 404C: Clarified language.
- 406 Note 3: Added clarification to note.
- 408: Combined 408 and 409.
- 409: New combined pad specifications.
- 410: Removed foundation walls deemed inadequate by Civil Engineering. If requested, we will revise and include in a future publication.

Chapter 5:

- 503.D: Clarified language.
- 508.C.6: Clarified language.
- 509.A: Updated distance requirement to reflect state regulatory differences.
- 509.H: Simplified language.
- 509.I: Updated language to reflect state regulatory differences.

Chapter 6:

- 600.J: Added language for not modifying lugs.
- 601.B: Added language for free standing pedestals and cabinets.

602 Updated/Added to drawing.
607: Updated Table to match ESE.
611: Clarified the rigid conduit needs to be RGS.
611 Note 7: Made UG option preferred to match different sections within ESR.
613.E.2: Added language that had been lost from a previous version.
613.H.2.C.6: Added language to clarify requirements. Removed label.
613A: Clarified the rigid conduit needs to be RGS. Limit to 1200A.
613B: Limit to 1200A.
614: Clarified the rigid conduit needs to be RGS.

Chapter 7:

705: Clarified rigid conduit needs to be used.

Chapter 8:

806A: Corrected amperage rating to match Chapter 1.
806B: Corrected amperage rating to match Chapter 1.
807: Corrected amperage rating to match Chapter 1.

Chapter 9:

901:
902: Added language to clarify requirements and updated drawing.
903 Note 10: Clarified clearing space requirements between customer-owned and Alliant Energy equipment.

Chapter 10: No Changes.

Chapter 11: No Changes.

Chapter 12: Entire Chapter re-written.

Chapter 13:

1308.B: Revised drawing.
1308.C & D: New drawings and clarified text.
Added to Non-Combustible definition.
1313: Revised drawing.

Chapter 14: All new drawings throughout Chapter.

1403: Changed 'may' to 'shall'.
1401.A: Deleted.
1402: Deleted.
1402.A: Deleted.
Fig.1403A: Deleted.
Fig.1403B: Deleted.

Chapter 15: New Chapter - Electric Vehicles

Electric Service Equipment Summary of Changes 2019

General maintenance, clarifications and clean-up have been made through-out the ESE manual.

General Information:

E004: Added Brooks Utility contact - new socket supplier
Added Dalmaray contact - precast concrete pad supplier

Chapter 1: Meter Sockets:

E100.C Clarified the note when selecting the 8-terminal meter sockets

Chapter 2: Metering Cabinets:

E200.A.6: Added note that modifying lugs in not allowed
E200.F: Updated subsections that 1600A and larger only padmount allowed
E205: Removed 1600A Wall-mount cabinets (13 total)
E206: Removed 2000A Wall-mount cabinets (13 total)
E207: Removed 2500A Wall-mount cabinets (11 total)
E208: Removed 3000A Wall-mount cabinets (11 total)
E221: Removed 1600A Wall-mount cabinets (6 total)
E222: Removed 2000A Wall-mount cabinets (6 total)
E223: Removed 2500A Wall-mount cabinets (6 total)
E224: Removed 3000A Wall-mount cabinets (6 total)

* Wall mount equipment that was removed will be added to an Addendum and may be used by Variance Request only.

Chapter 3: Additional Equipment Information:

E307/308: Removed 1600A & 2000A wall-mount equipment (4 total)
E309: Review, update and clarification for Switchboards based on feedback from one manufacturer
E310: Removed Elliot Primary metering due to ergonomic issues.
E311E: Added additional approved automatic transfer switches from Briggs & Stratton. Updated Generac part numbers
E312: Added preformed concrete pads from Dalmaray
E315: Updated for wiring bending radius at terminals, reviewed and updated requirements and drawings

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