

Electric Service Standards



FPL®

August 2026

This manual is subject to revision as required. For the latest version and other information, visit us on the web at:

<https://www.fpl.com/partner/pdf/electric-service-standards.pdf>



FPL®

Electric Service Standards

for Overhead, Underground and
Residential Subdivision Areas

Distribution Construction Processes

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JUST A REMINDER!

FPL's Electric Tariff Sheet 6.061 States:

8.2 Setting and Removing Meters - None but duly authorized agents of the Company or persons authorized by law shall set or remove, turn on or turn off, or make any changes which will affect the accuracy of such meters. Connections to the Company's system are to be made only by its employees.

8.3 Tampering with Meters - Title to meters and metering equipment shall be and remain in the Company. Unauthorized connections to, or tampering with the Company's meter or meters, or meter seals, or indications or evidence thereof, subjects the Customer to immediate discontinuance of service, prosecution under the laws of Florida, adjustment of prior bills for services rendered, a tampering penalty of \$200 for residential and non-demand commercial customers and \$1,000 for all other customers, and reimbursement to the Company for all extra expenses incurred on this account.

PLEASE KEEP SAFETY FIRST – CALL YOUR LOCAL FPL CONSTRUCTION OFFICE FOR AN APPOINTMENT TO DISCONNECT THE SERVICE AND REMOVE THE SEAL/METER. REFER TO SECTION III-I OF THESE ELECTRIC SERVICE STANDARDS REGARDING THE EXCEPTION ALLOWED BY FPL.

FOREWORD

FPL, in cooperation with customers and their agents, wishes to provide adequate electric service in an expeditious manner.

This publication, FPL's Electric Service Standards (ESS), is intended to furnish information often required by customers and their agents (builders, architects, engineers, electricians, etc.) to receive FPL's electric service. The ESS is subject to and subordinate in all respects to FPL's Tariff, as amended from time to time and approved by the Florida Public Service Commission, the Florida Administrative Code as it pertains to publicly held utilities, and to the provisions of the current edition of the National Electrical Safety Code.

This document is not intended to be all inclusive and is not a substitute for direct communication between the Customer and FPL. This direct communication is essential to mutually understanding service needs and requirements, and the ability of FPL to provide prompt and adequate electric service.

FPL's ESS is revised periodically due to ongoing changes in engineering and construction practices, and consequently some of the provisions contained herein may be obsolete.

ESS MANUAL ONLINE

It is essential that the Customer or his agent contact FPL's representative or go online to ensure they have the latest issue of FPL's Electric Service Standards. The ESS is available in pdf format and can be opened with adobe acrobat reader. **Prior to accessing the ESS (Electric Service Standards), please ensure that your browser cache has been cleared to prevent any legacy versions from being loaded. This will ensure you are accessing the most current version of the system and avoid potential compatibility issues.** In addition, it can be saved or printed by section or as a complete manual.

The ESS can be found on the web at: www.fpl.com/partner/pdf/electric-service-standards.pdf

FPL PROJECT PORTAL

Making it easy to manage your construction project, the new FPL Project Portal is a site that provides you with self-service options such as applying for a construction project, tracking the status of your project, viewing pending and completed requirements, collaborating with your FPL team, and paying your construction bills online.

The FPL Project Portal can be found on the web at: partner.fpl.com/construction.html



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**ETS - Design and
Standards - Distribution**

Summary of Revisions

I: 1 of 4

Section	Title	Revision	Date
IV.A.1 Fig IV-14 VII	Service Equipment – General Identification of Customer Service Approved Enclosure List	Added requirement to identify (tag) customer service at source Added figure for tagging customer owned services Updated Approved Enclosure List	May 2009
XIII	Safety	Notification of FPL Facilities	Jun 2009
II	General	Contact telephone numbers for Treasure Coast Area	Oct 2009
VI	Metering Equipment	Limited self-contained 480V, 2 wire service to 320 amps	Oct 2009
II	General	Changed reference for obsolete FPL form 1745	Nov 2009
III.L	2 wire, 480V service	Clarified to indicate that it applies to metered service	Jan 2010
VI.B	Metering Equipment	Clarified 480V, 2 wire service to indicate that it applies to metered service	Jan 2010
III.A	Standard Service	Added 240/480V, 3 wire service	Mar 2010
III.G	Temporary Service	Clarified that approved meter enclosures are required	Mar 2010
Fig IV-1 and IV-2	Temporary Service	Clarified that approved meter enclosures are required	Mar 2010
Fig IV-8	Self-contained overhead service	Added 240/480V, 3 wire to wiring diagram	Mar 2010
IV.B.5	Installation of service entrance	Prohibited condulets and junction boxes	Apr 2010
Fig VI-9	Flood Elevation	Elevation is inspecting authority requirement, not FPL.	Apr 2010
IV.A.1	Service Equipment – General	Changed “should” to “shall” regarding accessibility of service equipment	Sep 2010
XII.C	Disconnect Devices for Customer-Owned Street/Outdoor Security Lighting	Customer required to supply relays for all group controlled street lights, OH or UG	Dec 2010
V.A	Transformer requirements	Corrected max wire size, added max # of 4” ducts for 1 phase regular style transformers	Jan 2011
Fig. VI-6a	Padmounted CT for Renewable Generation	Added specifications for primary metered installations for Renewable Generation interconnects	Mar 2011
IX.A	Motors, Controllers And Air Conditioners	Clarified maximum motor size by type of service	Apr 2011
IV, VI	Service Equip, Metering Equip	Changed manual bypass to lever bypass	Jun 2011
I, III.F	Definitions, Service Provisions	Clarified that Miami network is existing and no new networks are being constructed	Jul 2011
Fig IV-10	Service Equipment	Added Specifications for installing IBT	Jul 2011
VII	Approved Enclosure List	Updated Approved Enclosure List	Jul 2011
II	General	Updated service center contact info, updated Measuring Electric Consumption to match Florida Administrative Code 25-6.049 wording	Jul 2011
XIII	Safety	Replaced “Notification of Facilities” with updated version showing new OSHA clearances, updated “Safety 6” with new OSHA clearances	Jul 2011
XII	Street and Outdoor Lighting	Removed limit of one pole installed for the outdoor light	Sep 2011
VI-B	Metering Equipment	Restriction on use of multiple conductor lugs	Oct 2011
XIII	Safety	Replaced “Notification of Facilities” with updated version	Jan 2012
VIII	Grounding	To reflect clarifications to 2011 NEC Article 250.52	Jan 2012
IX	Motors, Controllers, and Air Conditioners	Added recommendation for “AURORA” protection	Feb 2012
Fig IV-13a	Remote meter location – mobile home	Note 2 – added fiberglass post as acceptable	Apr 2012
II	Unauthorized Attachments	Added restrictions for power monitors, RF shields, and meter base generator interconnects	Jun 2012
III.D.6	Service Provisions	Added language in reference to prohibition of “plug bus” prior to the meter centers	Sept 2012
VI.H	Metering Equipment	Clarified installation of FPL equipment in customer switch cabinets	Sept 2012
III.I	Service Changes	Noted to ensure the existing FPL conductors will reach the new service equipment	Feb 2013
VII	Approved Meter Enclosures	Updated FMG approved meter enclosure list	June 2013



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Section	Title	Revision	Date
VII	Approved Meter Enclosures	Updated the approved enclosure list	Aug 2013
IV	Service Provisions	Conductor installation must comply with NEC Article 300.3	Feb 2014
Fig IV-12b	Service Provisions – Multiple Meter Centers	Request to mark the inside of meter enclosures with address served when possible to do so	Oct 2014
VI.E	Metering Equipment – Identification of Meters	Request to mark the inside of meter enclosures with address served when possible to do so	Oct 2014
Fig IV-13a	Service Provisions – Service to Mobile Home	Added table of acceptable pole classes	Oct 2014
VII	Approved Meter Enclosures	Updated the approved enclosure list	Jan 2015
VII	Approved Meter Enclosures	Corrected the approved enclosure list	Apr 2015
Fig VI-10	Metering Equipment – Vault Bus Stub	Added note for clearance between stubs of different voltages	Oct 2015
II	General	Updated contact telephone for Nassau, Starke, and Lake City service centers	Nov 2015
V	Requirements for Transformers	Changed note regarding number of sets of cable where a secondary cabinet is recommended	Jan 2016
IV	Service and Meter Connections	Noted that K-7 enclosures are “maintenance only” items	Jan 2016
Fig. IV-8	Self-Contained Meter Installation - Overhead Service	Added note 3 regarded 5th terminal wiring.	Mar 2016
VII	Approved Meter Enclosures	Updated the approved enclosure list	Mar 2016
Fig IV-11b	FPL Buried Service Lateral – Meter Socket & Down Pipe Requirements	Noted bends to be Galvanized or Schedule 80 PVC	Apr 2016
V.A	Requirements for Transformers situated on Customer Property	Updated Transformer sizes in table	Apr 2016
II	General	Updated Toledo Blade phone #	Feb 2017
V	Requirements for Transformers situated on Customer Property	Updated table in section A	Feb 2017
VI	Metering Equipment	Added second paragraph on when to use K-cans. Updated Fig. 1, 3, and general notes throughout the figures	Feb 2017
VII	Approved Meter Enclosures	Updated the Approved Enclosure list	Feb 2017
XII	Street Lights	Added SL-1M and SL-2M rates and general revisions	Feb 2017
XII	Street Lights	Revised due to LT-1 LED Lighting Tariff approval	Mar 2017
Inside cover	Forward, ESS online, and email address	Updated location of ESS Manual on the web, removed mailing information, added email list for future updates	Oct 2017
Inside cover	Just a Reminder!	Removed reference from Florida Statute 812.14 and added more relevant reference from the FPL Electric Tariff 6.061-8.2 and 8.3	Nov 2017
II	General	Updated address and telephone numbers for North Dade service center	Aug 2018
V	Requirements for Transformers situated on Customer Property	Revised placement distance from doors and windows	Aug 2018
Fig VI-6, VI-6a	Metering Equipment	Added notes for clearance requirements	Sept 2018
Fig IV-6a, IV-7, IV-13a	Service and Meter Connections	Restricted overhead service attachment height to 22 feet above grade for inaccessible locations	Nov 2018
V	Requirements for Transformers situated on Customer Property	Updated table in section A	Nov 2018
Inside Cover	ESS Online Manual and FPL Project Portal	Updated ESS Manual web address, removed the ESS Update Notifications, and added reference to the FPL Project Portal	Dec 2018
III	Service Provisions	Updated stack vault section	Apr 2019
VI	Metering Equipment	Limited use of meter enclosures for customer equipment (ie. DG and Surge Protectors)	May 2019
IV	Service and Meter Connections	Added note for proper tagging of 3 phase service cables	May 2019



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Section	Title	Revision	Date
VI F	Relocation or Upgrade of Metering Equipment	Added note for customer's responsibility for FPL costs if prompted by customers change in equipment	Sept 2019
II M	General: Unauthorized Attachments	Removed "lightning"	Sept 2019
XIII	Distributed Generation	Section added to the ESS	Oct 2019
XIV	Safety	Updated section numbering on the ESS	Oct 2019
IV	Service and Meter Connections	Updated horizontal clearance to swimming pools	Oct 2019
II P	General: Contacting FPL	Updated addresses and phone numbers for several locations	Nov 2019
Covers	ESS online and FPL Project Portal	Updated web address for both	Nov 2019
V	Requirements for Transformers situated on Customer Property	Updated sub grade vaults verbiage	Nov 2019
V	Requirements for Transformers situated on Customer Property	Updated minimum easement requirements to install FPL equipment in customer's property	Feb 2020
III	Service Provision	Spelled out requirement for neutral conductor de-rated to 30% ampacity of other conductors	Feb 2020
VII	Approved Meter Enclosures	Updated the approved enclosure list	July 2020
III	Commercial Service (under 600v)	Updated the provisions of the automatic throwover facilities	Jan 2021
IV	FIGURE IV-11b	Updated notes on down pipes and conduit bends	April 2021
VI	Relocation or Upgrade of Metering Equipment	Updated information on FPL owned direct buried services	April 2021
VII	Approved Meter Equipment Enclosure List	Updated Note D to reference ringless meter cans	April 2021
II	General	Reference to Battery storage under customer owned generators	Sept 2021
XIII	Distributed Generation	Updates to Net metering Interconnection	Sept 2021
XIII	Distributed Generation	Added Battery Storage Section / Disconnect Switch	Jan 2022
XII	Street Lights	Updated streetlight section for new 2022 Tariff	Jan 2022
VII	Approved Meter Equipment Enclosure List	Updated approved meter can list. Ring style cans are removed.	Jan 2022
Table of Contents	Table of Contents	Added Secondary Connections as Section VI and updated all the following sections to their new number	Feb 2022
II	General	Added NW contact information	Feb 2022
IV	Service and Meter Connections	Included note that states customer will pull service for CT services	Feb 2022
VI	Secondary Connections	Included the difference between FPL and NW FPL secondary connections	Feb 2022
VII	Approved Meter Equipment Enclosure List	Updated approved meter can list. Included temporary allowance of some K-7 and other sockets due to current market shortages.	Nov 2022
V	Requirements for Transformers situated on Customer Property	Added NW FPL max conductor and conduit size to table	Jan 2023
VII	Approved Meter Equipment Enclosure List	Updated approved meter can list. Included temporary allowance of additional enclosures due to continued market shortages.	Mar 2023
III	Service Provisions	Added wording about SSUP and OH to UG service conversions	Mar 2023
V	Requirements for Transformers situated on Customer Property	Updated NW cable sizes and count allowed in PMTX	May 2023
VII	Approved Meter Equipment Enclosure List	Updated approved meter can list. Removed certain enclosures no longer available/allowed for use in our territory.	May 2023
XIII	Distributed Generation	DER disconnect switch update	July 2023
IV	Service and Meter Connections	Ring meter types are maintenance only	Aug 2023
I	Definitions	Added FPL Northwest	Aug 2023
IV	Service and Meter Connections	Weatherhead changes and Coastal Mobile home update	Aug 2023
XIII	Distributed Generation	Updated Fig IV-1	Aug 2023



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VII	Approved Meter Equipment Enclosure List	Updated approved meter can list. Added several manufacturer options for use in our territory.	Sept 2023
VI	Metering Equipment	Updated phrasing on meter troughs	Sept 2023
I	Definitions	Updated temporary service definition	Oct 2023
XIII	Distributed Generation	Minor revisions on single line diagrams/plans	Oct 2023
I IV VI	Definitions Service and Meter Connections Metering Equipment	Added two definitions Updated labeling methods Updated labeling methods Updated Vault CTs	Oct 2023
IV V VI	Service and Meter Connections Requirements For Transformers Situated on Customer Property Metering Equipment	Service cost for additional footage due to pool conflict Coastal update for vaults Notes about meter in flood zones	Nov 2023
VII	Approved Meter Equipment Enclosure List	Updated approved meter can list.	Jan 2024
IV VI	Service and Meter Connections Metering Equipment	Revisions to overhead temporary stand FPL will not run service to IT rated service Meter's where address isn't obvious need to be labeled	Feb 2024
	Safety	Moved section to after table of contents Added line covering policy	Mar 2024
XIII	Distributed Generation	DG updates	
I III V	Definitions Service Provisions Requirements For Transformers Situated on	Revised definitions about services Added notes about OH easements Added notes about single phase and three phase pad mount transformer easements	May 2024
XIII	Distributed Generation	V2X rules	
XIII	Distributed Generation	Updated Small Generation Interconnection Agreement	Aug 2024
I II III IV V VI XIII	Definitions General Service Provisions Service and Meter Connections Requirements for Transformers Situated on Customer Property Metering Equipment Distributed Generation	Added house meter Added no 90 degree meter socket adaptors Added NW primary voltages No customer cable in FPL conduit Several changes to figure IV-6a Several changes to figure IV – 13a Updates to Figure V-1 Updates about CT in single phase and open delta pmtx Updates to battery storage	Sep 2024
III IV V	Service Provisions Service and Meter Connections Requirements For Transformers Situated on Customer Property	Two wire single phase 480 maintenance only Townhome service example Compaction specs	Nov 2024
VII	Approved Meter Equipment Enclosure List	Updated approved meter can list per Meter Group.	Mar 2025
III IV V	Service Provisions Service and Meter Connections Requirements for Transformers Situated on Customer Property	Update OH easement to 15' & FPL determine conduit route for FPL owned services No concentric neutral cables and one service lateral per townhome lot Edit figure IV-13e Added TX pad requirements	May 2025
VII	Approved Meter Equipment Enclosure List	Emergency update to approved meter can list per Meter Group.	Jun 2025
XII III	Distributed Generation Service Provisions	Updates to checklist One service per lot	July 2025
IV VI	Service and Meter Connections Metering Equipment	Wording about disconnects in front of multi-meters Added standard stairways and elevated platforms requirements	Sept 2025 Oct 2025
IV V XIII	Service and Meter Connections Requirements For Transformers Situated On Customer Property Distributed Generation	Meter enclosures 3 feet from doors/windows Will not upsize txs solely for cable accommodations Updated figures and other	Nov 2025
III	Service Provisions	Updated de-rated neutral information for all loads	Dec 2025
III VIII	Service Provisions Grounding	Throwover policy Bare and uninsulated wires in meter can	April 2026



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V	Requirements for Transformers Situated on Customer Property	Added mortise lock conditional statement for stack vaults only	May 2026
VI	Metering Equipment	Added customer-owned meter socket covers for multi-meter installation	May 2026
V	Requirements for Transformers Situated on Customer Property	Added clearances for removable barriers (bollards) in front of transformers	Aug 2026
IV	Service and Meter Connections	Added preferred attachment height for temp services	Aug 2026



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**Delivery Assurance –
Design Support**

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According to the Bureau of Labor Statistics, workplace accidents kill more than 5,000 U.S. workers every year. We urge our customers and employees to practice safe work habits to prevent serious injuries and save lives! Always follow the Safety 6 rules to prevent the most common mistakes around power lines.

Rule 1: Work a safe distance

This is the most important rule: Work at a safe distance from all power lines. The Occupational Safety and Health Administration (OSHA) requires that equipment be kept at least 10 feet away from power lines from 0-50 kV. For higher voltage lines, the required distance is even greater (see table below). When uncertain of a power line's voltage, stay 20 feet away for voltages up to 350 kV and 50 feet away for voltages greater than 350 kV. Cranes and derricks are required to take additional steps before beginning work (see OSHA Standards 29 CFR 1926.1400 effective Nov. 8, 2010). Call FPL at 1-800-375-4375 or your local utility to identify the voltage of power lines before you begin working. **Under no circumstance will FPL cover energized lines for any entity other than FPL. If minimum work clearances can not be maintained de-energization of lines will need to be negotiated at customer's expense.**

If you witness a violation of the rules, stay away from the equipment and warn the operator to move away from the power line.

FPL Power Line Voltages	OSHA Minimum Approach Distance (OSHA 1926.1408 Table A)
0 – 50 kV	10 feet
Over 50 kV to 200 kV	15 feet
Over 200 kV to 350 kV	20 feet
Over 350 kV to 500 kV	25 feet
Over 500 kV to 750 kV	35 feet

Rule 2: Stay calm - stay away

When operating a piece of equipment that contacts a power line	You should
You are <u>not</u> in danger from a fire or from being struck by a power line	- Stay where you are. - Move the equipment away from the power line, if possible. - Warn others not to approach the equipment. - Call FPL at 1-800-4OUTAGE (1-800-468-8243) or call 911 to contact FPL or your local utility for assistance.
You are in danger and must get off the equipment	- Jump as far away from the equipment as you can and land with both feet together. (No part of your body should touch the equipment and the ground at the same time.) - Hop or shuffle away from the equipment with your feet together to reduce the risk of electric shock. - Once clear, do not return to the equipment until FPL declares it safe. - Call 911 and/or call FPL at 1-800-4OUTAGE (1-800-468-8243) or your local utility.



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When operating a piece of equipment that contacts a power line	You should
If a fellow worker is in danger	• Stay away. • Warn fellow workers to stay away. • Call 911 and/or call FPL at 1-800-4OUTAGE (1-800-468-8243) or your local utility.

Rule 3: Ladders and lines don't mix

Before you begin working, look up and note the location of power lines. You can be seriously hurt or killed if the object you are holding or standing on contacts a power line.

- Before raising or extending any equipment capable of reaching a power line, check in all directions for power lines.
- Keep a safe distance from any power line, measuring from the end or tip of your own extended reach and including the end or tip of any object you are holding or carrying. Remember to allow even greater distance for safety near higher voltage lines such as transmission lines.
- Even nonmetallic ladders and equipment can conduct electricity.

Rule 4: Call before you dig

- One easy call to 811 starts the process of getting underground utility lines marked for free.
- Utility company locators will mark the approximate location and type of underground utilities with paint and flags.
- To avoid costly repairs and construction delays, be sure to contact Sunshine State One Call of Florida at 811 or 1-800-432-4770 at least two full business days in advance of any excavation work.* Visit www.CallSunshine.com for more information.

** In accordance with the Underground Facility Damage Prevention and Safety Act, Chapter 556, Florida Statutes*

Rule 5: Look up and live

Look up when working around overhead power lines, especially when trees are nearby.

Branches can hide power lines from view.

- Look up for power lines when using tools of any kind. Even nonmetallic tools can conduct electricity.
- Cranes and derricks that approach working distance within 20 feet of power lines with operating voltages up to 350 kV, or within 50 feet of power lines with voltages greater than 350 kV, are mandated to take "encroachment prevention measures." See OSHA Standards 29 CFR 1926.1400.
- Look up for power lines when putting up scaffolding, framing a building, painting, pruning trees or picking fruit.
- Before moving a tree under a power line, look up and determine the maximum height to lift the tree. Keep a safe distance away as required by OSHA. Trees can conduct electricity.
- Look up for power lines when working on top of buildings.



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- Before transporting large boats or large objects, please identify a safe route that avoids power lines. If you cannot avoid power lines, please call 1-800-375-4375 to coordinate transport and temporary removal* or de-energizing of FPL power lines.

** Charges may apply for temporary removal or relocation of power lines. You may need to coordinate transportation of oversized objects with local authorities.*

Rule 6: Downed lines can be deadly

Always assume that any downed power line is energized, and stay away.

- Do not touch or attempt to move any power line.
- Call 911 and 1-800-4OUTAGE (1-800-468-8243) or your local utility immediately.
- If a fellow worker touches a downed line or is handling equipment that contacts a power line, remember that any rescue attempt places you in danger.
- If you must rescue a person in contact with a power line, never use your hands. Use a dry, nonconductive object to move the person to safety.

Important contact information

Call 911 for any emergency.

**Call 1-800-4OUTAGE
(1-800-468-8243)**

to report contact with power lines,
downed power lines or an outage.

Call 811 before you dig.

Call 1-800-375-4375 for identification of
power line voltage or help with safe
transportation of large boats or large objects.



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NOTIFICATION OF FPL FACILITIES

Customer/Agency _____
Developer/Contractor Name _____
Location of Project _____
FPL Representative _____
Developer/Contractor Representative _____

Date of Meeting/Contact: _____
Project Number/Name: _____
City: _____
Phone: _____
FPL Work Request #/ Internal Order #: _____

FPL calls your attention to the fact that there may be energized, high voltage electric lines, both overhead and underground, located in the area of this project. It is imperative that you visually survey the area and that you also take the necessary steps to identify all overhead and underground facilities prior to commencing construction to determine whether the construction of any proposed improvements will bring any person, tool, machinery, equipment or object closer to FPL's power lines than the OSHA-prescribed limits. If it will, you must either re-design your project to allow it to be built safely given the pre-existing power line location, or make arrangements with FPL to either deenergize and ground our facilities, or relocate them, possibly at your expense.

You must do this before allowing any construction near the power lines. It is impossible for FPL to know or predict whether or not the contractors or subcontractors, and their employees, will operate or use cranes, digging apparatus or other mobile equipment, or handle materials or tools, in dangerous proximity to such power lines during the course of construction, and, if so, when and where. Therefore, if it becomes necessary for any contractor or subcontractor, or their employees, to operate or handle cranes, digging apparatus, draglines, mobile equipment, or any other equipment, tools or materials in such a manner that they might come closer to underground or overhead power lines than is permitted by local, state or federal regulations, you and any such contractor or subcontractor must notify FPL in writing of such planned operation prior to the commencement thereof and make all necessary arrangements with FPL in order to carry out the work in a safe manner. **Any work in the vicinity of the electric lines should be suspended until these arrangements are finalized and implemented.**

The National Electrical Safety Code ("NESC") prescribes minimum clearances that must be maintained. If you build your structure so that those clearances cannot be maintained, you may be required to compensate FPL for the relocation of our facilities to comply with those clearances. As such, you should contact FPL prior to commencing construction near pre-existing underground or overhead power lines to make sure that your proposed improvement does not impinge upon the NESC clearances.

It is your responsibility and the responsibility of your contractors and subcontractors on this project to diligently fulfill the following obligations:

1. Make absolutely certain that all persons responsible for operating or handling cranes, digging apparatus, draglines, mobile equipment or any equipment, tool, or material capable of contacting a power line, are in compliance with all applicable state and federal regulations, including but not limited to U.S. Department of Labor OSHA Regulations, while performing their work.
2. Make sure that all cranes, digging apparatus, draglines, mobile equipment, and all other equipment or materials capable of contacting a power line have attached to them any warning signs required by U.S. Department of Labor OSHA Regulations.
3. Post and maintain proper warning signs and advise all employees, new and old alike, of their obligation to keep themselves, their tools, materials and equipment away from power lines per the following OSHA minimum approach distances (refer to OSHA regulations for restrictions):

<u>*Power Line Voltages</u>	<u>**Personnel and Equipment</u> (29 CFR 1910.333 and 1926.600)	<u>Cranes and Derricks</u> (29 CFR 1926.1407, 1408)	<u>Travel under or near Power Lines (on construction sites, no load)</u> (29 CFR 1926.600 – Equipment)	<u>(1926.1411 – Cranes and Derricks)</u>
0 - 750 volts	10 Feet	10 Feet	4 Feet	4 Feet
751 - 50,000 volts	10 Feet	10 Feet	4 Feet	6 Feet
69,000 volts	11 Feet	15 Feet	10 Feet	10 Feet
115,000 volts	13 Feet	15 Feet	10 Feet	10 Feet
138,000 volts	13 Feet	15 Feet	10 Feet	10 Feet
161,000 volts	14 Feet	15 Feet	10 Feet	10 Feet
230,000 volts	16 Feet	20 Feet	10 Feet	10 Feet
500,000 volts	25 Feet	25 Feet	16 Feet	16 Feet

***When uncertain of the voltage, maintain a distance of 20 feet for voltages up to 350,000 volts and 50 feet for voltages greater than 350,000 volts.**

****For personnel approaching insulated secondary conductors less than 750 volts, avoid contact (Maintain 10 Feet to bare energized conductors less than 750 volts). For qualified personnel and insulated aerial lift equipment meeting requirements of 29 CFR 1910.333, distances may be reduced to those shown in 29 CFR 1910.333 Table S-5.**

4. All excavators are required to contact the Sunshine State One Call of Florida, phone number 1-800-432-4770 or 811 a minimum of two working days (excluding weekends) in advance of commencement of excavation to ensure facilities are located accurately.
5. Conduct all locations and excavations in accordance with the Florida Statute 556 of the Underground Facilities Damage Prevention & Safety Act and all local city and county ordinances that may apply.
6. When an excavation is to take place within a tolerance zone, an excavator shall use increased caution to protect underground facilities. The protection requires hand digging, pot holing, soft digging, vacuum methods, or similar procedures to identify underground facilities.

A copy of this notification must be provided by you to each contractor and subcontractor on this project, to be shared with their supervision and employees prior to commencing work on this project.

Means by which this notification was provided to customer and/or contractor

Address

FPL Representative Signature

Date

Customer/Developer/Contractor Representative Signature

Date

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5 of 5**UNDERGROUND UTILITY LOCATING INFORMATION**

CALL 2 BUSINESS DAYS BEFORE YOU DIG, IT'S THE LAW, CALL SUNSHINE 1-800-432-4770 (or simply dial 811)

Or visit www.callsunshine.com

A. Information needed when you call:

- Company Name & Address
- Contact Person's Name
- Phone Number
- Call-Back Hours

B. Dig site location information:

- County & City
- Location Address (or from where to where)
- Nearest Cross Street

C. Other:

- Machinery to be Used
- Permit Needed
- Work Done For
- Type of Work

D. Color Codes for Marking Underground Utility Lines:

RED	ELECTRIC
YELLOW	GAS - OIL - STEAM
ORANGE	COMMUNICATION CATV
BLUE	WATER
GREEN	SEWER
PINK	TEMPORARY SURVEY MARKINGS
WHITE	PROPOSED EXCAVATION



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Base Rate Revenue - For use in these Standards, the non-fuel energy (kwh) and demand charge (kwd), if any, revenue resulting from the Customer's electricity use under the applicable rate schedule. Base Rate Revenue excludes, without limitation, customer charges, taxes, franchise fees; fuel, conservation, capacity payment, environmental charges; and any other charges or credits (such as TR rider, transformer rental, or load management or curtailment credits).

CIAC (Contribution in Aid of Construction) - A nonrefundable charge for electric service where (a) the extension is not justified by projected revenues and/or (b) the cost of providing underground electric facilities exceeds the cost of equivalent overhead facilities ("differential" cost), and/or (c) non-standard service, as determined by FPL, is being requested for the load being served.

Coastal – Any address that falls within a FEMA flood zone "A" or "V". The link [here](#) can be used to determine flood zone.

Commercial Service - For purposes of these Electric Service Standards, any electric service used for non-residential purposes (excluding those applications found in FPL's "lighting" tariffs).

Commercial-Use – Any portion of the power that is consumed through the meter is used for business purposes. Examples include a horse barn with stalls for rent, a workshop where furniture is made for sale, a detached garage where a car repair business is operated, etc.

Customer - Any present or prospective user of FPL's electric service, or any person or entity representing him, such as the architect, engineer, electrical contractor, land developer, builder, etc.

Dwelling Unit - a structure containing space for cooking, sleeping, living, sanitation and is permitted with the local authority with jurisdiction as a residence.

Expected Incremental Base Revenue - The estimated Base Rate Revenue, as defined above and determined by FPL, generated on the facilities being installed or upgraded to serve the Customer.

ESS (Electric Service Standards) - The acronym referring to this publication.

FAC (Florida Administrative Code) - The official compilation of the Rules and Regulations of Florida Regulatory Agencies filed with the Dept. of State under the Provisions of Chapter 120, Fla. Statutes.

FPL - Florida Power and Light Company, or an employee properly qualified to represent Florida Power and Light Company.

FPL Northwest - refers to the geographical region that was previously known as Gulf Power. Defined in Section II – General on pages 14 and 15.

Ground - A conducting connection between an electrical circuit or piece of equipment and the earth, or to a conducting body that serves in place of the earth.

House Meter – A meter that serves common building loads such as outdoor lighting, elevators, fire protection, etc.

Meter Socket - A meter socket is a device which provides support and means of electrical connection to a watt-hour meter. It has a wiring chamber, with provisions for conduit entrances and exits, and a means of sealing the meter in place. The word "socket" in these Standards refers to meter socket.

Mobile Home - A mobile home is a factory assembled structure designed to be used as a living unit, and readily movable on its own running gear. It has no permanent foundation.

Multiple Occupancy Building - A unified structure containing five or more individual dwelling units.



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Point of Delivery - The location where FPL-owned conductors are connected to customer-owned conductors. Typical points of delivery include weatherheads, meter sockets, service junction boxes, handholes, padmounted transformers, and vaults. The point of delivery shall be determined by FPL. The point of delivery for an FPL owned and maintained underground residential service lateral is the line side of the meter socket, for an FPL owned and maintained overhead service drop the point of delivery is the attachment to the customer's weatherhead.

Recreational Vehicle (RV) - A vehicle designated for temporary living quarters for camping, traveling, or recreational use. It may have its own motive power, or be mounted on or pulled by another vehicle.

Residential Service - Electric service supplied exclusively for domestic purposes in individually metered dwelling units, where permanent residency is established, including the separately metered non-commercial-use facilities of a residential customer (e.g. garages, water pumps, etc.). This solely refers to the rate at which the service is billed at.

Residential Service Lateral – Refers to the FPL owned and maintained underground cables on the line side of the meter socket. Residential service laterals will only be installed to a dwelling unit. **A customer can elect to have customer owned service that is still a residential service (i.e. billed at the residential rate). If the customer chooses to do so they will be responsible for installing and maintaining the customer owned service.**

Recreational Vehicle Park or Campground - An accommodation for recreational vehicles or other camping outfits where an individual site is rented, and the intent of the park or campground is not to establish permanent residencies.

Secondary Network Service - A type of electric service generally available only in certain parts of downtown Miami from an existing grid of interconnected secondary conductors. This grid is fed from two or more three-phase transformers connected to different primary feeders. Service voltage from the grid is 120/208 volt, four wire wye. Spot network service (single locations or small confined areas) may be 277/480 volt, four wire wye. The network service is only available in specific locations and new secondary networks are not being constructed.

Service - The conductors and equipment that deliver energy from FPL's system to the wiring system of the premise being served. It also means maintenance of voltage and frequency (within acceptable tolerances) by FPL at the point of delivery. **All FPL owned services, including overhead and underground, do not need easements when the facilities are located on the property of the customer.**

Service Drop - The overhead conductors from FPL's last pole or other aerial support to and including the splices, if any, connecting the Customer's service entrance conductors at the building or other structure.

Service Entrance - The Customer's installation from the service drop or service lateral connection to and including the service equipment.

Service Entrance Conductors - The Customer's conductors from point of connection at the service drop or service lateral to the service equipment.

Service Equipment - The Customer's equipment which controls the electric service and contains the switching and overcurrent protective devices, usually located near the entry point of the service entrance conductors into the building.

Service Lateral - The underground service conductors connecting FPL's distribution system to the Customer's service entrance conductors.

Standard Service - The minimum level of service, as determined by FPL, for the load to which electric service is being requested by the Customer. Typically, this service is overhead (with wood poles), at the standard voltages specified in ESS **Section III.A**, to the FPL designated point of



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delivery. Generally, any service requested of FPL that exceeds FPL's minimum level of service is paid for as a CIAC. All service is alternating current (AC) at 60 hertz (cycles per second).

Tariff - Schedule of FPL rates, charges, and General Rules and Regulations for providing electric service. FPL's Electric Tariff is available for inspection at any FPL business office, and is on file with Florida's Public Service Commission (FPSC). The word "Tariff" in these Standards refers to FPL's Electric Tariff.

Temporary/Construction Service - Limited term electric service to operations such as: Exhibitions, Construction Projects, Fairs, Holiday Lighting, Dredging Jobs, etc. These services shall be connected for no more than 12 months. Any service connected past 12 months is considered a permanent service.

Transformer Vault - An isolated enclosure, with fire resistant walls, ceilings and floor, in which transformers and related equipment are installed and not continuously attended during operation.

Underground Distribution - A distribution system where the conductors are buried with or without enclosing ducts. Newer systems are in conduit. Transformers, switches and other equipment are normally above ground, or enclosed in vaults or other enclosures.

URD - (Underground Residential Distribution) - An underground distribution system, primarily supplying single phase, three wire service laterals to residential dwelling units. Most conductors are buried and new systems are in conduit. Transformers and primary switches are contained in above ground padmounted enclosures.

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**Delivery Assurance -
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FPL - As used in these Standards, the word "FPL" represents FPL Company or any employee properly qualified to represent FPL Company.

Customer - For the purpose of these Standards, the word "Customer" represents any present or prospective user of FPL's electric service, or any person or entity representing him, such as the architect, engineer, electrical contractor, land developer, or builder, etc.

Contacting FPL - FPL maintains offices throughout its service area. New extensions of electric facilities to serve customers, or modifications to existing electric facilities, are generally handled by FPL's Construction Department. Information concerning a specific installation should be requested by the Customer from FPL's nearest Construction office. Locations are listed at the end of this section. **Early Contact** with FPL is **necessary** to ensure provision of electric service in as timely a fashion as possible.

Close coordination is necessary throughout the planning and construction stages by FPL and the Customer, or those representing him. Particular attention shall be given to the scheduling of the construction of paved areas and the various sub grade installations of the several utilities.

FPL strives to supply its Customers' needs for electric service as efficiently, reliably and economically as possible. Although this publication provides many of the guidelines concerning FPL's character of service and policies, it is not possible to document all the detailed information the Customer may require. **This publication is not intended to replace direct communication with FPL.** Contact with FPL during the **early** stages of the Customer's design is **strongly** encouraged to avoid misunderstanding, delays, and unnecessary expense.

A Notification of New Construction form is available upon request for use by the Customer to facilitate the exchange of information between FPL and the design professionals on large projects.

B. Application for Electric Service

Application for electric service shall be well in advance of the date service will be required. All matters pertaining to the use of electric service should be discussed with FPL at that time. Depending on the service requested, a standard written agreement between the Customer and FPL may be required. Depending on the type of premise or load being served, any or all of the following Information may be required of the Customer:

1. Exact location of premise to be served (i.e., site plan, recorded plat, street address, lot, block number and legal description of property)
2. Size of air conditioning, heating, water heating, cooking, etc; type and voltage of other motor load, number of phases, horsepower; street lighting, traffic signals, etc.
3. Mechanical plans, electrical plans, elevations, etc.
4. Utility (water, sewer, gas, etc.) plans, paving & drainage plans, landscaping plans
5. Any special or unusual requirements

Every reasonable effort will be made by FPL to reach a prompt and mutually satisfactory arrangement with the Customer regarding the characteristics of the service to be furnished and the designated point of delivery.



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C. Availability of Desired Type of Electric Service

Contact with FPL **early** in the Customer's planning stage is **strongly** encouraged to determine availability of service at any location, FPL's standard type of service for the load to be served, and the designated point of delivery. If the standard type of service does not meet the Customer's requirements, FPL will consider supplying the requested type of service, subject to availability, providing the manner of use does not jeopardize the quality of service to others. It may be necessary for the Customer to compensate FPL for any incremental costs of supplying such service. If special FPL equipment is needed, adequate time shall be allowed to obtain it.

Written information concerning availability and character of service for any desired location will be supplied by FPL. FPL will not be responsible for mistakes resulting from information given orally.

Contact with FPL **early** in the Customer's design stage is essential so that engineering, material procurement, and job scheduling may be performed in a manner conducive to providing timely service to the customer. Any change in plans that is likely to affect the electric service should be communicated to FPL at once. Failure to do so may result in unnecessary delays and/or expense.

D. Contributions by Customer

Throughout these standards, references are made to customer Contributions In Aid of Construction (CIAC), whereby the customer pays for a portion of the requested service. In all cases, ownership of the requested facility remains with FPL, and payments are required **well in advance** of FPL's construction, allowing for proper scheduling. Contact your FPL representative concerning the "timing" of the payment. Withholding payment until the latter stages of a project's development may cause unnecessary delays and added expense to the Customer.

In the event trenching and conduit are involved, the customer may provide the trench and/or install the FPL provided PVC conduit, where mutually agreed upon by the customer and FPL. The Customer will receive a credit, as determined by FPL, for such work. The amount of the credit is limited to the total amount of CIAC that is due. Typically, the credit will be granted after the work has been inspected by FPL and, in the case of customer installed conduit, after FPL pulls the cable. Coordinate with FPL service planner to ensure conduit is inspected before backfill.

E. Rights of Way and Easements

The customer shall furnish and record satisfactory rights of way and easements, including legal descriptions of such easements and all survey work associated with producing legal descriptions of such easements, as required by and at no cost to FPL before FPL commences construction. Only the unaltered FPL standard form 3722 will be accepted for easements. Before FPL starts construction, these rights of way and easements shall be cleared by the customer of trees, tree stumps and other obstructions that conflict with construction, staked to show property corners and survey control points, graded to within six inches of final grade, with soil stabilized. In addition, the customer shall provide stakes showing final grade along the easement. Such clearing and grading shall be maintained by the customer during construction by FPL.

Where plats are concerned, FPL requests the plat be presented before recording so provisions for easements can be included on the plat. This will minimize, if not eliminate, future costs associated with producing, securing, and recording the easement(s).

When building additions to existing structures, care shall be taken not to encroach upon FPL's easements. Violation of FPL's granted easements may result in legal consequences to the building owner. FPL should be contacted early in the design and planning stage in order to determine if changes to FPL's existing easement are required.

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**Delivery Assurance -
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1. FPL's individual electric metering requirements are set forth in Florida Administrative Code 25-6.049, which states in sections (5) through nine (9):

(5) Individual electric metering by the utility shall be required for each separate occupancy unit of new commercial establishments, residential buildings, condominiums, cooperatives, marinas, and trailer, mobile home and recreational vehicle parks. However, individual metering shall not be required for any such occupancy unit for which a construction permit was issued before, and which has received master-metered service continuously since January 1, 1981. In addition, individual electric meters shall not be required:

(a) In those portions of a commercial establishment where the floor space dimensions or physical configuration of the units are subject to alteration, as evidenced by non-structural element partition walls, unless the utility determines that adequate provisions can be made to modify the metering to accurately reflect such alterations;

(b) For electricity used in central heating, ventilating and air conditioning systems, or electric back up service to storage heating and cooling systems;

(c) For electricity used in specialized-use housing accommodations such as hospitals, nursing homes, living facilities located on the same premises as, and operated in conjunction with, a nursing home or other health care facility providing at least the same level and types of services as a nursing home, convalescent homes, facilities certificated under Chapter 651, F.S., college dormitories, convents, sorority houses, fraternity houses, and similar facilities;

(d) For lodging establishments such as hotels, motels, and similar facilities which are rented, leased, or otherwise provided to guests by an operator providing overnight occupancy as defined in paragraph (8)(b);

(e) For separate, specially-designated areas for overnight occupancy, as defined in paragraph (8)(b), at trailer, mobile home and recreational vehicle parks and marinas where permanent residency is not established;

(f) For new and existing time-share plans, provided that all of the occupancy units which are served by the master meter or meters are committed to a time-share plan as defined in Chapter 721, F.S., and none of the occupancy units are used for permanent occupancy.

(g) For condominiums that meet the following criteria:

1. The declaration of condominium requires that at least 95 percent of the units are used solely for overnight occupancy as defined in paragraph (8)(b) of this rule;

2. A registration desk, lobby and central telephone switchboard are maintained; and

3. A record is kept for each unit showing each check-in and check-out date for the unit, and the name(s) of the individual(s) registered to occupy the unit between each check-in and check-out date.

(6) Master-metered condominiums.

(a) Initial Qualifications – In addition to the criteria in paragraph (5)(g), in order to initially qualify for master-metered service, the owner or developer of the condominium, the condominium association, or the customer must attest to the utility that the criteria in paragraph (5)(g) and in this subsection have been met, and that any cost of future conversion to individual metering will be the responsibility of the customer, consistent with subsection (7) of this rule. Upon request and reasonable notice by the utility, the utility shall be allowed to inspect the condominium to collect evidence needed to determine whether the condominium is in compliance with this rule. If the criteria in paragraph (5)(g) and in this subsection are not met, then the utility shall not provide master-metered service to the condominium.

(b) Ongoing Compliance – The customer shall attest annually, in writing, to the utility that the condominium meets the criteria for master metering in paragraph (5)(g). The utility shall establish the date that annual compliance materials are due based on its determination of the date that the criteria in paragraphs



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(5)(g) and (6)(a) were initially satisfied, and shall inform the customer of that date before the first annual notice is due. The customer shall notify the utility within 10 days if, at any time, the condominium ceases to meet the requirements in paragraph (5)(g).

(c) Upon request and reasonable notice by the utility, the utility shall be allowed to inspect the condominium to collect evidence needed to determine whether the condominium is in compliance with this rule.

(d) Failure to Comply – If a condominium is master metered under the exemption in this rule and subsequently fails to meet the criteria contained in paragraph (5)(g), or the customer fails to make the annual attestation required by paragraph (6)(b), then the utility shall promptly notify the customer that the condominium is no longer eligible for master-metered service. If the customer does not respond with clear evidence to the contrary within 30 days of receiving the notice, the customer shall individually meter the condominium units within six months following the date on the notice. During this six month period, the utility shall not discontinue service based on failure to comply with this rule. Thereafter, the provisions of Rule 25-6.105, F.A.C., apply.

(7) When a structure or building is converted from individual metering to master metering, or from master metering to individual metering, the customer shall be responsible for the costs incurred by the utility for the conversion. These costs shall include, but not be limited to, any remaining undepreciated cost of any existing distribution equipment which is removed or transferred to the ownership of the customer, plus the cost of removal or relocation of any distribution equipment, less the salvage value of any removed equipment.

(8) For purposes of this rule:

(a) “Occupancy unit” means that portion of any commercial establishment, single and multi-unit residential building, or trailer, mobile home or recreational vehicle park, or marina which is set apart from the rest of such facility by clearly determinable boundaries as described in the rental, lease, or ownership agreement for such unit.

(b) “Overnight Occupancy” means use of an occupancy unit for a short term such as per day or per week where permanent residency is not established.

(9)(a) Where individual metering is not required under subsection (5) and master metering is used in lieu thereof, reasonable apportionment methods, including sub-metering may be used by the customer of record or the owner of such facility solely for the purpose of allocating the cost of the electricity billed by the utility. The term “cost” as used herein means only those charges specifically authorized by the electric utility’s tariff, including but not limited to the customer, energy, demand, fuel, conservation, capacity and environmental charges made by the electric utility plus applicable taxes and fees to the customer of record responsible for the master meter payments. The term does not include late payment charges, returned check charges, the cost of the customer-owned distribution system behind the master meter, the customer of record’s cost of billing the individual units, and other such costs.

(b) Any fees or charges collected by a customer of record for electricity billed to the customer’s account by the utility, whether based on the use of sub-metering or any other allocation method, shall be determined in a manner which reimburses the customer of record for no more than the customer’s actual cost of electricity.

(c) Each utility shall develop a standard policy governing the provisions of sub-metering as provided for herein. Such policy shall be filed by each utility as part of its tariffs. The policy shall have uniform application and shall be nondiscriminatory.

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**Delivery Assurance -
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- (1) Conjunctive billing means totalizing metering, additive billing, plural meter billing, conjunctional metering, and all like or similar billing practices which seek to combine, for billing purposes, the separate consumptions and registered demands of two or more points of delivery serving a single customer.
- (2) A single point of delivery of electric service to a user of such service is defined as the single geographical point where a single class of electric service, as defined in a published rate tariff, is delivered from the facilities of the utility to the facilities of the customer.
- (3) **Conjunctive billing shall not be permitted.** Bills for two or more points of delivery to the same customer shall be calculated separately for each such point of delivery.
- (4) A customer operating a single integrated business* under one name in two or more buildings and/or energy consuming locations may request a single point of delivery and such request shall be complied with by the utility providing that:
 - (a) Such buildings or locations are situated on a single unit of property; or
 - (b) Such buildings or locations are situated on two or more units of property which are immediately adjoining, adjacent or contiguous; or
 - (c) Such buildings or locations are situated on two or more units of property, which are immediately adjoining, adjacent or contiguous except for intervening streets, alleys or highways.

In all cases arising in sub-paragraph (a), (b), or (c), it shall be the customer's responsibility to provide the electrical facilities necessary for distributing the energy beyond the single delivery point [or pay to FPL a monthly rental fee for FPL-owned facilities beyond the meter].

*The word "business" as used in this section shall be construed as including residences and educational, religious, governmental, commercial, and industrial operations.

H. Electrical Inspections and Connection of Service

When a Customer's electrical installation has been completed, it shall be inspected by the local electrical inspector to ensure compliance with the National Electrical Code and such local rules that may apply. FPL cannot energize new service installations until such inspection has been made, and until formal notice from the inspecting authority has been received by FPL.

I. Customer Responsibility for Safety and Adequacy of Wiring

Electric service is rendered to the Customer with the understanding that he will not use any appliance or device which is not properly constructed, controlled and protected, or that may adversely affect service rendered to him or other Customers. FPL shall reserve the right to discontinue or refuse service to any apparatus or device, which in its opinion, may adversely affect the service to any other Customer or utility or that may be of an improper or unsafe type (FAC 25-6.105), even if the inspection, as mentioned in paragraph "H" above, has been received by FPL. However, FPL assumes no responsibility whatsoever for any portion of the Customer's wiring installation, FPL depends upon the local inspecting authority to ensure the adequacy of the wiring on the customer's premise.

Compliance with the National Electrical Code, National Electrical Safety Code and local codes ensures that the installation conforms to recognized minimum safe practices. It is the responsibility of the Customer to comply with all Code requirements.



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The Customer shall decide whether additional capacity should be provided for future load growth. In general, FPL recommends that an adequate margin for load growth be provided.

J. Access to FPL Facilities

Access to the Customer's premise shall be provided for the purpose of reading meters, installing, maintaining, inspecting or removing FPL's property, and other purposes incident to performance under or termination of FPL's agreement with the Customer, and in such performance, FPL or its representatives shall not be liable for trespass.

All employees of FPL who may have business on the Customer's property are required to identify themselves as FPL employees upon request. If anyone representing himself as an employee of FPL cannot produce identification, FPL is to be notified at once.

K. Load Balance

To prevent overloading the service conductors and transformer coils, the Customer's electrical load shall be properly balanced on the service entrance conductors and service equipment.

On 120/240 volt, four wire delta services, the conductor identified as high voltage to ground, commonly known as the "high leg" or "power leg", shall only be used to feed into a three phase load circuit and shall not be used as a phase to ground conductor.

L. Customer Owned Generators

Customer owned generators should have the exhaust be a minimum of 15' away from all FPL equipment including all underground equipment and any openings to vaults.

1. Standby Generator

In some cases, the Customer may wish to provide an emergency 60 hertz generator to supply a portion, or all, of his electric service in the event of failure of FPL's service.

In such cases, the Customer shall provide a transfer device which meets the National Electrical Code and is listed and labeled by a Nationally Recognized Test Lab (NRTL), such as U.L., to a standard equal to U.L. 1008 Transfer Switch Equipment, or listed and labeled to one of the following;

- U.L. 67 Panel boards
- U.L. 98 Enclosed switches
- U.L. 891 Switchboards

AND, the device is also labeled as "Suitable for use as transfer equipment in accordance with article 702 of the NEC" or similar verbiage indicating that it can be used as transfer equipment. Note: the second label, referring to the using the device as transfer equipment, will not have a U.L. mark on the label, but still meets U.L. by the existence of the first label. This switch shall be provided by the customer and shall disconnect the Customer's service equipment from FPL's lines before connecting it to the emergency generator.

Batteries intended for backup support should also adhere to the guidelines specified in ESS Distributed Generation XIII – Section C

2. Parallel Generation and Cogeneration

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FPL approval is required where the Customer is considering the use of Cogeneration (the simultaneous production in one facility of electricity and other useful forms of energy such as steam or heat) or small power producer generation (i.e., those using renewable resource fuel sources) if it is to connect to FPL's system. Consult with FPL for further details.

Customers considering the installation of generating equipment intended to supply a portion or all of their electric service, shall consult with FPL regarding the design, installation and the operation of this generating equipment. Momentary parallel generation is limited to 100ms maximum. Generation other than cogeneration and small power producers shall not operate in parallel with FPL's systems without proper protective equipment for the interconnection as outlined by FPL. The Customer's system design shall be submitted for review and approval by FPL before any connection is made. The Customer is responsible for the full cost of any modifications to FPL's facilities necessary to accommodate the Customer's system.

Caution: FPL shall be consulted before any type of generating or communications equipment is installed and connected to any circuit which is or could be fed from FPL's distribution system.

M. Unauthorized Attachments

FPL prohibits any attachments to its poles or other equipment unless specifically authorized by agreement. Such attachments include, but are not limited to fences, banners, signs, clotheslines, basketball backboards, antennas, placards, political posters or any advertising matter. FPL prohibits attachments to electricity meters such as power monitoring devices, shielding to prevent RF communication, and locking devices to prevent utility access. FPL will remove unauthorized attachments without notice. Meter sockets and Customer's electric service risers are not to be attached to FPL poles, except where permitted by FPL.

Customer owned secondary capacitors, surge arresters, **90 degree meter socket adaptors** or photovoltaic system interconnects may not be installed inside or outside the meter socket or connected to FPL's conductors. It is suggested these devices be installed in, or adjacent to, the customer's disconnect panel(s) on the load side of the main line switch. Meter socket base bypass switches, such as generator interconnection devices, may not be installed inside or outside the meter socket, refer to section "L" above for generator connection requirements. Also, external grounding bars and other devices are not allowed to be attached to the outside of the meter enclosure.

FPL forbids any work on or access to any of its facilities without authorization.

N. Continuity of Service

FPL strives to furnish reliable, dependable service at a reasonable cost. It cannot guarantee service continuity, however, and provides service in accordance with standards set forth in its Electric Tariff. Some Customers may have equipment which cannot tolerate an occasional interruption. They may wish to invest in a standby system which will supply uninterrupted power upon failure of FPL's service, or when transient interruptions occur. Some computer based systems are sensitive to short voltage spikes or dips on the normal 60 hertz voltage wave. Very short interruptions caused by a fast opening and closing of an FPL circuit breaker may also affect these systems. These transients are unavoidable on a distribution system serving many and varied customer loads and subject to the natural elements. The Customer should consider these conditions as part of his electric service environment. He should choose equipment which can operate satisfactorily in this environment or purchase suitable power conditioning equipment such as an uninterruptible power supply.

O. Conservation Programs



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FPL offers conservation incentive programs to help customers reduce energy costs. While helping customers manage electricity more efficiently, FPL reduces the purchase of expensive fuel oil and delays power plant construction, thus reducing costs. Customers can obtain conservation incentive information by calling the phone number listed on their electric bill.

P. Contacting FPL

FPL Customer Service may be contacted 24 hours a day by calling the number on the bottom of your bill or the number in your local phone book. Contact regarding new construction and changes in service requirements (service changes) should be directed to your local FPL Construction Service Planning Office which is open during normal business hours. The following pages list FPL's Construction Service Planning Offices and the approximate areas they serve.

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**Delivery Assurance -
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(BROWARD AND DADE COUNTIES)**

North Broward Construction Services
Pompano Service Center
330 S.W. 12th Avenue
Pompano Beach, FL 33069
(954) 956-2014 Fax: (954) 956-2020

North of Commercial Blvd to the Palm Beach County
Line

Central Broward Construction Services
Wingate Service Center
3020 N.W. 19th Street
Fort Lauderdale, FL 33111
(954) 717-2072 Fax: (954) 717-2118
(954) 717-2093 – Disco/Reco Only

East of the Turnpike: south of Commercial Blvd &
north of Griffin Road; **East of I-95:** to Intracoastal
Waterway between Dania Cutoff Canal to Griffin Rd;
West of the Turnpike: south of Commercial Blvd &
north of I-595

South Broward Construction Services
Gulfstream Service Center
4000 Davie Road Extension
Hollywood, FL 33024
(954) 442-6352 Fax: (954) 442-6340

East of Turnpike: south of Griffin Rd to the Dade
County Line less section between I-95 and
Intracoastal, Dania Cut-Off Canal to Griffin Rd;
West of Turnpike: south of I-595 to the Dade
County Line

North Dade Construction Services
North Dade Service Center
5106 N.W. 159 Street
Miami Lakes, FL 33014
(305) 626-7600 Fax: (305) 626-7600

West of I-75, from 215th St to 135th St west of NW
27th Ave & from 215th St to 79th St east of NW 27th
Ave to the intracoastal water way. Including Carol
City, Golden Beach, Sunny Isles, Aventura, North
Miami, North Miami Beach, Opa-Locka, Miami
Lakes, Miami Shores, El Portal & Biscayne Park

West Dade Construction Services
West Dade Service Center
6195 NW 82nd Avenue
Miami, FL 33166
(305) 599-4000 Fax: (305) 599-4014

The area bounded by SW 40th St. (Bird Rd) from
Florida's Turnpike to SW 57th Ave, north to 8th St
(Calle Ocho) from the west to Douglas Rd (NW 37th
Ave), north along Lejuene (NW 42nd Ave) to NW
36th St from the west to SE 8th Ave, north to NW
135th St (Gratigny Pkwy) the I-75 to NW 27th Ave,
north to Broward County line from the west to I-75

Central Dade Construction Services
Central Service Center
122 SW 3rd Street
Miami, FL 33130
(305) 377-6001 Fax: (305) 377-6010

The area bounded by East of SW 57th Ave between
SW 72nd ST and SW 8th ST; East of 37th Ave,
between SW 8th St and NW 36th St; East of NW
27th Ave between NW 36th St and NW 79th St;
including Key Biscayne, Miami Beach, North Bay
Village, and Surfside/Bal Harbor up to 132nd St

South Dade Construction Services
Richmond Service Center
14250 SW 112th Street
Miami, FL 33186
(305) 387-6650 Fax: (305) 387-6651

West of SW 117th AVE and South of Coral Way
(SW 26th ST)
Between SW 117th AVE and SW 57th AVE – South
of Bird Road (SW 40TH ST)
East of SW 57th AVE and South of Sunset DR (SW
72nd ST)



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WEST COAST (WEST OF LAKE OKEECHOBEE FROM MANATEE COUNTY SOUTH)

Manatee County

Manasota Construction Services
Whitfield Service Center
1253 12th Ave E
Palmetto, FL 34221
(941) 927-4278 Fax: (941) 723-4444

Manasota Construction Services
Clark Service Center
5657 McIntosh Road
Sarasota, FL 34233
(941) 927-4251 Fax: (941) 927-4266

Toledo Blade Construction Services
Toledo Blade Service Center
2245 Murphy Court
North Port, FL 34286
(941) 423-4851 Fax: (941) 423-4839

Naples Construction Services
Gladiolus Service Center
15834 Winkler Road
Fort Myers, FL 33908
(239) 353-6090 Fax: (239) 415-1350

Naples Construction Services
Golden Gate Service Center
4105 15th Avenue SW
Naples, FL 34116
(239) 353-6010 Fax: (239) 353-6092

Sarasota County, South to Alligator Creek in Venice

South of Alligator Creek in Venice, Boca Grande, Englewood, Gulf Cove, Placida, and Rotonda, El Jobean, North Port, Port Charlotte, Warm Mineral Springs, Arcadia, Deep Creek, Harbor Heights, Lehigh, Labelle, and Punta Gorda, Babcock Ranch

Lee County

North of Colonial Blvd, east to I-75 then south to Daniels Rd along East side of I-75.

North side of Daniels Rd through a portion of Lehigh Acres and Buckingham. SR 80 from the Lee County line to Oxbow at Port Labelle and SR 29 from SR 78 to Keri Road, plus in Glades County, CR 731 to CR 720 to Muse and then along CR 720 to the Charlotte County line and SR 29 to SR 78 and then along SR 78 to Old Moorehaven Road.

Lee County

In Ft. Myers, from South side of Colonial Blvd to North Side of Corkscrew Rd.

Lee and Collier Counties

From South of Corkscrew Road to North of the Marco Island Bridge

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**Delivery Assurance -
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(NORTH OF BROWARD/PALM BEACH COUNTY LINE)**

North Florida Construction Services
Nassau Service Center
56905 Griffin Road
Callahan, FL 32011
1-800-462-0561 Fax: 1-800-631-2996

Callahan, Fernandina Beach, Hilliard and Yulee;
Nassau County

North Florida Construction Services
Lake City Service Center
2618 NE Bascom Norris Dr
Lake City, FL 32055
1-800-462-0561 Fax: 1-800-631-2996

Houston, Lake City, Live Oak, Olustee, and
Wellborn;
Columbia and Suwannee County

North Florida Construction Services
Starke Service Center
351 Colley Road
Starke, FL 32091
1-800-462-0561 Fax: 1-800-631-2996

Bryceville, Hampton, Kingsley Lake, Lake Butler,
Lawtey, Macclenny, Penney Farms, Raiford,
Sanderson, Starke, and Waldo;
Baker, Bradford, Clay and Union Counties

North Florida Construction Services
St. Augustine Service Center
303 Hastings Road
St. Augustine, FL 32084
1-800-345-2503 or (904) 824-7615
Fax: (904) 824-7620

St. Johns County south of CR 210, south of
Guana State Park on A1A, plus small portions of
Northern Flagler County

North Florida Construction Services
Palatka Service Center
2900 Catherine Street
Palatka, FL 32177
1-800-345-2503 or (904) 824-7615
Fax: (904) 824-7620

Town of Hawthorne, Putnam County, a portion
of St. Johns County and a small portion of
Flagler County

Central Florida Construction Services
Flagler Service Center
5910 East Highway 100
Palm Coast, FL 32164
(386) 322-3420 Fax: (386) 586-6444

Flagler County and Volusia County north of SR
40

Central Florida Construction Services
Port Orange Service Center
3000 Spruce Creek Road
Port Orange, FL 32119
(386) 322-3420 or 3428 Fax: (386) 322-3444

Daytona Bch, Daytona Bch Shores, Edgewater,
Holly Hill, Oak Hill, Ormond Beach south of SR
40, Port Orange, S. Daytona, Volusia County
area around New Smyrna Beach

Central Construction Services
Sanford Service Center
2626 West S.R. 46
P.O. Box 2149
Sanford, FL 32772
1-800-741-1424 Fax: (407) 328-1910

Chuluota, Geneva, Sanford Area and small
portions of Deltona, Heathrow, Lake Mary and
Oviedo



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Brevard Construction Services
Brevard Service Center
9001 Ellis Road
Melbourne, FL 32904-1056
(321) 726-4801 or (800) 577-1156
Fax: (321) 726-4880

Brevard County

Treasure Coast Construction Services
Walton Service Center
1050 S.E. Brandon Circle
Port St. Lucie, FL 34952
(772) 337-7049 or (800) 343-7941
Fax: (772) 337-7099

Midway road (St. Lucie County) south to
Roosevelt bridge in Stuart, includes Port St.
Lucie, Jensen Beach and Hutchinson Island
from Jensen Causeway to St. Lucie Power Plant

Treasure Coast Construction Services
Okeechobee Service Center
825 N.E. 34 Avenue
Okeechobee, FL 34972
(772) 337-7049 or (800) 343-7941
Fax: (863) 467-3716

Okeechobee, Indiantown west of Martin Power
Plant, Port Mayaca west of the bridge,
Whispering Pines, Fort Drum, Brighton
Reservation, Buckhead Ridge, portions of
Glades and Highlands counties

Treasure Coast Construction Services
St. Lucie Service Center
3301 Orange Avenue
Fort Pierce, FL 34947
(772) 337-7049 or (800) 343-7941
Fax: (772) 489-6224

Indian County Line south to Midway Road, Fort
Pierce (St. Lucie County), includes Sebastian,
Fellsmere, Wabasso, Vero Beach, and Fort
Pierce

Treasure Coast Construction Services
Stuart Service Center
4406 SW Cargo Way
Palm City, FL 34990
(772) 337-7049 or (800) 343-7941
Fax: (772) 223-4221

South of Roosevelt Bridge in Stuart to Jonathon
Dickinson State Park in Hobe Sound, Palm City,
Jupiter Island, Indiantown east of Martin Power
Plant, Port Mayaca east of the bridge, and
Hutchinson Island south of Jensen Causeway

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(NORTH OF BROWARD/PALM BEACH COUNTY LINE)**

West Palm Beach Construction Services
Jupiter Service Center
100 Delaware Avenue
Jupiter, FL 33458
(561) 575-6340 Fax: (561) 575-6333

North of Blue Heron Blvd and north of Beeline
Hwy to the Martin County Line

West Palm Beach Construction Services
West Palm Beach Service Center
810 Charlotte Avenue
West Palm Beach, FL 33401
(561) 616-1601 or 1602 Fax: (561) 616-1625

Lake Worth Road north to Blue Heron Blvd, east
of Florida's Turnpike in West Palm Beach

West Palm Beach Construction Services
Royal Palm Beach Service Center
500 Business Park Way
Royal Palm Beach, FL 33411
(561) 616-1601 Fax: (561) 790-5075

South of Beeline Hwy, west of Florida's
Turnpike, north of Lake Worth and Lantana
Roads and east of the L-8 and L-40 Canals

Boca Raton Construction Services
Boynton Service Center
9329 South Military Trail
Boynton Beach, FL 33436
(561) 742-2000 Fax: (561) 742-2016

Lake Worth Road south to the north side of
Atlantic Avenue

Boca Raton Construction Services
Boca Raton Service Center
21400 Powerline Rd
Boca Raton, FL 33433
(561) 479-4553 Fax: (561) 479-4588

Atlantic Avenue south to the Broward County
Line

Boca Raton Construction Services
Belle Glade Service Center
1318 W. Avenue A
Belle Glade, FL 33430
(561) 992-5907 Fax: (561) 992-5915

From the Martin County line south to the
Broward County line and from the Industrial
canal (just east of Clewiston) west to the 20 mile
bend on State Road 80



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FPL NORTHWEST (WEST OF GULF/CALHOUN COUNTY, INCLUDING JACKSON COUNTY)

Pensacola Construction Services
Pine Forest Service Center
9220 Pine Forest Rd
Pensacola, FL 32534
(850) 429-2600

Escambia County South of McDavid

Pensacola Construction Services
Milton Service Center
5120 Whiting Field Blvd
Milton, FL 32570
(850) 429-5482

Santa Rosa County North of Yellow River, South
of Allentown, and West of Harold

Pensacola Construction Services
Gulf Breeze Service Center
3090 Hwy 98 East
Gulf Breeze, FL 32561
(850) 505-5482

Santa Rosa County South of Yellow River, West
of Fox Den Dr

Fort Walton Construction Services
Crestview Service Center
1655 South Fredon Blvd
Crestview, FL 32536
(850) 689-4627

North Okaloosa and Walton County.
Highway 85 North of Duke Field to Old Bethel
Rd and from Crestview east to Defuniak Springs
and Ponce de Leon

Fort Walton Construction Services
Destin Service Center
34854 Emerald Coast Pkwy
Destin, FL 32541
(850) 244-4763

From Marler Bridge in Okaloosa County to W
Hewitt Rd in Walton County

Fort Walton Construction Services
Fort Walton Beach Service Center
140 Hollywood Blvd SW
Fort Walton Beach, FL 32549
(850) 244-4780

East from Fox Den Drive in Navarre (Santa
Rosa County) to Okaloosa Island in Okaloosa
County and South of Lewis Turner Blvd and
Eglin Air Force Base

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(WEST OF GULF/CALHOUN COUNTY, INCLUDING JACKSON COUNTY)**

Fort Walton Construction Services
Niceville Service Center
1057 E John Sims Pkwy
Niceville, FL 32578
(850) 244-4743

From VPS Airport east to Niceville and North of
Rocky Bayou Bridge on SR 20

Panama City Construction Services
Panama City Service Center
1230 East 15th St
Panama City, FL 32405
(850) 872-3212

Cities of Panama City, Lynn Haven, Springfield,
Parker, Callaway and other unincorporated
areas of Bay county; south of Pamela Ln on
Hwy 231, west of CR 43 on Hwy 22 and Tyndall
Air Force Base on Hwy 98.

Panama City Construction Services
Panama City Beach Service Center
12425 Middle Beach Rd
Panama City, FL 32407
(850) 505-5482

West of Hathaway Bridge on Hwy 98 and Point
Washington Wma on Hwy 388; east of Serenoa
Rd on Hwy 98, Brenda Ln on Hwy 30A and
Sunbelt Dr on Steelfield Rd and south of Vinson
Rd on Hwy 79.

Panama City Construction Services
Chipley Service Center
1195 Jackson Avenue
Chipley, FL 32536
(850) 638-0270

Municipalities in Holmes, Jackson and
Washington Counties as well as other
unincorporated areas of these counties including
Chipley, Bonifay, Vernon, Graceville, Carryville.



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III. SERVICE PROVISIONS

A. Standard Service

FPL's standard service is that supplied by overhead lines, with wood poles, to FPL's designated point of delivery, at the standard voltages specified below. All service is alternating current at 60 hertz (60 cycles per second). All voltages and frequencies mentioned are nominal values.

Single phase, three wire 120/240 volt service is furnished for ordinary lighting loads, household equipment, small appliances, and motors. This voltage is standard throughout FPL's service area for residences and for commercial and industrial applications where three phase service is not required, in the opinion of FPL, or available. Three phase service will be provided where available, or where in the opinion of FPL, the use of single phase is impractical. This, as with all service, is subject to the line extension provisions of [section III.C](#). Devices to convert single phase to three phase can be obtained for a wide range of three phase motors, therefore availability of three phase service for smaller motors should be discussed in advance with FPL. A neutral conductor shall be provided for all services. For all loads, said neutral conductor shall be sized per NEC requirements.

Voltages Under 600V - In most locations, FPL's overhead secondary distribution system provides service at the following standard voltages:

- Single phase, 120 volt, two wire
- Single phase, 480 volt, two wire (Maintenance only)
- Single phase, 120/240 volt, three wire
- Single phase, 240/480 volt, three wire (street lighting only)

In some locations, FPL's system is able to provide service at the following voltages:

- Three phase, 120/240 volt, four-wire open delta
- Three phase, 120/208 volt, four wire wye
- Single phase, 120/208 volt, three wire (from a three phase, four wire wye system)
- Three phase, 277/480 volt, four wire wye

120/240 volt, four-wire open delta is determined by FPL to be the standard 3 phase voltage for loads in which individual motor sizes are greater than or equal to 7.5 hp (but not exceeding 20 hp), or, the 3 phase "demand" load does not exceed 75 KVA, or, the "total" demand load does not exceed 150 KVA, **and** the use of single phase, in the opinion of FPL, is impractical. When the Customer desires three phase, 120/208 or 277/480 wye volt will be considered the standard voltage only where, in the opinion of FPL, three phase service is required, **and** 120/240 volt open delta service is not, in the opinion of FPL, the standard voltage for the load being served, unless otherwise mutually advantageous to both FPL and the Customer.

Voltages Over 600V - Service requirements for installations requiring higher distribution voltages (primary voltages) are subject to special negotiation between the Customer and FPL. Customers accepting primary voltage will provide, through ownership or rental, all distribution facilities required beyond the metered point, and, all facilities required for reducing or increasing the FPL supplied voltage to any other voltage which he may require.

If the customer will be leasing transformers from FPL for use beyond the metered point, in addition to the voltages under 600V listed above, the following voltages over 600V may be available:

FPL

- | | | |
|------------------------------------|---|--|
| - Single phase, 7620/13,200 volt | - | Three phase, 7620/13,200 volt grounded wye |
| - Single phase, 13,200/22,860 volt | - | Three phase, 13,200/22,860 volt grounded wye |

FPL NW

- | | | |
|------------------------------------|---|--|
| - Single phase, 7200/12,470 volt | - | Three phase, 7200/12,470 volt grounded wye |
| - Single phase, 14,400/24,900 volt | - | Three phase, 14,400/24,900 volt grounded wye |



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Typically, where the customer requests service considered by FPL to be non-standard for the load being served, the Customer will bear the additional expense as a CIAC.

B. Point of Delivery

The point of delivery is defined as that location where FPL's electric facilities connect to those of the Customer's. FPL will give considerable weight to the Customer's preference, but shall reserve the right to designate this location. Should the Customer request a location other than that designated by FPL, and FPL approves, the Customer shall be responsible for all additional costs to extend beyond FPL's designated point.

C. Extension of FPL's Electric Facilities

1. General - Amounts due as Contributions In Aid of Construction (CIAC) from customers who require extensions or "upgrades" of distribution facilities are calculated in accordance with Florida Administrative Code (FAC) Section 25-6.064 and FPL's Tariff (General Rules and Regulations paragraph 2.2).

2. Overhead Extensions - FPL extends or upgrades its overhead facilities at no charge if:

- a. the facilities being built are for standard service for the load being served, **and**
- b. FPL's expenditure is supported by the Estimated Annual base rate Revenue (EAR)
- c. All overhead facilities require a 15' easement

Other factors that may affect the approval of the extension include:

- The potential of other customers to be served from the same extension or addition within a five year period
- The permanency of the installation being served
- The expected completion date of the project
- The need to improve facilities at or near the area to be served such that the line extension can be installed
- Issuance of a construction permit
- Examination of architectural plans

A nonrefundable Contribution in Aid of Construction (CIAC) will be required for any overhead extension where the total estimated job cost for the extension or upgrade (excluding service drops and meters) required to provide **standard service**, as determined by FPL, exceeds four (4) times the estimated annual incremental base rate revenue (EAR). This CIAC amount is equal to the difference between that estimated total job cost (excluding service drops and meters) and four (4) times the EAR. For upgrade of facilities, the customer is also charged for the Net Book Value of the existing facilities removed and receives a credit for salvageable items. If the customer requests facilities that are not typically required, in the opinion of FPL, to serve the load, a CIAC in addition to the above difference will also be required. This **additional** amount is equal to the difference (including service drops and meters) between FPL's estimated cost to provide the standard service and the estimated cost of the non-standard service requested by the Customer.

3. Underground Extensions - Where, in FPL's opinion, overhead distribution facilities are typically provided to serve the load for which service is requested, but underground is provided instead (due to Customer request or the requirement of a governmental agency), a CIAC is required which is equal to the difference between the total estimated cost to provide



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the overhead **standard** service and the total estimated cost of the underground. This differential cost includes all service drops and meters.

Furthermore, if the cost of the overhead system for standard service could not have been supported by estimated incremental base rate revenue, the Customer would pay an **additional** CIAC amount equal to the difference between that total estimated job cost (excluding service drops and meters) and four (4) times the EAR.

D. Residential Service (under 600v)

A single, one phase, 120/240 volt, three wire overhead service drop per lot is the standard service offered by FPL to residential customers. Excluding any extension charges that might apply ([section III.C.2](#)) this service is offered at no charge to FPL's designated point of delivery. Three phase service may be available but only under special circumstances and CIAC charges might apply.

FPL will provide residential underground electric service upon request when the Customer or developer pays the difference between the estimated cost of underground and the estimated cost of overhead facilities, as defined in FPL's General Rules and Regulations for Electric Service and Underground Residential Tariff. The charges quoted in the Tariff are based on conditions which permit employment of rapid construction techniques. This Tariff applies to all residential customers, including those where underground is required by local ordinance. FPL will determine the route for all FPL owned and maintained service laterals. If an additional service is requested and deemed necessary by FPL to serve a single lot the customer will be responsible for the full cost of the second service drop. For multiplex residences up to four dwelling units on a parcel a single FPL service is the standard. Contact FPL before purchasing and installing service equipment. Your equipment arrangement may not be allowed.

Underground residential service is offered under the provisions of the Residential Tariff for:

- New subdivisions, known as URD (Underground Residential Distribution) Subdivisions
- New underground service laterals from overhead systems
- Replacement of existing overhead and underground service laterals
- New multiple occupancy residential buildings

1. Underground Service for New Residential Subdivisions (Less than 5 units per building)

When requested, FPL will provide underground distribution facilities in accordance with its standard practices, in (a) recognized new residential subdivisions of five or more building lots and (b) tracts of land upon where five or more separate dwelling units are to be located.

Developers of new URD subdivisions are to contact FPL before the platting process so easements can be included in the plat. Survey work associated with producing legal descriptions of such easements for FPL facilities is to be completed by the developer's surveyor where needed. Early notice also enables FPL to design an efficient URD system and consider preferences the developer may have concerning the location of FPL facilities.

FPL will normally provide the trench and backfill for all its underground distribution facilities, including service laterals. The Customer will provide and install the service entrance conduit (downpipe), the meter socket, and the wiring from the meter socket to the service entrance equipment ([Fig. IV-11a,b](#)). If the Customer wants to trench, backfill, and install the FPL provided conduit, and FPL agrees, a credit will be applied towards the contribution amount, up to the amount of the charges that are due.



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The charges for underground service are based upon arrangements that will permit serving the subdivision's underground distribution system from overhead feeder mains. If feeder mains are deemed necessary by FPL to provide and/or maintain adequate service and are required to be installed underground by the Applicant or a governmental agency, the Applicant shall pay FPL the difference between the cost of such underground feeder mains and the cost of equivalent overhead feeder mains.

Tariff charges for underground service to new residential subdivisions are based on timely and reasonably full use of the land being developed. Where FPL is required to construct underground facilities through a section or sections of the development where full use of facilities, as determined by FPL, may not be realized for at least two years, FPL may require a deposit before construction commences. This deposit, to guarantee performance, will be based on the estimated **total** cost of such facilities. The amount of the deposit, without interest, in excess of any differential charges for underground service will be returned to the applicant on a pro rata basis at quarterly intervals on the basis of utilization. Any portion remaining un-refunded after five years from the date FPL is first ready to render service from the extension will be retained by FPL.

2. Underground Service from an Overhead System to New Residential Buildings (Less than 5 units per building)

FPL will normally provide the trench and backfill, and provide and install the PVC conduit and service lateral conductors. The Customer will provide and install the service entrance conduit (downpipe), provide and install the meter socket and the wiring from the meter socket to the service entrance equipment (**Fig. IV-11a,b**). If the Customer requests to trench and backfill, and install the FPL provided conduit, and FPL agrees, a credit will be applied towards the CIAC amount, up to the amount of the charges that are due. FPL will not provide service lateral conductors if the PVC conduit is not provided by FPL. Customer owned cable cannot be pulled through FPL provided conduit.

If the customer prefers to install, own, and maintain the underground service lateral, FPL will install a handhole at the base of the pole, at the charge specified in the tariff. Customer risers are not permitted to be attached to FPL or telephone company poles.

3. Replacement of Existing Overhead and Underground Residential Service Laterals

If a residential customer wishes to replace an existing FPL overhead service drop with an underground service lateral, or to relocate an existing FPL underground service lateral, or to replace a customer owned underground service lateral, FPL will provide the underground service lateral according to the terms, provisions, and charges specified in the tariff. Please be advised that by voluntarily electing to convert the service from overhead to underground, the customer/applicant agrees they are responsible for payment of all applicable charges as set forth in Section 10.5 of the General Rules and Regulations of FPL's Tariff on file with the Florida Public Service Commission, as may be amended from time to time. These payments are non-refundable and no future credit or discount will be available if any portion of the remaining electric facilities in and around the project area are later converted from overhead to underground as part of a separate future project. Before electing to voluntarily convert the service from overhead to underground, please contact your local FPL representative to confirm whether there are any plans in the near future to underground the facilities in your area.



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The Customer shall provide the trench and backfill, install the FPL provided PVC, and provide all restoration. The trench shall be deep enough to provide 24" of cover (36" maximum) over FPL's service lateral. Prior to backfilling trench FPL must verify the depth. The customer shall also provide and install the downpipe from the meter socket, replace the meter socket if necessary, and perform all rework necessary to accommodate the new service lateral (**Fig. IV-11a,b**). If requested by the Customer, and FPL approves, FPL may provide the trench and backfill and install the conduit, but the Customer shall pay for this work based on a specific cost estimate. In either case, FPL will provide, install, and connect the service lateral cable from the secondary source to the meter socket.

4. Mobile Home and Recreational Vehicle (RV) Parks

Individual electric metering by the utility is required for each separate occupancy unit (where the intent is to establish permanent residency) in trailer, mobile home and recreational vehicle (RV) parks for which construction was commenced after January 1, 1981.

FPL will supply service to these individual units provided the service entrances are properly wired and grounded in accordance with the National Electrical Code and local building codes, and the wiring is approved by the local inspector.

Overhead service typically requires no CIAC provided the estimated revenue supports the estimated cost of any extension that might be required (**section III.C**). Underground service requires CIAC in accordance with FPL's Tariff.

FPL's overhead service drop or buried service lateral may not terminate directly on a mobile home or recreational vehicle, but shall run to a pole or pedestal mounted service entrance provided by the Customer. The customer's service equipment is to be mounted on the load side of the meter socket. The wiring from the pole or pedestal to the Mobile Home or RV is also provided and installed by the customer.

For overhead service, a treated pole or equivalent shall be furnished to provide adequate support and elevation for FPL's service drop. Overhead service drops shall have 16 feet of clearance crossing over areas subject to mobile home or recreational vehicle movement. Other clearances are specified in **section IV.B** and **Fig. IV-5**.

If service is underground, an approved pedestal shall be furnished to support and protect FPL's cable and meter (**Fig. IV-13a,b,c**). If the Customer wishes to furnish and use a pedestal which combines the service equipment and the meter socket, he may do so only if he uses equipment on FPL's approved list. It shall be the Customer's responsibility to obtain authorization from FPL before any commitments are made to use this equipment at a particular location. There will be no charge to FPL.

Where individual electric metering is required, it is often advantageous for the Customer to group multiple meter sockets and service equipment on a single pole or pedestal (**Fig. IV-13c**). Where overhead service is provided, this is aesthetically advantageous in that the number of aerial service drops is minimized. Where underground service is provided, this reduces the CIAC amount required by FPL.

For all pedestals located in FEMA zones "A" and below base flood elevation level specifications in Fig. IV-13 d,e,f must be followed.



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In those parks or areas of parks designated for overnight occupancy (where the intended use is not for purposes of permanent residency), individual electric metering is not required, nor provided by FPL. In these cases, electric consumption is considered commercial use, and FPL will provide a single point of service (or multiple points if deemed necessary or appropriate by FPL) with each point individually metered. Electric wiring from these points to the individual units is the responsibility of the Customer.

5. Multiple Occupancy Buildings (5 Units or more per building)

For new residential multiple occupancy buildings (five or more dwelling units), the Customer may request underground service. FPL will provide underground facilities at or near the building at no cost to the Customer provided FPL is allowed to build its distribution facilities in the most economic and efficient manner. If FPL determines a padmounted transformer is necessary, the transformer will be the point of delivery, to which point the Customer will install (and FPL will connect) his cables. The customer will furnish the transformer pad location per FPL pad specifications ([section V.A](#)). The location will typically lie between FPL's source of power and the portion of the building closest to the available source.

Should a point of delivery not preferred by FPL be desired by the Customer, a CIAC will be required to cover any additional cost that might be incurred. Should the Customer provide the suitable location but FPL elects to place its transformer equipment elsewhere, FPL may elect to install its buried secondary conductors to an FPL owned handhole. In this case, the handhole would be the point of delivery.

The Customer shall extend his building service to FPL's designated point of delivery regardless of the distance from Customer's switchgear.

When feeder mains on tracts of land upon which multiple occupancy buildings will be constructed are deemed necessary by FPL to provide and/or maintain adequate service, and underground installation is requested by the Customer or required by a governmental agency, the Customer shall contribute the difference between the cost of underground and the cost of overhead feeder mains. There will typically be no contribution required from the Customer with respect to construction of underground distribution facilities to multiple occupancy dwellings other than feeder mains as long as FPL is free to construct such extensions in the most economic manner, and reasonable full use is made of the tract of land upon which the multiple-occupancy residential buildings will be constructed. Other conditions may require special considerations or arrangements.

6. High-Rise Buildings (Residential, Commercial, or Mixed Use)

General - Standard service to high rise buildings is from a single main vault provided by the Customer, at ground level. If solid bus is used to carry power from the vault to the meter rooms, the bus from the main vault to the meter rooms must be "feeder bus" or "riser bus". "Plug bus" is not allowed prior to the meter centers due to possible current diversion. The Customer may request that FPL extend primary service vertically to single phase transformer vaults located at intervals in the building. This "stacked" vault option is available only if certain criteria are met, FPL agrees, and local codes and inspecting authorities allow this type of construction.

Economic considerations to FPL and the Customer are key factors in deciding whether to use stacked vaults. If stacked vaults are requested, and FPL approves, the Customer will be required to contribute the differential cost. That cost is the difference between the estimated cost of a single main vault and the estimated cost of the multiple vaults.

Criteria for Single Main Vaults:



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The load must exceed the following capability or CIAC will apply:

- 1000 KVA for 120/208V loop or radial type padmounted transformers
- 1000 KVA for 277/480V loop type padmounted transformers
- 2500 KVA for 277/480V radial type padmounted transformers

Criteria for Stacked Vaults:

- The units shall be metered according to the requirements set forth in Florida Administrative Code 25-6.049
- Single phase vaults shall be 120/240V and the capacity of the vault shall not exceed 167 KVA
- All switching equipment and/or throwover equipment shall be located in the ground floor main vault
- All critical loads shall be served from the ground floor main vault
- At least 6 stacked vaults shall be required, as determined by FPL, to serve the load
- The Customer shall adhere strictly to FPL's specifications concerning vault and duct construction ([section V.C](#))

The Main Vault - The same specifications that apply to any other grade level vault apply also to the main vault of a high-rise, stacked vault distribution system ([section V.B](#)). FPL will furnish separate specifications for the main vault.

Agreement to Proceed - The Customer shall secure agreement from FPL on the use of stacked vaults in the early design stages. When this agreement has been reached, the vaults should be physically located near the center of the load they will serve. Single phase vaults will be spaced 3 floors apart (i.e. – floor 3, 6, 9, 12, etc.) serving the floor containing the vault and the floors immediately below and above the vault.

The Customer shall obtain engineering information from FPL as to how much space will be needed for FPL's electrical equipment. The Customer should obtain FPL's detailed vault specifications before completion of the design stage.

E. Commercial Service (under 600v)

For commercial Customers whose load is such that, if located in an overhead area it could be served by one (or bank of) single phase aerial transformer(s) rated 100 kVA or less (as determined by FPL), standard service is considered by FPL to be overhead (with wood poles), at the standard voltages specified in [section III.A](#), to the FPL designated point of delivery.

Commercial Underground Service

For loads where overhead service is considered standard by FPL, and underground service is either requested by the customer or required by local governmental agency, a CIAC equal to the difference between the estimated cost of underground and the estimated cost of overhead will be required. These differential charges are specified in FPL's Underground Commercial Distribution Tariff, **providing the service requested is at the standard voltage, in the opinion of FPL, for the load being served.** Special situations or requests for non-standard voltage may require specific cost estimates. Where EAR does not support the estimated cost of an FPL line extension, additional CIAC will be required ([section III.C](#)).

a. Underground Service to Small Commercial Loads

In overhead areas where the meter socket is located at least 5 feet but not more than 100 feet from the utility pole, and where the Customer's main line switch is no more than 60 Amps for a two-wire 120 volt or 125 Amps for a three-wire 120/240 volt service, FPL will install the



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underground service to the meter socket if the Customer prefers (typically, this is the only situation FPL will install underground service conductor to a commercial Customer's meter socket, unless otherwise mutually advantageous to both the Customer and FPL). A CIAC is required. The Customer provides the trench and backfill (24" minimum cover); the 2" PVC conduit from the meter socket (see [Fig. IV-11a,b](#)) to the base of the pole (24" radius 90° 2" PVC bend at base of pole); all restoration, easements and permits.

Otherwise, the customer can install his underground service conductors to an FPL handhole at the base of the pole (where FPL will connect its conductors to the Customer's), where CIAC also applies; or, the customer can elect to receive overhead service. **Customer owned risers for commercial electric service are not permitted on FPL or Telephone Company poles.**

Where FPL's secondary source is "underground" (i.e. vault, padmounted transformer, or handhole), the customer provides and installs the service conductors, and FPL connects those conductors at that secondary source. If that underground secondary source was existing before the request for service, no CIAC would typically be required.

b. Underground Service to Moderate Commercial Loads

In overhead areas where, in the opinion of FPL, the load is such that secondary voltage can be provided at an overhead source, FPL will provide secondary conductors to a handhole at the base of the pole where FPL will connect to the Customer's underground conductors. If a transformer (or transformers) must be hung to make this secondary voltage available, FPL will consider installing underground primary cable to a padmounted transformer, where FPL will connect to the Customer's underground conductors. In either case, CIAC applies.

If either of these options is not desirable, the customer can elect to receive overhead service. **Customer owned risers for commercial electric service are not permitted on FPL or Telephone Company poles.**

Where FPL's secondary source is "underground" (i.e. vault, padmounted transformer, or handhole), the customer provides and installs the service conductors, and FPL connects those conductors at the secondary source. If that underground secondary source was existing before the request for service, no CIAC would typically be required.

c. Underground Service to Large Commercial Loads

If the load is such that, if located in an overhead area it could **not** be served by one (or bank of) single phase aerial transformer(s) rated 100 kVA or less, in the opinion of FPL, FPL's standard service then would consist of underground primary cables (from an overhead source determined by FPL) to a radial padmounted transformer. CIAC would typically not be required if the cost of an equivalent overhead line extension is justified ([section III.C](#)), but would be required for cases including, but not limited to; radials that cannot originate from an overhead source where, for instance, a pad mounted switch cabinet must be installed; "loop" systems; underground primary conductors that do not originate at an overhead source at FPL's preferred location; points of delivery requested beyond those designated by FPL; etc.

For larger loads exceeding 2500 KVA and other special circumstances, FPL's standard service consists of underground primary cables from an overhead source (determined by FPL) to a radial vault. The CIAC provisions stated in the preceding paragraph apply to vaults, as well. For padmounted transformer and vault specifications, refer to [section V](#).



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Throwover facilities enable a customer's primary electrical feed to be switched from a preferred source to an emergency source, using automatic FPL switching equipment. **Throwover service availability and its cost are determined by the Company on an individual basis.**

e. Loop service to Large Commercial Loads

Loop service can be provided in lieu of throwover. Loop service may be more economical when there is only one feeder (source) available.

Examples of Loop:

Some typical examples of loop service include but are not limited to, strip shopping centers, building supply chains, grocery stores, large hotels, outdoor malls, etc.

For additional information concerning loop service, contact your local construction representative.

F. Underground Service Connections in the City of Miami Network Area

Service voltage in the City of Miami Downtown Network Grid is four wire, three phase wye, 120/208 volts. When other voltages are desired, the Customer is requested to contact FPL to determine their availability. Network service is only available from the existing network grid, new secondary networks are not being constructed.

Service may be available from the underground street secondary mains, or from a vault, depending on the magnitude of the load involved.

For service from the secondary mains, the Customer will provide and install, at the Customer's expense, the conduit and cables from the Customer's main switch or FPL's metering devices to the point of delivery. The point of delivery will be FPL's manhole, pullbox or vault located at or near the property line, as designated by FPL. FPL will connect the Customer's secondary cable to FPL's facilities.

FPL may, where it is mutually advantageous, elect to extend primary circuits into the Customer's property and serve the immediate and adjoining premises from a standard (non-networked) transformer vault located on the Customer's property. See [section V](#).

G. Temporary/Construction Service**1. General**

Temporary/construction service is usually a limited term service to installations such as fairs, exhibitions, construction projects, displays and similar projects. Contact FPL regarding availability and applicable installation and removal charges before installing the temporary facility. These nonrefundable charges are paid **in advance** of FPL's construction.

Where the Customer's service entrance cable does not exceed 200 ampere capacity, the nonrefundable flat charge is specified in FPL's Tariff (Sheet No. 4.030). Larger services may require additional charges. For overhead service, the charge covers installation and removal of an overhead service and meter, at an existing secondary source. For an underground service, the charge covers connecting and disconnecting the Customer's service cable to FPL's existing



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underground facilities, including installation and removal of the meter. Contact FPL to determine current charges and availability of temporary/construction service.

Service may be single phase or three phase, 60 hertz, at the available standard secondary distribution voltage. This service is available only when FPL has existing capacity in lines, transformers and other equipment at the requested point of delivery.

For overhead temporary service, the Customer shall provide a sturdy and adequate service drop support, complete with service entrance and FPL approved meter enclosure, to accommodate FPL's service drop and meter (**Fig. IV-1**). In an underground area, a pedestal with FPL approved meter socket shall be provided to accommodate the meter, and the Customer's service cable shall be installed up to FPL's facilities (**Fig. IV-2**). An adequate amount of service cable shall be left available for FPL crews to pull into the handhole or transformer for connection. **Note: In underground residential distribution (URD) areas, service junction boxes will not be installed by FPL for the sole purpose of providing temporary service.**

If specific electrical service other than that stated above is required, FPL, at the Customer's request, will determine its feasibility and may provide such service based on the estimated cost of installing and removing such additional electrical equipment. This estimated cost is payable in advance to FPL and will be subject to adjustment or refund based on the actual costs. The additional service may be overhead or underground, depending on circumstances at the particular location, as determined by FPL.

All temporary/construction services shall be subject to all of the applicable Rules, Regulations and Tariff charges of FPL, including service charges. The energy used by the temporary service will be billed monthly under the appropriate rate schedule applicable to commercial and industrial type installations.

The Customer's installation shall satisfy all the requirements of the National Electrical Code and other authorities having jurisdiction.

2. Reduced Cost Alternatives

a. TOP

The TOP (temporary overhead permanent) alternative is available for residential and small commercial customers where the permanent FPL approved meter socket, meter, and weatherhead are configured such that they can be used for temporary service. Upon receipt of the temporary inspection, FPL installs the permanent service to the meter socket, and this service is used for construction purposes until the Certificate of Occupancy is obtained. Since no additional work is required by FPL for this type service, no additional construction charges are required, provided that all of the FPL construction work can be performed in a single field visit. However, **check with your local authorities first for installation requirements.**

b. TUG

The TUG (temporary underground) alternative is available for underground residential services where the permanent FPL approved meter socket, meter, and downpipe are configured such that they can be used for temporary service. Upon receipt of the temporary inspection, FPL installs the permanent service to the meter socket, and this service is used for construction purposes until the Certificate of Occupancy is obtained. Since no additional work is required by FPL for this type service, no additional construction charges (other than the cost of the permanent underground service itself) are required, provided that all of the FPL construction work can be performed in a single field visit.



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One variation of the TUG involves building a portion of the permanent wall and mounting the permanent meter socket, down pipe and customer switch panel on it. The main line switch and breakers for a 120V duplex GFCI receptacle and a 50A 230V receptacle are mounted in the panel with the receptacles mounted below the panel. A minimum 6 mil clear plastic sheet is mounted over the panel to protect it from the weather and a sticker warning of live electrical is placed on the panel. Upon receipt of the Customer's contribution for the permanent underground service, the application for service and the inspection, FPL will install the permanent underground service and meter, and the receptacles mentioned above are used for construction power. Please check with local authorities about rules and stipulations for using a TUG i.e. if it can be completed on a wood frame home, what phase in the construction process can a TUG be inspected, etc.

H. Unauthorized Connections & Disconnections

All connections of the Customer's wiring to that of FPL, all disconnects of service entrance conductors, all meter removals and installations and all breaking of FPL meter equipment seals shall be made only by FPL, except as allowed in [Section III.I](#) of these standards.

Any other connection or disconnection of FPL's service by the Customer or his agent is prohibited. If done with the intent to injure or defraud, it is punishable by law. Violators will be prosecuted.

I. Change in Service Requirements (Service Changes)

The Customer will normally own all the service facilities on his side of the point of delivery; i.e., the point where FPL's wires carrying the voltage of supply are to join the Customer's wires, except for the meters which will be owned by FPL.

The Customer shall notify FPL, in advance, when a change in service (service change) is being considered to accommodate provisions that service and metering facilities remain adequate.

Care must be taken when planning the service change to ensure the existing FPL owned conductors will be long enough to reach the new service equipment. If the FPL service must be replaced in order to reach the new service equipment, the customer may be responsible for the cost of the service replacement.

When a service change requires disconnection of FPL's service, the customer shall request a disconnect/reconnect from FPL. The Customer shall establish an advance appointment to ensure proper coordination between his electrical contractor and FPL crews who will disconnect the service and later reconnect after an inspection (when required by local authorities) is received.

Exception:

FPL normally performs both the disconnect and the reconnect. In certain cases however, the Customer's **licensed and qualified electrical contractor** is allowed, **at his option, but only when approved by FPL**, to perform the **disconnect on overhead services only**, when the following criteria are met:

- The Customer **shall** be a residential or small commercial facility with a main line switch rating of 300 Amps or less, served by an FPL single phase overhead service. **No three phase service shall be disconnected by an electrical contractor.** FPL must disconnect all three phase services to ensure that proper phase rotation is maintained.
- FPL service attachment point at the building or structure **shall** remain intact. No service shall be removed from the attachment point or the attachment point altered in any way.
- The meter socket(s) **must not** have an FPL locking device installed.
- If multiple meters are involved, the electrician **shall** "mark" each meter **and** socket.



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- **Only a licensed and qualified electrical contractor** may perform the disconnect function and he **shall** schedule a reconnect date (appointment) with FPL **before** disconnecting the service. If the appointment is not made before the disconnect, FPL will not be responsible for a same day reconnect.
- The service **shall** be cut on the **load side** of FPL's connection to the customer's service conductors. **No FPL conductors are to be cut.**
- The service **shall** be disconnected before removing the meter(s). **No meter is to be removed from an energized meter socket.**
- FPL personnel only are to perform the reconnect, and only after an inspection (if required by the local authority) has been received. **Electrical contractors are not allowed to reconnect the service.**
- The decision to perform this type of disconnect is entirely voluntary for the electrical contractor and allows work to commence without having to wait for FPL to disconnect the service. However, the electrical contractor still has the option of FPL performing the disconnect if he prefers.

J. Service to Special Equipment

The operation of electric furnaces, electric dredges and draglines, large motors and other heavy utilization equipment, if served from FPL's distribution system, might interfere with service to other Customers. Contact FPL concerning the requirements for furnishing this type of service. Refer to [Section IX](#).

K. Service to Boat Facilities

FPL electric service to marinas and private docks will be to a designated point of delivery on shore. The Customer shall bring his service conductors to the point of delivery (such as a handhole, pedestal, junction box, or padmounted transformer). FPL will not extend its conductors onto marinas or docks.

The Customer should install his FPL-approved meter sockets so as not to be a hazard to people on the dock and they shall be accessible for meter maintenance and monthly readings. The socket shall be mounted such that the meter will face the dock and not the open water and not represent a protrusion hazard.

L. Service to Electric Vehicle Chargers

Electric vehicle (EV) chargers are categorized in three levels:

- Level 1 is at home chargers that typically are 120v 1-3 KW using a standard receptacle.
- Level 2 can be residential or commercial level and are 240v 5-19 KW using a dedicated receptacle and circuit. FPL will determine if the EV chargers can be added to an existing 3 phase transformer or if a new dedicated 3 phase transformer will need to be installed to serve the EV chargers.
- Level 3 is better known as fast chargers or DCFC (direct connect fast charging) are becoming a commercial industry standard due to faster charging and not relying on an onboard inverter to convert from AC to DC charging. Can range from 50-350 KW based on current technology. FPL will determine if the EV chargers can be added to an existing 3 phase transformer or if a new dedicated 3 phase transformer will need to be installed to serve the EV chargers.

EV chargers will be placed on a "Guaranty Performance Agreement" for payment. Unless there is sufficient historical data in the FPL service territory that FPL can use to determine an EAR and CIAC calculations.



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FPL will determine the point of service, conduit route and transformer placement. Please note that standard design, construction, and meter installation time frames apply to EV chargers.

M. 2 wire, 480V Metered Service (Maintenance only)

On all self-contained, metered installations (320 amperes or less) where the service voltage is 480V to ground (2 wire), a non-automatic disconnect device shall be provided and installed by the Customer on the **line side** of each individual meter. For meter centers, there shall be one disconnect device on the **line side** of each meter. The disconnect device shall be lockable or sealable by FPL and adjacent to each meter. The Customer-owned non-automatic (no over current protection) disconnect device ampacity must meet all NEC Guidelines. A lever bypass equipped meter enclosure is required and shall be selected from the Approved Meter Equipment Enclosure List.



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**Delivery Assurance –
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The Customer should consult FPL at an early stage to verify availability of service ([section II.C](#)) and to determine the FPL designated point of delivery ([section III.B](#)). Contact with FPL should be made before the purchase of equipment and its installation. This FPL approval is not a substitute for inspection and approval by the local electrical inspection authority. FPL assumes no responsibility for the Customer's wiring installation. Upon request, FPL will inform the Customer of available short circuit currents.

The Customer shall provide, install, own, and maintain all service entrance conductors, service equipment, and metering equipment cabinets ([section VI](#)). The service equipment usually consists of a circuit breaker or switch and fuses, and their accessories, located near the point of entrance of the supply conductors to the buildings or otherwise defined area. It is intended to be the main control and means of cutoff of the supply.

FPL will provide, install, own and maintain adequate meters (and other appurtenant equipment as needed) to measure the electrical quantities required to apply its rate schedules and contracts.

The Customer may choose the type of service equipment he prefers, consistent with local building codes and the National Electrical Code (NEC). It shall be able to successfully interrupt the maximum fault current available at its location. Where load growth is possible, FPL recommends that the capacity of service entrance conductors and service equipment be greater than the minimum requirements of the NEC or other local codes. FPL encourages residential Customers to install a service entrance with a capacity of at least 150 amperes for average homes and more in the case of larger homes.

Service entrance equipment shall be in a location which is accessible and not likely to become obstructed.

The Meter enclosures must be installed at least 3 feet away from any operable window, door, or similar opening.

Meters shall not be located in the median of divided roads or highways.

The customer's service conductors shall be continuous from the point of delivery to the metering equipment. If a meter trough is needed the customer shall provide a means of sealing by FPL with standard company meter seals. Conductors installed in raceways shall comply with NEC Article 300.3.

The customer's service conductors shall be marked (tagged) at the source with the location served. See **Fig. IV-14** for tagging details. The customer service cables are to be installed as a set per conduit (i.e. 3 phase service A, B, C, N in one conduit) and marked accordingly to identify cable leg i.e. red, white and blue.

No fuses should be installed at any point in the grounded neutral conductor of the service entrance.

No uninsulated conductor is permitted inside the meter enclosure.

No lug/cable reducer of any kind can be used by the customer to ensure cables fit inside FPL equipment.

Service laterals in conduit must be individually insulated conductors per phase. FPL will not allow concentric neutral cables in conduit for customer owned secondary.

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No resistor or reactor or other similar fault current limiting device shall be installed in the neutral or the phase conductors of the service entrance without the approval of FPL.

Where customer owned stepdown transformers are required they will be installed on the load side of the meters.

Where permitted by applicable codes, the service equipment will be on the load side of the meters except that if the service is fed from the City of Miami Downtown Network Grid, the service equipment will precede the meter.

Disconnect switches may be ahead of any multi-meter grouping. FPL will not connect FPL owned cables to a customer owned disconnect switch.

A main disconnecting switch is required to be ahead of the meters when more than six meters are grouped (**Fig. IV-12b**). This is because the NEC requires a main disconnect switch where it would otherwise be necessary to operate more than six switches to completely disconnect the building service.

When installed ahead of the meters, the door of the main switch shall be sealable in both the "on" and "off" positions. The handle shall be sealable in the "off" position.

A minimum *horizontal* separation of 3 feet shall be maintained between natural gas service equipment (*vented regulators*) and electric metering or termination equipment. Transformers shall have a minimum separation of 5 feet from natural gas service equipment. A minimum separation of 5' shall be maintained between electric metering or termination equipment and liquid petroleum facilities on site but not filled on site. If the liquid petroleum facilities are filled on site the minimum separation is 10 feet.

All commercial installations and all residential three phase installations must contain lever bypass, jaw tension/release socket blocks with the exception of small (120V or 120/240V, with 100 amp meter enclosure), **non-critical** loads such as:

- Lighted signs and billboards
- Temporary construction poles and service to construction trailers
- Irrigation pumps
- Residential detached garages
- Gate openers
- Barns
- Apartment / Condo house meters
- Bus stops
- Street lighting

The use of a Metallic fishtape to pull service conductors into FPL owned equipment is not allowed.

2. Ampere Rating

a. Residential

The rating of the service entrance equipment shall satisfy the general requirements stated above, the NEC and local building codes. Article 230 of the NEC states that the minimum



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rating for a one family dwelling with six or more two-wire branch circuits, or an initial computed load of 10 kVA or more is 100 ampere, three-wire. For dwelling units with less load, as computed in accordance with NEC guidelines, the minimum may be 60 ampere, three wire if approved by the inspecting authority. In very special cases where the load is only one or two two-wire branch circuits, the service disconnecting means may have a rating of no less than 15 amperes or 30 amperes, respectively, if approved by the inspecting authority.

As stated previously, FPL recommends that the service entrance have more capacity than the minimum required by the NEC. Local inspecting authorities shall be consulted, since some locations may have requirements that exceed the minimums.

b. Commercial

The rating of the service equipment for commercial or industrial occupancies will depend on the connected load, and in most cases, will be specified by the Customer's engineer.

It is important that the requirements be reviewed with FPL at an early date so that a satisfactory solution as to service voltage and service entrance location can be determined. At this time, details as to the nature and size load to be served may be given to FPL, if this has not already been done.

The service equipment should be chosen to satisfy all the requirements of the Customer for the control of his load and should be consistent with the NEC, local building codes and the rules of the inspecting authority.

One requirement is that the service equipment shall be able to safely interrupt the maximum fault current available at its location. Upon request, FPL will supply information which will permit the maximum available fault current to be determined.

FPL emphasizes that changes in the Customer's load and other loads in the area may require changes in FPL's system. These changes may increase the available fault current. Allowance should be made for this possible increase.

c. Service Equipment Rated Below 600 Volts

In those cases where the Customer's ampere demand at these voltages exceeds 600 amperes, or the Customer's service entrance wire size exceeds 1-800 KCMIL or 2-500 KCMIL conductors, per phase, FPL will normally require the Customer to furnish a current transformer cabinet and an instrument transformer rated meter socket, installed ahead of his service equipment. The Customer will also furnish and install a 1-1/2 inch conduit from the cabinet to the meter socket (refer to the specifications found in [section VI](#)). FPL will provide and perform the current transformer installation, install the secondary wiring from the current transformer to the meter socket, and install the meter.

On all self-contained metered installations (320 amperes or less) where the service voltage is 480V to ground (2 wire), a non-automatic disconnect device shall be provided and installed by the Customer on the line side of each individual meter. The disconnect device shall be lockable or sealable by FPL and adjacent to each meter. The Customer-owned non-automatic (no over current protection) disconnect device ampacity must meet all NEC Guidelines. A lever bypass equipped meter enclosure is required and shall be selected from the Approved Meter Equipment Enclosure List.



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For service disconnecting means rated 1,000 amperes or more used on a solidly grounded 277/480 volt wye service, ground-fault protection shall be provided. This may be omitted, if approved by the inspecting authority or if the service equipment controls a continuous industrial process where a non-orderly shutdown would otherwise introduce additional or increased hazards.

Where for any reason, a main disconnecting switch is required in multi-metered service installations; it will be on the line side of the meters. The door of this switch box shall be sealable. No socket or current transformer cabinet will be required ahead of this switch.

d. Service Equipment Rated Above 4MW

Loads greater than 4 MW demand should be primary metered if vault construction is not feasible. If vault construction is feasible, FPL can accommodate up to 10 MW of transformer capacity.

e. Service Equipment Rated Over 600 Volts

When the Customer takes service at primary voltage, he shall provide service equipment rated for the voltage supplied. The service equipment will normally be on the load side of FPL's instrument transformer metering installation.

The service equipment shall satisfy all the requirements of the NEC, the building code, and the inspecting authority.

FPL shall be consulted so that the Customer's primary service equipment may be coordinated with FPL's feeder protection circuit breakers and fuses.

For padmounted primary metering, the customer will either provide a metering cabinet listed on FPL's approved enclosure list, or FPL will provide the metering cabinet and bill the customer the cost. For primary metering in vaults, FPL will provide, own, and maintain the metering cabinet located inside the vault.

B. Overhead Service

For residential overhead service, the attachment will normally be within ten feet of the corner, on the side of the building nearest FPL's secondary facilities (**Fig. IV-4**). The Customer's service entrance should be installed in such fashion that service drop wires will not cross over buildings, swimming pools, or adjacent property not owned by the Customer. FPL may provide the Customer with two copies of an "Electric Service and Meter Location" sketch (FPL form 1453) confirming the service location (**Fig. IV-3**).

1. Vertical Clearance to Ground

The point of attachment for service drops not exceeding 150 volts from any conductor to ground shall allow ten feet of ground clearance to lowest point of sag in the service drop.

Service drops exceeding 150 volts but less than 300 volts from any conductor to ground shall allow ten & one-half feet of ground clearance to lowest point of sag.

Where the service drop must pass over immediately adjacent driveways or parking areas subject to truck traffic or if it is within 25 feet of a swimming pool or if the voltage to ground is over 300



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volts, additional clearance shall be provided. In these cases a greater attachment height shall be provided.

The required attachment height will be shown on the "Electric Service & Meter Location" sketch. It is important the Customer furnish this information to the building contractor and electrician.

2. Clearance from Building Openings

Service conductors shall have a clearance of not less than three feet from windows, doors, porches, fire escapes or similar openings.

3. Clearance from Swimming Pools

FPL prefers a minimum horizontal clearance of 10 feet from its facilities to swimming pool edges or pool enclosures. However if certain conditions are met, including minimum vertical clearances, the National Electrical Safety Code (NESC) provides for less than 10 feet of horizontal separation. Costly relocations of existing services may become necessary if the Customer builds a pool too near FPL's electric facilities. Should there be any question of conflict between the location of a new swimming pool or pool enclosure and FPL's facilities; the Customer is to contact FPL before construction of the pool facilities to ensure required NESC clearances are met.



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4. Anchorage for Overhead Service Drop Cable or Wires

The Customer shall provide a safe and adequate anchorage for FPL's overhead service drop conductors at the agreed upon location and height.

FPL will furnish, and the Customer will install, a suitable attachment for the service drop. The attachment device furnished will vary, to be compatible with the type of building construction ([Fig. IV-6a thru 6c](#)).

FPL WILL NOT BE RESPONSIBLE FOR DAMAGE TO THE CUSTOMER'S BUILDING OR WIRING RESULTING FROM FAILURE OF THIS ANCHORAGE.

The point of service drop attachment and its height will be shown on the "Electric Service and Meter Location" sketch. It should be sufficient to provide all the required clearances as shown in [Fig. IV-5](#). The location should be accessible from the ground by a ladder.

Where the height of the building would not allow adequate clearance from service drop to ground, the Customer shall furnish and install a service mast or other approved extension ([Fig. IV-6a](#)). FPL will provide and install the bracket for attaching the service drop to the service mast.

5. Installation of Service Entrance

The service entrance conductors shall be provided and installed by the customer in accordance with local building codes and the latest NEC. The conductors will extend a minimum of 36 inches beyond the service weatherhead to permit connection to FPL's service drop wires. FPL limits the number of customer conductors per service to three per phase (i.e. - 3 weatherheads with one conductor per phase; or 2 weatherheads - one with parallel conductors and one with single conductors; or 1 weatherhead with three conductors per phase where allowed by code). Call your local new construction office in situations where the load exceeds the capacity of three 750 KCMIL AL or CU conductors per phase.

The service entrance weatherhead shall be above the service drop attachment. If this is impractical, the weatherhead shall not be farther than 24" from the point of attachment.

Service drop conductors and service entrance conductors will be arranged in a manner that will prevent water from getting into the service entrance raceway or cable sheath ([Fig. IV-6a](#)).

The neutral conductor of the service entrance shall be identified by the Customer.

Wiring of the meter socket shall be as shown in the appropriate sketch of [Fig. IV-8](#).

The service entrance conduit is installed by the Customer from the service weatherhead to the meter socket or the service entrance equipment, when this precedes the meter. It may be either exposed on the exterior building wall, or concealed within the structure itself in a permanently inaccessible location. Condulets (such as LB, LL, LR) shall not be used. Where exposed to the weather, conduit shall have threaded joints and shall be arranged to drain.

In the case of the service entrance conductors for a three phase, four wire delta service, one of the ungrounded conductors will have a higher voltage to ground than the other two conductors ([Fig. IV-8](#), Meter Symbol J). This conductor shall be durably and permanently marked by an outer finish that is orange in color or by other durable effective means, and landed on the right side of the meter can. This marking will ensure connection to the proper FPL conductor when the service is connected.

C. Illustrations

The following illustrations contain pertinent information regarding the installation and connection of overhead and underground services.



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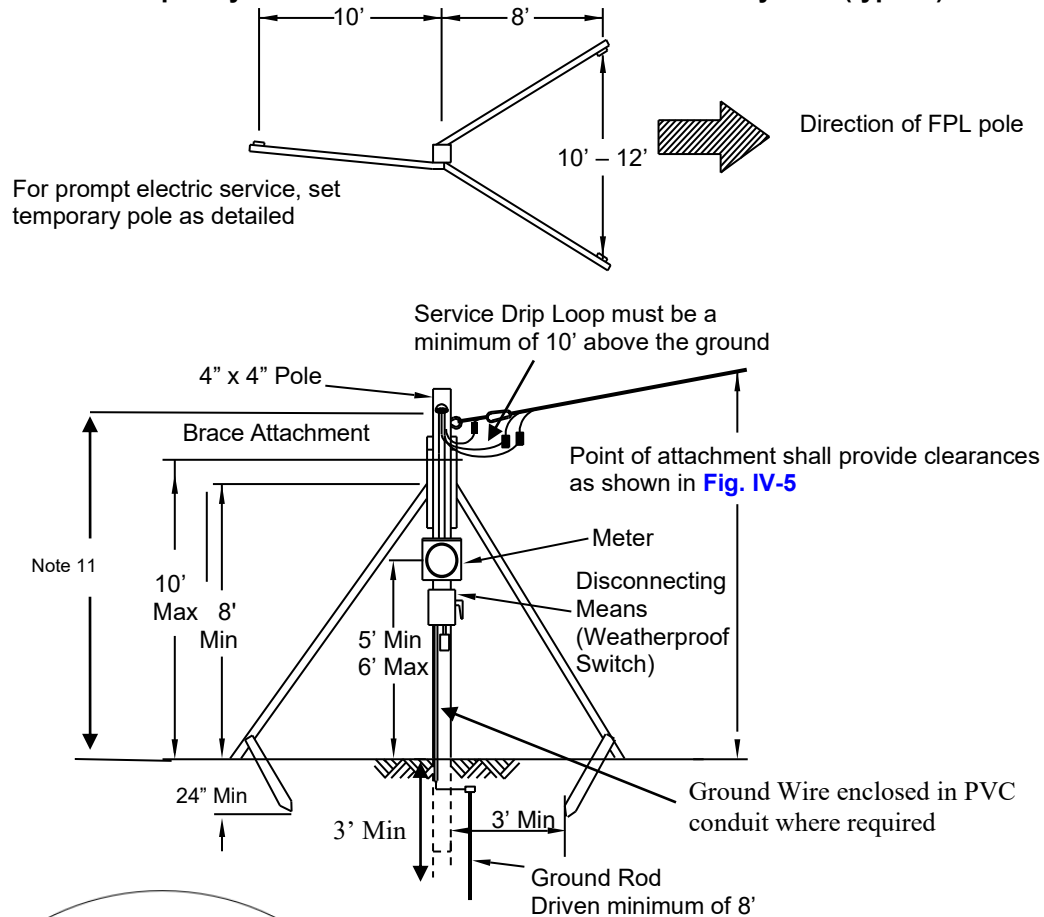
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FIGURE IV-1

Temporary/Construction Service - from Overhead System (typical)



FPL Designated Point of Service

20' max for inaccessible
80' max for accessibleArea within radius of circle
must be compacted and
level by customer prior
to service connectionFor inaccessible locations –
attachment points cannot exceed
16' in height (12' is preferred
attachment height – See Note 11)

Notes:

- Before service can be run, Company must have an electrical inspection; necessary tree trimming shall be done by the customer; and the deposit and non-refundable temporary service charge shall be paid.
- Service pole shall not be within 25 ft. of swimming pool and must provide clearances shown in Fig. IV-5.
- Unspliced timbers are required (minimum length of 12 ft. for 2x4 braces and 16 ft. for 4x4 posts. Use ten penny (10d) nails (3" long).
- The brace must be installed between 8' – 10' above the ground
- Weatherhead height must not exceed the height of the 4" x 4" post. The post should extend at least an additional 6" past the weatherhead.
- All stakes supporting the temporary stand need to be a minimum of 2" x 4" and driven to a depth of at least 24".
- Special arrangements shall be made with FPL if service drop exceeds 80 ft., anything above 16' for **INACCESSIBLE** location or is larger than 200-amp capacity.
- Minimum typical requirements are shown. If local code requirements are more stringent, they shall be adhered to.
- The surface the meter socket is mounted on shall be plumb so the meter socket jaws are truly vertical. The meter enclosure must be on FPL's approved list.
- Where acceptable to the inspecting authority, an 18 ft. treated pole (5" min. diameter at the top) may be substituted for the 4x4 timber and braces, provided the pole is set 5 ft. deep and well tamped. All other requirements remain the same. Keep in mind the NEC minimum clearance varies depending on where the temp stand is located. An 18' temp stand 5' in the ground leaves 13' of clearance from the ground which works for pedestrian traffic but will not work if it is over a driveway.
- For inaccessible locations, the attachment point shall not exceed 16' in height; however, our preferred installation height is 12', provided all other applicable clearances are satisfied. The area around the temporary stand needs to be compacted and leveled. The temporary stand shall not be more than 20' from the base of the FPL pole.



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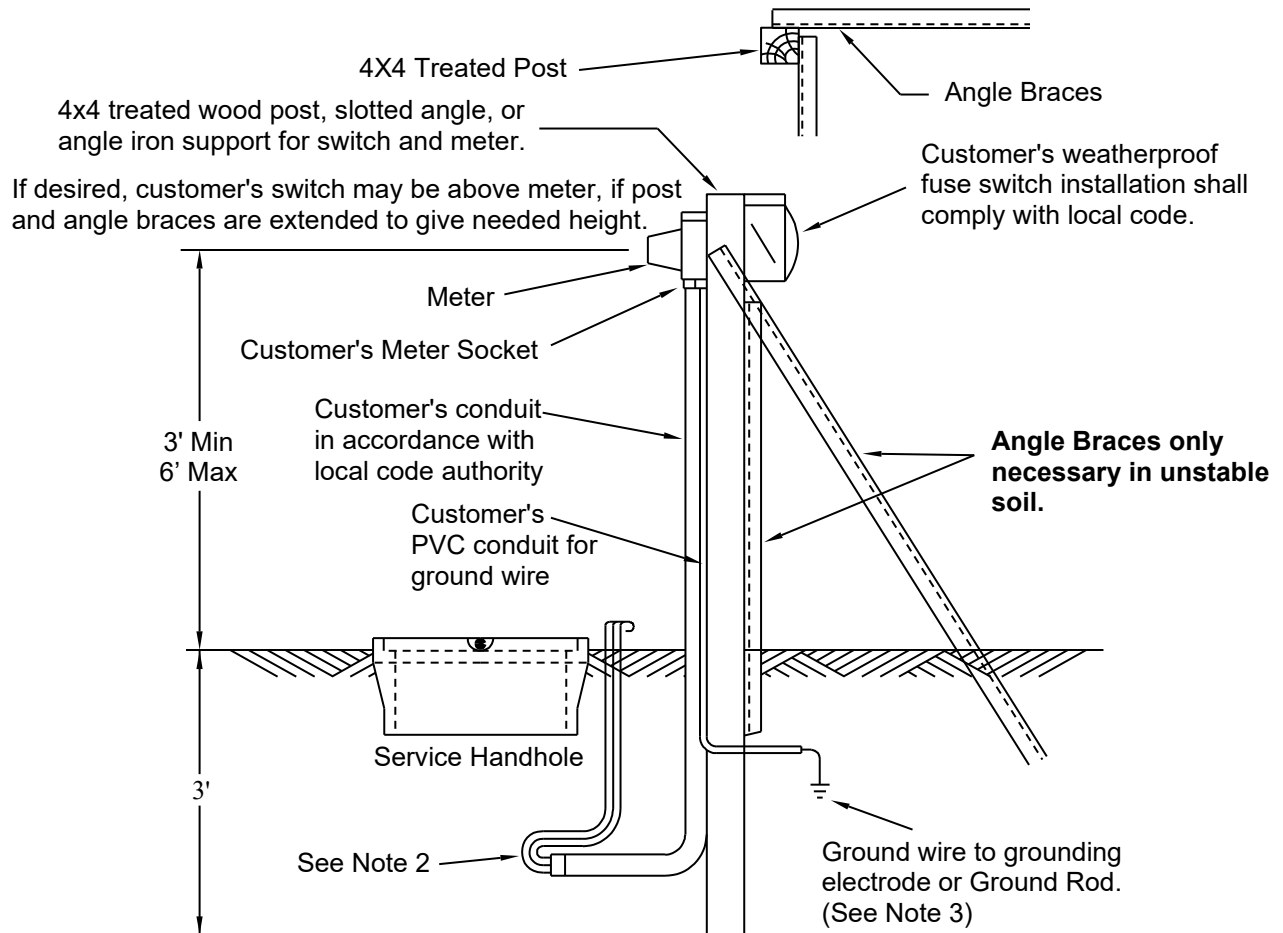
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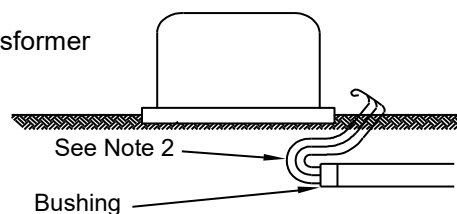
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FIGURE IV-2
Temporary/Construction Service - from Underground System (typical)

**Notes:**

1. Before service can be connected, the company must have the electrical inspection; necessary grading shall be done by the customer; and the deposit and non-refundable temporary service charge shall be paid. Contact the FPL representative for availability and location.
2. The customer shall leave a five foot length of service conductor above ground, outside of source, for connection to FPL secondary by FPL.
3. Temporary service should be located outside the utility easement to avoid driving the ground rod into any existing underground cables.
4. Service Conductors shall be near secondary side of the transformer.
5. The meter enclosure must be on FPL's approved list.

Padmounted Transformer



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APPLICANT _____ Current FPL Account No. _____

MAILING ADDRESS _____ CITY, ZIP CODE _____

SERVICE ADDRESS/LEGAL DESCRIPTION _____

PHONE (WEEKDAYS) _____ DATE _____

FPL is pleased to advise that electric service for your proposed _____ will be available from our Distribution facilities as shown on the sketch below. We understand you are requesting ___Overhead ___Underground, ___ volts, ___ phase service. The items checked below and receipt by our representative of the white copy of this form with your signature acknowledging your receipt, are required **before** FPL provides electric service:

Payment:	___ Construction/Temporary Service Charge:	\$ _____
(Check or	___ Security Deposit for Construction/Temporary Service:	\$ _____
Money Order)	___ Underground/Overhead Differential Charge for Permanent Service:	\$ _____
	___ Line Extension Contribution In Aid of Construction (CIAC):	\$ _____
	Total:	\$ _____

___ Tree Trimming & Clearing: _____ Feet
 ___ Each Side of Proposed Line
 ___ Installation of Meter Socket & Downpipe/
 Weatherhead according to FPL Specifications
(see checklist on reverse side of this sheet)
 ___ Install eyebolt (for FPL to attach wires to)
 ___ Configuration _ Meter Socket*

___ Site Plan ___ Electrical Load Information/Plans
 ___ Easement for FPL Facilities/Legal Description of Property
 ___ Contact FPL ___ days before Certificate of Occupancy
 concerning Application/Security Deposit for permanent
 service.
 ___ Final City/County Electrical Inspection
 ___ \$ _____ Security Deposit _____ is required before _____ will be billed after
 permanent service provided. ___ Other:

*Meter socket must be approved for use in FPL service area.
 Current list of **approved** sockets available upon request. Socket
 configurations are shown on reverse side of this form.

For overhead service, minimum attachment height is to be 12 feet above grade. For underground service, minimum cover is to be 24 inches (maximum 36 inches). FPL specifications and requirements must be adhered to and are available upon request. Upon timely completion of the above required items and agreement between you and our Representative, service may be provided approximately the week of _____ or as mutually agreed upon. Changes to type service requested, failure to comply with above requirements, or delays to FPL's construction schedule may affect proposed date of service.

"SERVICE LOCATION SKETCH"

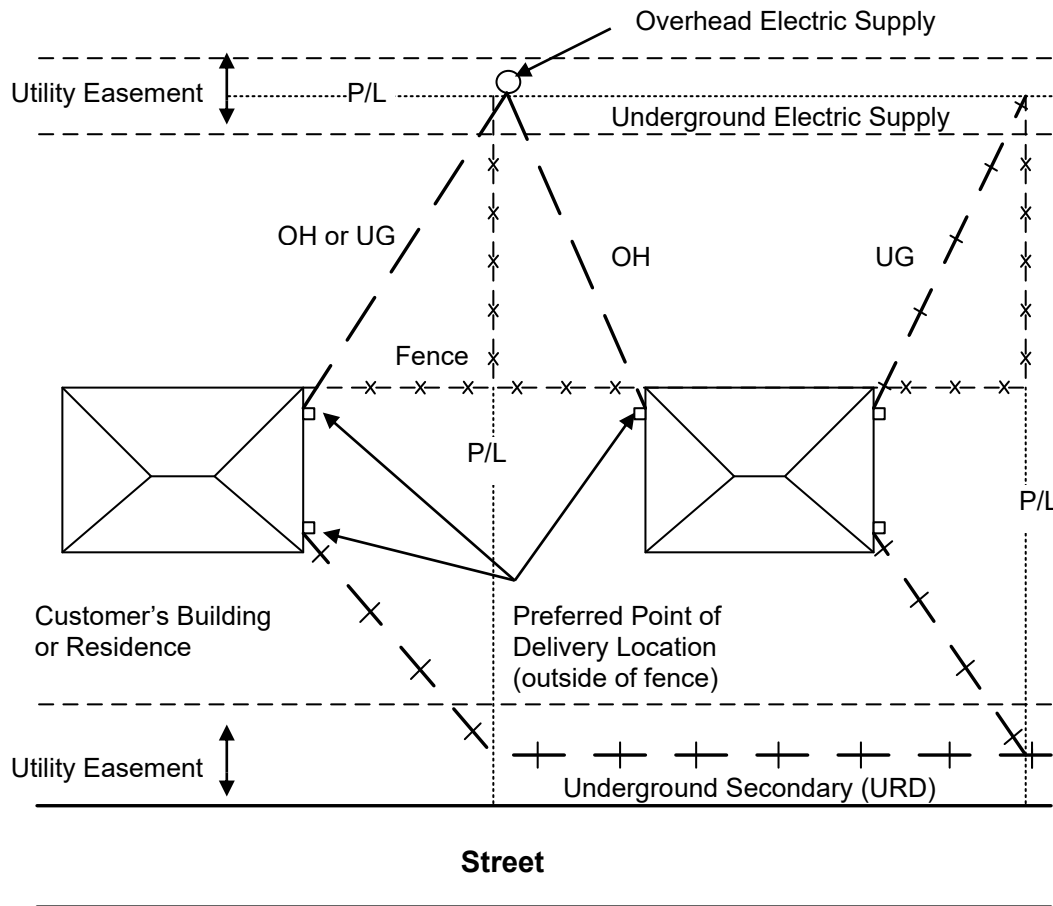
INDICATE NORTH

PLEASE SIGN ON THE LINE PROVIDED BELOW, RETAIN A COPY AND RETURN A COPY TO FPL.**RECEIPT IS HEREBY ACKNOWLEDGED:****MAKE INQUIRIES TO:**

APPLICANT _____ DATE _____

TITLE (IF CORPORATION)_____
BY (OTHER THAN APPLICANT)

FIGURE IV-4
Guide for Locating Point of Delivery on Outside of Building





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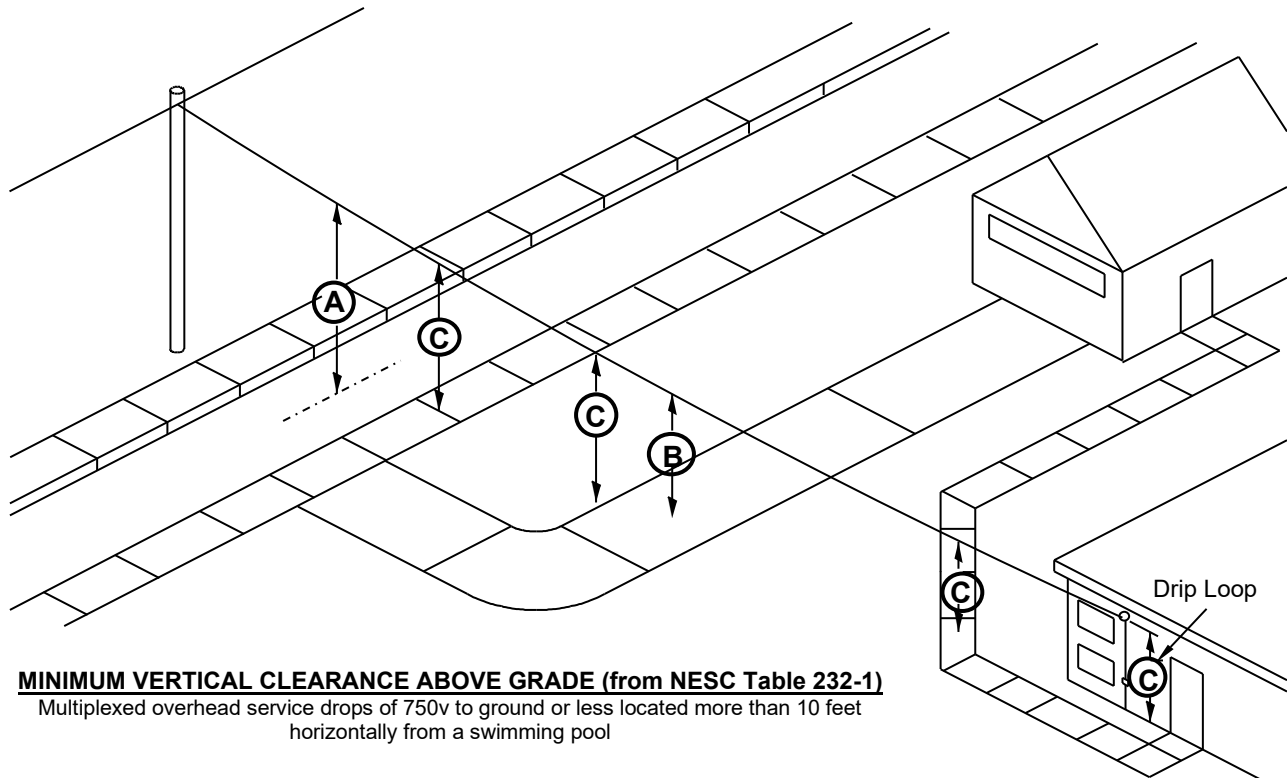
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FIGURE IV-5
Overhead Service - Minimum Vertical Clearances



A. Roads, streets and other areas subject to truck traffic 16 feet

B. Driveways, parking lots and alleys 15 feet

Exception - Residential driveways only where attachment height at building does not permit 15 feet of clearance:

Voltage limited to 300v to ground:

Service Drops 12.5 feet

Drip Loops 10.5 feet

Voltage limited to 150v to ground:

Service Drops 12 feet

Drip Loops 10 feet

C. Spaces and ways subject to pedestrian or restricted traffic only 12 feet

Exception - Where attachment height at building does not permit 12 feet of clearance:

Voltage limited to 300v to ground:

Service drops and drip loops 10.5 feet

Voltage limited to 150v to ground:

Service drops and drip loops 10 feet

D. Other land (such as cultivated, grazing, forest, orchard, etc.) traversed by vehicles 16 feet

NOTES:

-120v single phase, 120/240v single phase, and 120/208v wye 3 phase services meet the 150v to ground criteria.

-120/240v open or closed delta 3 phase and 277/480v wye 3 phase services meet the 300v to ground criteria.

-240/480v delta services do not meet either the 150v or 300v to ground criteria and do not qualify for the exception to the basic clearance.

The clearances above are NESC minimum values for worst-case sag conditions. The attachment height at the building or customer's service pole must be sufficient to provide these clearances for all situations involved. Good judgment dictates that initial installation be made at higher values to ensure code compliance under worst-case sag conditions. For additional details and clarification regarding these and all clearances, refer to Article 23 of the NESC.



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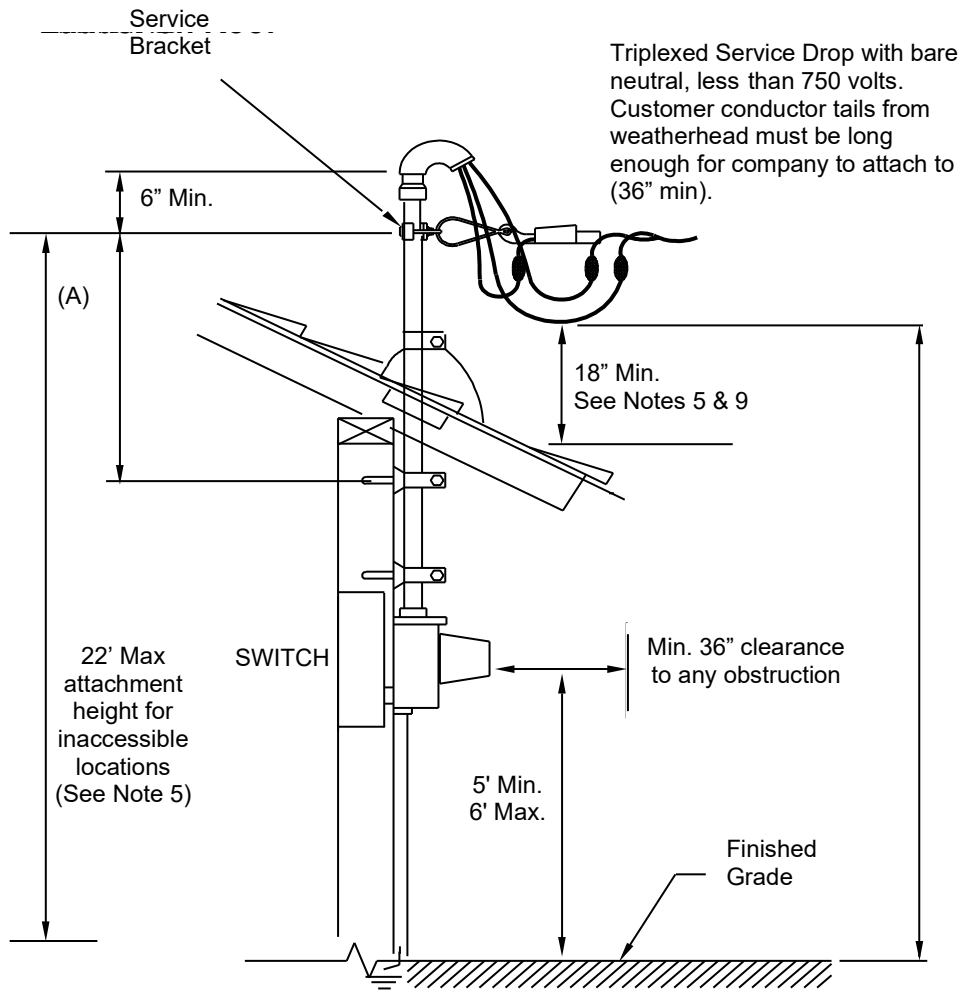
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FIGURE IV-6a
Attachment of Service Drop at Buildings - to the Pipe Mast



Maximum Service Bracket attachment height above last firm support (A)	
Diameter (Inches)	Rigid Metallic* or IMC (feet)
2	2.5
2-1/2	3.50
3	5.50
3-1/2	7.75

*Rigid Metallic shall be per ANSI C-80.1 and shall be hot dipped galvanized inside and out.

10 ft. Min.
150v to Ground
(See Note 5 & Refer to [Fig. IV-5](#))

Notes:

1. A service Mast may be used to get proper clearance if permitted by local code.
2. The Service Drop and Service Bracket are provided and installed by FPL.
3. Service Mast or other approved attachment post or bracket must be sufficient strength to support the Service Drop (650lb of pulling tension @ 50lb wind force). 2" or larger rigid galvanized conduit is preferred. The point of attachment must be sufficient height to provide minimum clearances. FPL will not attach Service Drop to an aluminum, EMT, or PVC mast.
4. Customer provides and installs Service Mast in accordance with National Electrical Code and/or local codes.
5. Minimum clearance to Drip Loops is 10 feet from ground. Minimum Drip Loop to Roof clearance is 18 inches. Maximum service attachment height is 22 feet above grade for locations not accessible to bucket trucks.
6. Weatherheads in excess of 72" above a roof and located more than 3' from the roofs edge needs to be accessible from a company bucket truck. The company will not place ladders on top of a roof to make connections.
7. Service Drop, Service Bracket and Meter are owned and installed by FPL. Meter Socket is owned, installed and maintained by customer.
8. Service Drop clearance required at locations other than a house are shown in [Fig. IV-5](#).
9. For triplexed or quadruplexed cable services, less than 750 volts, with bare neutral, the 18" minimum clearance is allowed only where no more than 6 feet, measured horizontally, of the service drop passes over a roof to terminate at a through-the-roof mast located not more than 4 feet, measured horizontally, from the nearest edge of the roof. Otherwise, the minimum clearance above the roof (not readily accessible) of the building to which the service is attached is 3 feet. Refer to NESC 234C3d.

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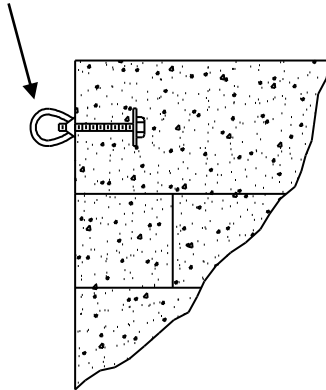
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FIGURE IV-6b
Attachment of Service Drop at Buildings - to the Structure

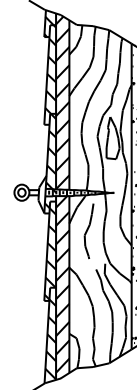
5/8" Bolt with Eyebolt cast
in concrete tie beam



If point of service attachment can be determined before construction, an effort should be made to have eyebolt installed during construction

ALTERNATIVE #1

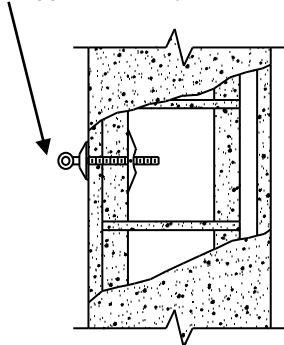
3/8" x 3-1/2" Galvanized
Steel Screw Eye



When attachment must be made to building frame use 3/8" x 3-1/2" screw eye. Drill thru siding with 3/8" bit. Use 1/4" bit to precede screw into stud.

ALTERNATIVE #2

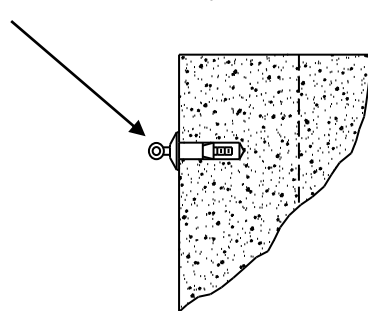
5/16" x 5" Galvanized Steel
Toggle Screw Eye



Use toggle screw eye on hollow tile or concrete block walls

ALTERNATIVE #3

3/8" x 2-1/8" Galvanized
Steel Expansion Screw Eye



Use expansion screw eye in poured concrete walls or beam

ALTERNATIVE #4

NOTE: Where local building codes are more conservative, they take precedence.



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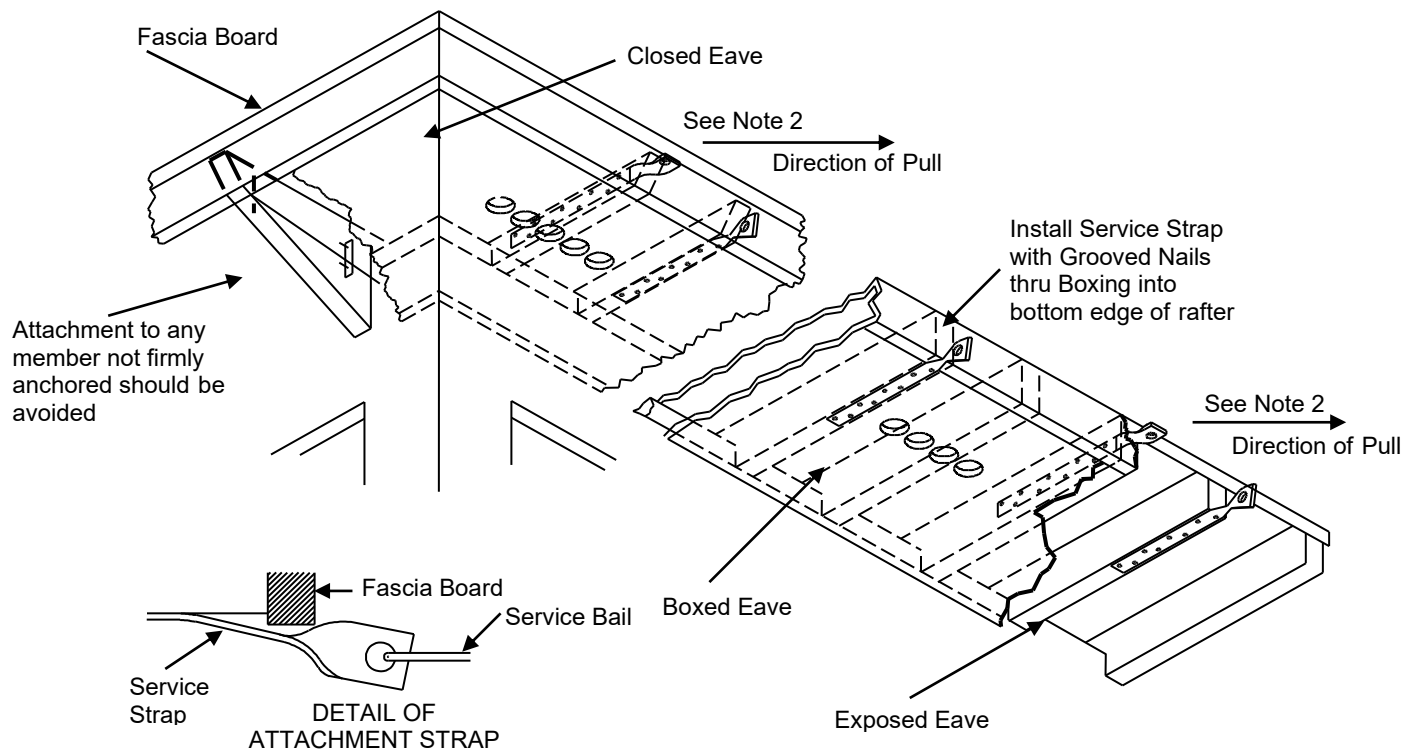
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FIGURE IV-6c
Attachment of Service Drop at Buildings - to the Wood Eave
 -
TYPICAL METHODS

To be used only when anchorage into wall will not provide proper ground clearance

**Notes:**

1. Attach Service Strap with 2-1/2", No. 8 gauge "Anchor Fast" grooved nails.
2. If angle between Service Strap and Service Cable is greater than 45 degrees, the strap should be attached on side of rafter opposite direction of Service Pull.



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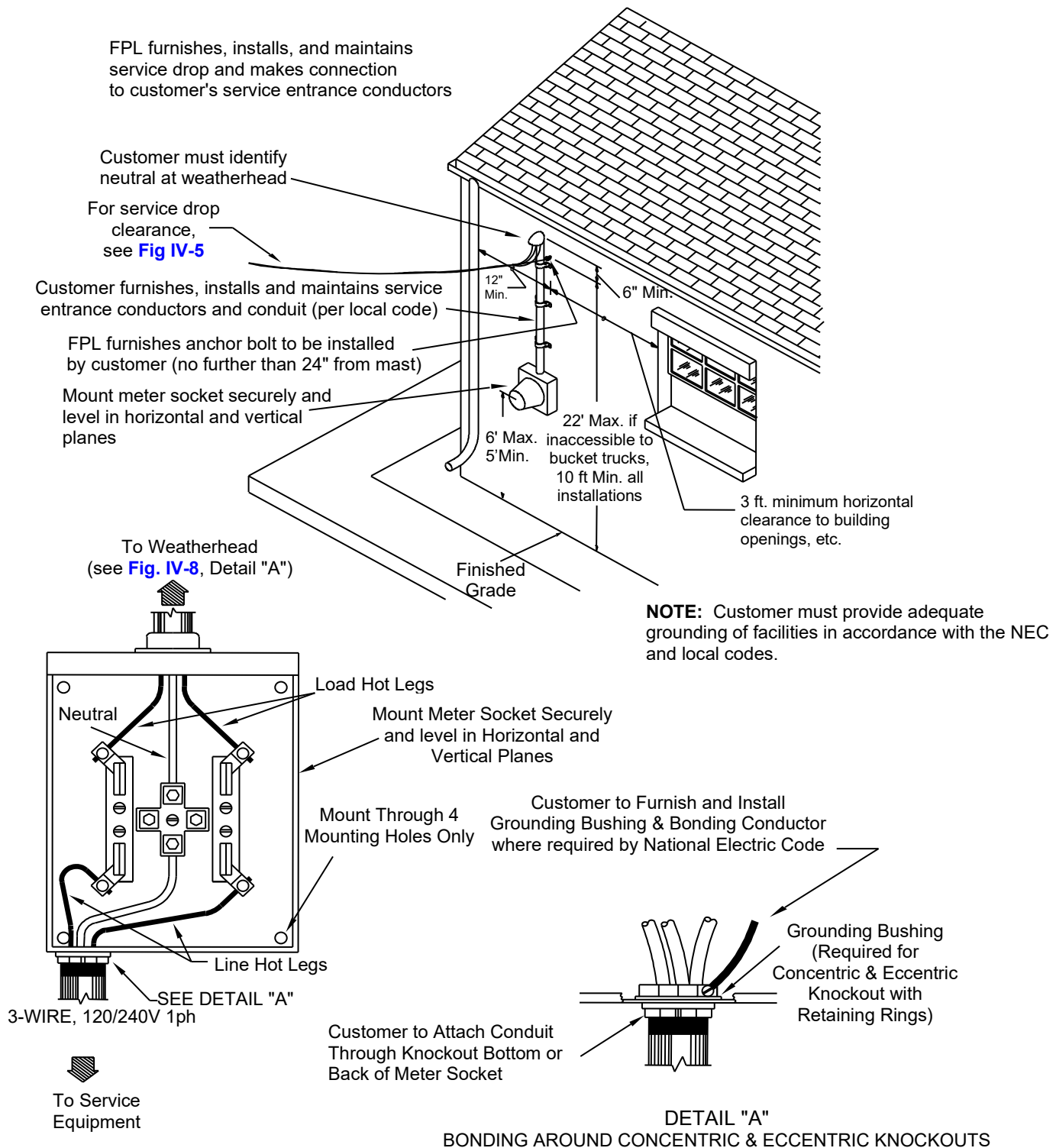
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FIGURE IV-7

Outdoor Meter Installation - 1ph 120/240v 3 wire Overhead Service





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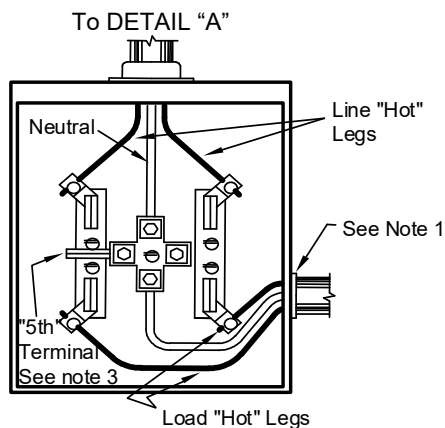
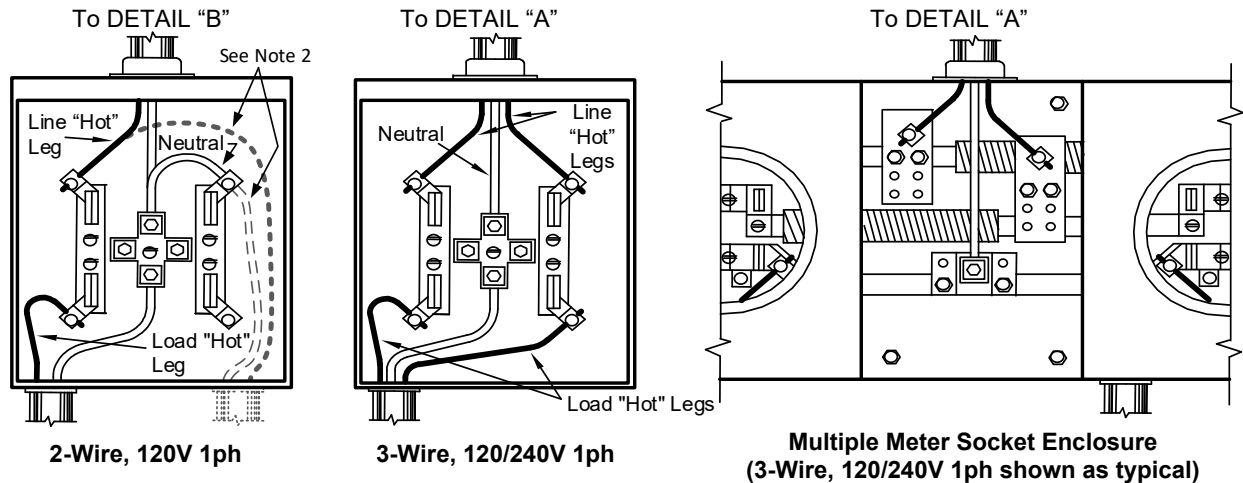
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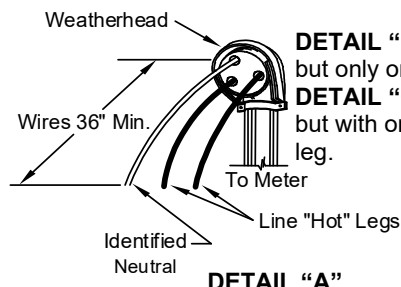
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FIGURE IV-8a

Self-Contained Meter Installation – Residential Overhead Service (200A or less)

**Underground Residential Applications:**

Risers for FPL underground services must be installed on the opposite side of the meter can from the customer's service entrance conductors. Customer's conductors **MUST** be kept entirely to one side of the meter can, leaving the opposite side of the meter can unobstructed for FPL's conductor.



DETAIL "B": same as DETAIL "A", but only one line "Hot" leg.

DETAIL "C": same as DETAIL "A", but with one additional line "Hot" leg.

Note:

1. Customer to bond around concentric knockouts. See Fig. IV-7, Detail "A".
2. For 2-wire installations served from an underground riser, the line neutral conductor may be passed continuously through the upper right lug (shown dashed in figure).
3. 5th Terminal must be connected to the neutral bus either by directly mounting to the neutral bus or by a white 18 ga. wire connecting the terminal to the neutral bus.



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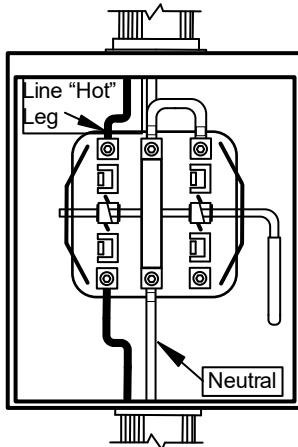
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IV. SERVICE and METER CONNECTIONS

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FIGURE IV-8b

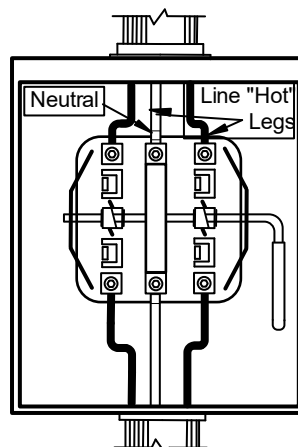
Self-Contained Meter Installation – Residential (320A)/Commercial Overhead Service



2-Wire, 120V 1ph

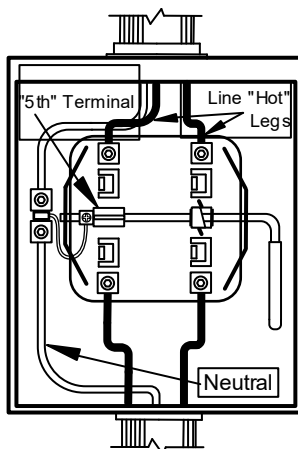
2-Wire, 240V 1ph

2-Wire, 480V 1ph*



3-Wire, 120/240V 1ph

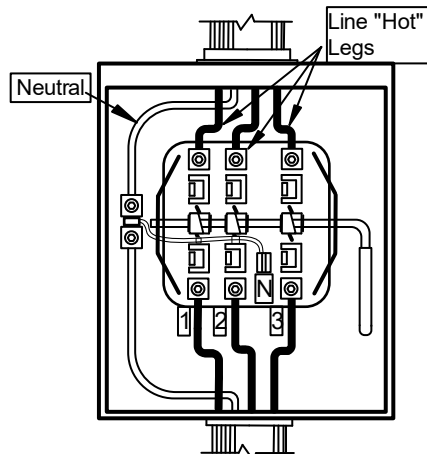
(Residential 320A/Commercial)



3-Wire, 120/208V 1ph Wye (Network)

3-Wire, 240/480V 1ph Delta

3-Wire, 277/480V 1ph Wye



4-Wire, 3ph Delta*

4-Wire, 3ph Wye

Meter Cans with Bypass HandlesApplications:

- Residential 320A continuous
- Single and three phase commercial

Notes:

- For 2-wire, 480V metering installations, a non-automatic disconnect device shall be provided and installed by the customer on the line side of each individual meter.
- Wiring similar for Wye and Delta, but on Delta, Hot Wire #3 (hi-leg) must be 208V to ground and must be connected to right terminal as shown (other two hot wires, lighting legs, are 120V to ground).



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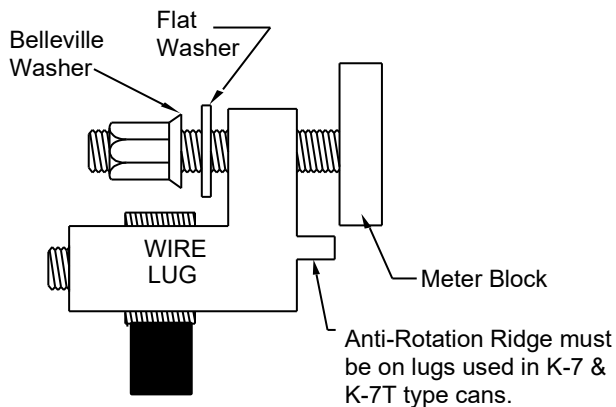
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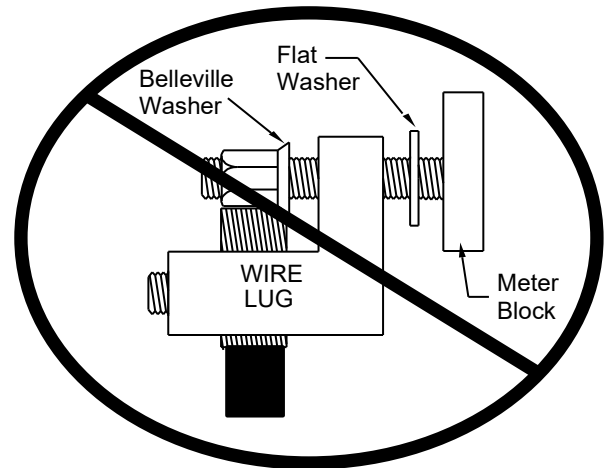
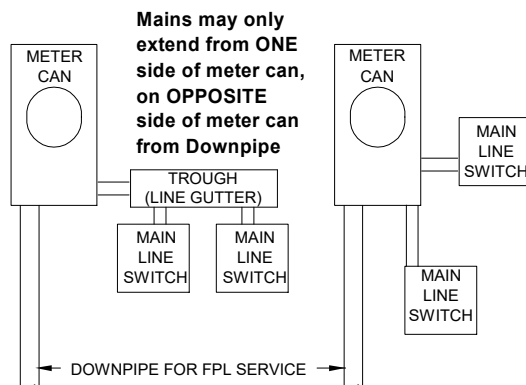
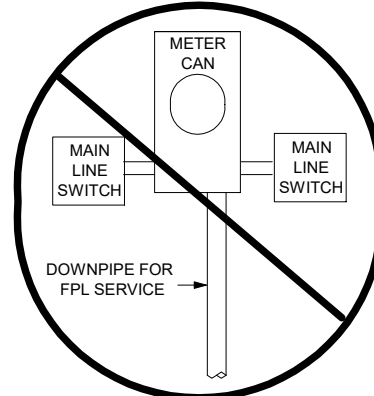
FIGURE IV-9
Lug-Type Meter Socket Installations

**ACCEPTABLE****PROPER INSTALLATION OF WASHERS & LUGS ON LUG-TYPE METER CANS**

Be sure the flat washer is placed between the Belleville Washer and the wire lug. This installation will ensure the maximum surface contact area of the lug and the meter block.

Be sure the wire is placed properly in the lug so it will not interfere with the tightening of the Belleville Washer.

The lug used in the 400 amp (K-7, no new installations – maintenance only) and 600 amp (K-7T) cans must have an anti-rotation ridge as shown. This ridge is not required in smaller cans.

**NOT ACCEPTABLE*******ACCEPTABLE CONFIGURATIONS**********NOT ACCEPTABLE*****

In underground installations, when customer's conductors are parallel, customers conductors **MUST** be kept entirely to one side of the meter can, leaving the opposite side of the meter can unobstructed for FPL's conductor. When load conductors enter through the bottom rear of the meter can they must be kept entirely to one side so not to interfere with the FPL conductor.



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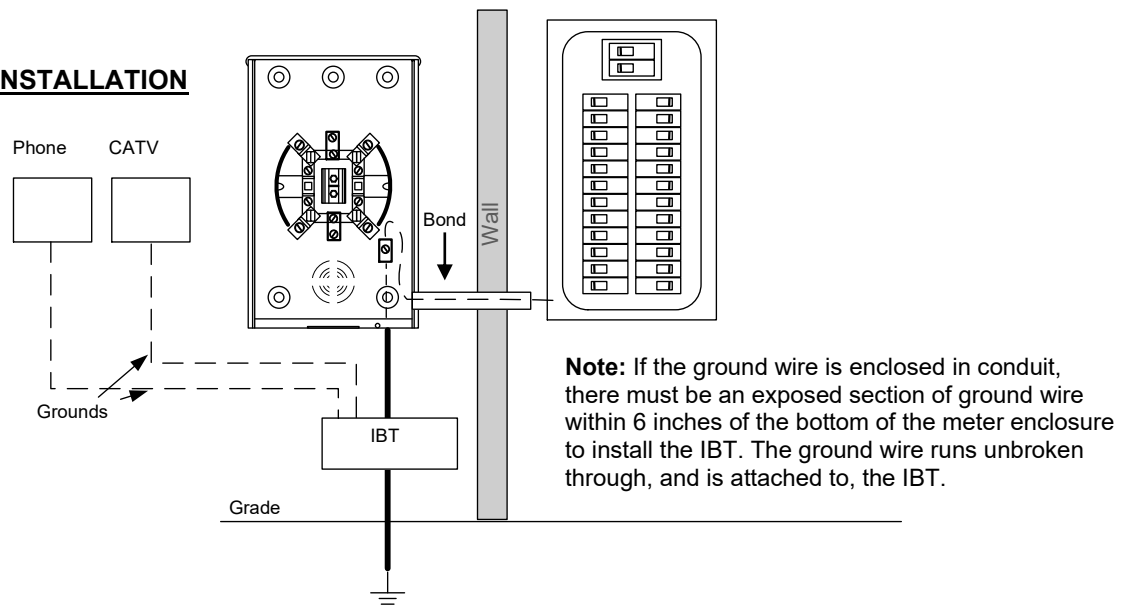
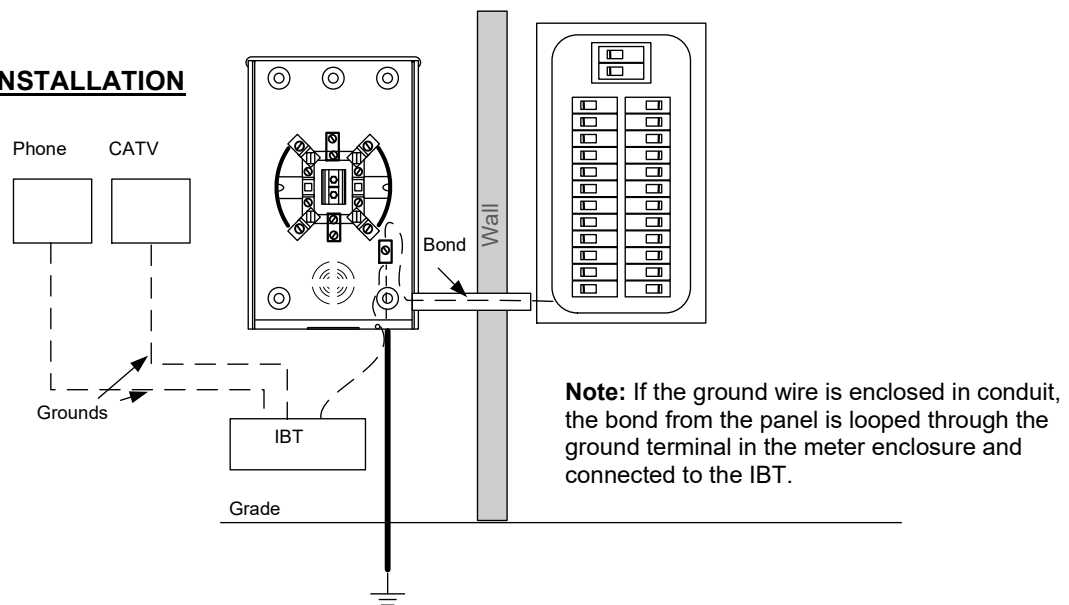
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FIGURE IV-10
Intersystem Bonding Termination

NEC Article 250.94 has been revised in the 2008 Code, thereby affecting all new installations and existing installations where alterations are made. The Code has identified a new device called the **Intersystem Bonding Termination** or IBT. The IBT is defined as "a device that provides a means for connecting communications system(s), grounding conductor(s) and bonding conductor(s) at the service equipment or *metering equipment enclosure** or at the disconnecting means for buildings or structures supplied by a feeder or branch circuit."

PREFERRED INSTALLATION**ALTERNATE INSTALLATION**



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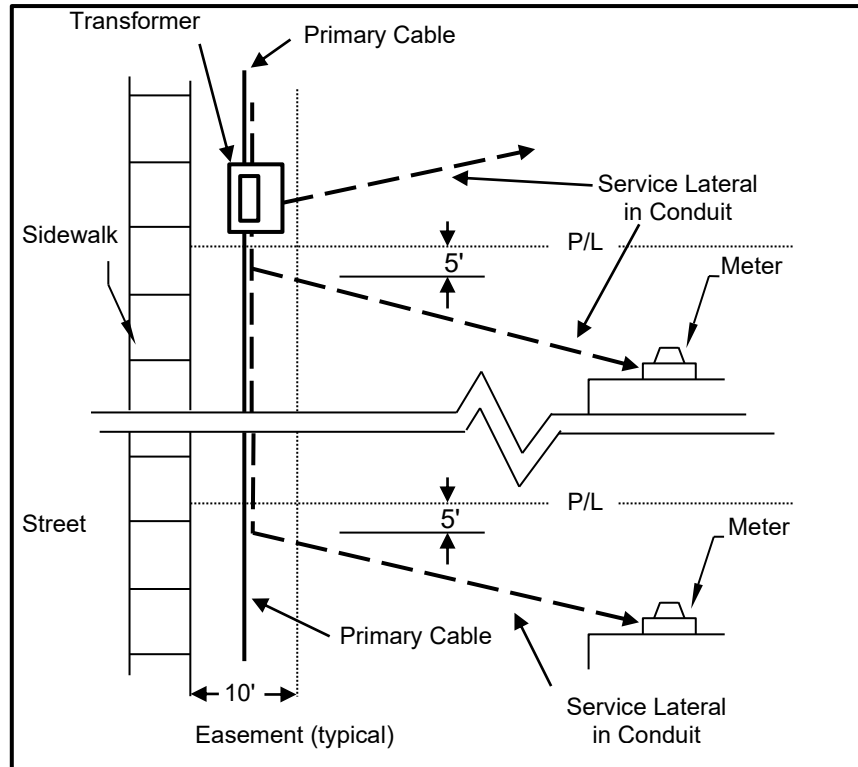
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FIGURE IV-11a
URD System Layout - Typical



NOTES: (APPLICABLE TO FIGURES 11a and 11b)

1. Backfill adjacent to cable must be free of boards, debris, and rocks larger than 1" in diameter.
2. Aim service conduit towards designated source of Company's service. End of conduit must be at least 24" away from any permanent structure (patio, porch, etc.) measured at right angle from the structure. Cap or plug the end of pipe.
3. The service lateral must cross the property line within the limits of the easements and should be in a direct line to meter as nearly as practical. It must have at least 5' horizontal clearance to any swimming pool. If the pool causes the service route to change the customer is responsible to pay for the additional footage.
4. With approval from FPL, slight bends in customer's downpipe may be accepted. Conduit bend requirements from the National Electrical Code Section 346-10 note "the internal diameter of the conduit will not be effectively reduced."
5. With FPL approval, slight variances in customer's downpipe size may be accepted if suitable adapter fitting is also provided by the customer. For example, 2-1/2" downpipe may be accepted if adapter to FPL 2" PVC conduit is provided.
6. Conductor sizes shown in tables are for triplex cables.
7. If load conductors enter from the side, entrance must be opposite side of FPL conductors. When two load conduits are used, they must be kept to one side of the can, allowing space for the line conductors. See [Figure IV-9](#). Center position may not be used for the downpipe.
8. Only schedule 80 PVC or galvanized pipe is acceptable in these locations. Where an obstruction exists at the downpipe the customer must extend the service conduit a minimum of 24" past the obstruction. FPL will provide the 90 degree bend if requested. If the customer provides the 90 degree bend it must be a 24" radius bend. **Field Bends are NOT acceptable!**



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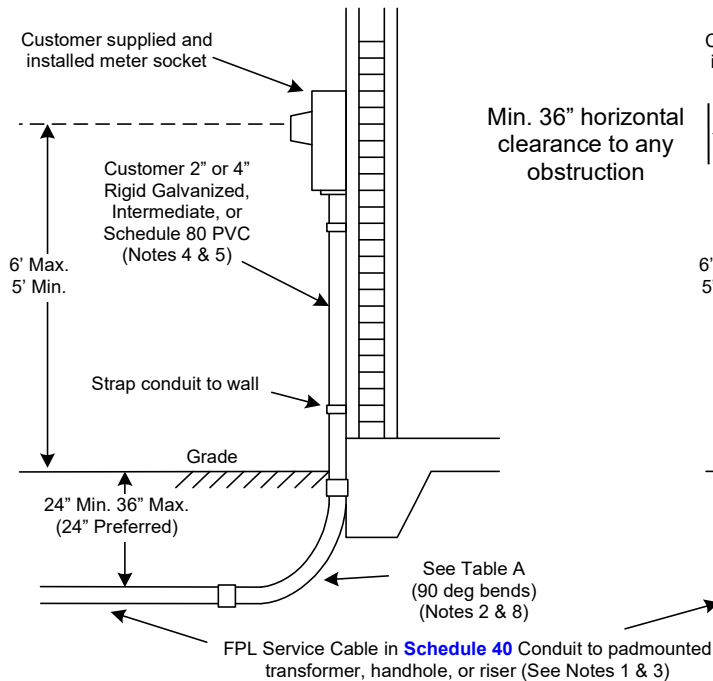
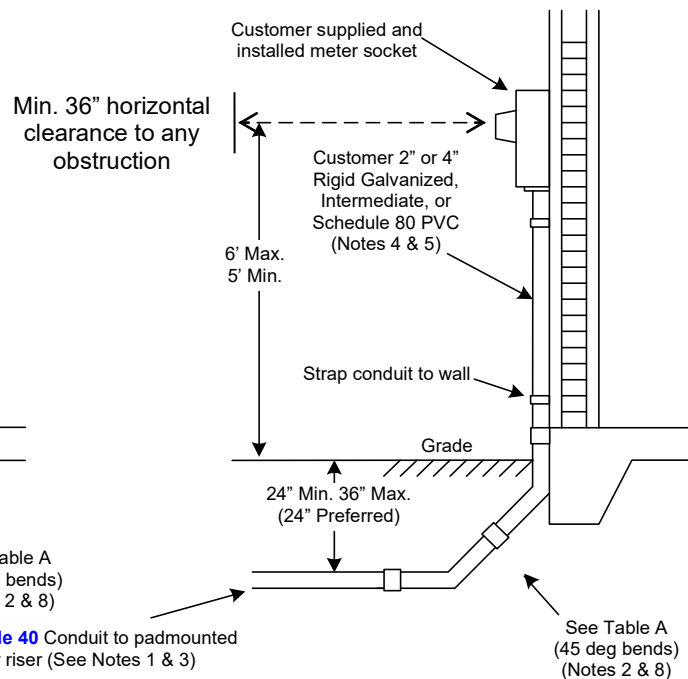
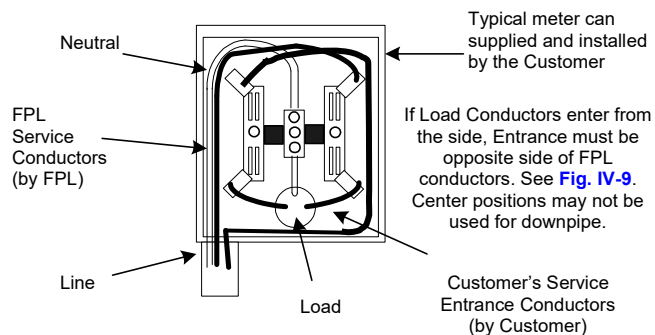
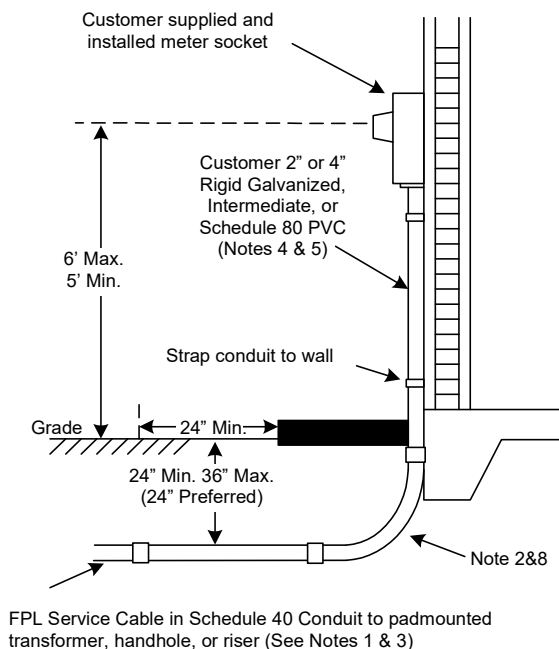
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FIGURE IV-11b

FPL Buried Service Lateral – Meter Socket & Down Pipe Requirements

(references to notes shown in [Figure IV-11a](#))**PREFERRED METHOD**
(Using 90 degree bends)**ALTERNATE METHOD**
(Using 2-45 degree bends)**EXTENDING CONDUIT 24" BEYOND OBSTRUCTIONS****IMPORTANT** – Please distinguish between Overhead and Underground (URD) meter sockets when purchasing. (See FPL Approved List in [Section VII](#)).

Note: If FPL Service Conductors (line side) are parallel #4/0 triplex, then the customer shall provide and install connectors designed for multiple conductors in the meter socket.

Table A – Galvanized or Schedule 80 PVC

Wire Size Cu or Al	Downpipe	90 Degree Bends		45 Degree Bends	
		Bends	Radius	Bends	Radius
1/0 or 4/0	2"	(1) 2" – 90	24"	(2) 2" – 45	18"
2 – 4/0	2 – 2"	(2) 2" – 90	24"	(4) 2" – 45	24"
2 – 4/0	4"	(1) 4" – 90	36"	(2) 4" – 45	24"



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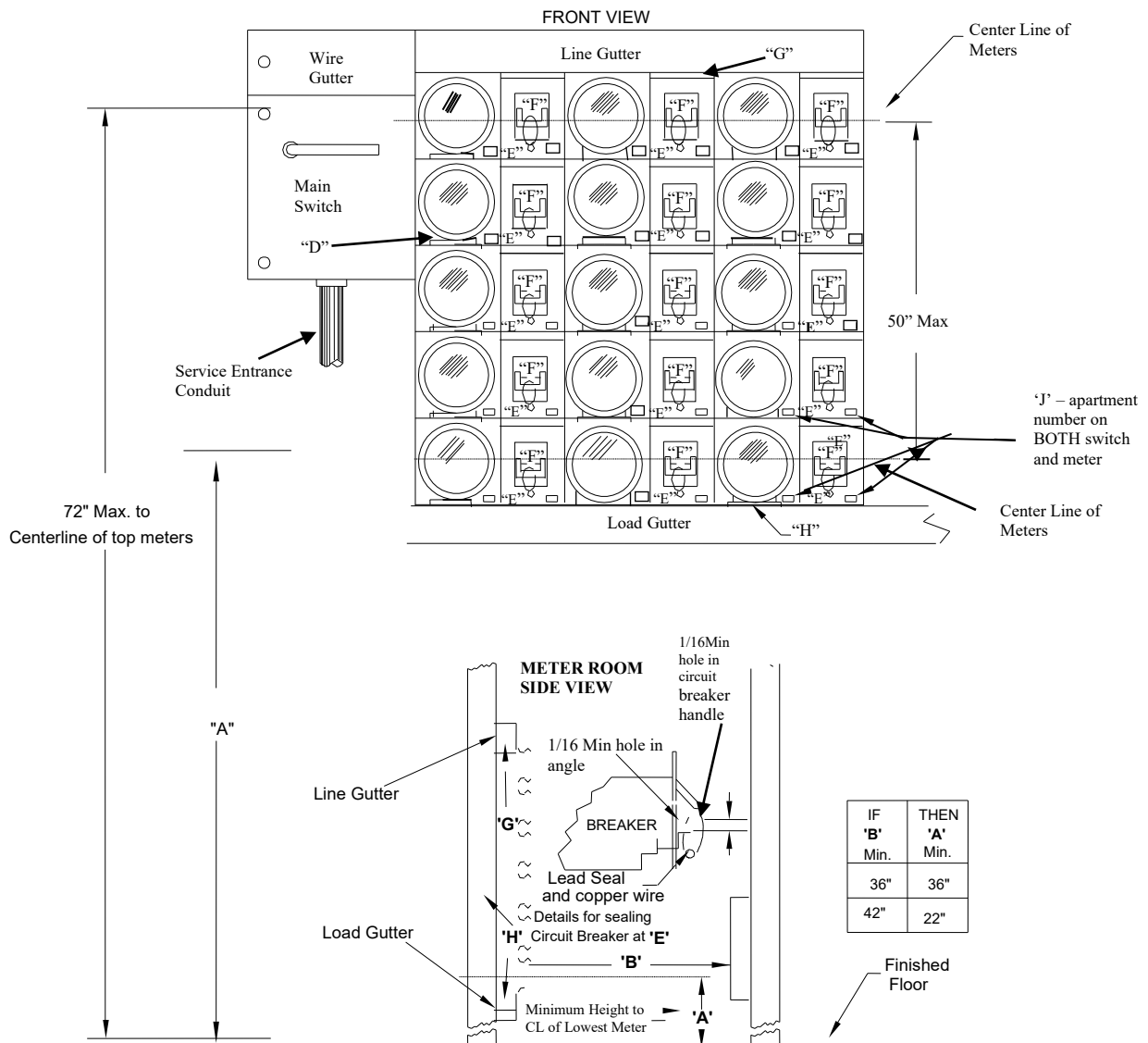
IV. SERVICE and METER CONNECTIONS

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FIGURE IV-12b
Residential Multiple Occupancy Buildings - Multiple Meter Center
FIGURE IV-13a
Remote Meter Location, Typically used for Service to a Mobile Home

Multiple Meter Center must appear on the Approved List

*Residential Application Shown



'B' - Horizontal clearance of meter face to opposite wall or equipment thereon.

'D' - Approved captive screw-type sealing ring when socket is ring type. (Maintenance Only)

'E' - Provision for sealing each breaker 'F' in off position.

'F' - Common trip load breaker for each unit. Breakers are preferred on load side of meter socket.

'G' - Fiber or metal barrier at these points to separate line wires from metered circuits.

'H' - Fiber or metal barrier at these points to separate metered circuits from line busses.

'J' - Permanent and weatherproof/UV resistant placard with engraved letters must be placed on both meter and breaker face plates. Also, mark the inside of the enclosure when possible to do so.

'I' - Fifth terminal to be provided when used on 120/208 volt three wire, and is acceptable only in the 9 O'clock position as shown.

* Non-residential and 3 phase applications require lever by-pass, jaw tension/release socket blocks



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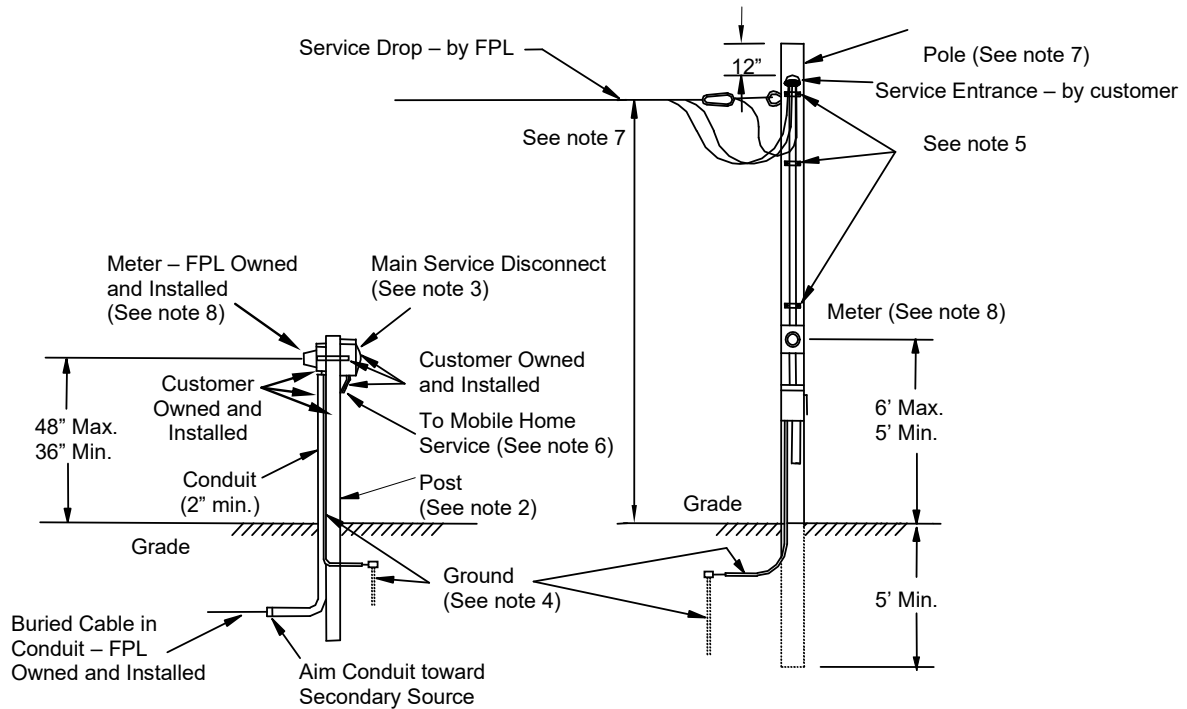
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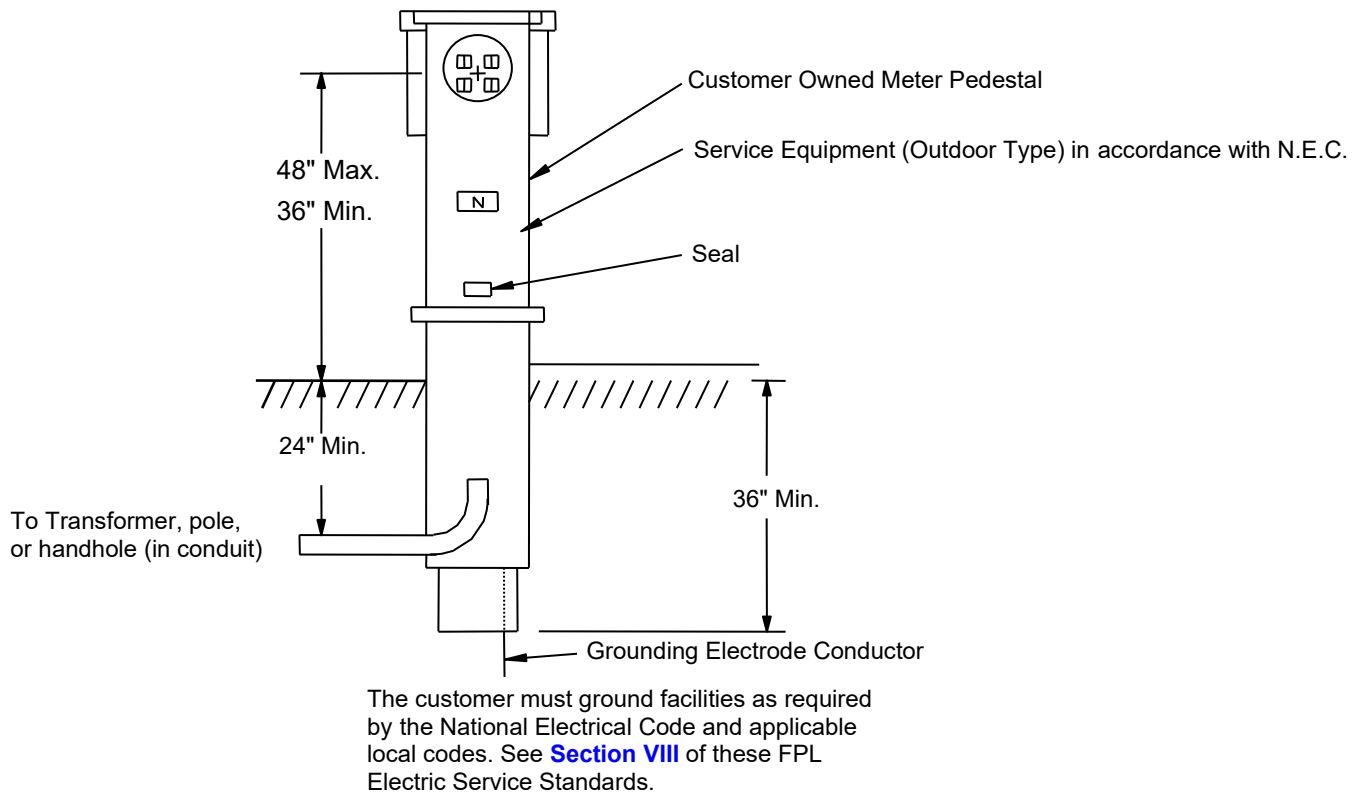
1. Space under meter socket on post to be reserved for conduit.
2. Post to be constructed of reinforced concrete (5"x5"), fiberglass (6"x6" minimum), pressure treated wood (4"x4" minimum), 2" galvanized steel pipe with concrete encasement below ground level.
3. Circuit breaker or main service fused disconnect (outdoor type) National Electrical Code.
4. The customer must ground facilities as required by the National Electrical Code and applicable local codes (refer to section VIII of this FPL Electric Service Standards issue).
5. Customer will install a sufficient number of conduit straps to properly secure conduit to pole.
6. Customer service may be run underground in conduit from bottom of main switch.
7. Customer's class 6 minimum pressure treated wood pole, or equivalent, set a minimum of 5' deep. Must provide minimum service drop clearances shown in **Figure IV-5**. Maximum attachment height of 16 feet above grade if not accessible to bucket trucks.
8. Meter - Furnished and installed by FPL. Meter socket furnished and installed by customer.
9. Service attachment may be made above the weatherhead (max 24") if impracticable to attach below. (maintain Drip loop)

Class Chart for Douglas Fir and Southern Yellow Pine Poles

Length	Minimum circumference at top		Minimum circumference 6' from butt	
	Class 6	Class 7	Class 6	Class 7
20'	17"	15"	21"	19.5"
25'	17"	15"	23"	21.5"
30'	17"	15"	25"	23.5"
35'	17"	15"	27"	25"

FIGURE IV-13b
Pedestal Service - Customer Provided Meter Pedestal (typical)

Meter pedestal must be rigid enough to withstand force applied when meters are installed.



Notes:

1. Meter pedestal must be on FPL's approved list, and equipped with standard meter socket.
2. Where FPL is providing the service lateral to the pedestal, refer to [Figure IV-11b](#) for downpipe specifications.
3. FPL Conductors may terminate in customer owned pedestal, but are not to be looped in and out of pedestal.
4. Meter pedestals may be used for residential services or for commercial installations serving non-critical loads. Refer to [IV-A.1](#) for examples.

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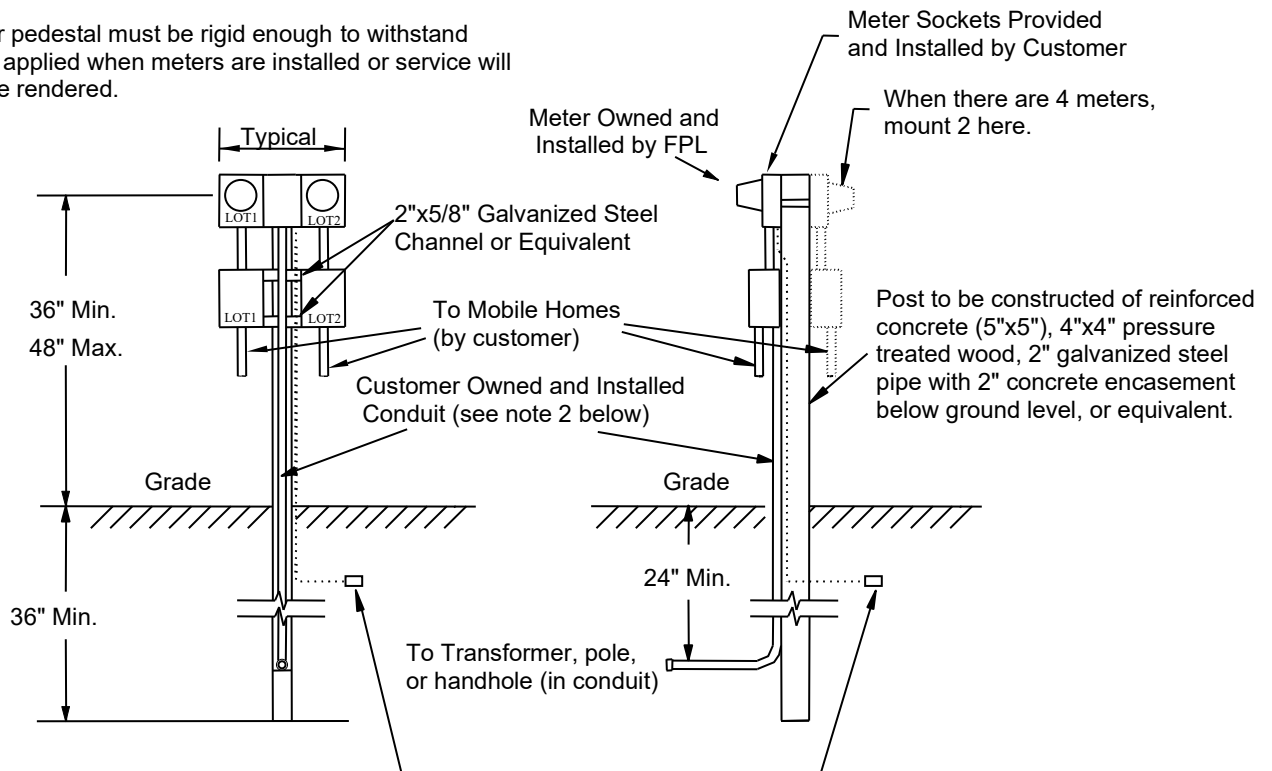
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Design and Standards**IV. SERVICE and METER CONNECTIONS****IV: 25 of 30****FIGURE IV-13c****Mobile Home Service - "Grouped" Service to Mobile Homes**

Main Service Fused Disconnect or Circuit Breaker
(Outdoor Type) sized according to the National
Electrical Code.

Meter pedestal must be rigid enough to withstand
force applied when meters are installed or service will
not be rendered.



The customer must ground facilities as required by
the National Electrical Code and applicable local codes.
See [Section VIII](#) of these FPL Electric Service Standards.

NOTES:

1. Customer must install a permanent and weatherproof/UV resistant placard with engraved letters exterior of meter socket and switch to indicate which unit they serve. Also mark the inside of the enclosure when it is feasible to do so.
2. Where FPL is providing the service lateral to the pedestal, refer to [Figure IV-11b](#) for downpipe specifications.
3. Where FPL is providing the service lateral to the pedestal, a maximum of 4 units is allowed per pedestal.
4. Where FPL is providing the service lateral to the pedestal, FPL conductors will terminate in customer owned pedestal (they'll not be looped in and out of pedestal).



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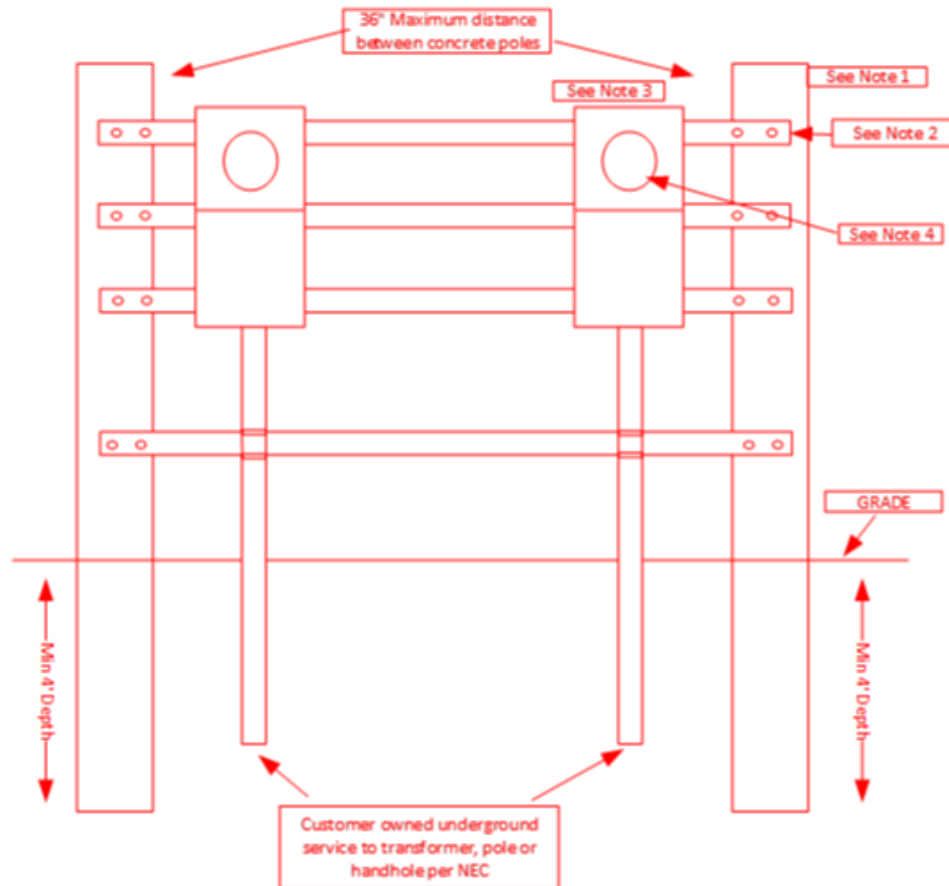
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Customer Provided Multiple Meter Center for Mobile Homes in Coastal Areas from an underground source (Typical)



1. Minimum 10' X 6" concrete reinforced pole, 4' in ground
2. Minimum 2" Galvanized Steel Unistrut
3. Maximum of 4 Meter Cans (2 back to back)
4. Center of Meter between 5' 5" - 5' 0"
5. Space under meter socket on post to be reserved for conduit with customer owned and maintained underground services
6. Circuit breaker, main service fused disconnect and customer grounds per National Electric Code (NEC) and applicable local codes.
7. Customer to install a sufficient number of straps to secure conduit to Unistrut
8. Customer underground service may run in conduit from bottom of main switch
9. Meter furnished by FPL. Meter can furnished and installed by customer.
10. The same configuration can be used for overhead service



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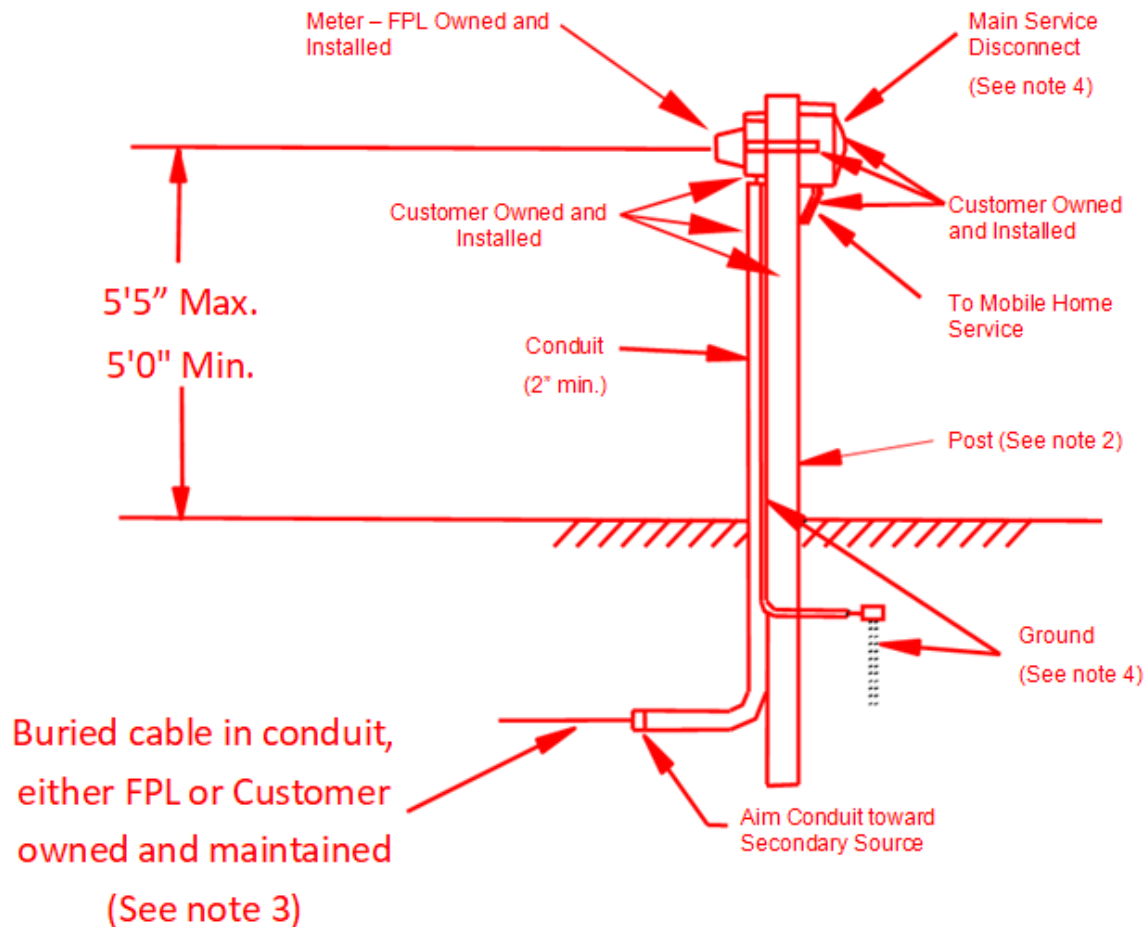
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FIGURE IV-13e

Customer Provided Meter Center for Mobile Homes in Coastal Areas from an underground source (Typical)



1. Space under meter socket on post to be reserved for conduit
2. Minimum 10' X 6" concrete reinforced pole, 4' in ground
3. FPL or Customer owned and maintained underground service
4. Circuit breaker, main service fused disconnect and customer grounds per National Electric Code (NEC) and applicable local codes.
5. Meter furnished by FPL. Meter can furnished and installed by customer.

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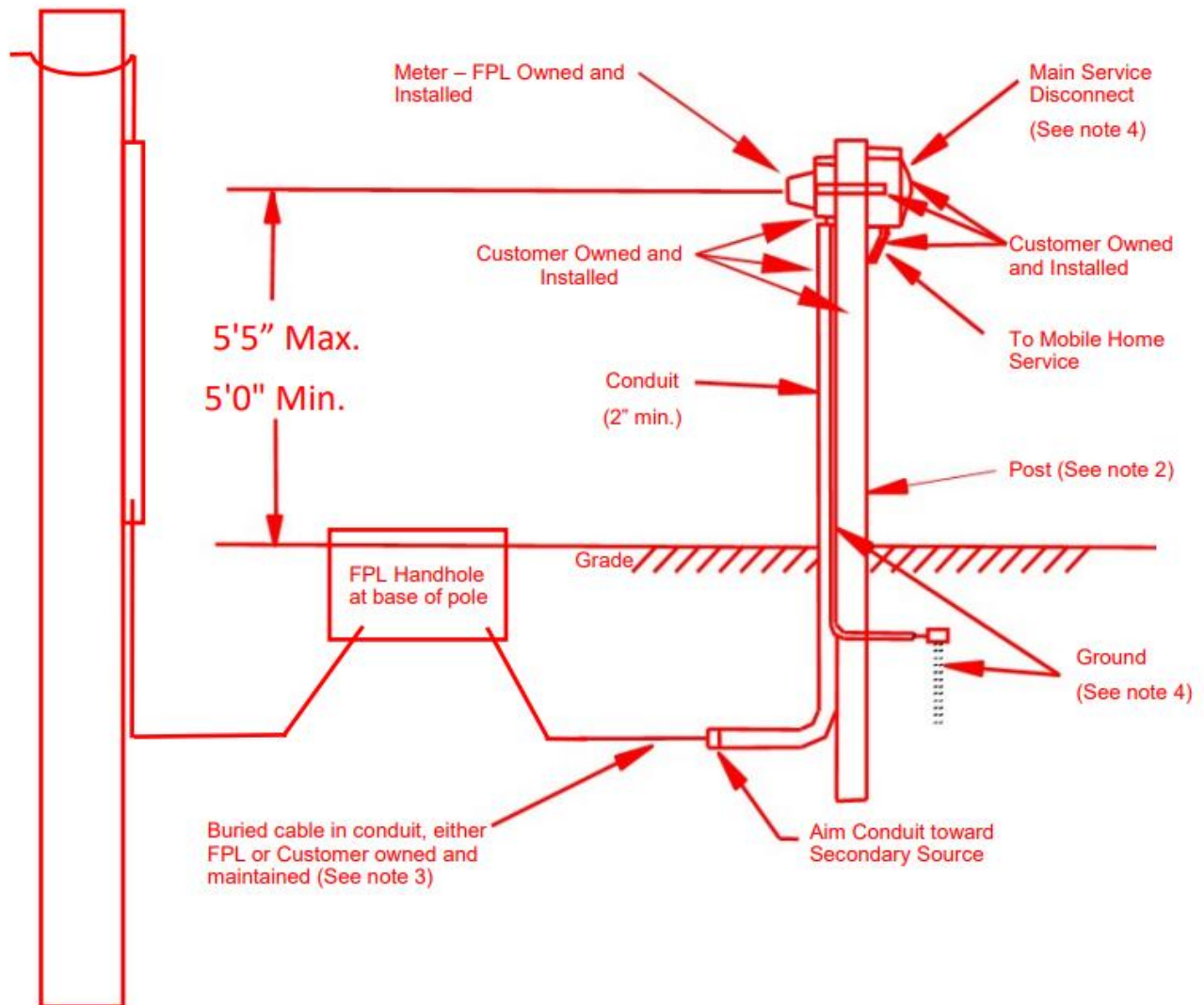
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IV. SERVICE and METER CONNECTIONS**IV: 28 of 30****FIGURE IV-13e****Customer Provided Meter Center for Mobile Homes in Coastal Areas from an Overhead Source (Typical)**

1. Space under meter socket on post to be reserved for conduit
2. Minimum 10' X 6" concrete reinforced pole, 4' in ground
3. FPL or Customer owned and maintained underground service
4. Circuit breaker, main service fused disconnect and customer grounds per National Electric Code (NEC) and applicable local codes.

5. Meter furnished by FPL. Meter can furnished and installed by customer.

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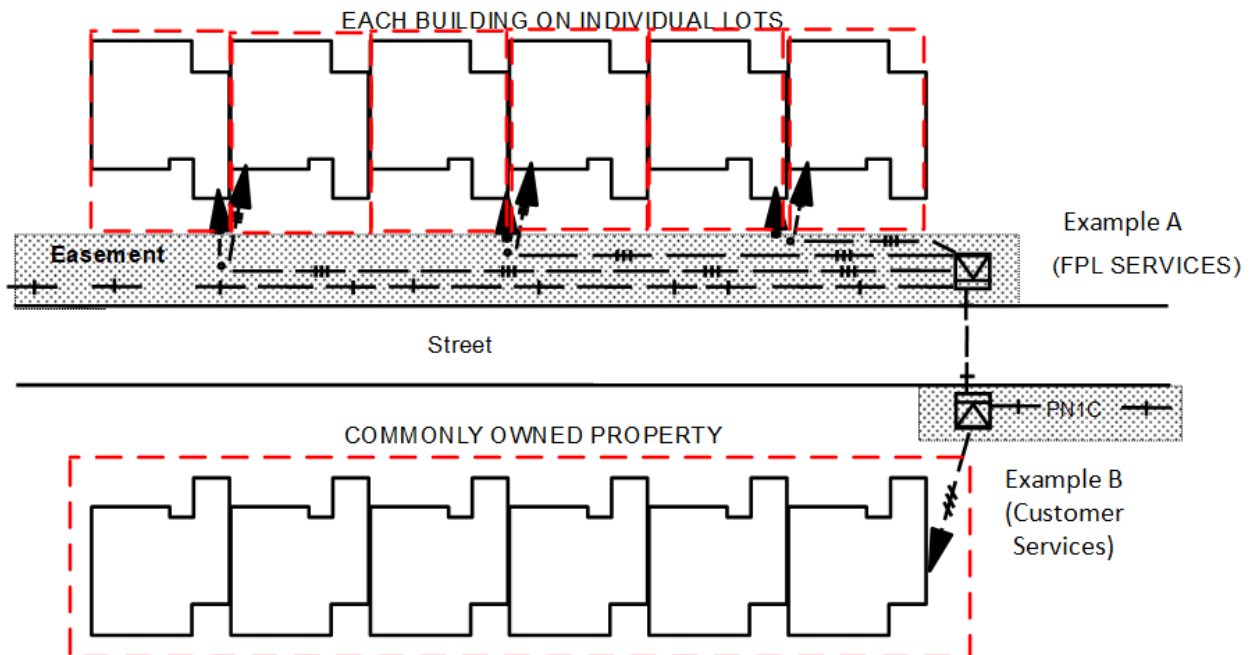
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FIGURE IV-13f
Townhome Service Conditions



Example A – Units are on individual lots At the builder's request, one service lateral allowed for each unit, providing that the units are separated by firewalls. Density is based on the number of dwelling units per acre, OR, the builder can installed customer owned service(s) as described in the multi-occupancy building Tariff since there are more than 5 units per building.

Example B – Units are on commonly owned land Builder installs customer owned service(s) to FPL designated point of service (in this example, since there are more than 5 units per building multi-occupancy Tariff would apply).

1. FPL will not run and own service laterals to gang meter cans that have more than 4 dwelling unit meters.
2. FPL will not run FPL owned service to a raceway/wireway/gutter.
3. Applies to Example A only -to receive FPL owned service for individual metering, the meter can must be located on the front of the home that meter will serve.
4. FPL will only install one service lateral per lot
5. Meters in gang configurations must be labeled with permanent and weather/UV resistant placard with engraved letters on both the meter can and breaker.

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FIGURE IV-14

Identification of Customer Cables**DIRECT BURIED AND CABLE IN CONDUIT SYSTEMS**

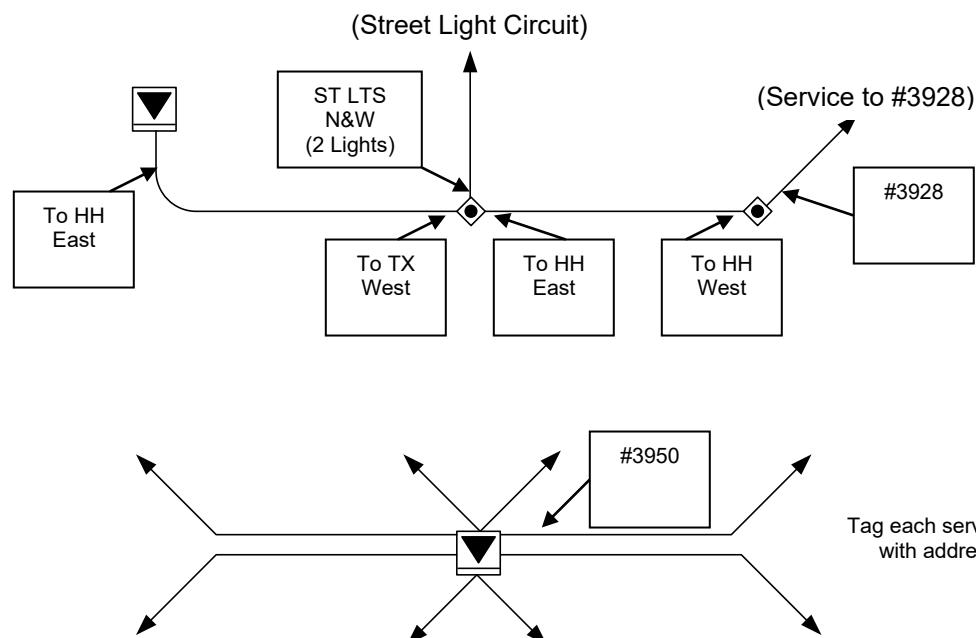
Use plastic tags as shown in Figure 1 for customer identification at locations that will be subjected to sunlight, such as risers, and also in URD applications for identifying services, such as padmounted transformers and handholes. Plastic tags should have a clear, UV resistant flap to reduce fading and weathering. Use indelible (permanent) marker, and allow 10 seconds drying time to prevent smearing before adhering flap. Fasten tag to cable using plastic tie wraps. Blank tags are available upon request.

Figure 1: Service Tag

○ ○	
ADDRESS _____	
Customer Owned	
DATE _____	CREW # _____
INSTALLER _____	
FPL/CONTRACTOR _____	

2 ½"

2 ½"

Example of proper service tagging:



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V. REQUIREMENTS FOR TRANSFORMERS SITUATED ON CUSTOMER PROPERTY

A. Padmounted Transformer Requirements

Complete requirements are contained in FPL specifications given to Customers for individual projects. Typical pad mounted transformer requirements include, but are not limited to the following:

The Customer Will:

- provide a transformer pad location per FPL specifications. Transformers should be installed at least 15 feet from doors and windows. If this is unachievable, the absolute minimum distance is 5 feet. Transformer installations between 5 and 15 feet must be approved by FPL Design and Standards;
- transformer pad locations are not to be located inside of parking garages or other structures. The location must remain accessible to truck for future maintenance and operations. If FPL equipment is to be located inside of a structure it will need to follow the vault specifications laid out in section B. Pad locations need at least a 20' vertical clearance from the top of the pad mounted equipment to any other structure;
- transformer pad location shall be at level final grade or, at minimum, top of pad should be above the crown of the road and not located in an area subject to flooding;
- transformers shall be located a minimum of 10' away from any liquefied petroleum gas tank, such as a propane tank, as specified by NFPA 58;
- transformer pad location shall be at level final grade, with subgrade compaction done in lifts not exceeding 6". Final grade should be thoroughly compacted with vibratory plate compactor;
- pour and cure the concrete pad according to FPL specifications, or install the FPL supplied pre-cast pad;
- maintain access to FPL to padmounted equipment located on the Customer's property (eight feet of clearance from the door side and three feet of clearance from other sides from items such as fences, shrubs and other obstructions are to be maintained by the Customer, as shown in **Fig. V-1**. FPL will help plan the Customer's installations of fences, shrubs, etc. near FPL facilities such that they will not obstruct access or cause damage to FPL's facilities. Where adequate access to FPL facilities is maintained, faster service restoration is made possible in the event of a power interruption.);
- provide suitable barriers, if specified by FPL, to protect the padmounted transformer and associated metering equipment from vehicular traffic;
- FPL requires a minimum easement of 10' for conductor, 10' x 10' for single phase pad mount transformers, 15' x 15' for three phase pad mount transformers and 20' x 20' for switchgear. Additional easement may be required depending on installation, field conditions and other equipment;
- clear trench route, have to grade, as specified in [section II.E](#);
- conform to the requirements of the National Electrical Code and applicable local codes (approval from the local inspecting authority shall be provided to FPL before FPL will connect service).
- bring the service entrance conductors out to the transformer, installed in accordance with National Electrical Code requirements, leaving adequate cable, as determined by FPL, for FPL to make connections in the transformer, the number of cables limited as shown below:



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FPL Will:

- provide transformer specifications to the Customer;
- determine if a secondary connection cabinet will be required;
- provide and install the transformer, the concrete pad (if applicable), and the primary cable and conduit.

If only one, single-meter Customer is served (greater than 600 amps in FPL or greater than 400 amps in FPL Northwest), and no future additional meters will be connected, current transformers may be placed in padmounted transformer before the Customer's service is tapped to its secondary. This would avoid the need for a current transformer cabinet. However, the meter socket and connecting conduit shall still be installed by the Customer. The meter socket will not be mounted on the padmounted transformer. The location of the meter socket will be specified by FPL.



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Transformer KVA	Secondary Voltage	Max. Number of Conductors	Max. Conductor Size	Max. Number of Conduits & Sizes
25 – 100 (Low Style)	120/240V	8 sets	4/0	8 – 2" Max
50 – 167 (High Style)	120/240V	8 sets	500 KCMIL	8 – 2" Max 6 – 3.5" Max 4 – 4" Max
25- 75 (Northwest Region Only)	120/240V	8 Sets	350KCMIL	8 – 2" Max
100 – 167 (Northwest Region Only)	120/240V	8 sets	500 KCMIL	8 – 2" Max 6 – 3.5" Max 4 – 4" Max
150 – 500**	120/208V 277/480V	8 sets <750 KCMIL <u>or</u> 8 sets 750 KCMIL AL <u>or</u> 6 sets 750 KCMIL CU*	750 KCMIL	8 – 4" Max
750	277/480V	8 sets <750 KCMIL <u>or</u> 8 sets 750 KCMIL AL <u>or</u> 6 sets 750 KCMIL CU*	750 KCMIL	8 – 5" Max
750	120/208 V	12 sets < 750 KCMIL* <u>or</u> 8 sets 750 KCMIL AL* <u>or</u> 6 sets 750 KCMIL CU*	750 KCMIL	12 – 5" Max
1000	277/480V	12 sets < 750 KCMIL* <u>or</u> 8 sets 750 KCMIL AL* <u>or</u> 6 sets 750 KCMIL CU*	750 KCMIL	12 – 5" Max
1000	120/208V	12 sets < 750 KCMIL* <u>or</u> 8 sets 750 KCMIL AL* <u>or</u> 6 sets 750 KCMIL CU*	750 KCMIL	12 – 5" Max
1500 - 2000	277/480V	12 sets < 750 KCMIL* <u>or</u> 8 sets 750 KCMIL AL* <u>or</u> 6 sets 750 KCMIL CU*	750 KCMIL	12 – 5" Max
1500 - 2000	277/480V	14 sets*	500 KCMIL	14 – 5" Max
2500	277/480V	12 sets < 750 KCMIL* <u>or</u> 8 sets 750 KCMIL AL* <u>or</u> 6 sets 750 KCMIL CU*	750 KCMIL	12 – 5" Max
2500	277/480V	16 sets*	500 KCMIL	16 – 5" Max

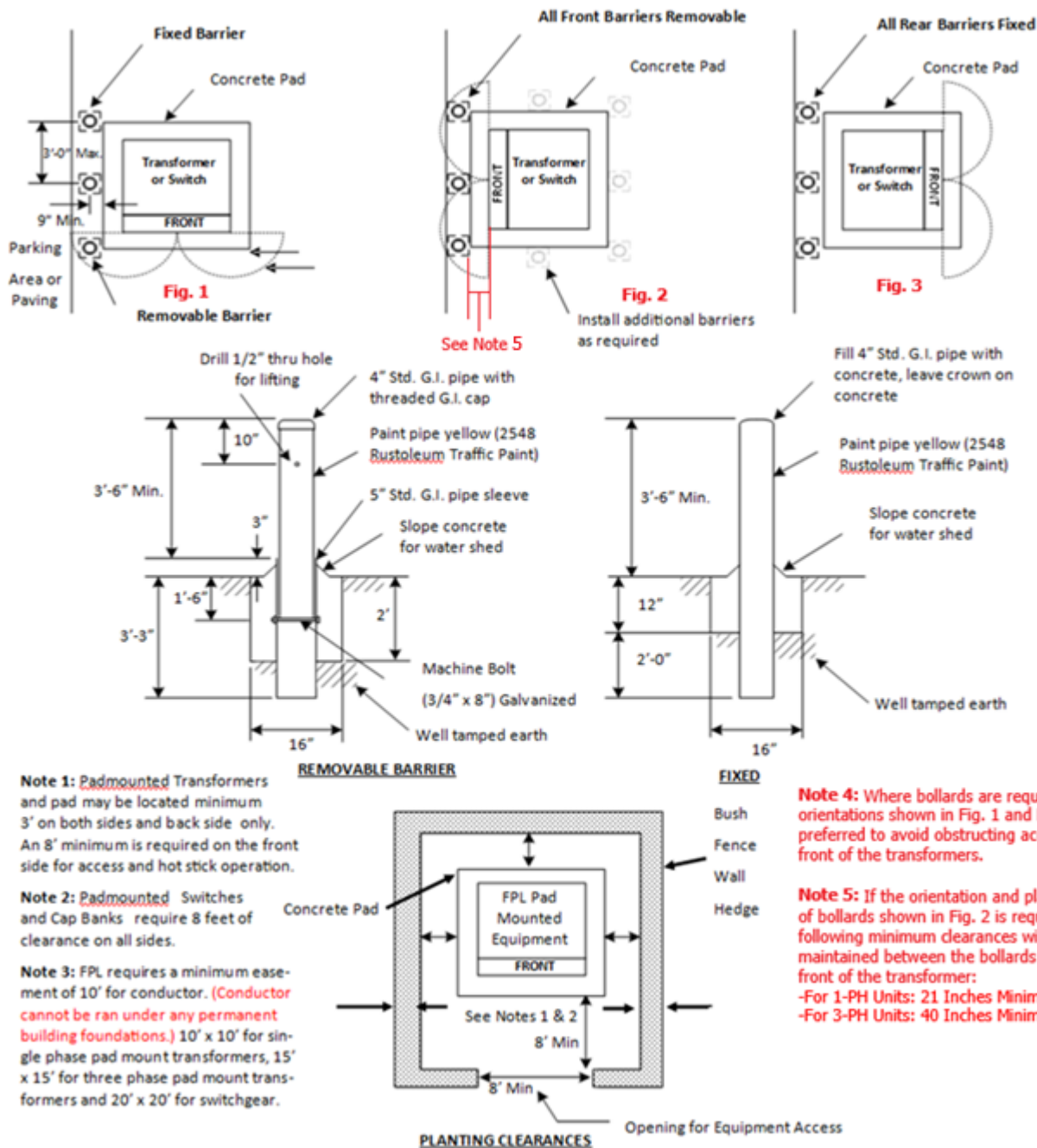
*An FPL provided secondary connection cabinet is recommended for new installations with more than 8 sets of 750 KCMIL AL, more than 6 sets of 750 KCMIL CU, or more than 12 sets of a smaller size conductor.

** If CTs are to be installed inside of the transformer please consult local FPL representative for the max cable size and sets that can be accommodated.

Note: FPL will not upsize transformers solely to accommodate cables size or number of sets.

FIGURE V-1

Protective Barrier and Planting Clearances for Padmounted Transformers and Switches





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B. Vault Requirements

FPL will maintain existing sub-grade vaults but does not allow the construction of new sub-grade vaults. FPL approved grade level vault is required for any additional load from an existing sub-grade vault. If services are removed from the sub-grade vault, the customer will have to be re-fed from a grade level service point. Any major reconstruction may require a new service point to be provided to FPL.

Vaults located in FEMA flood zones “A” or “V” and below base flood elevation level need to follow the additional coastal vault design criteria.

Complete requirements are contained in FPL specifications given to Customers for individual projects. Typical vault requirements include, but are not limited to the following:

The Customer will:

Provide construct and maintain the transformer vault in accordance with applicable codes and FPL specifications, which specify, but are not limited to:

- necessary layout information for such vaults, including the size, location and number of conduits to be stubbed out;
- Customer to stub out ducts as specified beyond the building foundation, as shown on specifications vault drawing (fiber, plastic, or transite ducts shall be enclosed in concrete. Elbows shall have a minimum radius of 36 inches);
- in grade level vaults, Customer will provide 1-1/4 inch plastic conduit sleeves at specified locations through the concrete floor for FPL's ground rods;
- provisions for adequate vault ventilation, as shown (ventilating fans, if needed, will be installed by FPL);
- doors shall open outward, and shall have a hasp for padlocking. A mortise lock option is available for stack vaults only and shall not be used on main vaults. Locks and latches shall be so arranged that the door may be readily and quickly opened from the inside. Doors opening into the building shall be tight fitting and of a type approved for a class A situation (see NFPA No. 80, latest edition). Customer is responsible for maintenance of walls, roof, doors and windows;
- FPL provided, Customer installed pulling eyes opposite each duct entrance. Pulling eyes shall be tied into building steel and capable of withstanding 10,000 pounds tension in direction shown in specifications;
- floors of vault to have adequate structural strength to support the vault equipment;
- drainage facilities provided and installed as required by applicable codes for "Transformer Vaults" (door sill of height as specified, minimum of four inches);
- means of direct access to vault from outside for personnel and equipment, through doors opening outward (if this cannot be done, special arrangements shall be agreed on for moving personnel and equipment into and out of the vault. These arrangements shall be included in an addendum to the standard specifications); The location must remain accessible to truck for future maintenance and operations.
- if metering current transformers are located in the vault, Customer shall provide a continuous 1-1/2 inch metallic (threaded bushing on ends) or schedule 80 PVC conduit (without condulets) from the meter socket or cabinet to the inside of the vault wall (no metering equipment except instrument transformers are to be in the vault. Maximum distance of metering devices from conduit termination in vault to be ten feet, or FPL approved distance) with a maximum of 2 – 90 degree bends;



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- special restrictions (no pipes for sanitary plumbing, water or gas supply or for any other purpose foreign to the vault installation shall pass through the transformer vault; no toilets or wash basins shall be installed in the vault; any conduit or piping required in connection with sump pumps or other necessary equipment shall be insulated electrically from the exterior of the vault; vaults shall not be used for storage, nor for any other purpose than to contain and protect the transformers and necessary equipment);

(Note: Customer should submit the vault specifications to the appropriate authorities for their information at time of submitting construction plans for approval.)

- provide and install his service entrance and bring his secondary service conductors into the transformer vault through designated areas only, leaving sufficient cable length in the vault for FPL to connect to its facilities. He will install meter protective equipment, in accordance with vault specifications;
- grant to FPL an easement for the FPL conduit and cables within the Customer's property.
- Additional coastal vault requirements:

Location and Elevation:

- Located away from direct path of storm surge
- All louver opening must be located above BFE+1
- Break-away walls are not allowed

Door and Ventilation

- Solid impact and flood proof double doors
 - ANSI A250.8 - SDI 100 - Extreme Duty - Level 4
 - Gauge NO.14 stainless steel frame and hardware
 - Gauge NO.14 hollow-steel construction
 - Meets ANSI/FM 2510 flood standard
 - 22hr water resistance rating
 - Meets three-hour fire rating
- Louvers openings
 - Min 7ft from the vault floor

Access and Visibility

- Elevated vault must be always visible and have at all times open walking access i.e. access door with stair case not a ship ladder
- Additional access door must be located at the same visible location of the vault

FPL Will:

- provide vault specifications to the Customer;
- where accessible to employment of rapid and customary methods of construction, provide and install conduit from the conduit stubs at the transformer to its facilities;
- provide, install, and connect the primary cable to the transformer vault;
- provide and install the necessary transformer(s) and switching equipment;
- perform all work inside the transformer vault associated with rendering electric service (with the



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exception of pulling customer cables);

- maintain all of its facilities from its pole or manhole to where the Customer's secondary service conductors are connected to FPL's facilities;
- keep the vault locked (FPL will give the Customer escorted access to the vault, when necessary, upon request);
- reserve the right to install the necessary cables, conduit, and other facilities that may be required for supplying service to other Customers from the vault;
- allow only the supply transformers and associated FPL equipment in the vault (No meters or Customer secondary fuses, switches, communications or other Customer equipment are to be installed therein. Secondary devices and meters, however, are to be installed as near the transformer vault as practicable, but not in it).



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C. "Stacked Vault" Requirements

Complete requirements are contained in FPL specifications given to Customers for individual projects. Typical stacked vault requirements include, but are not limited to the following:

The Customer will:

- provide, construct and maintain the vaults in accordance with FPL's specifications, the National Electrical Code and any local building code;
- provide ducts enclosed in at least two inches of concrete, for FPL's primary cables;
- provide soundproofing necessary to contain the noise from transformers, each having a noise level of 45 Decibels. The Customer agrees to take responsibility for any noise problem;
- install non-louvered metal clad doors, with cylinder dead locks, as called for in the specifications. The locks will be provided by FPL, installed by the Customer;
- provide vault ventilation, as called for in the specifications;
- provide adequate structural strength to support 4,500 lbs. for each transformer to be installed in each vault. He will provide, where required by FPL, a 7/8" galvanized pull iron in the ceiling, as near as practical over each duct bank entrance through the floor, for pulling and supporting cables. The pulling iron shall be tied into the building steel and shall be capable of withstanding 10,000 pounds of tension;
- provide a minimum of 4 ft. wide and 7 ft. high unrestricted and unlocked passageway, with a floor capable of supporting 3,500 lbs. concentrated load, from outside the building to each "stacked" vault. Passage through the doorway may be reduced to 42 inches wide by 80 inches high;
- provide an elevator with minimum rated capacity of 3,500 lbs. and minimum clear door opening of 42" wide by 80" high, as called for in the specifications;
- provide and install single phase, 120/240 volt secondary service entrance conductors into the vaults through designated areas only, leaving sufficient cable to reach the point of connection to FPL's facilities;
- not use the vaults for storage, or for any other purpose than to protect the transformers and necessary equipment incident thereto.

FPL Will:

- provide and install all equipment and material in the vault, including lighting fixtures and wiring for this equipment;
- provide and install fans, if applicable as described under "Ventilation" in the specifications;
- provide and install all primary cable in ducts provided by the Customer, in duct runs between "main vault" and "stacked" vaults and between "stacked" vaults;
- maintain all equipment and material installed by FPL.



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VI. METERING EQUIPMENT

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VI. METERING EQUIPMENT

A. Equipment Furnished and Installed by FPL

FPL provides and installs, at its expense, adequate metering instruments to measure the electric service used by the Customer. Usually, only one watt-hour meter per Customer is needed. However, FPL will furnish whatever metering, in its opinion, is required.

Self-contained socket-based meters will be furnished and installed by FPL when the service current is (100, 200 or 320 amps) and the service voltage is 120- 480 Volts. Self-contained K-Base (Bolt-in) meters will be furnished and installed by FPL for service current up to 600 amps maximum*.

Instrument transformers are provided and installed by FPL when the voltage or current exceeds the rating of FPL's standard self-contained meter. Generally, current transformers will be used if the service exceeds 480 amps continuous or 600 amps maximum (320 amps for 480V, 2 wire service)*. Close coordination between the Customer and FPL is required to ensure these instrument transformers are installed at the most appropriate time. **Current transformer design and improper selection can result in inaccurate metering. FPL will not run FPL owned service to any instrument transformer service regardless of residential or commercial. For 120/240 3 phase secondary voltage services (open deltas) current transformers must be placed in a cabinet. For 120/240 1 phase secondary voltage services current transformer maybe placed inside of the padmount transformer if the transformer is a high style.**

***FPL NW Region does not support K-Based meter installations. Self-contained meter applications end at 400 amps**

B. Equipment Furnished, Installed, and Owned by the Customer

All meter sockets (meter enclosures) are to be provided and installed by the Customer and shall be listed on FPL's approved meter enclosure list.

For commercial, self-contained metering, FPL requires meter sockets with lever by-pass capability to eliminate service interruptions on meter changes.

All Instrument Transformer (IT) rated metering equipment enclosures are to be provided and installed by the Customer. These include IT rated meter sockets, wall mounted and weatherhead IT cabinets, and miscellaneous junction boxes/utility cabinets (**Fig. VI-2 thru VI-7**). Refer to FPL Specification 6.3.4 Customer Owned Instrument Transformer Cabinets, Equipment Enclosure & Junction Boxes. For padmounted primary metering, the customer has two options. FPL will provide the metering cabinet and charge the customer the cost of the cabinet, or the customer will provide a padmounted metering cabinet found in FPL's approved meter enclosure list. For primary metering in vaults, FPL will provide, install, and maintain the primary metering cabinet. If the primary metering cabinet needs to be replaced, the customer will be responsible for creating a visual open on their side of the interconnection point. FPL will create a visual open on the utility side.

FPL NW Region only - The Company will furnish meter sockets for instrument-transformer-rated services, including all services rated 600 amps and above. The Company will furnish the current transformers, current-transformer cabinet, and instrument-transformer-rated meter socket. The local Company engineering representative will specify the correct sizes and types of instrument-transformer-rated equipment based on information provided by the customer. The Company will furnish the appropriate equipment to the customer's electrical contractor when authorized by the Company's engineering representative.

In some cases, the Customer might prefer prefabricated, combination socket and disconnect assemblies for multiple occupancy buildings (e.g. apartment or condominium buildings, shopping centers, etc.) as shown in **Fig. IV-12b**, or pedestal mounted equipment for mobile home parks as shown in **Fig. IV-13b**. Such equipment for all three phase and nonresidential installations shall contain lever by-pass, jaw tension/release socket blocks. It shall be the Customer's responsibility to obtain authorization from FPL to



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use this equipment for a particular installation before committing to its use. FPL maintains an approved list of equipment. Information and specifications on any such special meter equipment not on FPL's approved list shall be submitted to FPL for approval before installation. Refer to FPL Specification 6.3.1 Customer Owned Meter Enclosures for Self-Contained Watt-hour Meters and the Approved Metering Equipment Enclosure List found in **Section VII** in this publication.

On all self-contained, metered installations where the service voltage is 480V to ground (320 amperes or less, 2 wire), a non-automatic disconnect device shall be provided and installed by the Customer on the line side of each individual meter. For meter centers, there shall be one disconnect device on the line side of each meter. The disconnect device shall be lockable or sealable by FPL and adjacent to each meter. The Customer-owned non-automatic (no over current protection) disconnect device ampacity must meet all NEC Guidelines. A lever bypass equipped meter enclosure is required and shall be selected from the Approved Meter Equipment Enclosure List.

Meter socket enclosures and CT cabinets shall not be used as raceways for other conductors. Splices of any type are not allowed inside meter enclosures. The conductor must be continuous. Lugs designed for multiple conductors are only allowed on the line side of the meter if the conductors must be paralleled from the FPL source (i.e. - the ampacity of a single conductor is insufficient to serve the load) and the lugs are listed for such use. These lugs shall not be used to provide a source for a second meter enclosure (i.e. - two meter enclosures served from a single service) or to directly connect any customer equipment (i.e. customer generation system or surge protectors). Lugs designed for multiple conductors are allowed on the load side of the meter provided the meter can is UL approved to accept parallel lugs, the total load of the conductors does not exceed the rating of the meter or the service, the lugs have an anti-rotation ridge and are UL listed for such use.

C. Metering Configurations & Approved Equipment

FPL specifies the metering configuration (See **Fig. VI-1**) for each service to be metered. FPL also requires that previously approved enclosures be used for each installation. The Customer is responsible for using the correct and approved enclosures. Failure to do so may result in delay of service and additional expense. The list of approved enclosures (current at the time of this publication) is provided in **Section VII**. If necessary, the most current list of approved enclosures can be obtained from your local FPL representative or online at <http://www.FPL.com/builder>, using the Electric Service Standards link.

D. Location of Metering Equipment

The metering equipment's location will be designated by an FPL representative. The Customer will provide the meter location free of cost to FPL.

1. Sequence in Service Entrance

Where permitted by Code authorities, the metering equipment will usually precede all service equipment. Customer owned step-down transformers shall be installed on the load side of the meter. On the City of Miami Downtown Network Grid only, the service equipment should precede the meter.

2. Located Outdoors

Except where meter rooms are used, all metering installations shall be outdoors, on a vertical wall or other substantial support where the view from the ground is unobstructed. They should be readily accessible to FPL at all times so they may be read, inspected, removed or tested with a minimum of disruption of service to the Customer. The preferable height of the centerline of the meter is five feet, six inches above ground. The maximum distance shall be six feet and the minimum five feet, except meter pedestals for mobile homes may have a minimum height of 36".

The meter location should not be affected by a kitchen discharge fan or other vents, or the drain from a roof gutter or air conditioner, and should be free from vibration. Sockets shall be securely attached to



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the building wall, pedestal, metal rack, or other permanent structure, and aligned so that the meter is both level and plumb (**Fig. IV-7**). Attachment to temporary structures (except for temporary service) or structures subject to early deterioration is prohibited.

When the equipment is exposed to vehicular traffic, FPL may require that the metering equipment be protected by concrete filled 4" steel pipes firmly installed in the ground, similar to those shown in **Fig. V-1**.

3. Located Indoors

When meters are located in a meter room, the room should have adequate lighting and contain only meters and associated equipment, and should remain unlocked so meters are readily accessible. In unusual cases where an unlocked meter room would impose a severe hardship on the Customer, arrangements can be made to furnish keys to FPL so the meters will always be accessible to meter readers. The meter room may then be locked, provided this does not violate any local code or rule. The meter room must not be used for storage. The centerline of the meters should be five feet, six inches above the floor, but when necessary because of grouping may be a maximum of 72" and a minimum of 22".

4. Flood Elevation Standards

If local ordinances require meters to be located at or above base flood elevation, the Customer is responsible for providing and maintaining a means of ready access to the meter (for maintenance and reading by FPL personnel). See **Fig. VI-9**, page 16 of this section for details. Any additional costs incurred by FPL for providing special service to meet the Customer's flood insurance requirements shall be paid by the Customer.

E. Identification of Meters

If a building requires more than one meter, or if the address of the meter can is not immediately apparent i.e. on the side of a building with that permitted address, FPL cannot render service until the meter socket or cabinet and the service equipment have been properly marked to show plainly the location served and the character of the service (**Fig. VI-8**). Multiple meter sockets shall be "rung out" by the electrical contractor and marked with the appropriate unit numbers before FPL will tap the service and set meters. This marking requirement includes IT rated meter sockets. These markings by the Customer should be permanent and weatherproof/UV resistant placard with engraved letters, giving the street number to the door of the premise served or the symbol appearing on the entrance door when this door does not carry a street number. If the meter will be for a service that does not have a formal structure i.e meters in right of way for communication or FDOT the meter and equipment must be labeled with the address on the FPL account. The name of the Customer will not suffice for identification. The meter sockets in multi-unit buildings shall be clearly and durably marked. Mark the exterior of all meter enclosures, the main line switch (when installed adjacent to the meter enclosure), and the inside of the meter enclosure (whenever feasible to do so).

F. Relocation or Upgrade of Metering Equipment

Whenever it is necessary to relocate or upgrade an existing metering installation, the new installation shall be made by the Customer in accordance with FPL and other regulatory standards. The customer shall be responsible for all costs associated with any work or modification to the customer's facilities which causes FPL to have to replace or modify its existing facilities. EAR may apply if new load is being added.

If the existing service is FPL owned and direct buried, FPL will replace the service conductor at no cost when the customer installs FPL issued conduit to the existing point of service. In the cases where the changes require a new point of service, charges will be determined by actual costs and tariffs as applicable.

A definite schedule for the switch-over to the new meter shall be arranged in advance by the Customer so FPL can accommodate the request upon completion of the Customer's electrical work. The new service entrance shall be inspected and approved by local authorities before service can be restored. No energized service entrance shall be left unmetered, and all meters shall be re-identified as to what units they serve. Refer also to **section III.I**.



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G. Load Profile Metering Requirements

Load Profile Meters may be required when the Customer's load exceeds 500 KWD. Solid State Data Recorders (SSDR) are no longer installed for new services. Load Profile Meters in the form of Recorders-Under-Glass (RUG) or SMART meters are the correct equipment to be installed for all new services. Metering equipment enclosures and associated cabinets are provided and installed by the Customer, typically located near the point of metering at the Customer's service entrance (**Fig. VI-7**). Load Profile metering only requires an SJB cabinet if two or more meters are involved in the installation.

The Customer may be required to provide two (2) 3/4" PVC or metallic conduits from the FPL telephone jack cabinet to the point of access to the telephone system. Contact FPL for details.

Both RUG and SMART meters provide one channel of Load Profile recording as well as collect data from up to (2) additional pulse-initiating meters. Two or more meters on a Load Profile installation are combined on one account. In addition to basic Load Profile functions, SMART meters provide Power Quality Monitoring and wireless communication capabilities. SMART Meters may require additional cabinets or junction boxes installed to facilitate the antennas required for wireless communications.

H. Installation of FPL's Metering Equipment in Customer's Switch Cabinets

Installation of CTs in customer's switch cabinets is discouraged and will only be approved if no other location for the CTs is practical. If FPL's equipment is installed in the Customer's switch cabinet:

1. The installation must be approved by FPL prior to the purchase of the customer's equipment.
2. For IT rated metering, the customer shall sign a Hold Harmless Agreement absolving FPL of damage to the switch cabinet during installation or damage caused by failure of the CTs.
3. The CT compartment of the customer's switch cabinet must comply with FPL's Specification for Customer Owned Instrument Transformer Cabinets, Equipment Enclosures and Junction Boxes Spec. # 6.3.4 (available upon request on an "as needed" basis).
4. The meter enclosure/meter socket must be on FPL's Approved Metering Equipment Enclosure List found in Section VII.
5. For both self-contained and IT rated metering, the line-side of the conductors in the switch cabinet must be routed through secured or sealable troughs, conduits, or in such a way to prevent unauthorized taps to be made before the meter.
6. FPL will always provide and install the CTs used in metering the customer.
7. Only FPL approved metering CTs will be used in metering applications.
8. All other rules associated to a proper meter installation (e.g. - meter rings, enclosure covers and meter seals) must be observed.
9. All meter enclosures, cabinets and panels housing FPL equipment must have provisions for sealing.
10. All self-contained meter sockets must be lever bypass type sockets.

I. Illustrations

- FIG. VI-1:** Metering Configurations - Descriptions and Notes
- FIG. VI-2:** CT Metering Configuration 6 - CTs in Padmounted Transformer or Vault
- FIG. VI-2a:** Unistrut Mounting for IT Rated Meter Cans
- FIG. VI-3:** CT Metering Configuration 7, 8, 9 - CT Cabinet Mounted on Wall
- FIG. VI-4:** CT Cabinet and IT Rated Meter Socket - Installation and Bonding
- FIG. VI-5:** CT Metering Configuration 10 - CTs in Weatherhead Cabinet
- FIG. VI-6:** CT Metering Configuration 11 - CTs in Padmounted Primary Metering Cabinet
- FIG. VI-6a:** CT Metering Configuration 11 – Padmounted Primary Metering, Renewable Generation
- FIG. VI-7:** CT Metering Configuration 12 – Load Profile Metering
- FIG. VI-8:** Identification of Multiple Meter Sockets
- FIG. VI-9:** Meter Enclosure Installations in Flood Zones
- FIG. VI-10:** Typical Bus Stub Terminations in Transformer Vaults



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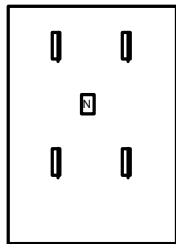
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VI. METERING EQUIPMENT

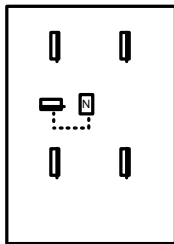
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**FIGURE VI-1
Metering Configurations - Descriptions and Notes**

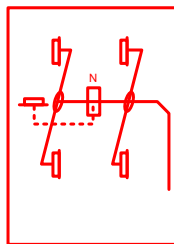
Self Contained Meter Enclosures



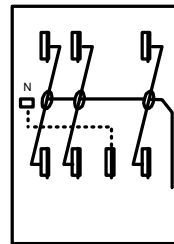
Configuration 1



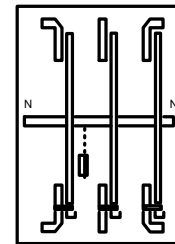
Configuration 2



Configuration 3



Configuration 4



Configuration 5

GENERAL NOTES ON SELF CONTAINED METER SOCKET BLOCK CONFIGURATIONS:

- Configuration 1** - Primarily residential applications. Limited to 320 amp demand. (see Note 1 and Note 2)
- Configuration 2** - Modification of Configuration 1 by adding a 5th terminal in the 9 o'clock position. **5th terminal must NOT be in 6 o'clock position.** To be used with network meters. Limited to 320 amp demand. (see Note 1 and Note 2).
- Configuration 3** - For one phase service requiring bypass device. Limited to 320 amp demand. (See Note 2).
- Configuration 3a** - Modification of Configuration 3 (5th terminal for network meters). Limited to 320 amp demand. (see Note 2)
- Configuration 3b** - Modification of Configuration 3a plus Neutral can be isolated for 3PH, 3-wire applications
- Configuration 4** - For three phase service. Limited to 320 amp demand. (See Note 2)
- Configuration 5** - For one or three phase service. Limited to 600 MAX amp demand. (See Note 3)

- Note 1 - May be used for very small commercial applications, such as billboards, parking lot lights, small pumps and/or pump controllers. Limited to 60 amps for these uses. Consult FPL prior to purchase for commercial uses.
- Note 2 - All three phase and all commercial installations shall have a meter socket with the approved bypass jaw tension/release device (excluding Configuration 5 applications and very small commercial applications referred to in Note 1).
- Note 3 - Maximum wire size is 1-800 MCM or 2-500 MCM per phase. For use on the **LOAD** side, a ridged triple lug is available (Landis & Gyr part #68752-1) that will allow for 3-250 MCM per phase, on the **LOAD** side. For single phase applications leave the center phase unwired.
- Note 4 - In Residential applications where FPL service conductors are paralleled, the customer shall provide and install lugs designed for multiple conductors on the line side of the meter socket.

Instrument Transformer Rated Metering

- Configuration 6** - CTs installed within a padmounted transformer or vault with an IT rated meter socket mounted on a pedestal or wall.
- Configuration 7,8** - CTs installed within a wall or pedestal mounted cabinet with an IT rated meter socket. Cabinet size is determined by number and size of conduits and conductors.
- Configuration 9** - CTs mounted within a custom designed and constructed wall mounted cabinet with an IT rated meter socket. This configuration is for conduit and wire combinations that exceed the capacity of the cabinets listed for configuration 8. Refer to FPL Specification 6.3.4 Customer Owned Instrument Transformer Cabinets, Equipment Enclosure & Junction Boxes. **Consult with an FPL representative before designing this configuration.**
- Configuration 10** - CTs mounted within a weather-head cabinet with an IT rated meter socket. This configuration is allowed only when configurations 1-9 are not possible. **Consult with an FPL representative before designing this configuration.**
- Configuration 11** - Padmounted Primary Metering with IT rated meter socket. **Consult with an FPL representative before designing this configuration.**
- Configuration 12** - Load Profile metering (RUG & SMART Meters). **Consult with an FPL representative before designing this configuration.**



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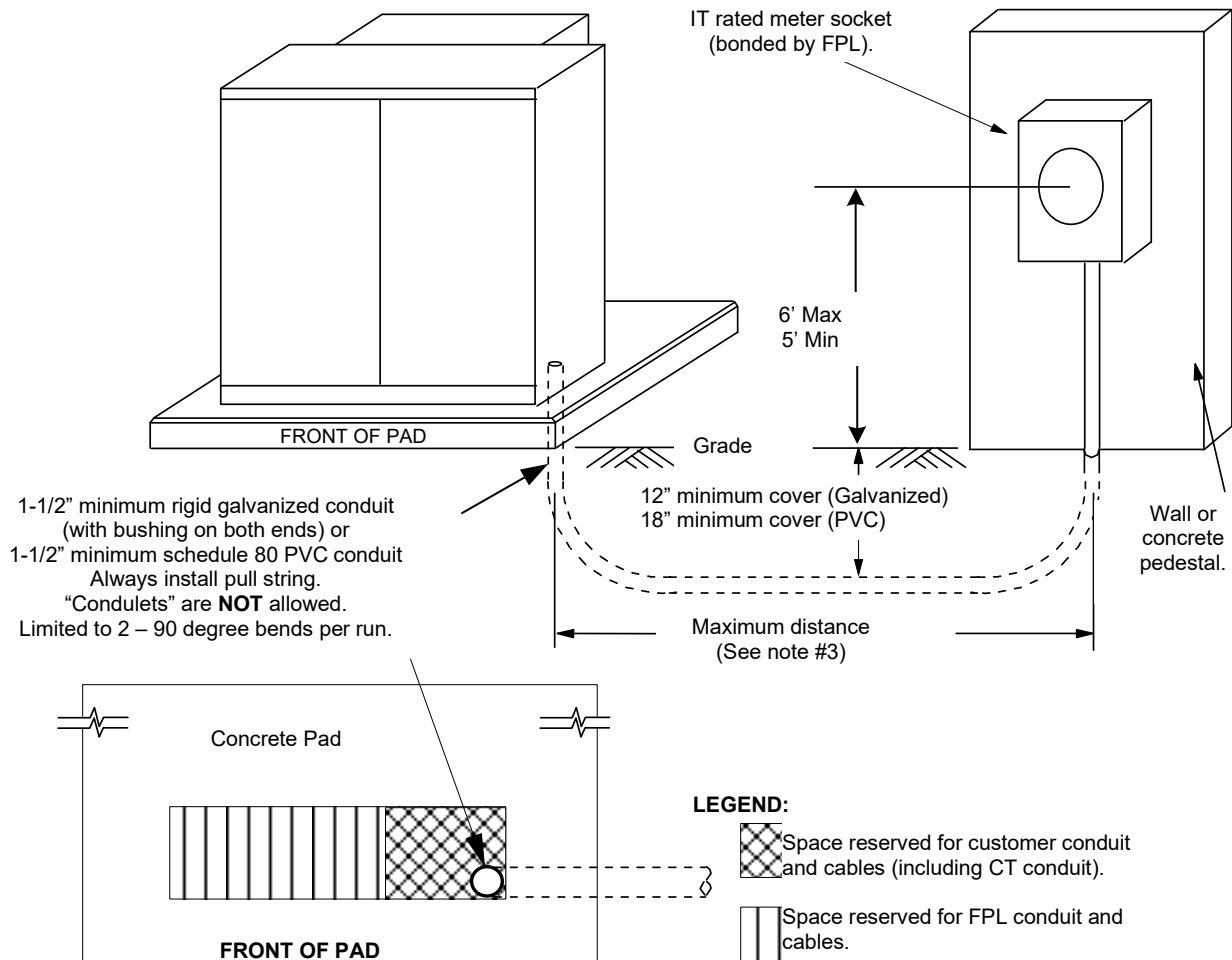
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**FIGURE VI-2
CT Metering Configuration 6 - CTs in Padmounted Transformer**

1. IT rated meter socket provided and installed by customer: ____ 1 ph or ____ 3 ph (check one)
2. Current transformers (CTs) provided and installed in padmounted transformer by FPL.
3. 1-1/2" minimum rigid galvanized or Schedule 80 PVC conduit with pull string installed between meter socket and padmounted transformer provided and installed by customer. Condulets are NOT allowed, and limited to 2 – 90 degree bends per run. **For maximum distance between transformer and meter socket, see table below.**
4. Restricted to one customer per padmounted transformer. Exceptions **must** be approved by FPL.
5. CT ratio determined by FPL.

CT Ratio		Max Amps	Max Distance (feet)	Max Cable Length (feet)
✓	Ratio			
	500:5	1000	10	20
	1000:5	1500	40	50
	2000:5	3000	40	50





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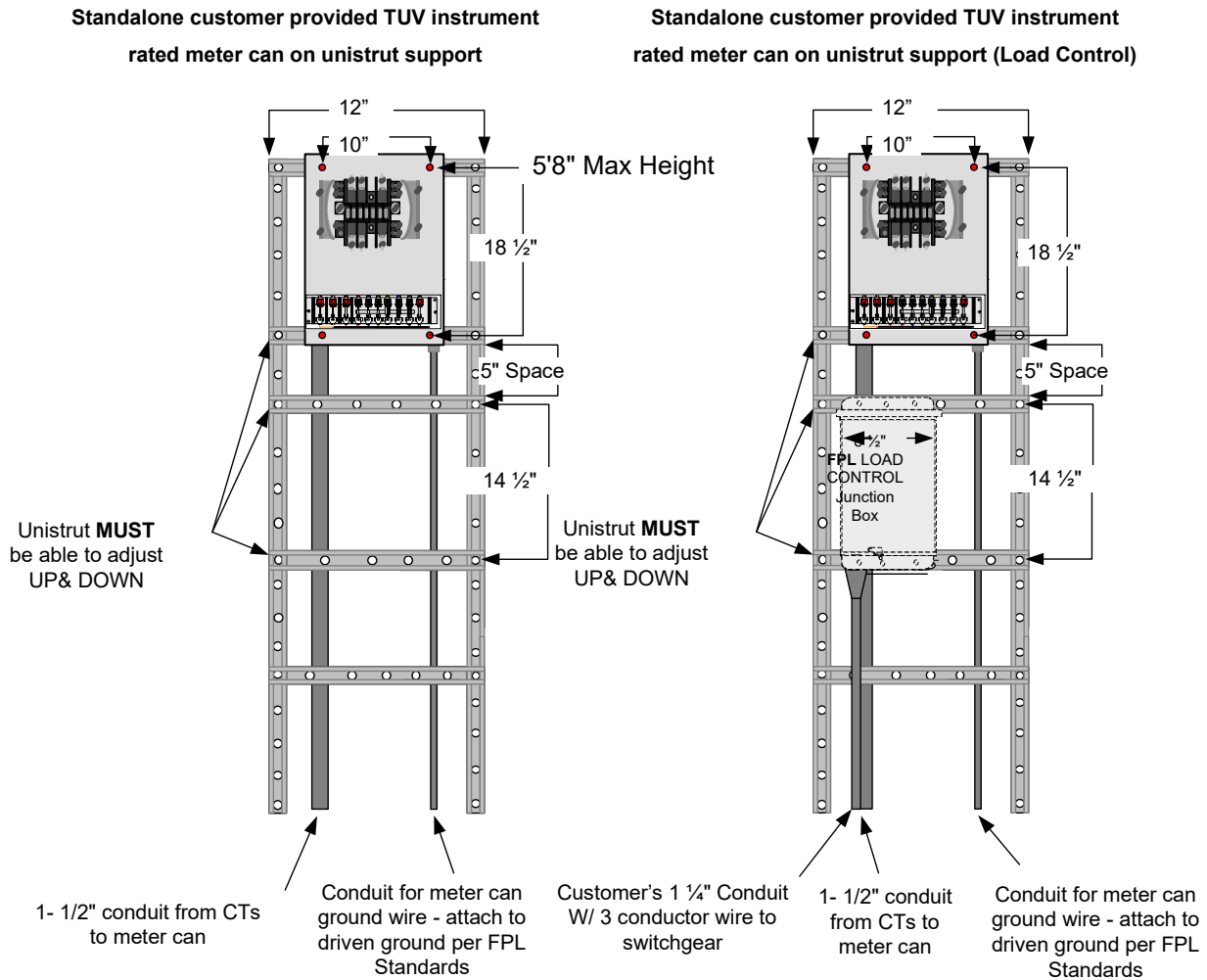
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FIGURE VI-2a

Unistrut mounting for Instrument Rated TUV meter cans (CT metering)



- 1) Meter cans face away from the TX.
- 2) Bury unistrut in ground minimum 3 feet in compacted earth, or 2 feet if encased in concrete
- 3) When applicable, FPL provides and installs the Load Control Junction Box (LCJB)
- 4) Unistrut Requirements:
 - A. Unistrut - Per ASTM Spec. A-123 or A-153, 1-5/8 x 1-5/8", 12 ga., 9/16" dia. Holes spaced 1- 7/8" apart
 - B. To connect the Unistrut Framing use:
 - 3/8 x 1-1/4" electrogalvanized bolts, per ASTM A164
 - Nut w/ spring for 3/8 dia. bolt, electrogalvanized, per ASTM A164
 - Flat Washer - 1" dia. for 3/8" bolt, electrogalvanized, per ASTM A164
 - Lock Washer - for 3/8" dia. bolt, hot-dipped galvanized, per ASTM A153
 - C. To attach cabinets and boxes use:
 - 1/4" x 20 electrogalvanized bolts, per ASTM A164
 - Nut w/ spring for 1/4" dia. bolt, electrogalvanized, per ASTM A164



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VI. METERING EQUIPMENT

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FIGURE VI-3

CT Metering Configuration 6,7, 8, 9 - CT Cabinet Mounted on Wall or Inside a Vault

1. IT rated meter socket provided and installed by customer: _____ 1 ph or _____ 3 ph (check one)
2. Wall mounted current transformer (CT) cabinet provided and installed by customer.
3. 1-1/2" minimum rigid galvanized conduit (with bushings), or 1-1/2" minimum Schedule 80 PVC conduit with pull string installed between meter socket and current transformer cabinet provided and installed by customer. Maximum of 2-90 degree bends, no condulets allowed. **Maximum allowed distance from socket to cabinet is 40 feet.**
4. Window CTs provided by FPL and installed in the CT cabinet by the customer before pulling wire. Ensure the CTs are installed in the correct orientation (indicator dot toward the source).
5. Customer's conductor(s) must run continuous through the current transformer cabinet.
6. Size and number of conductors entering **shall** equal the size and number of conductors exiting.
7. Conduits / Cables must enter / exit opposing corners "AA" to "AA" or "BB" to "BB") as indicated below, within 10" of the cabinet's corner, and **must** be approved by FPL before installation.
8. Configuration 9 is for conduit / wire combinations exceeding the limits of Configuration 8. The cabinet will be custom designed and built by the customer to FPL specifications. **Contact FPL before specifying this configuration.**
9. For general installation and bonding details, refer to [Figure VI-4](#) "CT Cabinet and IT rated Meter Socket Installation and Bonding".

Note: Customer to label meter socket and switch covers with permanent and weatherproof/UV resistant placard with engraved letters. Markings should also be put **inside** meter socket with paint or other permanent durable marker (to prevent confusion if covers are interchanged before service is connected).

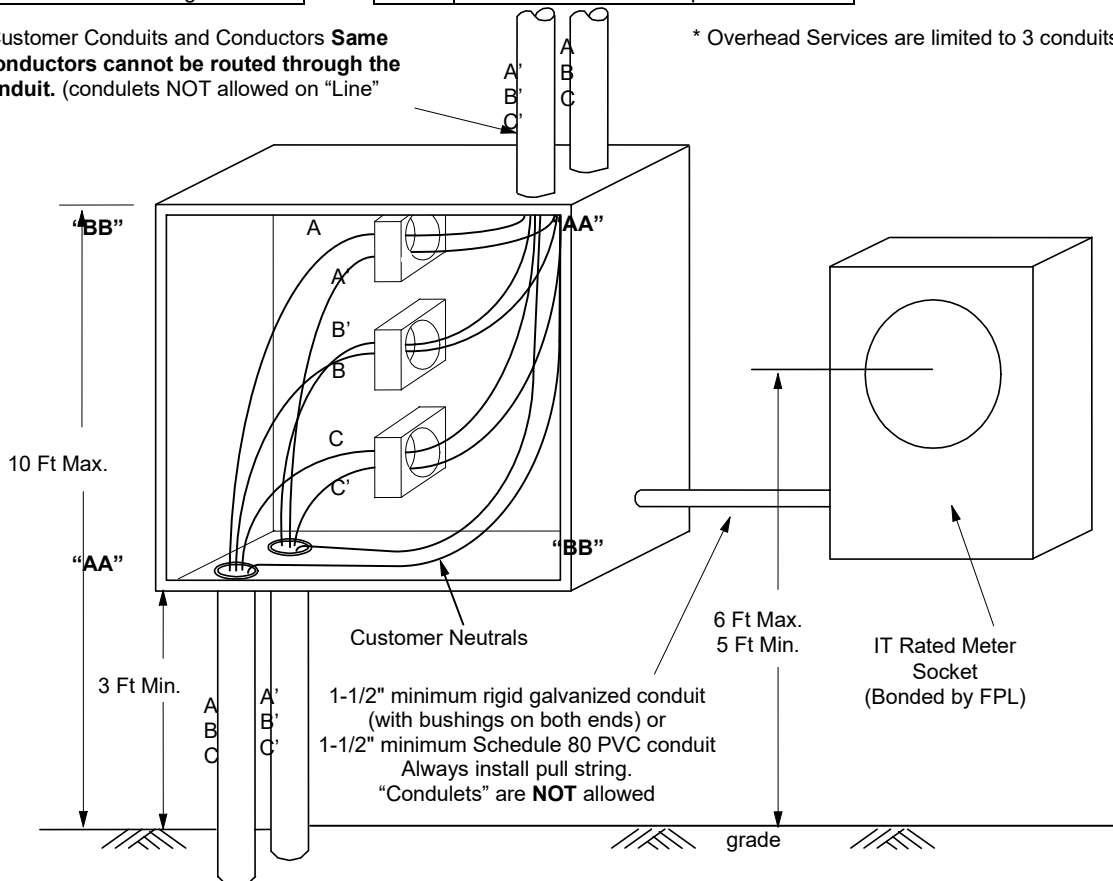
MAXIMUM CONDUCTOR SIZE AND NUMBER			
Conf	Wires per phase	Size Copper MCM	Size Alum MCM
7	2	600	400
8	4	600	400
9	Custom Designed		

MAXIMUM CONDUIT SIZE AND NUMBER			
Conf	Conduit Size	# Conduits Entering	# Conduits Exiting
7	4"	2	2
8	4"	4	4
9	Per Customer Requirements		

CT Ratio			MAX AMPS
✓	Window Size	Ratio	
	Small	600:5	1200
	Interm	600:5	1800
	Interm	1000:5	2000
	Large	2000:5	4000
	Large	4000:5	6000

Typical Customer Conduits and Conductors **Same Phase conductors cannot be routed through the same conduit.** (condulets NOT allowed on "Line" side)

* Overhead Services are limited to 3 conduits



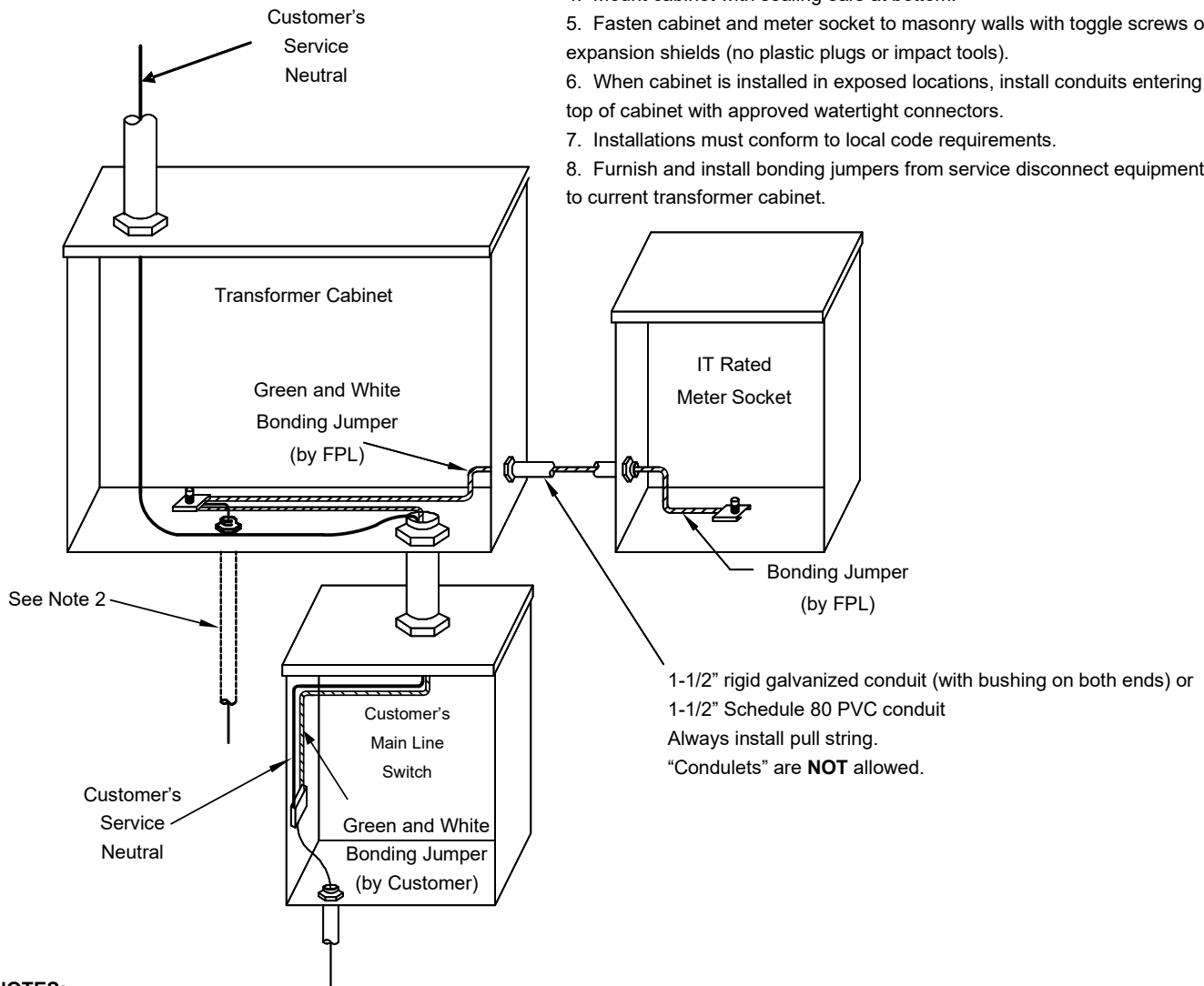
**FIGURE VI-4
CT Cabinet and IT Rated Meter Socket - Installation and Bonding**

FPL Will:

1. Furnish and install the IT rated meter socket bonding wire.
2. Furnish and install the instrument transformers, the wiring from the transformer secondary to the meter, and set the meter.

The Customer Will:

1. Furnish and install the service entrance conduit, conductors, and equipment, including grounds.
2. Furnish and install the IT rated meter socket, current transformer cabinet (when required), and equipment enclosures (when required).
3. Furnish and install any conduit necessary to connect the cabinets and sockets including a pull string.
4. Mount cabinet with sealing ears at bottom.
5. Fasten cabinet and meter socket to masonry walls with toggle screws or expansion shields (no plastic plugs or impact tools).
6. When cabinet is installed in exposed locations, install conduits entering top of cabinet with approved watertight connectors.
7. Installations must conform to local code requirements.
8. Furnish and install bonding jumpers from service disconnect equipment to current transformer cabinet.



NOTES:

1. All IT rated meter sockets and current transformer cabinets to be bonded with #12C bonding jumper (green with white stripe) by FPL. Customer's service disconnect equipment to be bonded to current transformer cabinet with #12C bonding jumper (green with white stripe) by the customer.
2. If the IT rated meter socket or transformer cabinet is mounted on a utility pole, then it is to be grounded per FPL distribution standards.
3. Customer's conductor(s) must be continuous through the transformer cabinet.



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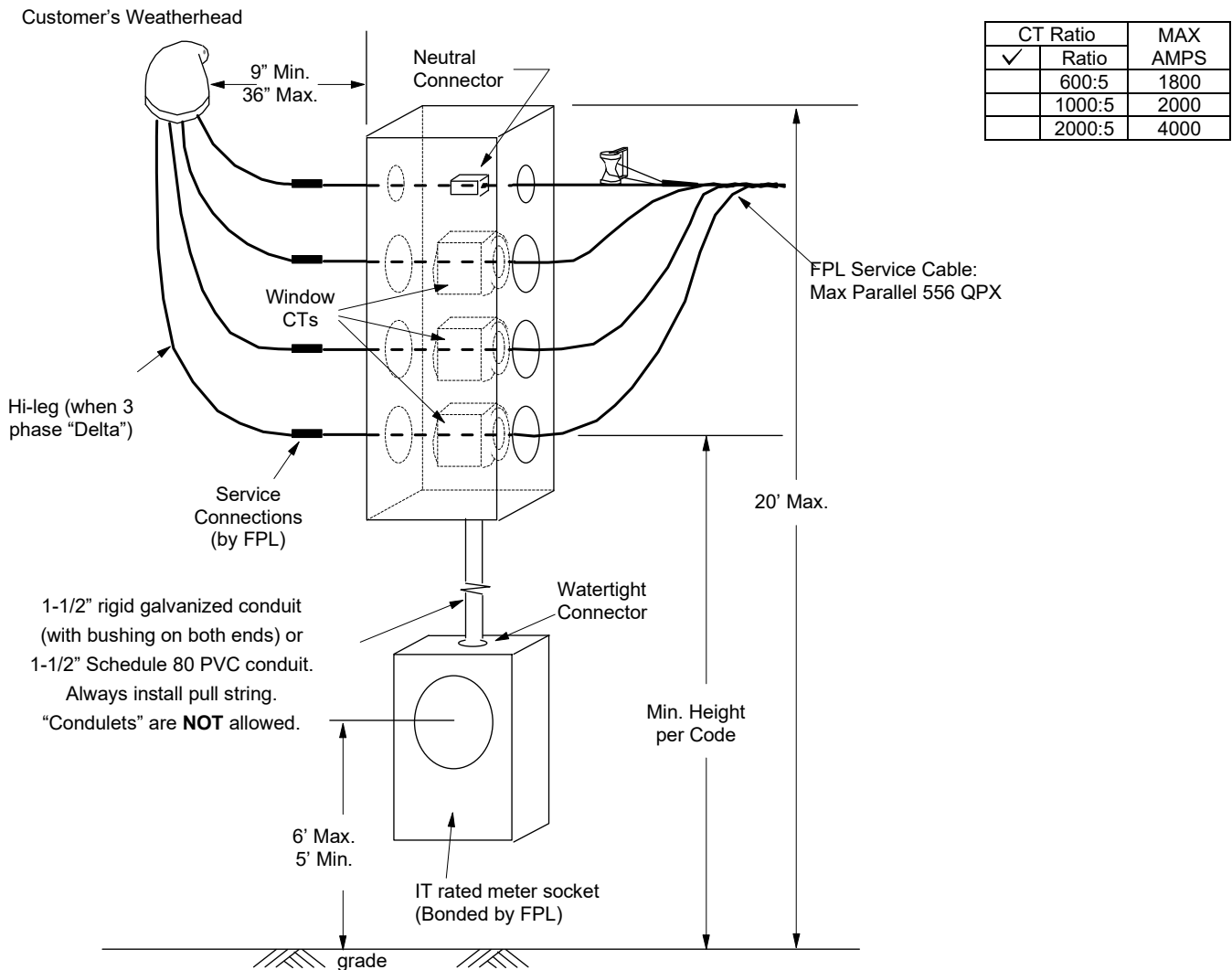
VI. METERING EQUIPMENT

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**FIGURE VI-5
CT Metering Configuration 10 - CTs in Weatherhead Cabinet**

USED FOR MAINTENANCE ONLY (Not intended for new installations)

1. IT rated meter socket provided and installed by customer: _____ 1 ph or _____ 3 ph (check one).
2. Weatherhead transformer cabinet provided and installed by customer.
3. 1-1/2" minimum rigid galvanized conduit (with bushings) or 1-1/2" minimum Schedule 80 PVC, with pull string installed between meter socket and current transformer cabinet provide and installed by customer. **Maximum allowed distance between socket and cabinet is 40 feet.**
4. Customer to provide and install watertight "Myers type" conduit connector when conduit enters top of IT rated meter socket.
5. Window CTs provided and installed in transformer cabinet by FPL after cabinet is mounted by customer.
6. FPL service cable will pass through CTs unless otherwise approved by FPL.
7. This configuration allowed **ONLY** when no other configuration is possible, or practical, and must be approved by FPL. **Contact FPL before specifying this configuration.**
8. For general installation and bonding details, refer to [Figure VI-4](#) "CT Cabinet and IT rated Meter Socket Installation and Bonding".





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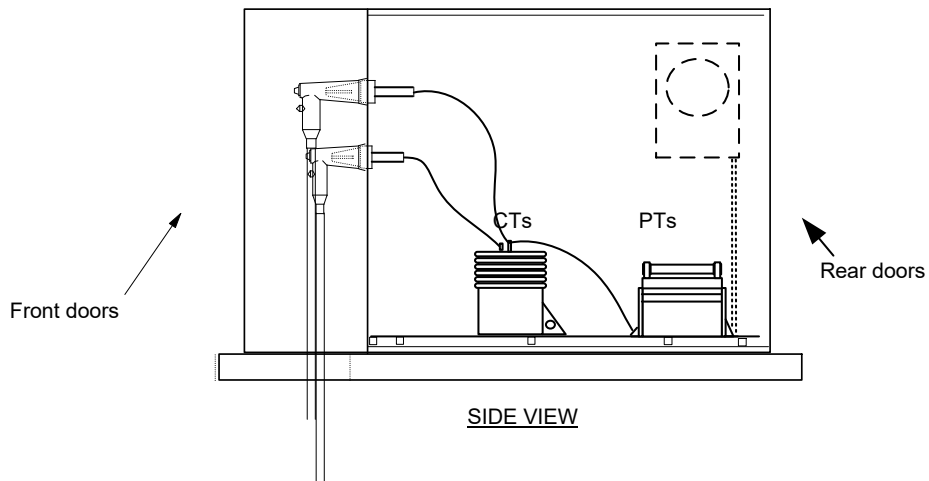
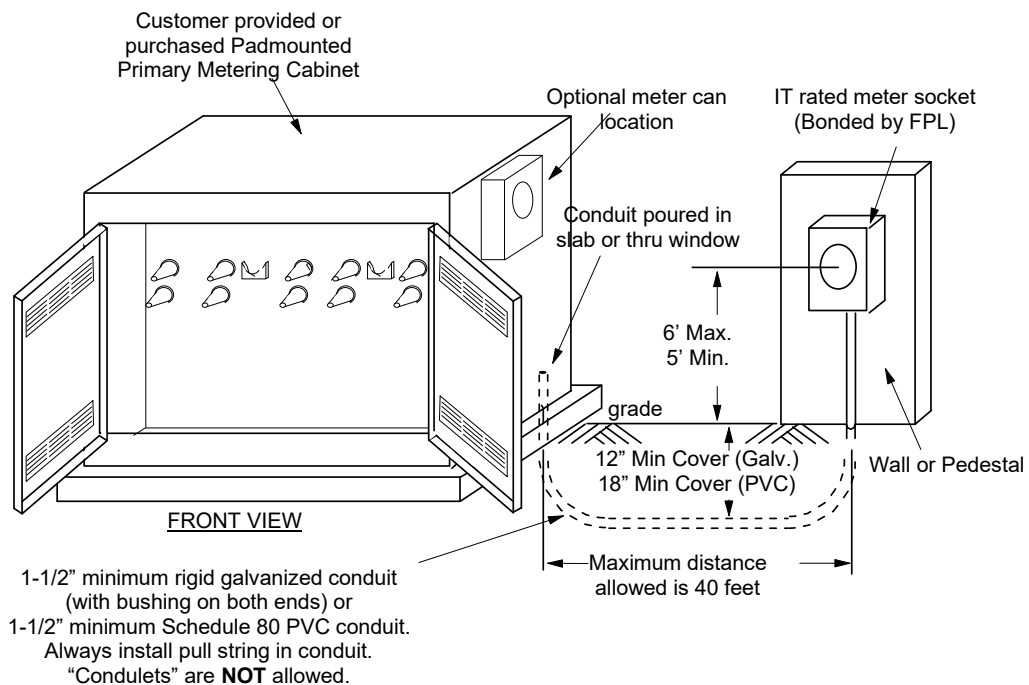
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VI. METERING EQUIPMENT

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FIGURE VI-6
CT Metering Configuration 11 - CTs in Padmounted Primary Metering Cabinet

1. IT rated meter socket provided and installed by customer: _____ 1 ph or _____ 3 ph (check one).
2. Padmounted primary metering cabinet and concrete pad provided or purchased and installed by customer.
3. Provide 8 feet of clearance to front and rear cabinet doors, and 3 feet of clearance to cabinet sides.
4. 1-1/2" minimum rigid galvanized conduit (with bushings) or 1-1/2" minimum Schedule 80 PVC, with pull string installed between meter socket and current transformer cabinet provide and installed by customer. Maximum of 2-90 degree bends allowed. **Maximum allowed distance between socket and cabinet is 40 feet.**
5. Primary (13 KV, 23KV) current and voltage transformers provided and installed by FPL.
6. This configuration's application is limited and requires close coordination. **Consult with an FPL representative before designing this configuration.**





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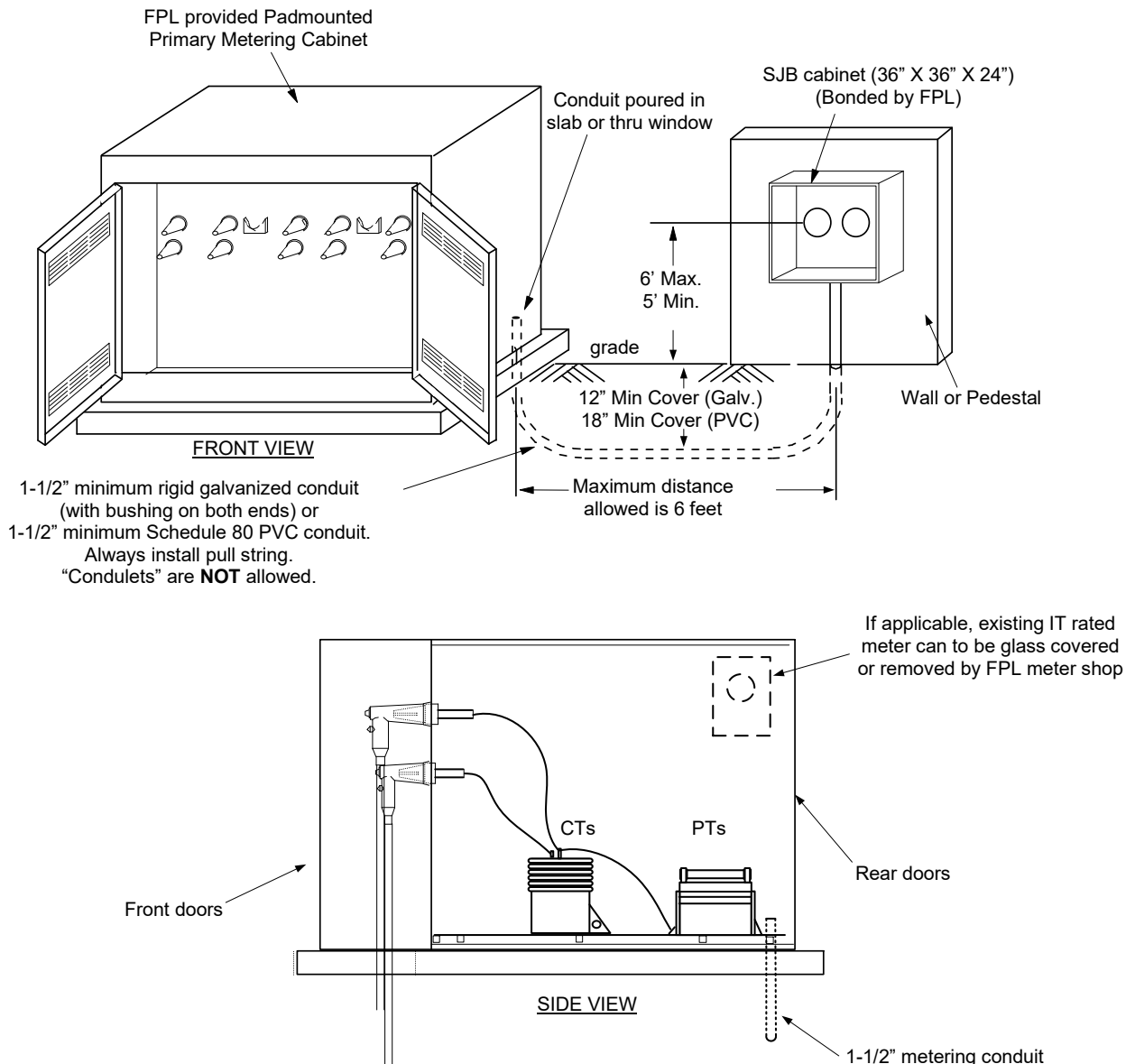
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VI. METERING EQUIPMENT

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FIGURE VI-6a
CT Metering Configuration 11 – Renewable Generation ONLY

1. SJB cabinet provided by FPL, installed by customer. Fasten cabinet to masonry walls with toggle screws or expansion shields (no plastic anchors or impact tools).
2. Padmounted primary metering cabinet and concrete pad provided or purchased and installed by customer.
3. Provide 8 feet of clearance to front and rear cabinet doors, and 3 feet of clearance to cabinet sides.
4. 1-1/2" minimum rigid galvanized conduit (with bushings) or 1-1/2" minimum Schedule 80 PVC, with pull string installed between meter socket and current transformer cabinet provide and installed by customer. Maximum of 2-90 degree bends allowed. **Maximum allowed distance between socket and cabinet is 6 feet.**
5. Primary (13 KV, 23KV) current and voltage transformers provided and installed by FPL.
6. This configuration's application is limited and requires close coordination. **Consult with an FPL representative before designing this configuration.**





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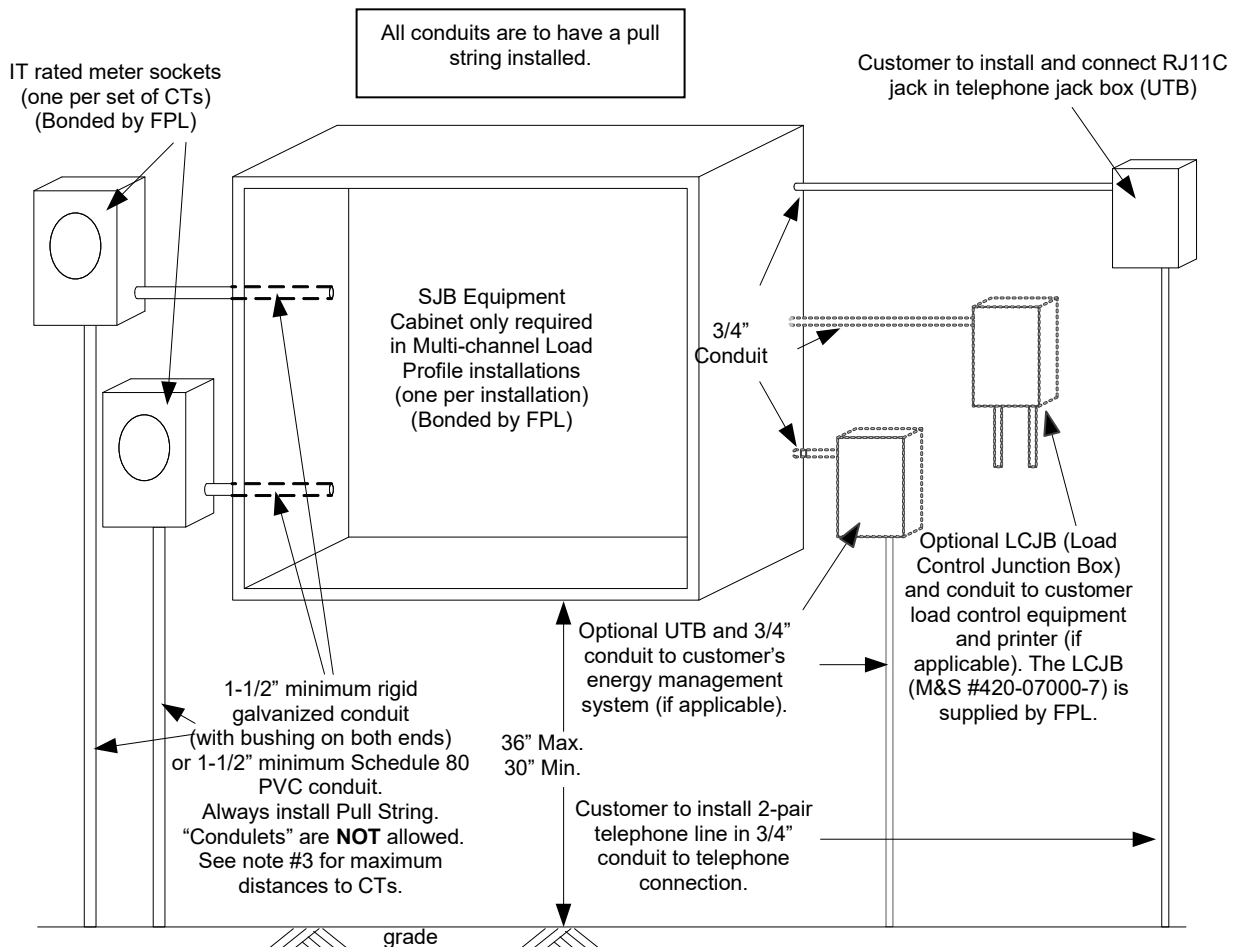
VI. METERING EQUIPMENT

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FIGURE VI-7
CT Metering Configuration 12 – Load Profile Metering

1. IT rated meter socket provided and installed by customer: _____ 1 ph or _____ 3 ph (check one).
2. Customer to provide metering equipment cabinet with 1-1/2" minimum rigid galvanized conduit (with bushings) or 1-1/2" minimum Schedule 80 PVC, with pull string installed, and utility cans for interface with phone line and energy management system (if required).
3. Maximum distance to CTs: 10 feet for 300:5 CTs (Max. Cable length 20 feet) or 40 feet for 600:5 and larger CTs (Max. cable length 50 feet).
4. **Consult with an FPL representative before designing this configuration. Multi-metered circuits may require equipment other than shown.**

Number of meters	Equipment Cabinet		Old FPL designation
	Size	H x W x D	
2 – 6	Medium	28 x 30 x 14	SJB – 28
7 – 9	Large	36 x 36 x 14	SJB – C





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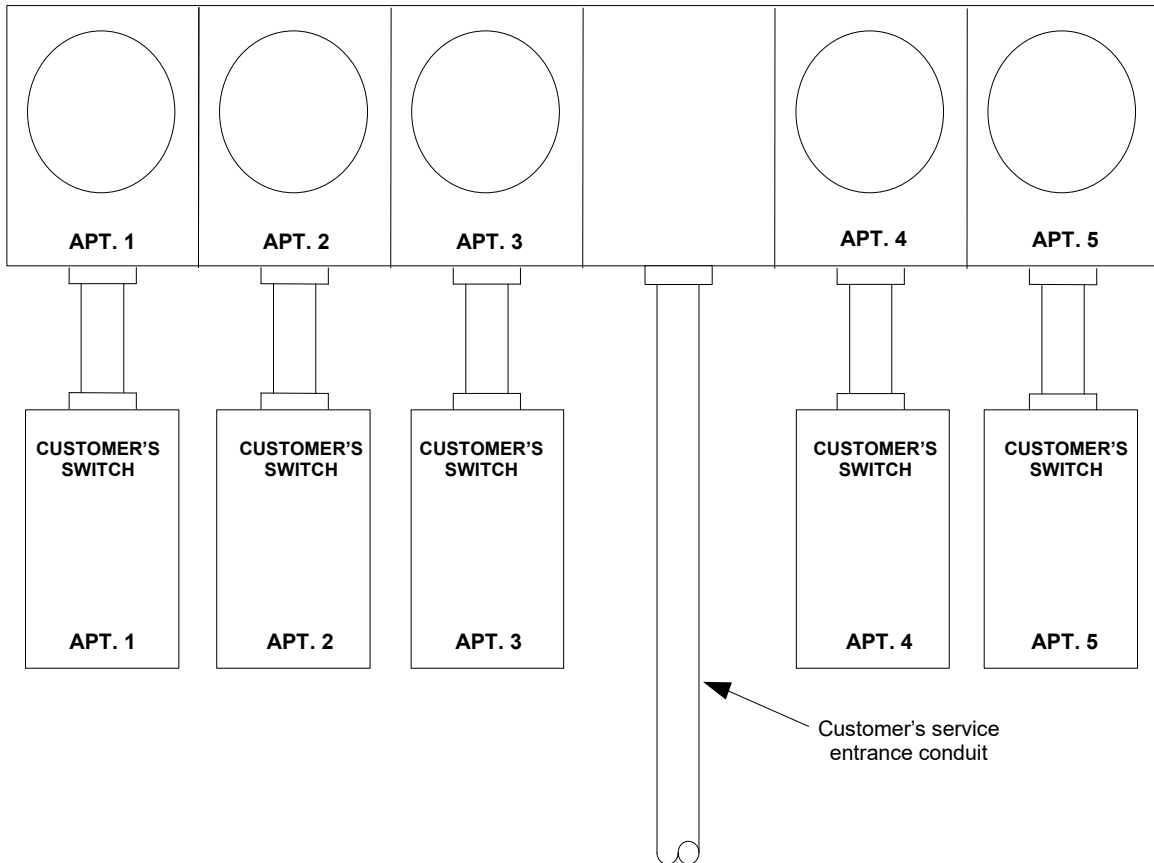
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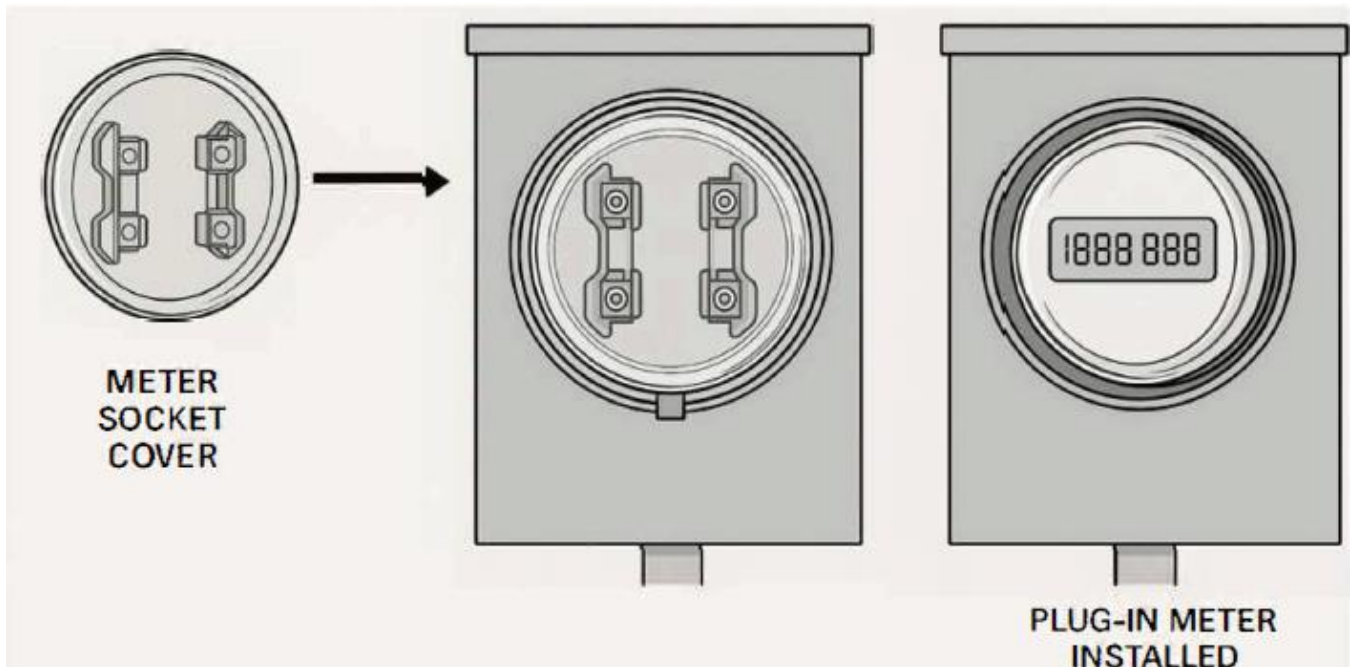
**FIGURE VI-8
Identification of Multiple Meter Sockets**



Customer to label meter socket and switch covers with permanent and weatherproof/UV resistant placard with engraved letters. Markings should also be put inside meter socket with paint or other permanent durable marker (to prevent confusion if covers are interchanged before service is connected). If living units have different house numbers, these should be shown in place of apartment numbers. IT rated meter sockets (not illustrated) should be marked similarly.

The Electrical Contractor shall provide FPL a meter layout drawing.

Figure VI-9
Customer-Owned Meter Socket
Covers for Multi-Meter Installation



Effective **November, 2, 2026** – In installations involving six (6) or more meter cans, customer-owned meter sockets must be installed prior to Florida Power & Light (FPL) energizing the line side of any meter can. Energization will not occur until all customer-provided socket covers are properly mounted and in compliance with FPL and applicable industry standards.
Socket Cover Requirements:

- Covers must be transparent to allow clear visibility of internal components and wiring.
- Materials shall be UV-rated and treated with a UV inhibitor to prevent degradation; Clear Lexan or Clear Polycarbonate are the preferred materials.
- Covers must be equipped with tabs suitable for secure attachment into standard plug-in meter cans. (The use of covers with integrated jumpers is strictly prohibited)
- Covers must fit properly in ringless-type metering enclosures to ensure safety and compatibility.
- All covers shall conform to ANSI C12.7 standards or the most current applicable revision.

Handling and Return of Customer-Owned Covers:

Upon removal, customer-owned covers will be returned to any on-site proxy representing the customer. If no proxy is available or the customer is otherwise unable to be present, FPL personnel will leave the covers at a reasonable and accessible on-site location. FPL shall not be held responsible for the loss or damage of customer-owned covers once left at the designated location.

Note (K-7 Bolt-In Cans): If there are any K-7 bolt-in cans as part of such an installation, contact your local area engineer for instructions on how to proceed before energization.



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J. Flood Zone Meter Installation Policy:

FPL accepts meter can installations below the flood plane when the local Authority Having Jurisdiction (AHJ) approves such installations per applicable codes and regulations. **Figure VI-10**. However, when the inspecting authority requires meter can elevation above the flood plane, elevated platform requirements must be implemented to ensure safe access for utility personnel.

Minimum Required Safety Features:

- Appropriate staircase access per **Figure VI-12** when platform height exceeds 19 inches
- Platform width, depth and guard rails per **Figure VI-13** specifications.
- Load capacity adequate for utility personnel and equipment

FPL reserves the right to refuse meter installation or deny service if the minimum required safety features for service outlined in this standard are not met. The Company may elect to discontinue service to the Customer, pursuant to F.A.C. Rule 25-6.105 (5) (f) if required platforms are removed or if unobstructed access to utility facilities is not maintained in accordance with FPL's service standards.

Note: While full compliance with all specifications in **Figures VI-11** and **VI-10** is preferred, FPL Engineering may approve alternative designs that meet minimum safety requirements and provide equivalent utility access. Property owners are responsible for coordinating with local building officials and inspecting authorities to determine flood elevation requirements.

Figure VI-10 Elevated Customer Equipment Only

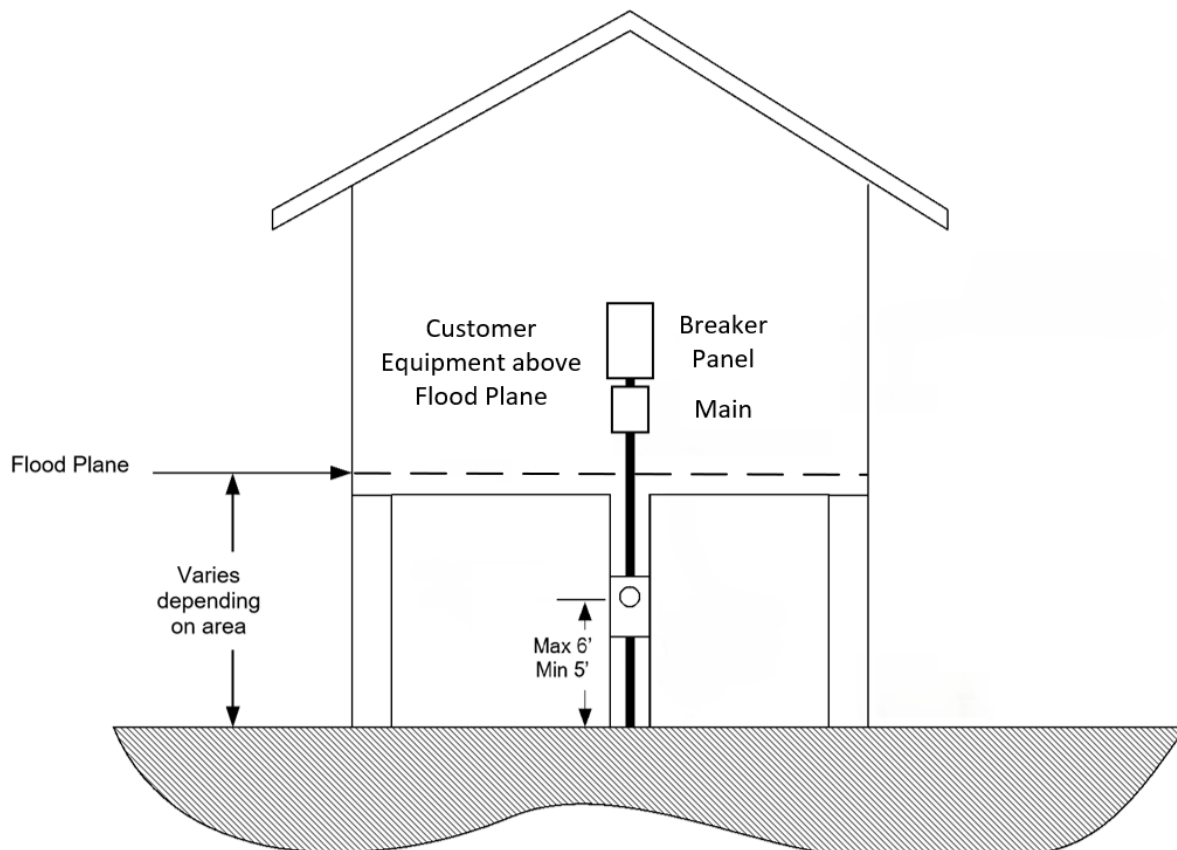
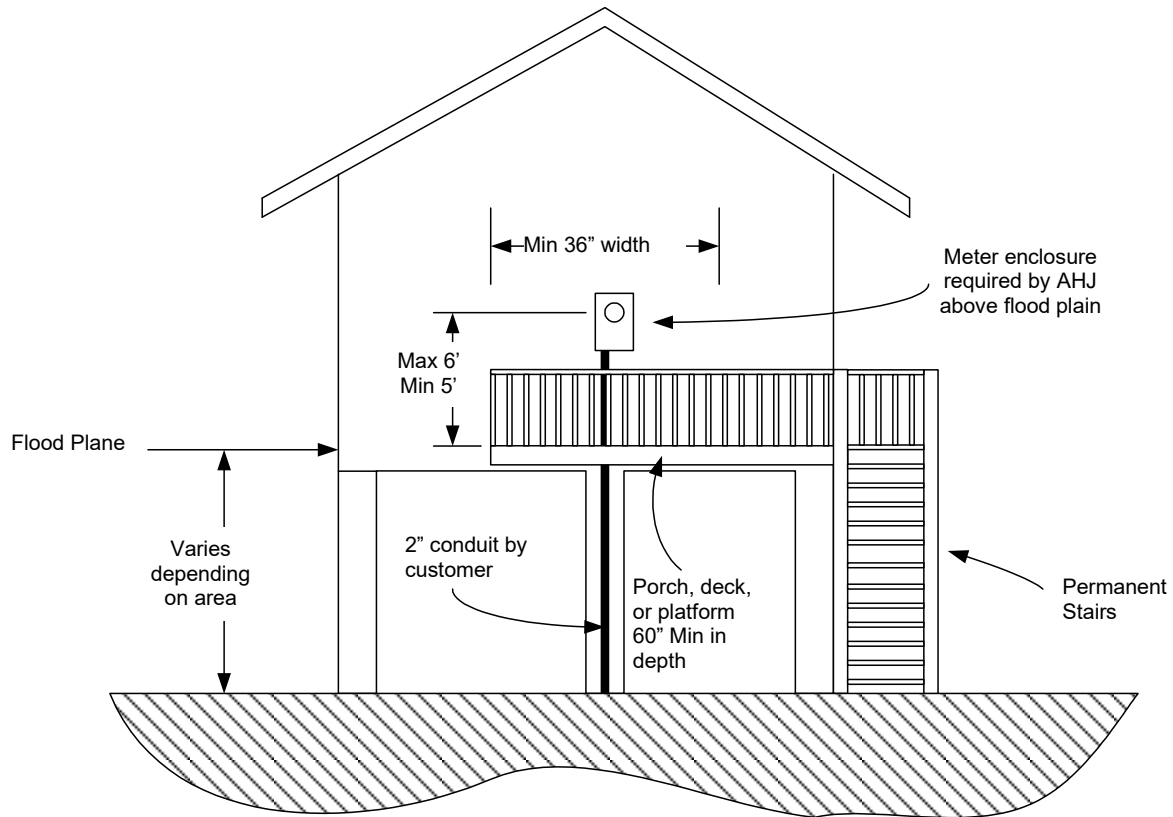


FIGURE VI-11
Elevated Meter Enclosure Installations in Flood Zones



Stairway and Permanent Platform standards follow OSHA 1910.25 standards and requirements

For questions related to structural material, please refer to FEMA elevated platform material requirements



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**FIGURE VI-12
Standard Stairways**

Stairway Requirements:

Load Capacity:

- Must support at least five times the expected load.

Width:

- Minimum width must be 36 inches (Linear Stairs)
- Minimum width must be 26 inches (Spiral Stairs)

Angle:

- The angle of the stairway rise must be between 30 and 50 degrees. (Linear)
- Minimum of 6 feet 6 inches measured from the tread nosing. (Spiral Stairs)

Risers and Treads:

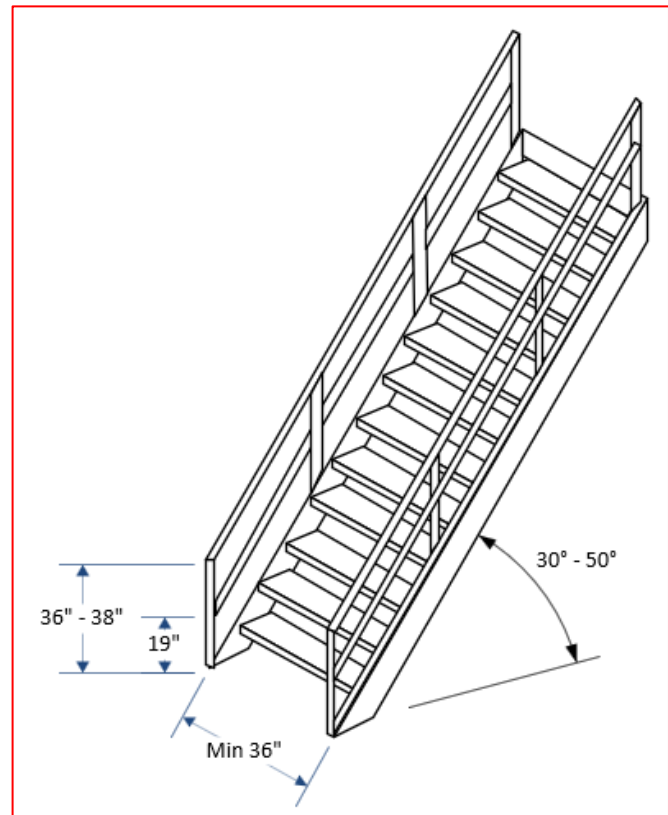
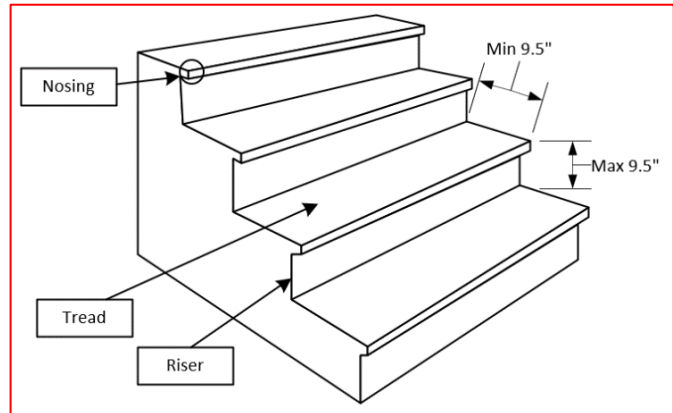
- Must be uniform in dimensions between each landing.
- Tread depth must be at least 9.5 inches. (Linear Stairs)
- Riser height must not exceed 9.5 inches. (Linear and Spiral)
- Minimum tread depth of 7.5 inches measured 12 inches from the narrower end of the tread. (Spiral Stairs)

Handrails:

- Must be provided on stairs with four or more risers.
- The height must be no less than 37 inches (± 1 inch) and no more than 38 inches above the stair tread.
- Must withstand a force of at least 200 pounds applied within 2 inches of the top edge in any downward or outward direction.

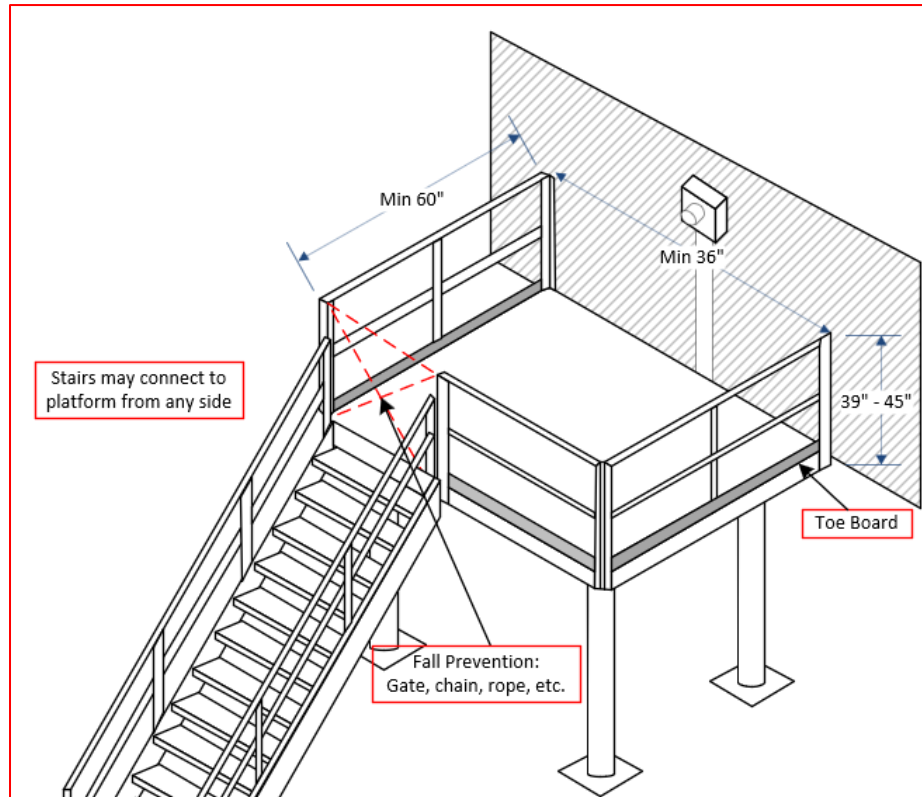
Nosing

- Nosing projection must be between 3/4 inch and 1-1/4 inches, and it's not required where the tread depth is 11 inches or more.



Note: Spiral stairways are permitted as an alternative to linear stairways when space constraints make linear stairs impractical. All installations must meet OSHA 1910.25 spiral stair requirements and receive prior approval from FPL Engineering.

FIGURE VI-13
Permanent Elevated Platform



Platform Requirements:

Step Requirements by Platform Height: Steps are required for platforms 19 inches or higher above grade.

Load Capacity:

- Platforms must be designed and constructed to safely support at least the anticipated load and must have a minimum capacity of 800 pounds.

Surface Safety:

- The platform surface must be non-slip and designed to prevent accumulation of water and other debris that could pose a slipping hazard.

Width & Depth:

- The platform must have a minimum width of 36 inches and depth of 60 inches.
- Metering equipment must be positioned within the platform's width, maintain a minimum distance of 6 inches from the inside edge, and provide at least 36 inches of clearance in front of the meter.

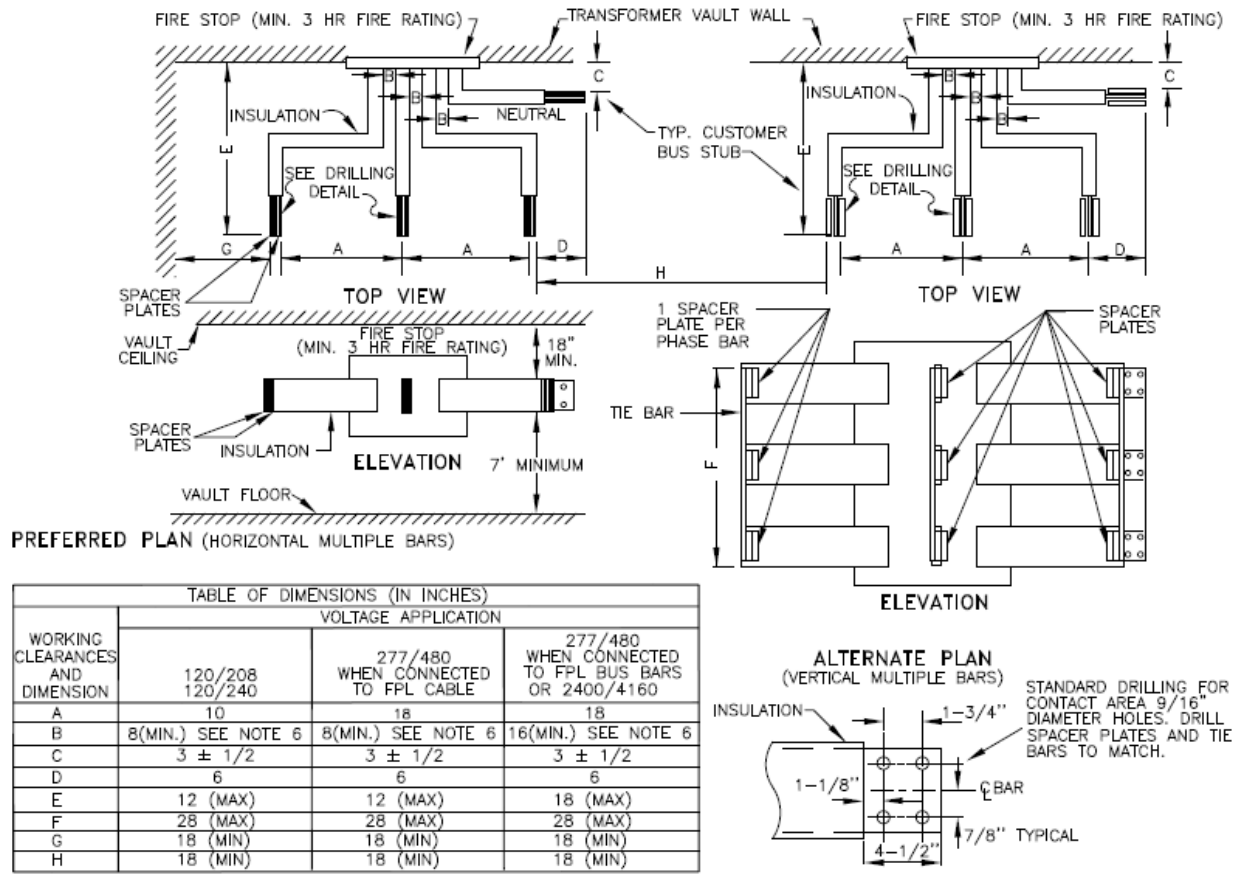
Guardrails:

- Platforms 4 feet or more above the ground or next level must have guardrails.
- Top edge of the guardrail must be 42 inches (± 3 inches) above the walking surface.
- Midrails or equivalent must be installed between the top rail and the platform to prevent falls.

Toe Boards:

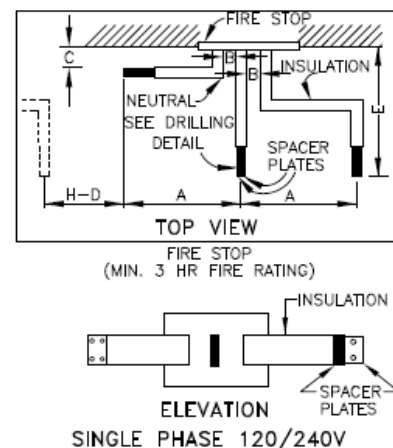
- Toe boards must be at least 3.5 inches high.
 - Must be securely fastened, with no more than 0.25 inches clearance above the walking surface.

FIGURE VI-14
Typical Bus Stub Terminations in Transformer Vaults



SPECIFICATIONS

1. BARS MAY BE EITHER COPPER OR ALUMINUM.
2. ALL BARS MUST BE 1/4" IN THICKNESS IN THE CONTACT AREA. IN THE HORIZONTAL MULTIPLE-BAR ARRANGEMENT, BARS MUST BE SPACED 1/4" IN THE CONTACT AREA.
3. ALL BARS MUST BE DRILLED WITH 9/16" DIAMETER HOLES IN ACCORDANCE WITH DRILLING DETAIL.
4. HORIZONTAL MULTIPLE-BAR BUS TERMINATIONS MUST INCLUDE 1/4" THICK SPACER PLATES BETWEEN THE BARS IN THE CONTACT AREAS. SPACER PLATES MUST BE DRILLED TO MATCH THE CONDUCTOR BARS. SPACER PLATES SHOULD BE 4-1/2" LONG AND THE SAME AS THE CONDUCTOR BARS.
5. VERTICAL MULTIPLE-BAR BUS TERMINATIONS MUST INCLUDE ONE 1/4" THICK TIE BAR FOR EACH PHASE AND THE NEUTRAL, AND SPACER PLATES WHERE INDICATED IN THE ABOVE DRAWING. TIE BARS MUST HAVE THE SAME AMPACITY AS THE PHASE CONDUCTOR BARS.
6. WHERE THE CLEARANCE BETWEEN PHASES IS LESS THAN DIMENSION "B" IN THE TABLE, THE BARS MUST BE SUITABLY INSULATED FOR OPERATING VOLTAGE FROM FIRE STOP TO THE POINT WHERE THE PHASE CONDUCTORS ARE SEPARATED BY AT LEAST "B" INCHES.
7. PHASES MUST ENTER VAULT UNSCRAMBLED WHERE LOW IMPEDANCE BUS IS USED.
8. WHEN USED OUTDOORS THESE BUS TERMINATIONS MUST BE PROTECTED IN A RAINTIGHT ENCLOSURE OF GPO-3 OR OTHER SUITABLE PERMANENT, INSULATING MATERIAL.
9. WHEN MORE THAN ONE BUS ENTERS VAULT, SPACING BETWEEN CLOSEST BARS OF ADJACENT BUSES TO BE ACCORDING TO TABLE DIMENSION "H". (BASED ON NOTE 10).
10. CABLE CONNECTIONS TO BUS STUB AND TRANSFORMER SECONDARY SPADES ARE TO BE COVERED WITH SECONDARY BARRIER (SEE UN-23),
11. IN NEW INSTALLATIONS A MINIMUM CLEARANCE OF 5' MUST BE MAINTAINED BETWEEN THE CUSTOMER COLLECTOR BUS AND THE TRANSFORMER SECONDARY SPADES.
12. ON NEW INSTALLATIONS A MINIMUM CLEARANCE OF 36" MUST BE MAINTAINED BETWEEN BUSS STUBS OF DIFFERENT VOLTAGES.





Electric Service Standards

DATE

03-04-2025

PREPARED BY

SUBJECT

SECTION: PAGE

Meter Technology and
Product Support

VII. Approved Equipment and Enclose List

VII: 1 of 40

VII. Approved Equipment and Enclosure List

- 1) Approved Meter Equipment Enclosure List
 - a. Approved by MEG (Meter Equipment Group) unless noted
 - b. MEG consists of Duke Energy, FPL, OG&E, and TECO
- 2) Approved Transformer Rated Equipment
 - a. Only valid for FPL service area **excluding** FPL Northwest

The attached list of self-contained meter sockets and enclosures has been approved for use in the service areas served by the utilities of the Meter Equipment Group. Approval is based on the unit's compliance with the MEG specifications, particularly U.L. listing, sealing requirements, bypass characteristics, and certain operational concerns. The MEG makes no claims regarding nameplate ratings or load side attachments beyond the sealed portion of the meter socket. We recommend that all units be used as intended by the manufacturer. All additional data is supplied for informational purposes only.

NOTES:

- A. All commercial or three phase applications require a unit with an approved bypass device. (Configuration 3, 4 or 5)
- B. All sockets are listed as their maximum socket amperage. 320/400 Amp enclosures are listed as 400 Amp maximum, and 480/600 Amp enclosures are listed as 600 Amp maximum
- C. Aluminum enclosures are recommended in salt spray areas
- D. Please contact your utility representative to determine the proper size lugs/connectors.
- E. All self-enclosed and IT rated meter enclosures must be ringless
- F. The "configuration" refers to the various meter connecting arrangements used to accommodate the utility meter. These configurations are described below:

SELF CONTAINED CONFIGURATIONS

DESCRIPTION & TYPICAL APPLICATION

1	Residential - 4 Terminal Socket, Single Phase, 3 Wire
2	Residential - 5 Terminal Socket, Network, 3 Wire
3	Residential/Commercial - 4 Terminal Socket (w/Bypass), Single Phase, 3 Wire
3a	Residential/Commercial - 5 Terminal Socket (w/Bypass), Network, 3 Wire
3b	Residential/Commercial - 5 Terminal socket (w/Bypass), Neutral can be isolated for 3-phase, 3-wire applications.
4	Commercial - 7 Terminal Socket (w/Bypass), Three Phase, 4 Wire
*5	Residential/Commercial – K7 Base (w/Bypass), Single Phase (FPL Only), Three Phase or Network, 3 or 4 Wire

***FPL does not allow the use of ring type meter enclosures for self-contained meters in its territory**

***IT Rated equipment are NOT valid for FPL Northwest**

(DUKE, OGE, TECO, and FPL Northwest do not allow any K-base installations)

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
ABB	100	PM10RLNCSS**	1	OH/UG	4	N	1	1
ABB	100	PM10RLNCS**	1	OH/UG	4	N	1	1
ABB	125	PM12RLNCSS**	1	OH/UG	4	N	1	1
ABB	125	PM12RLNCS**	1	OH/UG	4	N	1	1
ABB	125	RMS18x12LRLR (x=2-6)	1	OH/UG	5	N	1,2	2-6
ABB	125	RMS18x12HRLR (x=2-6)	1	OH/UG	5	N	1,2	2-6
ABB	125	RMS28x12LRLR (x=2-6)	1	OH/UG	5	N	1,2	2-6
ABB	125	RMS28x12HRLR (x=2-6)	1	OH/UG	5	N	1,2	2-6
ABB	125	RMS112x12LRLR (x=2-6)	1	OH/UG	5	N	1,2	2-6
ABB	125	RMS112x12HRLR (x=2-6)	1	OH/UG	5	N	1,2	2-6
ABB	125	RMS212x12LRLR (x=2-6)	1	OH/UG	5	N	1,2	2-6
ABB	125	RMS212x12HRLR (x=2-6)	1	OH/UG	5	N	1,2	2-6
ABB	125	UFT2R11210UABB	1	OH/UG	5	N	1,2	2
ABB	125	UFTxR11810UUABB (x=3-4)	1	OH/UG	5	N	1,2	3-4
ABB	125	UFTxR11910UUABB (x=5-6)	1	OH/UG	5	N	1,2	5-6
ABB	150	PAMS815TRLNCS	1	OH/UG	4	N	1	1
ABB	150	PM15RLNCSS**	1	OH/UG	4	N	1	1
ABB	150	PM15RLNCS**	1	OH/UG	4	N	1	1
ABB	200	UFTxR23921UUABB (x=2-6)	1	OH/UG	5	N	1,2	2-6
ABB	200	PAMS2020TRLNCS	1	OH/UG	4	N	1	1
ABB	200	PAMS820TRLNCS	1	OH/UG	4	N	1	1
ABB	200	PM20RLNCSS**	1	OH/UG	4	N	1	1
ABB	200	PM20RLNCS**	1	OH/UG	4	N	1	1
ABB	225	RMS18x22LRLR (x=2-5)	1	OH/UG	5	N	1,2	2-5
ABB	225	RMS18x22HRLR (x=2-5)	1	OH/UG	5	N	1,2	2-5
ABB	225	RMS28x22LRLR (x=2-5)	1	OH/UG	5	N	1,2	2-5
ABB	225	RMS28x22HRLR (x=2-5)	1	OH/UG	5	N	1,2	2-5
ABB	225	RMS112x22LRLR (x=2-5)	1	OH/UG	5	N	1,2	2-5
ABB	225	RMS112x22HRLR (x=2-5)	1	OH/UG	5	N	1,2	2-5
ABB	225	RMS212x22LRLR (x=2-5)	1	OH/UG	5	N	1,2	2-5
ABB	225	RMS212x22HRLR (x=2-5)	1	OH/UG	5	N	1,2	2-5
ABB	225	RMS112x22CHLBR (x=1-4)	1	OH/UG	5	Y	3,3a	1-4
ABB	225	RMS212x22CHLBR (x=1-4)	1	OH/UG	5	Y	3,3a	1-4
ABB	100	PM10RLNCSS**	1	OH/UG	4	N	1	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
ABB	225	RMS312x22CHLBR (x=1-4)	3	OH/UG	7	Y	4	1-4
ABB	300	PADMS0830RLLUSR	1	UNDER	5	Y	2	1
ABB	300	PADMS0830RLLUSR2	1	UNDER	5	Y	2	1
ABB	300	PADMS3030RLLUSR	1	UNDER	5	Y	2	1
ABB	300	PADMS3030RLLUSR2	1	UNDER	5	Y	2	1
ABB	300	PADMS4030RLLUSR	1	UNDER	5	Y	2	1
ABB	300	PADMS4030RLLUSR2	1	UNDER	5	Y	2	1
ABB	400	PADMS0840RLLUSR2	1	UNDER	5	Y	2	1
ABB	400	PADMS3040RLLUSR2	1	UNDER	5	Y	2	1
ABB	400	PADMS4040RLLUSR2	1	UNDER	5	Y	2	1
ABB	400	RMS112x40CHLBRB (x=1 or 2)	1	OH/UG	5	Y	3,3a	1-2
ABB	400	RMS212x40CHLBRB (x=1 or 2)	1	OH/UG	5	Y	3,3a	1-2
ABB	400	RMS312140CHLBR	3	OH/UG	7	Y	4	1
ABB	400	RMS312x40CHLBRB (x=1 or 2)	3	OH/UG	7	Y	4	1-2
ABB (GE)	(2) 150	TSDR830USCU	1	UNDER	4/5	Y	1,2	1
ABB (GE)	100	UATZ-xR1121CFLGE (x=2-5)	1	OH/UG	4	N	1 A1	2-5
ABB (GE)	100	TM10RMCFMG	1	OH/UG	4	N	1	1
ABB (GE)	100	UTZ-6R1131CFLGE	1	OH/UG	4	N	1	6
ABB (GE)	100	UTZ-xR1121CFLGE (x=2-5)	1	OH/UG	4/5	N	1,2	6
ABB (GE)	125	TMPR8x12R (x=2-6)	1	OH/UG	5	N	1,2	2-6
ABB (GE)	125	TMPR12x12R (x=2-6)	1	OH/UG	5	N	1,2	2-6
ABB (GE)	125	TMMR2212R	1	UNDER	5	N	1,2	2
ABB (GE)	125	TMMR4x12R (x=3-4)	1	UNDER	5	N	1,2	3-4
ABB (GE)	125	TMMR6x12R (x=5-6)	1	UNDER	5	N	1,2	5-6
ABB (GE)	125	TM12RMCFMG	1	OH/UG	4	N	1	1
ABB (GE)	125	TMMR2212RF	1	OH/UG	4/5	N	1,2	2
ABB (GE)	125	TMMR4x12RF (x=3-4)	1	UNDER	4/5	N	1,2	3-4
ABB (GE)	125	TMMR6x12RF (x=5-6)	1	UNDER	4/5	N	1,2	5-6
ABB (GE)	125	TMPR12520RBUS	1	OH/UG	5	N	2	5
ABB (GE)	125	TMPR12x12RF (x=2-6)	1	OH/UG	5	N	2	2-6
ABB (GE)	125	TMPR8520RBUS	1	OH/UG	5	N	2	5
ABB (GE)	125	TMPR8x12RF (x=2-6)	1	OH/UG	4	N	1,2	2-6
ABB (GE)	125	UATZ-RS101CFLGE	1	OH/UG	4	N	1 A1	1
ABB (GE)	125	UTZ-RS101C-FLGE	1	OH/UG	4	N	1	1

Participants:


**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
ABB (GE)	150	TM15RMCFMG	1	OH/UG	4	N	1	1
ABB (GE)	150	TSMR415CSFLFMG	1	OH/UG	4	N	1	1
ABB (GE)	150	TSMR815CSFLFMG	1	OH/UG	4	N	1	1
ABB (GE)	150	TSMRQ415CSFLFMG	1	OH/UG	4	N	1	1
ABB (GE)	200	TSMR820CSFLFMG	1	OH/UG	4	N	1	1
ABB (GE)	200	TSMR420CSFLFMG	1	OH/UG	4	N	1	1
ABB (GE)	200	TSMRQ420CSFLFMG	1	OH/UG	4	N	1	1
ABB (GE)	200	TSMRQ420CSFLFMGP	1	OH/UG	4	N	1	1
ABB (GE)	200	1012978-GE	1	OH/UG	4	N	1	1
ABB (GE)	200	UT-RS233C-FLGE	1	OH/UG	4	N	1	1
ABB (GE)	200	UAT-RS233C-FLGE	1	OH/UG	4	N	1 AI	1
ABB (GE)	200	TMPR8x20R (x=2-5)	1	OH/UG	5	N	1,2	2-5
ABB (GE)	200	TMPR12x20R (x=2-5)	1	OH/UG	5	N	1,2	2-5
ABB (GE)	200	TMMR4220R	1	UNDER	5	N	1,2	2
ABB (GE)	200	TMMR6x20R (x=3-6)	1	UNDER	5	N	1,2	3-6
ABB (GE)	200	TM20RMCFMG	1	OH/UG	4	N	1	1
ABB (GE)	200	TMMR4220RF	1	UNDER	5	N	2	2
ABB (GE)	200	TMMR6x20RF (x=3-6)	1	UNDER	5	N	2	3-6
ABB (GE)	200	TMPR12x20RF (x=4-5)	1	OH/UG	5	N	2	4-5
ABB (GE)	200	TMPR8x20RF (x=2-5)	1	OH/UG	5	N	2	2-5
ABB (GE)	200	TSMR2020CSCUFMG	1	OH/UG	4	N	1	1
ABB (GE)	200	UT-RS202B-FLGE	1	OVER	4	N	1	1
ABB (GE)	200	TSMRx20CSFLFMG (x = 4, 8)	1	OH/UG	4	N	1	1
ABB (GE)	200	UAT-H4203x-FLGE (x=B or T)	1	OVER	4	Y	1 AI	1
ABB (GE)	200	UAT-H4213x-FLGE (x=C or U)	1	OH/UG	4	Y	1 AI	1
ABB (GE)	200	UAT-H5203x-FLGE (x=B or T)	1	OVER	5	Y	3,3a,b AI	1
ABB (GE)	200	UAT-H5213x-FLGE (x=C or U)	1	OH/UG	5	Y	3,3a,b AI	1
ABB (GE)	200	UAT-H7203x-FLGE (x=B or T)	3	OVER	7	Y	4 AI	5-6
ABB (GE)	200	UAT-xR2392UUFLLGE (x=5-6)	1	OH/UG	4	N	1 AI	5-6
ABB (GE)	200	UAT-H7213x-FLGE (x=C or U)	1	OH/UG	7	Y	4 AI	1
ABB (GE)	200	UAT-4R2352UUFLLGE	1	OH/UG	4	N	1 AI	4
ABB (GE)	200	UAT-xR2332U-FLGE (x=2-3)	1	OH/UG	4	N	1 AI	2-3
ABB (GE)	200	UAT-RS202B-FLGE	1	OVER	4	N	1 AI	1
ABB (GE)	200	UAT-RS212C-FLGE	1	OH/UG	4	N	1 AI	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
ABB (GE)	200	UAT-RS213A-FLGE	1	UNDER	4	N	1 AI	1
ABB (GE)	200	UAT-RS213C-FLGE	1	OH/UG	4	N	1 AI	1
ABB (GE)	200	UAT-RS223A-FLGE	1	UNDER	4	N	1 AI	1
ABB (GE)	200	UT-4R2352U-FLGE	1	OH/UG	4	N	1	4
ABB (GE)	200	UT92197CC-FL-GE	1	OH/UG	4	N	1	1
ABB (GE)	200	UT-H7213x-FL-GE (x=C or U)	3	OH/UG	7	Y	1	1
ABB (GE)	200	UT-RS212C-FL-GE	1	OH/UG	4	N	1	1
ABB (GE)	200	UT-H4203x-FL-GE (x=B or T)	1	OVER	4	Y	1	1
ABB (GE)	200	UT-H4213x-FL-GE (x=C or U)	1	OH/UG	4	Y	1	1
ABB (GE)	200	UT-H5203x-FL-GE (x=B or T)	1	OVER	5	Y	3,3a,b	1
ABB (GE)	200	UT-H5213x-FL-GE (x=C or U)	1	OH/UG	5	Y	3,3a,b	1
ABB (GE)	200	UT-H7203x-FL-GE (x=B or T)	1	OVER	7	Y	4	1
ABB (GE)	200	UT-RS213A-FL-GE	1	UNDER	4	N	1	1
ABB (GE)	200	UT-RS213C-FL-GE	1	OH/UG	4	N	1	1
ABB (GE)	200	UT-RS223A-FL-GE	1	UNDER	4	N	1	1
ABB (GE)	200	UT-xR2332U-FLGE (x=2-3)	1	OH/UG	4	N	1	1
ABB (GE)	200	UT-xR2392UUFLGE (x=5-6)	1	OH/UG	4	N	1	1
ABB (GE)	225	TMPR12x22R (x=1-4)	1	OH/UG	5	Y	3,3a	1-4
ABB (GE)	225	TMPR312x22RF (x=1-4)	3	OH/UG	7	Y	4	1-4
ABB (GE)	400	TSDR040UFCU	1	UNDER	4/5	Y	1,2	1
ABB (GE)	400	1011619-GE	1	OH/UG	4	Y	1	1
ABB (GE)	400	1008836-GE	1	OH/UG	4	Y	1	1
ABB (GE)	400	1008837-GE	1	OH/UG	4	Y	1 AI	1
ABB (GE)	400	TMPR12x40RB (x=1-2)	1	OH/UG	5	N	3,3a	1-2
ABB (GE)	400	TMPR312x40RB (x=1-2)	3	OH/UG	7	Y	4	1-2
ABB (GE)	400	TSDR840UFCU	1	UNDER	4/5	Y	1,2	1
ABB (GE)	400	UAT-H4300T-FLGE	1	OVER	4	Y	1 AI	1
ABB (GE)	400	UAT-H5300T-FLGE	1	OVER	5	Y	3,3a,b AI	1
ABB (GE)	400	UAT-H5330U-FLGE	1	OH/UG	5	Y	3,3a AI	1
ABB (GE)	400	UAT-H7300T-FLGE	3	OVER	7	Y	4 AI	1
ABB (GE)	400	UAT-H7330U-FLGE	3	OH/UG	7	Y	4 AI	1
ABB (GE)	400	UT-H4300T-FL-GE	1	OVER	4	Y	1	1
ABB (GE)	400	UT-H5300T-FL-GE	1	OVER	5	Y	3,3a,b	1
ABB (GE)	400	UT-H5330U-FL-GE	1	OH/UG	5	Y	3,3a,b	1

Participants:



** Denotes new addition to this revision

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
ABB (GE)	400	UT-H43068T-FLGE	1	OH/UG	4	Y	1	1
ABB (GE)	400	UT-H7300T-FL-GE	3	OVER	7	Y	4	1
ABB (GE)	400	TSDR840CFCUGP (2 - 200amp breakers)	1	OH/UG	4/5	Y	1,2	1
ABB (GE)	300	TSDR830CFCUGP (2 - 150amp breakers)	1	OH/UG	4/5	Y	1,2	1
ABB (GE)	400	UT-H7336-8UFLGE	3	OH/UG	7	Y	4	1
ABB (GE)	400	UT-H7330U-FL-GE	3	OH/UG	7	Y	4	1
Brooks	200	601U43V3B41-B20A01	1	OH/UG	4	Y	3	1
Brooks	200	601U43V3B51-B20A01	1	OH/UG	5	Y	3a	1
Brooks	200	601U43V3B71-B20A01	3	OH/UG	7	Y	4	1
Brooks	400	601U44V3B41-B32A01	1	OH/UG	4	Y	3	1
Brooks	400	601U44V3B51-B32A01	1	OH/UG	5	Y	3a	1
Brooks	400	601U44V3B71-B32A01	3	OH/UG	7	Y	4	1
Durham	100	UTZ-6R1131C-FL	1	OH/UG	4	N	1	6
Durham	100	UTZ-xR1121C-FL (x=2-5)	1	OH/UG	4	N	1	2-5
Durham	100	UATZ-RS101C-FL	1	OH/UG	4	N	1,A1	1
Durham	100	UATZ-xR1121C-FL	1	OH/UG	4	N	1,A1	2-5
Durham	100	UTZ-RS101C-FL	1	OH/UG	4	N	1	1
Durham	200	1012978	1	OH/UG	4	N	1	1
Durham	200	UT-RS233C-FL	1	OH/UG	4	N	1	1
Durham	200	UAT-RS233C-FL	1	OH/UG	4	N	1 A1	1
Durham	200	UAT-H4203x-FL (x=B or T)	1	OVER	4	Y	1 A1	1
Durham	200	UAT-H4213x-FL (x=C or U)	1	OH/UG	4	Y	1 A1	1
Durham	200	UAT-H5203x-FL	1	OVER	5	Y	3,3a,b A1	1
Durham	200	UAT-H5213x-FL (x=C or U)	1	OH/UG	5	Y	3,3a,b A1	1
Durham	200	UAT-H7203x-FL (x=B or T)	3	OVER	7	Y	4 A1	1
Durham	200	UAT-H7213x-FL (x=C or U)	3	OH/UG	7	Y	4 A1	1
Durham	200	UAT-RS202B-FL	1	OVER	4	N	1 A1	1
Durham	200	UAT-RS212C-FL	1	OH/UG	4	N	1 A1	1
Durham	200	UAT-RS213A-FL	1	UNDER	4	N	1 A1	1
Durham	200	UAT-RS213C-FL	1	OH/UG	4	N	1 A1	1
Durham	200	UAT-4R2352UFL	1	OH/UG	4	N	1 A1	4
Durham	200	UAT-xR2392UUFL (x=5-6)	1	OH/UG	4	N	1 A1	5-6
Durham	200	UAT-xR2332U-FL (x=2-3)	1	OH/UG	4	N	1 A1	2-3
Durham	200	UAT-RS223A-FL	1	UNDER	4	N	1 A1	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Durham	200	UT-4R2352U-FL	1	OH/UG	4	N	1	4
Durham	200	UT92197CC-FL	1	OH/UG	4	N	1	1
Durham	200	UT-RS213C-FL	1	OH/UG	4	N	1	1
Durham	200	UT-H7213x-FL (x=C or U)	3	OH/UG	7	Y	1	1
Durham	200	UT-RS212C-FL	1	OH/UG	4	N	1	1
Durham	200	UT-RS202B-FL	1	OVER	4	N	1	1
Durham	200	UT-H4203x-FL (x=B or T)	1	OVER	4	Y	1	1
Durham	200	UT-H4213x-FL (x=C or U)	1	OH/UG	4	Y	1	1
Durham	200	UT-H5203x-FL (x=B or T)	1	OVER	5	Y	3,3a,b	1
Durham	200	UT-H5213x-FL (x=C or U)	1	OH/UG	5	Y	3,3a,b	1
Durham	200	UT-H7203x-FL (x=B or T)	3	OVER	7	Y	4	1
Durham	200	UT-RS213A-FL	1	UNDER	4	Y	1	1
Durham	200	UT-RS223A-FL	1	UNDER	4	N	1	1
Durham	200	UT-xR2332U-FL (x=2-3)	1	OH/UG	4	N	1	2-3
Durham	200	UT-xR2392UU-FL (x=5-6)	1	OH/UG	4	N	1	5-6
Durham	320	UAT-H5330U-FL	1	OH/UG	5	Y	3,3a,b AI	1
Durham	400	1011619	1	OH/UG	4	Y	1	1
Durham	400	1008836	1	OH/UG	4	Y	1	1
Durham	400	1008837	1	OH/UG	4	Y	1 AI	1
Durham	400	UAT-H5300T-FL	1	OVER	5	Y	3,3a,b AI	1
Durham	400	UAT-H7300T-FL	3	OVER	7	Y	4 AI	1
Durham	400	UAT-H7330U-FL	3	OH/UG	7	Y	4 AI	1
Durham	400	UT-H4300T-FL	1	OVER	4	Y	1	1
Durham	400	UT-H5300T-FL	1	OVER	5	Y	3,3a,b	1
Durham	400	UT-H5330U-FL	1	OH/UG	5	Y	3,3a,b	1
Durham	400	UT-H7300T-FL	3	OVER	7	Y	4	1
Durham	400	UT-H7336-8UFL	3	OH/UG	7	Y	4	1
Durham	400	UT-H43068T-FL	1	OH/UG	4	Y	1	1
Durham	400	UAT-H4300T-FL	1	OVER	4	Y	1, AI	1
Durham	400	UT-H7330U-FL	3	OH/UG	7	Y	4	1
Eaton B-Line	100	ECCB10L25A3xx1F (xx=GR, AL, S4, S6)	1	OH/UG	5	Y	3a	1
Eaton B-Line	100	ECCB10L27A3xx1F (xx=GR, AL, S4, S6)	3	OH/UG	7	Y	4	1
Eaton B-Line	100	ENCB10L25A3xx1F (xx=GR, AL, S4, S6)	1	OH/UG	5	N	1,2	1
Eaton B-Line	100	HEC10432Cxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	Y	3	2

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Eaton B-Line	100	HEC10433Cxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	Y	3	3
Eaton B-Line	100	HEN10432Lxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	3	2
Eaton B-Line	100	HEN10433Lxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	3	3
Eaton B-Line	100	HEN10434Lxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	3	4
Eaton B-Line	100	HEN10435Lxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	3	5
Eaton B-Line	100	HEN10436Lxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	3	6
Eaton B-Line	125	EC12L53xx1F (xx=GR, AL, S4, S6)	1	OH/UG	5	Y	3,3a,b	1
Eaton B-Line	125	EN12L41xx1F (xx=GR, AL, S4, S6)	1	OVER	4	N	1	1
Eaton B-Line	125	EN12L42xx1F (xx=GR, AL, S4, S6)	1	UNDER	4	N	1	1
Eaton B-Line	125	EN12L43xx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	1	1
Eaton B-Line	125	EN12L51xx1F (xx=GR, AL, S4, S6)	1	OVER	5	N	1,2	1
Eaton B-Line	125	EN12L52xx1F (xx=GR, AL, S4, S6)	1	UNDER	5	N	1,2	1
Eaton B-Line	125	EN12L53xx1F (xx=GR, AL, S4, S6)	1	OH/UG	5	N	1,2	1
Eaton B-Line	125	VENMP12432Lxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	3	2
Eaton B-Line	125	VENMP12433Lxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	3	3
Eaton B-Line	125	VENMP12434Cxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	3	4
Eaton B-Line	125	VENMP12435Cxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	3	5
Eaton B-Line	125	VENMP12436Cxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	3	6
Eaton B-Line	150	ENCB15L25A3xx1F (xx=GR, AL, S4, S6)	1	OH/UG	5	N	1,2	1
Eaton B-Line	200	EL20L53xx1F (xx=GR, AL, S4, S6)	1	OH/UG	5	Y	3,3a,b	1
Eaton B-Line	200	EL20L73xx1F (xx=GR, AL, S4, S6)	3	OH/UG	7	Y	4	1
Eaton B-Line	200	ELCB20L25A3xx1F (xx=GR, AL, S4, S6)	1	OH/UG	5	Y	3,3a	1
Eaton B-Line	200	ELCB20L27A3xx1F (xx=GR, AL, S4, S6)	3	OH/UG	7	Y	4	1
Eaton B-Line	200	EN20L41xx1F (xx=GR, AL, S4, S6)	1	OVER	4	N	1	1
Eaton B-Line	200	EN20L42xx1F (xx=GR, AL, S4, S6)	1	UNDER	4	N	1	1
Eaton B-Line	200	EN20L43xx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	1	1
Eaton B-Line	200	EN20L51xx1F (xx=GR, AL, S4, S6)	1	OVER	5	N	1,2	1
Eaton B-Line	200	EN20L52xx1F (xx=GR, AL, S4, S6)	1	UNDER	5	N	1,2	1
Eaton B-Line	200	EN20L53xx1F (xx=GR, AL, S4, S6)	1	OH/UG	5	N	1,2	1
Eaton B-Line	200	ENCB20L25A3xx1F (xx=GR, AL, S4, S6)	1	OH/UG	5	N	1,2	1
Eaton B-Line	200	HEL20432Cxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	Y	3	2
Eaton B-Line	200	HEL20433Cxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	Y	3	3
Eaton B-Line	200	HEL20434Cxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	Y	3	4
Eaton B-Line	200	HEL20435Cxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	Y	3	5

Participants:


**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Eaton B-Line	200	HEL20436Cxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	Y	3	6
Eaton B-Line	200	HEL20732Cxx1F (xx=GR, AL, S4, S6)	3	OH/UG	7	Y	4	2
Eaton B-Line	200	HEL20733Cxx1F (xx=GR, AL, S4, S6)	3	OH/UG	7	Y	4	3
Eaton B-Line	200	HEL20734Cxx1F (xx=GR, AL, S4, S6)	3	OH/UG	7	Y	4	4
Eaton B-Line	200	HEL20735Cxx1F (xx=GR, AL, S4, S6)	3	OH/UG	7	Y	4	5
Eaton B-Line	200	HEL20736Cxx1F (xx=GR, AL, S4, S6)	3	OH/UG	7	Y	4	6
Eaton B-Line	200	VENMP20432Lxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	3	2
Eaton B-Line	200	VENMP20433Lxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	3	3
Eaton B-Line	200	VENMP20434Cxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	3	4
Eaton B-Line	200	VENMP20435Cxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	3	5
Eaton B-Line	200	VENMP20436Cxx1F (xx=GR, AL, S4, S6)	1	OH/UG	4	N	3	6
Eaton B-Line	400	EL32T53xx1F (xx=GR, AL, S4, S6)	1	OH/UG	5	Y	3,3a	1
Eaton B-Line	400	EL32T56xx1F (xx=GR, AL, S4, S6)	1	OH/UG	5	Y	3,3a	1
Eaton B-Line	400	EL32T75xx1F (xx=GR, AL, S4, S6)	3	OH/UG	7	Y	4	1
Eaton B-Line	400	EL32T76xx1F (xx=GR, AL, S4, S6)	3	OH/UG	7	Y	4	1
Eaton B-Line	400	ELCB32C25A5xx1F (xx=GR, AL, S4, S6)	1	OH/UG	5	Y	3,3a	1
Eaton	100	MB1224B100BTS	1	OH/UG	4	N	1	1
Eaton	100	UTZ-xR1121C-FLCH (x=2-5)	1	OH/UG	4	N	1	2-5
Eaton	100	UTZ-6R1131CFLCH	1	OH/UG	4	N	1	6
Eaton	100	UATZ-xR1121CFLCH (x=2-5)	1	OH/UG	4	N	1 AI	2-5
Eaton	125	1MMx12RRLP or RRLCP (x=3-6)	1	OH/UG	4	N	1	3-6
Eaton	125	1MMx12RRL, RRLC (x=3-6)	1	OH/UG	4	N	1	3-6
Eaton	125	1MPx124RRLP or RRLCP (x=3-4)	1	OH/UG	4	N	1	3-4
Eaton	125	1MPx124RRL, RRLC (x=3-4)	1	OH/UG	4	N	1	3-4
Eaton	125	1MPx126RRLP or RRLCP (x=5-6)	1	OH/UG	4	N	1	5-6
Eaton	125	1MPx126RRLP, RRLC (x=5-6)	1	OH/UG	4	N	1	5-6
Eaton	125	3MMx12R12RLP (x=2-6)	1	OH/UG	4	N	1	2-6
Eaton	125	3MMx12R12RL (x=2-6)	1	OH/UG	4	N	1	2-6
Eaton	125	3MMx12RRLCP (x=2-6)	1	OH/UG	4	N	1	2-6
Eaton	125	3MMx12RRLP (x=2-6)	1	OH/UG	4	N	1	2-6
Eaton	125	CHR (POWER OUTLET PANEL)	1	OH/UG	4	N	1	1
Eaton	125	MBT48B125BTS	1	OH/UG	4	N	1	1
Eaton	125	UATZ-RS101C-FLCH	1	OH/UG	4	N	1 AI	1
Eaton	125	UT-RS101xE (x=B,C)	1	OH	4	N	1	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Eaton	125	UTZ-RS101C-FLCH	1	OH/UG	4	N	1	1
Eaton	150	MB816B150BTS	1	OH/UG	4	N	1	1
Eaton	150	MBB150BTS	1	OH/UG	4	N	1	1
Eaton	150	MBT48B150BTS	1	OH/UG	4	N	1	1
Eaton	200	UT-RS212C-FLCH	1	OH/UG	4	N	1	1
Eaton	200	1012978-CH	1	OH/UG	4	N	1	1
Eaton	200	UT-RS233C-FLCH	1	OH/UG	4	N	1	1
Eaton	200	UAT-RS233C-FLCH	1	OH/UG	4	N	1 AI	1
Eaton	200	1MMx20RRLP or RRLCP (x=3-4)	1	OH/UG	4	N	3	3-4
Eaton	200	1MMx20RRL, RRLC (x=3-5)	1	OH/UG	4	N	3	3-5
Eaton	200	1MP2204RRLP or RRLCP	1	OH/UG	4	N	1	2
Eaton	200	1MP2204RRL, RRLC	1	OH/UG	4	N	1	2
Eaton	200	1MPx206RRLP or RRLCP (x=3-6)	1	OH/UG	4	N	1	3-6
Eaton	200	1MPx206RRL, RRLC (x=3-6)	1	OH/UG	4	N	1	3-6
Eaton	200	3MMx20R12RRLP (x=2-5)	1	OH/UG	4	N	3	2-5
Eaton	200	3MMx20R12RL (x=2-5)	1	OH/UG	4	N	3	2-5
Eaton	200	3MMx20RRLCP (x=2-5)	1	OH/UG	4	N	3	2-5
Eaton	200	3MMx20RRLC (x=2-5)	1	OH/UG	4	N	3	2-5
Eaton	200	3MMx20RRLP (x=2-5)	1	OH/UG	4	N	3	2-5
Eaton	200	3MMx20RRL (x=2-5)	1	OH/UG	4	N	3	2-5
Eaton	200	CMB1212B200BTS	1	OH/UG	4	N	1	1
Eaton	200	CMB1212L200BTS	1	OH/UG	4	N	1	1
Eaton	200	CMB1212P200BTS	1	OH/UG	4	N	1	1
Eaton	200	CMB2424B200BTS	1	OH/UG	4	N	1	1
Eaton	200	CMB2436B200BTS	1	OH/UG	4	N	1	1
Eaton	200	MB1212L200BTS	1	OH/UG	4	N	1	1
Eaton	200	MB1212L200BTSA	1	OH/UG	4	N	1 AI	1
Eaton	200	MB2040B200BTS	1	OH/UG	4	N	1	1
Eaton	200	MB2040P200BTS	1	OH/UG	4	N	1	1
Eaton	200	MB816B200BTS	1	OH/UG	4	N	1	1
Eaton	200	MB816P200BTS or BTSCU	1	OH/UG	4	N	1	1
Eaton	200	MBB200BTS	1	OH/UG	4	N	1	1
Eaton	200	MBP200BTS	1	OH/UG	4	N	1	1
Eaton	200	MBT48B200BTS	1	OH/UG	4	N	1	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Eaton	200	UAT-4R2352UFLCH	1	OH/UG	4	N	1 AI	4
Eaton	200	UAT-H4203x-FLCH (x=B or T)	1	OVER	4	Y	1 AI	1
Eaton	200	UAT-H5203x-FLCH (x=B or T)	1	OVER	5	Y	3,3a,b AI	1
Eaton	200	UAT-H7203x-FLCH (x=B or T)	3	OVER	7	Y	4 AI	1
Eaton	200	UAT-RS202B-FLCH	1	OVER	4	N	1 AI	1
Eaton	200	UAT-RS212C-FLCH	1	OH/UG	4	N	1 AI	1
Eaton	200	UAT-RS213A-FLCH	1	UNDER	4	N	1 AI	1
Eaton	200	UAT-RS213C-FLCH	1	OH/UG	4	N	1 AI	1
Eaton	200	UAT-RS223A-FLCH	1	UNDER	4	N	1 AI	1
Eaton	200	UAT-xR2332U-FLCH (x=2-3)	1	OH/UG	4	N	1 AI	2-3
Eaton	200	UATxR2392UUFLCH (x=5-6)	1	OH/UG	4	N	1 AI	5-6
Eaton	200	UAT-y4213x-FLCH (y=E or H, where x=C or U)	1	OH/UG	4	Y	1 AI	1
Eaton	200	UAT-y5213x-FLCH (y=E or H, where x=C or U)	1	OH/UG	5	Y	3,3a,b AI	1
Eaton	200	UAT-y7213x-FLCH (y=E or H, where x=C or U)	3	OH/UG	7	Y	4 AI	1
Eaton	200	UT-4R2352U-FLCH	1	OH/UG	4	N	1	4
Eaton	200	UT92197CC-FL-CH	1	OH/UG	4	N	1	1
Eaton	200	UT-RS202B-FLCH	1	OVER	4	N	1	1
Eaton	200	UT-RS213A-FLCH	1	UNDER	4	N	1	1
Eaton	200	UT-RS213xE (x=A, B, C)	1	OH/UG	4	N	1	1
Eaton	200	UT-RS213C-FLCH	1	OH/UG	4/5	N	1,2	1
Eaton	200	UT-RS223A-FLCH	1	UNDER	4	N	1	1
Eaton	200	UT-xR2332U-FLCH (x=2-3)	1	OH/UG	4	N	1	2-3
Eaton	200	UT-xR2392UU-FLCH (x=5-6)	1	OH/UG	4	N	1	5-6
Eaton	200	UT-y4203x-FLCH (y=E or H, where x=B or T)	1	OVER	4	Y	1	1
Eaton	200	UT-y4213x-FLCH (y=E or H, where x=C or U)	1	OH/UG	4	Y	1	1
Eaton	200	UT-y5203x-FLCH (y=E or H, where x=B or T)	1	OVER	5	Y	3,3a,b	1
Eaton	200	UT-y5213x-FLCH (y=E or H, where x=C or U)	1	OH/UG	5	Y	3,3a,b	1
Eaton	200	UT-y7203x-FLCH (y=E or H, where x=B or T)	3	OVER	7	Y	4	1
Eaton	200	MB48B200BTSG	1	OH/UG	4	N	1	1
Eaton	200	MB2040PV200BTS	1	OH/UG	4	N	1	1
Eaton	200	UT-y7213x-FLCH (where y=E or H, x=C or U)	3	OH/UG	7	Y	4	1
Eaton	225	35MMx20R12 or R12C (x=1-4)	1	OH/UG	5	Y	3,3a	1-4
Eaton	225	37MMx20R12 or R12C (x=1-4)	3	OH/UG	7	Y	4	1-4
Eaton	400	1008836CH	1	OH/UG	4	Y	1	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Eaton	400	1008837CH	1	OH/UG	4	Y	1 AI	1
Eaton	400	1011619CH	1	OH/UG	4	Y	1	1
Eaton	400	35MM140R1240	1	UNDER	5	Y	3	1
Eaton	400	35MM240R1240	1	UNDER	5	Y	3	2
Eaton	400	37MM140R1240	3	UNDER	7	Y	4	1
Eaton	400	37MM240R1240	3	UNDER	7	Y	4	1
Eaton	400	CG1212P400BSL	1	UNDER	4	Y	3	1
Eaton	400	CG404242SHL	1	UNDER	4	Y	3	1
Eaton	400	CG40SHL	1	UNDER	4	Y	3	1
Eaton	400	HP404040SHL	1	UNDER	4	Y	3	1
Eaton	400	HP40SHL	1	UNDER	4	Y	3	1
Eaton	400	HP816Px00BSL (x = 3 or 4)	1	UNDER	4	Y	3	1
Eaton	400	HPCx046SHLG (x = 3 or 4)	1	OH/UG	4	Y	3	1
Eaton	400	HPCx0SHL (x = 3 or 4)	1	OH/UG	4	Y	3	1
Eaton	400	MBRL08Bx00 (x = 3 or 4)	1	UNDER	4	Y	3	1
Eaton	400	MBRL08Bx00SUR (x = 3 or 4)	1	UNDER	4	Y	3	1
Eaton	400	MBRL40Bx00 (x = 3 or 4)	1	UNDER	4	Y	3	1
Eaton	400	MBRL40Bx00SUR (x = 3 or 4)	1	UNDER	4	Y	3	1
Eaton	400	MCHL16Bx00 (x = 3 or 4)	1	UNDER	4	Y	3	1
Eaton	400	MCHL42Bx00 (x = 3 or 4)	1	UNDER	4	Y	3	1
Eaton	400	MLBx00 (x = 3 or 4)	1	UNDER	4	Y	3	1
Eaton	400	MBRLC08Bx00 (x = 3 or 4)	1	OH/UG	4	Y	3	1
Eaton	400	MBRLC08Bx00SUR (x = 3 or 4)	1	OH/UG	4	Y	3	1
Eaton	400	MLCBx00 (x = 3 or 4)	1	OH/UG	4	Y	3	1
Eaton	400	MLCBx00SUR (x = 3 or 4)	1	OH/UG	4	Y	3	1
Eaton	400	UAT-H4300T-FLCH	1	OVER	4	Y	1 AI	1
Eaton	400	UAT-H5300T-FLCH	1	OVER	5	Y	3,3a,b AI	1
Eaton	400	UAT-H5330U-FLCH	1	OH/UG	5	Y	3,3a,b AI	1
Eaton	400	UAT-H7300T-FLCH	3	OVER	7	Y	4 AI	1
Eaton	400	UAT-H7330U-FLCH	3	OH/UG	7	Y	4 AI	1
Eaton	400	UT-H4300T-FLCH	1	OVER	4	Y	1	1
Eaton	400	UT-H43068T-FLCH	1	OH/UG	4	Y	1	1
Eaton	400	UT-H5300T-FLCH	1	OVER	5	Y	3,3a,b	1
Eaton	400	UT-H5330U-FLCH	1	OH/UG	5	Y	3,3a,b	1

Participants:


**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Eaton	400	UT-H7300T-FLCH	3	OVER	7	Y	4	1
Eaton	400	UT-H7330U-FLCH	3	OH/UG	7	Y	4	1
Eaton	400	UTH73368UFLCH	3	OH/UG	7	Y	4	1
Eaton	600	CH9526K7 (Requires Ridged Lugs) FPL ONLY	3	OH/UG	7	Y	5	1
Eaton	600	CH9527K7 (Requires Ridged Lugs) FPL ONLY	3	OH/UG	7	Y	5 Al	1
Elec.Prod.	100	RVP-xxxx-FPL	1	UNDER	4	N	1	1
Elec.Prod.	200	MHP-xxxx-FPL	1	UNDER	4	N	1	1
Emerson	125	MESBGFXLW11FBZ1	1	UNDER	5	Y	3a	1
Emerson	125	MESBGFXLW11FBZ1P	1	UNDER	5	Y	3a	1
Emerson	125	MESBGFXLW11KBZ1	1	UNDER	5	Y	3a	1
Emerson	125	MESBGFXLW11KBZ1P	1	UNDER	5	Y	3a	1
Emerson	200	MESBAATLW11FBZ1	1	UNDER	5	Y	3a	1
Emerson	200	MESBAATLW11FBZ1P	1	UNDER	5	Y	3a	1
Emerson	200	MESBAATLW11KBZ1	1	UNDER	5	Y	3a	1
Emerson	200	MESBAATLW11KBZ1P	1	UNDER	5	Y	3a	1
Generac	200	RXUW200A3 (w/ integrated transfer switch for standby generation)	1	OH/UG	4/5	N	1	1
Generac	150	RXUW150A3 (w/integrated transfer switch for standby generation)	1	OH/UG	4/5	N	1	1
Generac	200	RBU200A3 (transfer switch not included)	1	OH/UG	4/5	N	1	1
Generac	150	RBU150A3 (transfer switch not included)	1	OH/UG	4/5	N	1	1
Jamestown Advanced	125	PSURFMEG-RL-YYY-ZZ (y=5,3, or 2) (z=NO, SL, or CL)	1	OH	4	N	1	1
Jamestown Advanced	125	PPEDEMEG-RL-YYY-ZZ (y=5,3, or 2) (z=NO, SL, or CL)	1	UG	4	N	1	1
Jamestown Advanced	125	PPADMMEG-RL-YYY-ZZ (y=5,3, or 2) (z=NO, SL, or CL)	1	UG	4	N	1	1
Leviton	150	LP815-TMC	1	OH/UG	4	N	1	1
Leviton	150	LS815-BTD	1	OH/UG	4	N	1	1
Leviton	150	LP815-MC	1	OH/UG	4	N	1	1
Leviton	150	LP815-5MC	1	OH/UG	5	Y	2	1
Leviton	150	LS815-B5D	1	OH/UG	5	Y	2	1
Leviton	150	LP815-LMC	1	OH/UG	4	Y	1	1
Leviton	150	LS815-BLD	1	OH/UG	4	Y	1	1
Leviton	300	LS130-S5D	1	OH/UG	5	Y	2,3a	1
Leviton	300	LS130-SLD	1	OH/UG	4	Y	1,3	1
Leviton	400	LS140-S5D	1	OH/UG	5	Y	2,3a	1
Leviton	400	LS140-SLD	1	OH/UG	4	Y	1,3	1
Leviton	200	LP820-TMC	1	OH/UG	4	N	1	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Leviton	200	LS820-BTD	1	OH/UG	4	N	1	1
Leviton	200	LP820-5MC	1	OH/UG	5	Y	2	1
Leviton	200	LS820-B5D	1	OH/UG	5	Y	2	1
Leviton	200	LP820-LMC	1	OH/UG	4	Y	1	1
Leviton	200	LS820-BLD	1	OH/UG	4	Y	1	1
Leviton	200	LP820-MC	1	OH/UG	4	N	1	1
Midwest	70	R155MBC033FMG	1	OVER	4	N	1	1
Midwest	70	R155MBC033UFMG	1	UNDER	4	N	1	1
Midwest	100	R175MCB6010FMG	1	Un-Ped	4	N	1	1
Midwest	100	R175MCP6010FMG	1	Un-Ped	4	N	1	1
Midwest	100	R111CB2010FMG	1	OH/UG	4	N	1	1
Midwest	100	R138CB2033FMG	1	OH/UG	4	N	1	1
Midwest	100	R176CB2033FMG	1	OH/UG	4	N	1	1
Midwest	100	R176MBC033FMG	1	OVER	4	N	1	1
Midwest	100	R111MBC010UFMG	1	UNDER	4	N	1	1
Midwest	100	R111MBC010FMG	1	OVER	4	N	1	1
Midwest	100	R138MBC033UFMG	1	UNDER	4	N	1	1
Midwest	100	R138MBC033FMG	1	OVER	4	N	1	1
Midwest	100	UTZ6R1131CFLMEP	1	OH/UG	4	N	1	6
Midwest	100	UATZ-xR1121CFLMEP (x=2-5)	1	OH/UG	4	N	1 AI	2-5
Midwest	100	UTZxR1121CFLMEP (x=2-5)	1	OH/UG	4	N	1	2-5
Midwest	125	UATZRS101CFLMEP	1	OH/UG	4	N	1 AI	1
Midwest	125	UTZ-RS101CFLMEP	1	OH/UG	4	N	1	1
Midwest	150	R158CR2TLFMG	1	OH/UG	4	N	1	1
Midwest	200	1012978-MEP	1	OH/UG	4	N	1	1
Midwest	200	UT-RS233C-FLMEP	1	OH/UG	4	N	1	1
Midwest	200	UAT-RS233CFLMEP	1	OH/UG	4	N	1 AI	1
Midwest	200	R208CR2TLFMG	1	OH/UG	4	N	1	1
Midwest	200	R281C1B6HFMG	1	Un-Ped	4	N	1	1
Midwest	200	R281C1P6HFMG	1	Un-Ped	4	N	1	1
Midwest	200	R281CB1FMG	1	OH/UG	4	N	1	1
Midwest	400	RS45500C (2 X 200MB)	1	UNDER	4	Y	3	1
Midwest	400	RS45508C (2 X 200MB)	1	UNDER	4	Y	3	1
Midwest	200	UT-RS212C-FL-MEP	1	OH/UG	4	N	1	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Midwest	200	UAT-xR2332U-FLMEP (x=2-3)	1	OH/UG	4	N	1 AI	2-3
Midwest	200	UT-RS202B-FL-MEP	1	OVER	4	N	1	1
Midwest	200	UAT-4R2352UFLMEP	1	OH/UG	4	N	1 AI	4
Midwest	200	UAT-H4203xFLMEP (x=B or T)	1	OVER	4	Y	1 AI	1
Midwest	200	UAT-H4213xFLMEP (x=C or U)	1	OH/UG	4	Y	1 AI	1
Midwest	200	UAT-H5203xFLMEP (x=B or T)	1	OVER	5	Y	3,3a,b AI	1
Midwest	200	UAT-H5213xFLMEP (x=C or U)	1	OH/UG	5	Y	3,3a,b AI	1
Midwest	200	UAT-H7203x-FLMEP (x=B or T)	3	OVER	7	Y	4 AI	1
Midwest	200	UAT-xR2392UUFLMEP (x=5-6)	1	OH/UG	4	N	1 AI	5-6
Midwest	200	UAT-H7213xFLMEP (x=C or U)	3	OH/UG	7	Y	4 AI	1
Midwest	200	UAT-RS202BFLMEP	1	OVER	4	N	1 AI	1
Midwest	200	UAT-RS212CFLMEP	1	OH/UG	4	N	1 AI	1
Midwest	200	UAT-RS213AFLMEP	1	UNDER	4	N	1 AI	1
Midwest	200	UAT-RS213CFLMEP	1	OH/UG	4	N	1 AI	1
Midwest	200	UAT-RS223AFLMEP	1	UNDER	4	N	1 AI	1
Midwest	200	UT-4R2352UFLMEP	1	OH/UG	4	N	1	4
Midwest	200	UT92197CC-FLMEP	1	OH/UG	4	N	1	1
Midwest	200	UT-H4203x-FLMEP (x=B or T)	1	OVER	4	Y	1	1
Midwest	200	UT-H4213x-FLMEP (x=C or U)	1	OH/UG	4	Y	1	1
Midwest	200	UT-H5203x-FLMEP (x=B or T)	1	OVER	5	Y	3,3a,b	1
Midwest	200	UT-H5213x-FLMEP (x=C or U)	1	OH/UG	5	Y	3,3a,b	1
Midwest	200	UT-H7203x-FLMEP (x=B or T)	3	OVER	7	Y	4	1
Midwest	200	UT-RS213A-FLMEP	1	UNDER	4	N	1	1
Midwest	200	UT-RS213C-FLMEP	1	OH/UG	4	N	1	1
Midwest	200	UT-RS223A-FLMEP	1	UNDER	4	N	1	1
Midwest	200	UT-H7213x-FLMEP (x=C or U)	3	OH/UG	7	Y	1	1
Midwest	200	UT-xR2332UFLMEP (x=2-3)	1	OH/UG	4	N	1	2-3
Midwest	400	UT-H43068T-FLMEP	1	OH/UG	4	Y	1	1
Midwest	200	UTxR2392UUFLMEP (x = 5-6)	1	OH/UG	4	N	1	5-6
Midwest	400	1011619-MEP	1	OH/UG	4	Y	1	1
Midwest	400	1008836-MEP	1	OH/UG	4	Y	1	1
Midwest	400	1008837-MEP	1	OH/UG	4	Y	1 AI	1
Midwest	400	RS45524CFMG	1	UNDER	4/5	Y	1,2	1
Midwest	400	UAT-H4300TFLMEP	1	OVER	4	Y	1 AI	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Midwest	400	UAT-H5300TFLMEP	1	OVER	5	Y	3,3a,b Al	1
Midwest	400	UAT-H5330UFLMEP	1	OH/UG	5	Y	3,3a,b Al	1
Midwest	400	UAT-H7300TFLMEP	3	OVER	7	Y	4 Al	1
Midwest	400	UAT-H7330UFLMEP	3	OH/UG	7	Y	4 Al	1
Midwest	400	UT-H4300T-FLMEP	1	OVER	4	Y	1	1
Midwest	400	UT-H5300T-FLMEP	1	OVER	5	Y	3,3a,b	1
Midwest	400	UT-H5330UFLMEP	1	OH/UG	5	Y	3,3a,b	1
Midwest	400	UT-H7300TFLMEP	3	OVER	7	Y	4	1
Midwest	400	UT-H7336-8UFLMEP	3	OH/UG	7	Y	4	1
Midwest	400	UT-H7330UFLMEP	3	OH/UG	7	Y	4	1
Milbank	60	USS6542-RL-5T9-HSP (Stainless)	1	OVER	4/5	Y	1,2,3,3a	1
Milbank	60	USSP6542-RL-5T9-HSP (Stainless Painted)	1	OVER	4/5	Y	1,2,3,3a	1
Milbank	60	UAP6542-RL-5T9-HSP (Painted Aluminum)	1	OVER	4/5	Y	1,2,3,3a	1
Milbank	60	UA6542-RL-5T9-HSP (Aluminum)	1	OVER	4/5	Y	1,2,3,3a	1
Milbank	60	U6542-RL-5T9-HSP	1	OVER	4/5	Y	1,2,3,3a	1
Milbank		UAP5844-RL-Y-HSP (Y=100, 150, 200 AMPS)	1	OH/UG	4	N	1	1
Milbank		U5844-RL-Y-HSP (Y=100, 150, 200 AMPS)	1	OH/UG	4	N	1	1
Milbank		U5168-XL-Y-HSP (Y=100,125,150,200 AMPS)**	1	OH/UG	4/5	N	1	1
Milbank		U5168-XTL-Y-HSP (Y=100,125,150,200 AMPS)**	1	OH/UG	4/5	N	1	1
Milbank		U5268-XL-Y-HSP (Y=150, 200 AMPS)**	1	OH/UG	4/5	N	1	1
Milbank		U5268-XTL-Y-HSP (Y=150, 200 AMPS)**	1	OH/UG	4/5	N	1	1
Milbank	100	U4908-O-100MB-11GR-HSP	1	OH/UG	4	N	1	1
Milbank	100	U5101-XL-100MB-11GR-HSP	1	OH/UG	4	N	1	1
Milbank	100	U349y-XL-HSP (y=2-6)	1	OH/UG	4/5	N	1,2	2-6
Milbank	100	U513y-O-100P-FMG (y=6-9) not NEC2020 compliant	1	Un-Ped	4/5	N	1,2	1-2
Milbank	100	U513y-O-100S-10GR-FMG (y=6-9)	1	Un-Ped	4/5	N	1,2	1-2
Milbank	100	U513y-O-100S-FMG (y=6-9)	1	Un-Ped	4/5	N	1,2	1-2
Milbank	100	U5842-RL-100-HSP	1	OVER	4	N	1	1
Milbank	100	U6266-XTL-100-HSP	1	OH/UG	4/5	N	1,2	1
Milbank	100	UAP349y-XL-HSP (y=2-6)	1	OH/UG	4/5	N	1,2 Al	2-6
Milbank	100	U6396-O-100-10GR-HSP	1	UNDER	4	Y	3	1
Milbank	125	U3505-XL-HSP	1	OH/UG	5	Y	3,3a	1
Milbank	125	U3505-XL-TG-HSP	1	OH/UG	5	Y	3,3a	1
Milbank	125	U3506-XL-TG-HSP	3	OH/UG	7	Y	4	1

Participants:


**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Milbank	125	U4908-O-11GR-HSP	1	UNDER	4	N	1	1
Milbank	125	U5101-XL-11GR-HSP	1	OVER	4	N	1	1
Milbank	125	U513y-O-125P-FMG (y=6-9) not NEC2020 compliant	1	Un-Ped	4/5	N	1,2	1-2
Milbank	125	U513y-O-125S-FMG (y=6-9)	1	Un-Ped	4/5	N	1,2	1-2
Milbank	125	U8435-XL-TG-HSP	1	OVER	4/5	N	1,2	1
Milbank	125	UAP3505-XL-TG-HSP	1	OH/UG	5	Y	3,3a AI	1
Milbank	125	UAP3506-XL-TG-HSP	3	OH/UG	7	Y	4 AI	1
Milbank	125	UAP8435-XL-TG-HSP	1	OH/UG	4/5	N	1,2 AI	1
Milbank	125	U590(y)-X-HSP (y= #of positions, 2,3,4,5,6)	1	Mtr Ctr	4/5	N	1,2	2-6
Milbank	150	U123y-X-HSP (y=2-6)	1	OH/UG	4/5	N	1,2	2-6
Milbank	150	U5137-O-150S-FMG	1	Un-Ped	4/5	N	1,2	1-2
Milbank	150	U5136-O-150S-FMG	1	Un-Ped	4/5	N	1,2	1-2
Milbank	150	U513y-O-150S-10GR-FMG (y=6-9)	1	Un-Ped	4/5	N	1,2	1-2
Milbank	150	U513y-O-150S-FMG (y=6-9)	1	Un-Ped	4/5	N	1,2	1-2
Milbank	150	U5842-RL-150-HSP	1	OVER	4	N	1	1
Milbank	150	U6266-XTL-150-HSP	1	OH/UG	4/5	N	1,2	1
Milbank	200	CP3B5####x##### (x= D,P,R,S)(#=Cust. Option)	1	Un-Ped	4/5	Y	3,3a	1
Milbank	200	CP3B5####x##### (x= D,P,R,S)(#=Cust. Option)	3	Un-Ped	5/7	Y	3b,4	1
Milbank	200	CP3A5xxxxM (x= customer options)	1	Un-Ped	4/5	Y	3,3a	1
Milbank	200	CP3A5xxxxK (x = customer options)	3	Un-Ped	5/7	Y	3b,4	1
Milbank	200	CP2BXXXXN x= multiple customer side configurations	1	OH/UG	4	Y	1,3	1
Milbank	200	U125Y-X-HSP (y=2-6)	1	OH/UG	4/5	N	1,2	2-6
Milbank	200	U1980-O-HSP	1	UNDER	4/5	N	1,2	1
Milbank	200	U273y-XT-HSP (y=2-6)	3	OH/UG	7	Y	4	2-6
Milbank	200	U287y-XT-HSP (y=2-6)	1	OH/UG	5	Y	3,3a	2-6
Milbank	200	U3296-X-HSP	1	OH/UG	5	Y	3,3a,3b	1
Milbank	200	U3306-X-HSP	3	OH/UG	7	Y	4	1
Milbank	200	U3850-XL-TG-HSP-PL	1	OH/UG	4/5	N	1,2	1
Milbank	200	U5136-O-200S-FMG	1	Un-Ped	4/5	N	1,2	1
Milbank	200	U5137-O-200S-FMG	1	Un-Ped	4/5	N	1,2	2
Milbank	200	U5842-RL-200-HSP	1	OVER	4	N	1	1
Milbank	200	U6266-XTL-200-HSP	1	OH/UG	4/5	N	1,2	1
Milbank	200	U6396-O-200-HSP-CCDOT (30amp cust. breaker)	1	Un-Ped	4	Y	3	1
Milbank	200	U6435-O-200-HSP-CCDOT (30amp cust. breaker)	1	Un-Ped	4	Y	3	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Milbank	200	U6396-O-200-HSP-NCDOT (50amp cust. breaker)	1	Un-Ped	4	Y	3	1
Milbank	200	U6435-O-200-HSP-NCDOT (50amp cust. breaker)	1	Un-Ped	4	Y	3	1
Milbank	200	U7021-RL-TG-HSP	1	OVER	4/5	N	1,2	1
Milbank	200	U7040-O-TG-HSP	1	UNDER	4	N	1,2	1
Milbank	200	U7040-XL-TG-5T-HSP	1	OH/UG	5	N	1,2	1
Milbank	200	U7040-XL-TG-HSP	1	OH/UG	4/5	N	1,2	1
Milbank	200	U9550-RRL-QG-HSP	1	OVER	5	Y	3,3a,b	1
Milbank	200	U9551-X-QG-HSP	1	OH/UG	5	Y	3,3a,b	1
Milbank	200	U9700-RRL-QG-HSP	3	OVER	7	Y	4	1
Milbank	200	U9701-X-QG-HSP	3	OH/UG	7	Y	4	1
Milbank	200	U9801-X-QG -HSP	1	OH/UG	4	Y	1,2	1
Milbank	200	UAP125y-X-HSP (y=2-6)	1	OH/UG	4/5	Y	1,2 AI	2-6
Milbank	200	UAP1980-O-HSP	1	UNDER	4/5	N	1,2 AI	1
Milbank	200	UAP3296-X-HSP	1	OH/UG	5	Y	3,3a,b AI	1
Milbank	200	UAP3306-X-HSP	3	OH/UG	7	Y	4 AI	1
Milbank	200	UAP7021-RL-TG-HSP	1	OVER	4/5	N	1,2 AI	1
Milbank	200	UAP7040-O-TG-HSP	1	UNDER	4/5	N	1,2 AI	1
Milbank	200	UAP7040-XL-TG-HSP	1	OH/UG	4/5	N	1,2 AI	1
Milbank	200	UAP9551-X-QG-HSP	1	OH/UG	5	Y	3,3a,b AI	1
Milbank	200	UAP9700-RRL-QG-HSP	3	OVER	7	Y	4 AI	1
Milbank	200	U6396-O-200-10GR-HSP	1	UNDER	4	Y	3	1
Milbank	200	UAP9701-X-QG-HSP	3	OH/UG	7	Y	4 AI	1
Milbank	200	U588(y)-X-HSP (y= # of positions, 2,3,4,5,6)	1	Mtr Ctr	4/5	N	1	2-6
Milbank	200	U6549-XL-200NF Cold Sequence, check with utility for use	1	OH/UG	4/5	Y	3,3a	1
Milbank	200	U6615-XL-200NF Cold Sequence, check with utility for use	3	OH/UG	5	Y	3a	1
Milbank	200	U6550-XL-200NF Cold Sequence, check with utility for use	3	OH/UG	7	Y	4	1
Milbank	200	U6551-XL-200F Cold Sequence, check with utility for use	1	OH/UG	4/5	Y	3,3a	1
Milbank	200	U6616-XL-200F Cold Sequence, check with utility for use	3	OH/UG	5	Y	3a	1
Milbank	200	U6552-XL-200F Cold Sequence, check with utility for use	3	OH/UG	7	Y	4	1
Milbank	400	U1797-O-K3L-K2L-HSP	1	OH/UG	4	Y	3	1
Milbank	400	U1129-O-K3L-K2L-HSP	1	UNDER	4/5	Y	3,3a	1
Milbank	400	U2120-O-HSP	3	OH/UG	7	Y	4	1
Milbank	400	U2124-O-HSP	1	UNDER	4	Y	3	1
Milbank	400	U3313-X-HSP	1	OH/UG	5	Y	3,3a	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Milbank	400	U3566-X-HSP	3	OH/UG	7	Y	4	1
Milbank	400	U3949-X-HSP	1	OVER	5	Y	3,3a	1
Milbank	400	U4363-X-HSP	1	OVER	4	Y	3	1
Milbank	400	U5864-X-HSP	1	OH/UG	5	Y	3,3a	1
Milbank	400	U6227-X-400-K3L-HSP	1	OH/UG	4	Y	3	1
Milbank	400	U6229-X-400-K7L-HSP	3	OH/UG	7	Y	3a	1
Milbank	400	U6267-X-2/100-HSP	1	OH/UG	4	Y	3	1
Milbank	400	U6267-X-2/150-HSP	1	OH/UG	4	Y	3	1
Milbank	400	U6587-X-2/200-HSP	1	OH/UG	4	Y	3	1
Milbank	400	U6267-X-2/200-HSP	1	OH/UG	4	Y	3	1
Milbank	400	U6267-X-200 -150-HSP	1	OH/UG	4	Y	3	1
Milbank	400	U6272-X-HSP	1	OH/UG	4	Y	3	1
Milbank	400	UAP2124-O-HSP	1	UNDER	4	Y	4 Al	1
Milbank	400	UAP3313-X-HSP	1	OH/UG	5	Y	3,3a Al	1
Milbank	400	UAP3566-X-HSP	3	OH/UG	7	Y	4 Al	1
Milbank	400	UAP3949-X-HSP	1	OVER	5	Y	3,3a Al	1
Milbank	400	UAP5864-X-HSP	1	OH/UG	5	Y	3,3a Al	1
Milbank	400	UAP6272-X-HSP	1	OH/UG	4	Y	3 Al	1
Milbank	400	UAP6601-X-2/200-5T9-HSP (Aluminum)	1	OH/UG	4/5	Y	1,2,3,3a	1
Milbank	400	U6602-X-2/200-5T9-MLK-HSP	1	OH/UG	4/5	Y	1,2,3,3a	1
Milbank	400	UAP6602-X-2/200-5T9-MLK-HSP (Aluminum)	1	OH/UG	4/5	Y	1,2,3,3a	1
Milbank	400	U6601-X-2/200-5T9-HSP	1	OH/UG	4/5	Y	1,2,3,3a	1
Milbank	60	U6419-XL-HSP	1	OH/UG	4	N	1	1
Milbank	60	U6421-XL-HSP	1	OH/UG	4	Y	3	1
Milbank	600	U4667-X-8528 (Req. Ridged Lugs) FPL ONLY	3	OH/UG	7	Y	5	1
Milbank	600	U4667-X-9526 (Req. Ridged Lugs) FPL ONLY	3	OH/UG	7	Y	5	1
Milbank	600	UA4667-X-8529 (Req. Ridged Lugs) FPL ONLY	3	OH/UG	7	Y	5 Al	1
Milbank	600	UA4667-X-9527 (Req. Ridged Lugs) FPL ONLY	3	OH/UG	7	Y	5 Al	1
Pacific Technical	125	PTS93x14-### x=all options, ### =all options	1	OH	4	N	6	1
Pacific Technical	125	PTS93x24-### x=all options, ### =all options	1	UG	4	N	6	1
Pacific Technical	125	PTS93x34-### x=all options, ### =all options	1	OH/UG	4	N	6	1
Pacific Technical	125	PTS93x14-###-5J x=all options, ### =all options	1	OH	5	N	6	1
Pacific Technical	125	PTS93x24-###-5J x=all options, ### =all options	1	UG	5	N	6	1
Pacific Technical	125	PTS93x34-###-5J x=all options, ### =all options	1	OH/UG	5	N	6	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Raycap	200	RMx-E2N-X12MS-21NN (x= D(Gry), B(Blk), G(Grn), N(Br), L(Blu)	1	OH/UG	4	N	1	1
Raycap	200	RMx-E2N-Z12MS-21NN (x= D(Gry), B(Blk), G(Grn), N(Br), L(Blu)	1	OH/UG	4	N	1	1
Raycap	200	RMx-E2C-X12MS-21NN (x= D(Gry), B(Blk), G(Grn), N(Br), L(Blu)	1	OH/UG	4	N	1	1
Raycap	200	RMx-E2C-Z12MS-21NN (x= D(Gry), B(Blk), G(Grn), N(Br), L(Blu)	1	OH/UG	4	N	1	1
Raycap	200	RMx-E2N-X02MS-21NN (x= D(Gry), B(Blk), G(Grn), N(Br), L(Blu)	1	OH/UG	4	N	1	1
Raycap	200	RMx-E2N-Z02MS-21NN (x= D(Gry), B(Blk), G(Grn), N(Br), L(Blu)	1	OH/UG	4	N	1	1
Raycap	200	RMx-E2C-X02MS-21NN (x= D(Gry), B(Blk), G(Grn), N(Br), L(Blu)	1	OH/UG	4	N	1	1
Raycap	200	RMx-E2C-Z02MS-21NN (x= D(Gry), B(Blk), G(Grn), N(Br), L(Blu)	1	OH/UG	4	N	1	1
Ronk	100	MSB2100Lx-UG (x=C,D,E,G)	1	UNDER	4/5	Y	1,2,3,3a	1
Ronk	100	MSB2100Lx (x=C,D,E,G)	1	OH	4/5	Y	1,2,3,3a	1
Ronk	125	MSB2125Lx-UG (x=C,D,E,G)	1	UNDER	4/5	Y	1,2,3,3a	1
Ronk	125	MSB2125Lx (x=C,D,E,G)	1	OH	4/5	Y	1,2,3,3a	1
Ronk	150	MSB2150Lx-UG (x=C,D,E,G)	1	UNDER	4/5	Y	1,2,3,3a	1
Ronk	150	MSB2150Lx (x=C,D,E,G)	1	OH	4/5	Y	1,2,3,3a	1
Ronk	150	MSB150Lx-UG (x=C,D,E,G)	1	UNDER	4/5	Y	1,2,3,3a	1
Ronk	150	MSB150Lx (x=C,D,E,G)	1	OH	4/5	Y	1,2,3,3a	1
Ronk	175	MSB175Lx-UG (x=C,D,E,G)	1	UNDER	4/5	Y	1,2,3,3a	1
Ronk	175	MSB2175Lx-UG (x=C,D,E,G)	1	UNDER	4/5	Y	1,2,3,3a	1
Ronk	175	MSB2175Lx (x=C,D,E,G)	1	OH	4/5	Y	1,2,3,3a	1
Ronk	175	MSB175Lx (x=C,D,E,G)	1	OH	4/5	Y	1,2,3,3a	1
Ronk	200	MSB200Lx4 (x=C, D, E, G)	1	OH	4/5	Y	1,2,3,3a	1
Ronk	200	MSB200Lx4-UG (x=C, D, E, G)	1	UNDER	4/5	Y	1,2,3,3a	1
Ronk	400	MSB320Lx4-UG (x=C, D, E, F)	1	UNDER	4/5	Y	1,2,3,3a	1
Siemens	100	MM0202B1100R	1	OH/UG	4	N	1	1
Siemens	125	WMMA32125RJ	3	UNDER	5	N	2	3
Siemens	125	WMMA31125R	1	UNDER	4/5	N	1,2	3
Siemens	125	WMMA41125R	1	UNDER	4/5	N	1,2	4
Siemens	125	WMMA42125R	3	UNDER	5	N	2	4
Siemens	125	WMMA51125R	1	UNDER	4/5	N	1,2	5
Siemens	125	WMMA52125RJ	3	UNDER	5	N	2	5
Siemens	125	WMLA31125	1	UNDER	5	Y	3,3a	3
Siemens	125	WMLA41125	1	UNDER	5	Y	3,3a	4
Siemens	125	WMLA32125	3	UNDER	5	Y	3,3a	3
Siemens	125	WMLA42125	3	UNDER	5	Y	3,3a	4

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Siemens	125	SPxx11RJ (xx=22, 33, 44, 45, 46, 65, 66)	1	OH/UG	4/5	N	1,2	2-6
Siemens	125	WMMx1125RJ (x=2-6)	1	OVER	5	N	1	1
Siemens	125	WMMx1125R (x=2-6)	1	UNDER	4/5	N	1,2	2-6
Siemens	125	WMMx2125RJ (x=2-6)	3	UNDER	5	N	2	2-6
Siemens	125	WPKxx11RJ (x=22,33,44,45,46,54,65,66) (NEC2020)	1	Mtr Ctr	4/5	N	2	2-6
Siemens	125	WP2211RJ	1	Mtr Ctr	5	N	2	2
Siemens	125	WP3311RJ	1	Mtr Ctr	5	N	2	3
Siemens	125	WP4X11RJ (x=4-6)	1	Mtr Ctr	5	N	2	4-6
Siemens	125	WP5411RJ	1	Mtr Ctr	5	N	2	4
Siemens	125	WP6x11RJ (x=5-6)	1	Mtr Ctr	5	N	2	5-6
Siemens	125	MM0202B1125R	1	OH/UG	4	N	1	1
Siemens	125	SUAT111-OGF	1	OVER	4	N	1	1
Siemens	125	TDxxxRB**	1	UNDER	4	N	1	1
Siemens	150	MC0408B115RGA2	1	OH/UG	4	N	1	1
Siemens	150	MC0816B115RCT2	1	OH/UG	4	N	1	1
Siemens	150	MC0816B115RGA2	1	OH/UG	4	N	1	1
Siemens	150	MC0816B115RJT2	1	OH/UG	4/5	N	1	1
Siemens	150	MM0202B1150R	1	OH/UG	4/5	N	1,2	1
Siemens	150	MC0408B1150RT	1	OH/UG	4	N	1	1
Siemens	150	MC0816B1150RCT	1	OH/UG	4	N	1	1
Siemens	150	MC0816B1150RTH	1	OH/UG	4/5	N	1,2	1
Siemens	150	MC2040B1150R	1	OH/UG	4/5	N	1,2	1
Siemens	150	MC2040B1150RC	1	OH/UG	4	N	1	1
Siemens	150	MC2040B1500R	1	OH/UG	4/5	N	1,2	1
Siemens	200	MKN0816V1150R**	1	OH/UG	4/5	N	1,2	1
Siemens	200	MKN0816V1175R**	1	OH/UG	4/5	N	1,2	1
Siemens	200	MKN0816V1200R**	1	OH/UG	4/5	N	1,2	1
Siemens	200	MKN2040V1150R**	1	OH/UG	4/5	N	1,2	1
Siemens	200	MKN2040V1175R**	1	OH/UG	4/5	N	1,2	1
Siemens	200	MKN2040V1200R**	1	OH/UG	4/5	N	1,2	1
Siemens	200	MKN4040V1150R**	1	OH/UG	4/5	N	1,2	1
Siemens	200	MKN4040V1175R**	1	OH/UG	4/5	N	1,2	1
Siemens	200	MKN4040V1200R**	1	OH/UG	4/5	N	1,2	1
Siemens	200	MKN0816V1150RL**	1	OH/UG	4/5	Y	1,2,3,3a	1

Participants:


** Denotes new addition to this revision

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Siemens	200	MKN0816V1175RL**	1	OH/UG	4/5	Y	1,2,3,3a	1
Siemens	200	MKN0816V1200RL**	1	OH/UG	4/5	Y	1,2,3,3a	1
Siemens	200	MKN2040V1150RL**	1	OH/UG	4/5	Y	1,2,3,3a	1
Siemens	200	MKN2040V1175RL**	1	OH/UG	4/5	Y	1,2,3,3a	1
Siemens	200	MKN2040V1200RL**	1	OH/UG	4/5	Y	1,2,3,3a	1
Siemens	200	MKN4040V1150RL**	1	OH/UG	4/5	Y	1,2,3,3a	1
Siemens	200	MKN4040V1175RL**	1	OH/UG	4/5	Y	1,2,3,3a	1
Siemens	200	MKN4040V1200RL**	1	OH/UG	4/5	Y	1,2,3,3a	1
Siemens	200	MKN0816S1150R**	1	OH/UG	4/5	N	1,2	1
Siemens	200	MKN4040S1150R**	1	OH/UG	4/5	N	1,2	1
Siemens	200	MKN0816S1200R**	1	OH/UG	4/5	N	1,2	1
Siemens	200	MKN4040S1200R**	1	OH/UG	4/5	N	1,2	1
Siemens	200	MKN0816S1150RL**	1	OH/UG	4/5	Y	1,2,3,3a	1
Siemens	200	MKN4040S1150RL**	1	OH/UG	4/5	Y	1,2,3,3a	1
Siemens	200	MKN0816S1200RL**	1	OH/UG	4/5	Y	1,2,3,3a	1
Siemens	200	MKN4040S1200RL**	1	OH/UG	4/5	Y	1,2,3,3a	1
Siemens	200	WPKxxxxRJ (x=4212,4312,4412,6412,6512,6612,8612,10612)	1	Mtr Ctr	4/5	Y	1,2	2-6
Siemens	200	SUAT317-OGF	1	OVER	4	N	1	1
Siemens	200	SUAT417-PGF	1	UNDER	4/5	N	1,2	1
Siemens	200	SUAT417-XGF	1	OH/UG	4/5	N	1,2	1
Siemens	200	UAT417-XMF	1	OH/UG	5	N	2	1
Siemens	200	UAT317-OGF	1	OVER	4/5	N	1,2	1
Siemens	200	UAT417-XGF	1	OH/UG	4/5	N	1,2	1
Siemens	200	UAT437-XGF	1	OH/UG	4/5	N	1,2 AI	1
Siemens	200	MC0408B120RGA2	1	OH/UG	4	N	1	1
Siemens	200	MC0408B120RT2	1	OH/UG	4	N	1	1
Siemens	200	MC0816B120RGA2	1	OH/UG	4	N	1	1
Siemens	200	MC0816B120RJT2	1	OH/UG	4/5	N	1	1
Siemens	200	MM0303B3200RLC	3	OH/UG	7	Y	1,2	1
Siemens	200	MM0202B1200R	1	OH/UG	4/5	N	1,2	1
Siemens	200	MM0406L1200RH	1	OH/UG	4	N	1	1
Siemens	200	MC2020B1200R	1	OH/UG	4	N	1	1
Siemens	200	MC3042B1200RC	1	OH/UG	4	N	1	1
Siemens	200	MC3040B1200R	1	OH/UG	4	N	1	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Siemens	200	MC4040B1200R	1	OH/UG	4	N	1	1
Siemens	200	MC0816B1200RTD	1	UNDER	4	N	1	1
Siemens	200	MM0202S1200RHJ	1	OH/UG	5	N	1,2	1
Siemens	200	MC0408B1200RT	1	OH/UG	4	N	1	1
Siemens	200	MC0606L1200R or RA	1	OH/UG	4/5	N	1, 1 AI	1
Siemens	200	MC0816B1200RCT	1	OH/UG	4	N	1	1
Siemens	200	MC0816B1200RCT2	1	OH/UG	4	N	1	1
Siemens	200	MC0816B1200RTH	1	OH/UG	4/5	N	1,2	1
Siemens	200	MC2040B1200R	1	OH/UG	4/5	N	1,2	1
Siemens	200	MC2040B1200RC	1	OH/UG	4	N	1	1
Siemens	200	MC2040S1200JLC	1	OH/UG	4/5	Y	3	1
Siemens	200	S40405-015F	1	OH/UG	5	Y	3,3a	1
Siemens	200	S40407-015F	3	OH/UG	7	Y	4	1
Siemens	200	SPxx12RJ (xx=42, 43, 44, 65, 66)	1	OH/UG	4/5	N	1,2	2-6
Siemens	200	WMMx1225R (x=2-6)	1	UNDER	4/5	N	1,2	2-6
Siemens	200	WMMx2225RJ (x=2-6)	3	UNDER	5	N	2	2-6
Siemens	200	WP10612RJ	1	Mtr Ctr	4/5	N	1,2	6
Siemens	200	WP4x12RJ (x=2-4)	1	Mtr Ctr	4/5	N	1,2	2-4
Siemens	200	WP6x12RJ (x=4-6)	1	Mtr Ctr	4/5	N	1,2	4-6
Siemens	200	WP8612RJ	1	Mtr Ctr	4/5	N	1,2	6
Siemens	200	WPLK10612RJ	1	Mtr Ctr	4/5	Y	3,3a	6
Siemens	200	WPL10612RJ	1	Mtr Ctr	4/5	Y	3,3a	6
Siemens	200	WPLK4x12RJ (x=2-4)	1	Mtr Ctr	4/5	Y	3,3a	2-4
Siemens	200	WPL4x12RJ (x=2-4)	1	Mtr Ctr	4/5	Y	3,3a	2-4
Siemens	200	WPLK6x12RJ (x=4-6)	1	Mtr Ctr	4/5	Y	3,3a	4-6
Siemens	200	WPL6x12RJ (x=4-6)	1	Mtr Ctr	4/5	Y	3,3a	4-6
Siemens	200	WPLK8612RJ	1	Mtr Ctr	4/5	Y	3,3a	6
Siemens	200	WPL8612RJ	1	Mtr Ctr	4/5	Y	3,3a	6
Siemens	225	WML1x225RJ (x=1-4)	1	OH/UG	4/5	Y	3,3a	1-4
Siemens	225	WMLx1225RJ (x=2-6)	1	OH/UG	4/5	Y	3,3a	2-6
Siemens	225	WMLx2225RJ (x=1-4)	3	UNDER	7	Y	4	1-4
Siemens	225	WMLx2yz225RJ (x=2 or 4) (yz=AB, BC or CA)	3	OH/UG	5	Y	3,3A	2 or 4
Siemens	225	WMLx3225RJ (x=1-4)	3	UNDER	7	Y	4	1-4
Siemens	250	WC2040B1TxR (x=1-9)	1	UNDER	4	N	1	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Siemens	250	WC2040B1TxRJ (x=1-9)	1	UNDER	5	N	2	1
Siemens	250	WC2040B2TxRJ (x=1-9)	1	UNDER	5	N	2	1
Siemens	250	WCL2040B1TxRJ (x=1-9)	1	UNDER	4/5	N	1,2	1
Siemens	250	WCL2040B2TxRJ (x=1-9)	1	UNDER	4/5	Y	3,3a	1
Siemens	250	WCL2442B3TxRJ (x=1-9)	3	UNDER	7	Y	4	1
Siemens	350	MK0816B1350RLT **	1	OH/UG	4/5	Y	3,3a	1
Siemens	400	MK0816B1400RLT**	1	OH/UG	4/5	Y	3,3a	1
Siemens	400	MK2448B1400RL**	1	OH/UG	4/5	Y	3,3a	1
Siemens	400	MK2448B1400SCL**	1	OH/UG	4/5	Y	3,3a	1
Siemens	400	MK3042B1400SCL**	1	OH/UG	4/5	Y	3,3a	1
Siemens	400	MC0408B1400RLTM	1	OH/UG	4/5	Y	3,3a	1
Siemens	400	MC0816B1400RLTM	1	OH/UG	4/5	Y	3,3a	1
Siemens	400	MC3042B1400SDL	1	OH/UG	4	N	1	1
Siemens	400	MK0402L1400RLM (NEC2020)	1	OH/UG	4/5	Y	3,3a	1
Siemens	400	MM0404L1400RLM	1	OH/UG	4/5	Y	3,3a	1
Siemens	400	WMLV11400RJ	1	OH/UG	5	Y	3a	1
Siemens	400	WML11400RJH	1	OH/UG	5	Y	3a	1
Siemens	400	WMLV12400RJ	3	OH/UG	5	Y	3a	1
Siemens	400	WML12400RJH	3	OH/UG	5	Y	3a	1
Siemens	400	WML13400RJ	3	OH/UG	7	Y	4	1
Siemens	400	WML13400RJFS	3	OH/UG	7	Y	4	1
Siemens	400	WMLV13400RJ	3	OH/UG	7	Y	4	1
Siemens	400	WML13400RJH	3	OH/UG	7	Y	4	1
Siemens	400	WMLV22400RJ	1	OH/UG	4/5	Y	3,3a	1-2
Siemens	400	WMLV23400RJ	1	OH/UG	4/5	Y	3,3a	1-2
Siemens	400	WMLV21400RJ	1	OH/UG	4/5	Y	3,3a	1-2
Siemens	400	WMLxy400RJ where (x=1-2) (y=1-2)	1	OH/UG	4/5	Y	3,3a	1-2
Siemens	400	MC2442B1400SDL	1	OH/UG	4/5	Y	3,3a	1
Siemens	400	MK0816B1400RLT	1	OH/UG	4/5	Y	3,3a	1
Siemens	400	MK2442B1400RL	1	OH/UG	4/5	Y	3,3a	1
Siemens	400	WMLxy400RJFS where (x=1-2) (y=1-2)	1	OH/UG	4/5	Y	3,3a	1-2
Siemens	600	WMK13600RJ FPL Only	1,3	UNDER	7	Y	5	1
Square D	100	QU48F100PS	1	UNDER	4	N	1	1
Square D	100	UTZ6R1131CFLSQD	1	OH/UG	4	N	1	6

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Square D	100	UTZxR1121CFLSQD	1	OH/UG	4	N	1	2-5
Square D	100	UATZ-RS101CFLSQD	1	OH/UG	4	N	1	1
Square D	100	UATZxR1121CFLSQ	1	OH/UG	4	N	1 AL	2-5
Square D	100	UTZ-RS101CFLSQD	1	OH/UG	4	N	1	1
Square D	100	RU48F100PS	1	UNDER	4	N	1	1
Square D	125	EZMR11y125 (y=3-6)	1	Mtr Ctr	5	N	1,2	3-6
Square D	125	EZMR11y125CU (y=3-6)	1	Mtr Ctr	5	N	1,2	3-6
Square D	125	EZMR11y125X (y=3-6)	1	Mtr Ctr	5	N	1,2	3-6
Square D	125	EZMR31y125 (y=3-6)	1	Mtr Ctr	5	N	1,2	3-6
Square D	125	EZMR31y125CU (y=3-6)	1	Mtr Ctr	5	N	1,2	3-6
Square D	125	EZMR31y125X (y=3-6)	1	Mtr Ctr	5	N	1,2	3-6
Square D	125	MPRyy125 (yy=22,33,44,55,66)	1	OH/UG	5	N	1,2	2-6
Square D	125	MPCR33125**	1	OH/UG	5	N	1,2	3
Square D	125	MPCR44125**	1	OH/UG	5	N	1,2	4
Square D	125	MPCR85125**	1	OH/UG	5	N	1,2	5
Square D	125	MPCR86125**	1	OH/UG	5	N	1,2	6
Square D	125	QC816F125C	1	OH/UG	4/5	N	1,2	1
Square D	125	RU48F125PS	1	UNDER	4	N	1	1
Square D	125	QU48F125PS	1	UNDER	4	N	1	1
Square D	150	QC816F150C	1	OH/UG	4/5	N	1,2	1
Square D	150	RU816F150PS	1	UNDER	4	N	1	1
Square D	150	RU48F150PS	1	UNDER	4	N	1	1
Square D	150	RC816F150C	1	OH/UG	4/5	N	1,2	1
Square D	150	QU48F150PS	1	UNDER	4	N	1	1
Square D	150	QU816F150PS	1	UNDER	4	N	1	1
Square D	150	RQC150SFMG	1	OH/UG	4/5	N	1,2	1
Square D	200	UAT-H4203xFLSQD	1	OVER	4	Y	1 AL	1
Square D	200	UAT-H4213xFLSQD	1	OH/UG	4	Y	1 AL	1
Square D	200	UAT-H5203xFLSQD	1	OVER	5	Y	3,3a,b Al	1
Square D	200	UAT-H5213xFLSQD	1	OH/UG	5	Y	3,3a,b Al	1
Square D	200	UAT-H7203x-FLSQD	3	OVER	7	Y	4 AL	1
Square D	200	UAT-H7213xFLSQD	3	OH/UG	7	Y	4 AL	1
Square D	200	UAT-RS202BFLSQD	1	OVER	4	N	1 AL	1
Square D	200	UAT-RS212CFLSQD	1	OH/UG	4	N	1 AL	1

Participants:


**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Square D	200	UAT-RS213AFLSQD	1	UNDER	4	N	1 AL	1
Square D	200	UAT-RS213C-FLSQD	1	OH/UG	4	N	1 AL	1
Square D	200	UAT4R2352UFLSQD	1	OH/UG	4	N	1 AL	4
Square D	200	UATxR2392UUFLSQ	1	OH/UG	4	N	1 AL	5-6
Square D	200	UAT-xR2332UFLSQD	1	OH/UG	4	N	1 AL	2-3
Square D	200	UAT-RS223AFLSQD	1	UNDER	4	N	1 AL	1
Square D	200	UT-4R2352U-FLSQD	1	OH/UG	4	N	1	4
Square D	200	UT92197CC-FLSQD	1	OH/UG	4	N	1	1
Square D	200	UT-H7213x-FLSQD	3	OH/UG	7	Y	4	1
Square D	200	UT-H4203x-FLSQD	1	OVER	4	Y	1	1
Square D	200	UT-H4213x-FLSQD	1	OH/UG	4	Y	1	1
Square D	200	1012978-SQD	1	OH/UG	4	N	1	1
Square D	200	UT-RS233C-FLSQD	1	OH/UG	4	N	1	1
Square D	200	UAT-RS233CFLSQD	1	OH/UG	4	N	1 AL	1
Square D	200	EZML11y200 (y=1-4)	1	Mtr Ctr	5	Y	1,2	1-4
Square D	200	EZML31y200 (y=2-4)	1	Mtr Ctr	5	Y	3a	2-4
Square D	200	EZML33y200 (y=1-4)	3	Mtr Ctr	7	Y	4	1
Square D	200	EZMR11y200 (y=2-4)	1	Mtr Ctr	5	N	1,2	2-4
Square D	200	EZMR11y200CU (y=2-4)	1	Mtr Ctr	5	N	1,2	2
Square D	200	EZMR11y200X (y=2-4)	1	Mtr Ctr	5	N	1,2	2
Square D	225	MPLyy225 (yy=32,43,64)	1	OH/UG	5	Y	3	2-4
Square D	200	MPR4y200 (y=2-3)	1	OH/UG	5	N	1,2	2-3
Square D	200	MPR64200	1	OH/UG	5	N	1,2	4
Square D	200	MPR8y200 (y=5-6)	1	OH/UG	5	N	1,2	5-6
Square D	200	MPCR42200**	1	OH/UG	5	N	1,2	2
Square D	200	MPCR43200**	1	OH/UG	5	N	1,2	3
Square D	200	MPCR64200**	1	OH/UG	5	N	1,2	4
Square D	200	MPCR85200**	1	OH/UG	5	N	1,2	5
Square D	200	MPCR86200**	1	OH/UG	5	N	1,2	6
Square D	200	QC12L200C	1	OH/UG	4/5	N	1,2	1
Square D	200	QC2442M200C	1	OH/UG	4/5	Y/N	1,2	1
Square D	200	QC3040M200S	1	OH/UG	4/5	N	1,2	1
Square D	200	QC816F200C	1	OH/UG	4/5	N	1,2	1
Square D	200	RC12L200C	1	OH/UG	4/5	N	1,2	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Square D	200	RC200SFMG	1	OH/UG	4/5	N	1,2	1
Square D	200	RC2040M200C	1	OH/UG	4/5	N	1,2	1
Square D	200	RC2M200SFMG	1	OH/UG	4/5	N	1,2	1
Square D	200	RC3042M200PS	1	OH/UG	4/5	N	1,2	1
Square D	200	RC816F200C	1	OH/UG	4/5	N	1,2	1
Square D	200	QU48F200PS	1	UNDER	4	N	1	1
Square D	200	QU816F200PS	1	UNDER	4	N	1	1
Square D	200	QU816M200PS	1	UNDER	4	N	1	1
Square D	200	RU48F200PS	1	UNDER	4	N	1	1
Square D	200	RU816F200PS	1	UNDER	4	N	1	1
Square D	200	RU816M200PS	1	UNDER	4	N	1	1
Square D	200	RQC200SFMG	1	OH/UG	4/5	N	1,2	1
Square D	200	UT-H5203x-FLSQD (x=B or T)	1	OVER	5	Y	3,3a,b	1
Square D	200	UT-H5213x-FLSQD (x=C or U)	1	OH/UG	5	Y	3,3a,b	1
Square D	200	UT-H7203x-FLSQD (x=B or T)	3	OVER	7	Y	4	1
Square D	200	UT-H7213x-FLSQD (x=C or U)	3	OH/UG	7	Y	4	1
Square D	200	UT-RS202B-FLSQD	1	OVER	4	N	1	1
Square D	200	UT-RS212C-FLSQD	1	OH/UG	4	N	1	1
Square D	200	UT-RS213A-FLSQD	1	UNDER	4	N	1	1
Square D	200	UT-RS213C-FLSQD	1	OH/UG	4	N	1	1
Square D	200	UT-RS223A-FLSQD	1	UNDER	4	N	1	1
Square D	200	UT-xR2332U-FLSQD (x=2-3)	1	OH/UG	4	N	1	2-3
Square D	200	UT-xR2392UU-FLSQD (x=5-6)	1	OH/UG	4	N	1	5-6
Square D	225	EZML11x225 (x=1-4)	1	Mtr Ctr	5	Y	1,2	1-4
Square D	225	EZML31x225 (x=2-4)	1	Mtr Ctr	5	Y	3a	2-4
Square D	225	EZML33x225 (x=1-4)	3	Mtr Ctr	7	Y	4	1
Square D	225	EZMR11x200X (x=2-4)	1	Mtr Ctr	5	N	1,2	2
Square D	225	EZMR11x225 (x=2-6)	1	Mtr Ctr	5	N	1,2	2-6
Square D	225	EZMR11x225CU (x=2-6)	1	Mtr Ctr	5	N	1,2	2-6
Square D	225	EZMR31x225 (x=2-6)	1	Mtr Ctr	5	N	1,2	2-6
Square D	320	UAT-H5330UFLSQD	1	OH/UG	5	Y	3,3a,b Al	1
Square D	400	1011619-SQD	1	OH/UG	4	Y	1	1
Square D	400	1008836-SQD	1	OH/UG	4	Y	1	1
Square D	400	1008837-SQD	1	OH/UG	4	Y	1 AL	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Square D	400	UAT-H5300TFLSQD	1	OVER	4	Y	1 AL	1
Square D	400	UAT-H7300TFLSQD	3	OVER	7	Y	4 AL	1
Square D	400	UAT-H7330UFLSQD	3	OH/UG	7	Y	4 AL	1
Square D	400	UT-H5300T-FLSQD	1	OVER	5	Y	3,3a,b	1
Square D	400	UAT-H4300TFLSQD	1	OVER	4	Y	1 AL	1
Square D	400	EZML111400		Mtr Ctr	5	Y	3,3a,b	1
Square D	400	EZML31y400 (y=1-2)	1	Mtr Ctr	5	Y	3a	1-2
Square D	400	EZML33y400 (y=1-2)	3	Mtr Ctr	7	Y	4	1-2
Square D	400	QU12L400xL (x = C or S)	1	UNDER	4/5	Y	3	1
Square D	400	QU816D400SL	1	UNDER	4/5	Y	3	1
Square D	400	QU816D400PSL**	1	UNDER	4/5	Y	3	1
Square D	400	QU816D400PSL150**	1	UNDER	4/5	Y	3	1
Square D	400	QU816D400PCL**	1	UNDER	4/5	Y	3	1
Square D	400	QU816D400PCLX**	1	UNDER	4/5	Y	3	1
Square D	400	RU2040D400PCL**	1	UNDER	4/5	Y	3	1
Square D	400	RU2040D400PCLX**	1	UNDER	4/5	Y	3	1
Square D	400	UT-H4300T-FLSQD	1	OVER	4	Y	1	1
Square D	400	UT-H5330U-FLSQD	1	OH/UG	5	Y	3,3a,b	1
Square D	400	UT-H7300T-FLSQD	3	OVER	7	Y	4	1
Square D	400	UT-H7336-8UFLSQD	3	OH/UG	7	Y	4	1
Square D	400	UT-H43068T-FLSQD	1	OH/UG	4	Y	1	1
Square D	400	UT-H7330U-FLSQD	3	OH/UG	7	Y	4	1
Talon/Siemens	60	TDRT-60	1	OVER	4	N	1	1
Talon/Siemens	100	MP04061100R	1	UNDER	4	N	1	1
Talon/Siemens	100	MP04061100R2	1	UNDER	4	N	1	2
Talon/Siemens	100	MPS0406B1100R	1	UNDER	4	N	1	1
Talon/Siemens	100	MPS0406B1100R2	1	UNDER	4	N	1	2
Talon/Siemens	100	UAB111-XG	1	OH/UG	4	N	1	1
Talon/Siemens	100	UAX411-XGF (X=2-6)	1	OH/UG	4	N	1	2-6
Talon/Siemens	125	49205-025F	1	OVER	5	Y	3a	1
Talon/Siemens	125	49207-025F	3	OVER	7	Y	4	1
Talon/Siemens	125	49305-025F	1	OVER	5	Y	3a	1
Talon/Siemens	125	49307-025F	3	OVER	7	Y	4	1
Talon/Siemens	125	MP0406B1125R	1	UNDER	4	N	1	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Talon/Siemens	125	MP0406B1125R2	1	UNDER	4	N	1	2
Talon/Siemens	125	MPS0406B1125R	1	UNDER	4	N	1	1
Talon/Siemens	125	MPS0406B1125R2	1	UNDER	4	N	1	2
Talon/Siemens	125	TLxxRT (x=brkr/recpt config.)	1	OVER	4/5	N	1,2	1-2
Talon/Siemens	125	TDxxxRC (x=brkr/recpt config.)	1	UNDER	4/5	N	1,2	1
Talon/Siemens	125	TLxxxRC (x=brkr/recpt config.)	1	OH/UG	4/5	N	1,2	1
Talon/Siemens	125	TDxxxRM (x=brkr/recpt config.)	1	Un-Ped	4/5	N	1,2	1-2
Talon/Siemens	125	TDxxxRP (x=brkr/recpt config.)	1	Un-Ped	4/5	N	1,2	1-2
Talon/Siemens	125	TLxxxRM (x=brkr/recpt config.)	1	Un-Ped	4/5	N	1,2	1-2
Talon/Siemens	125	TDxxxRT (x=brkr/recpt config.)	1	Un-Ped	4/5	N	1,2	1-2
Talon/Siemens	125	TLxxxRP-F (x=brkr/recpt config.)	1	Un-Ped	4/5	N	1,2	1-2
Talon/Siemens	125	TDxxxR2M (x=brkr/recpt config.)	1	Un-Ped	4/5	N	1,2	1-2
Talon/Siemens	125	TDxxxR2P (x=brkr/recpt config.)	1	Un-Ped	4/5	N	1,2	1-2
Talon/Siemens	125	TDxxxLT (x=brkr/recpt config.)	1	OVER	4/5	Y	1,2	1-2
Talon/Siemens	125	WTG4x11RJ (X=4-6)	1	OH/UG	5	N	2	5-6
Talon/Siemens	125	WTG5411RJ	1	OH/UG	5	N	2	4
Talon/Siemens	125	WTG6x11RJ (X=5-6)	1	OH/UG	5	N	2	4-6
Talon/Siemens	125	WTGxx11RJ (X=2-4)	1	OH/UG	5	N	2	2-4
Talon/Siemens	135	UAT111-XMF	1	OH/UG	5	N	2	1
Talon/Siemens	135	UAT111-OGF	1	OH/UG	4	N	1	1
Talon/Siemens	135	UAT111-XGF	1	OH/UG	4/5	N	1,2	1
Talon/Siemens	135	UAT131-XGF	1	OH/UG	4/5	N	1,2 AI	1
Talon/Siemens	150	MP0406B1150R	1	UNDER	4	N	1	1
Talon/Siemens	150	MP0406B1150R2	1	UNDER	4	N	1	2
Talon/Siemens	150	MPS0406B1150R	1	UNDER	4	N	1	1
Talon/Siemens	150	MPS0406B1150R2	1	UNDER	4	N	1	2
Talon/Siemens	150	UAB417-150	1	OH/UG	4/5	N	1,2	1
Talon/Siemens	200	UAT417-PGF	1	UNDER	4/5	N	1,2	1
Talon/Siemens	200	UAT417-XMF	1	OH/UG	5	N	1,2 AI	1
Talon/Siemens	200	UAT437-PGF	1	UNDER	4/5	N	1,2 AI	1
Talon/Siemens	200	40005-01F	1	OVER	5	Y	3,3a	1
Talon/Siemens	200	40007-01F	3	OVER	7	Y	4	1
Talon/Siemens	200	40404-025F	1	OH/UG	4	N	1	1
Talon/Siemens	200	40405-015F	1	OH/UG	5	Y	3,3a	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Talon/Siemens	200	40405-025F	1	OH/UG	5	Y	3,3a	1
Talon/Siemens	200	40405x-223F (x=2-6)	1	OH/UG	5	Y	3a	2-6
Talon/Siemens	200	40407-015F	3	OH/UG	7	Y	4	1
Talon/Siemens	200	40407-025F	3	OH/UG	7	Y	4	1
Talon/Siemens	200	40407x-223F (x=2-6)	3	OH/UG	7	Y	4	2-6
Talon/Siemens	200	41005-01F	1	OVER	5	Y	3,3a	1
Talon/Siemens	200	41007-01F	3	OVER	7	Y	4 AI	1
Talon/Siemens	200	41405-025F	1	OH/UG	5	Y	3,3a AI	1
Talon/Siemens	200	41407-02GP	3	OH/UG	7	Y	4 AI	1
Talon/Siemens	200	41407-02SE	3	OH/UG	7	Y	4 AI	1
Talon/Siemens	200	41407-025F	3	OH/UG	7	Y	4 AI	1
Talon/Siemens	200	46705-025F	1	OH/UG	5	Y	3a	1
Talon/Siemens	200	46707-025F	3	OH/UG	7	Y	4	1
Talon/Siemens	200	46805-025F	1	OH/UG	5	Y	3a	1
Talon/Siemens	200	46807-025F	3	OH/UG	7	Y	4	1
Talon/Siemens	200	LG0408B1200RT	1	OH/UG	4	N	1	1
Talon/Siemens	200	LG0606L1200R or RA	1	OH/UG	4/5	N	1,2 AI	1
Talon/Siemens	200	LG0816B1200RCT	1	OH/UG	4	N	1	1
Talon/Siemens	200	MP0406B1200R	1	UNDER	4	N	1	1
Talon/Siemens	200	MP0406B1200R2	1	UNDER	4	N	1	2
Talon/Siemens	200	MP0406L1200R	1	UNDER	4	N	1	1
Talon/Siemens	200	MP0406L1200R2	1	UNDER	4	N	1	2
Talon/Siemens	200	MPS0406B1200R	1	UNDER	4	N	1	1
Talon/Siemens	200	MPS0406B1200R2	1	UNDER	4	N	1	2
Talon/Siemens	200	UA2313-OG**	1	OH/UG	4	N	1 AI	2
Talon/Siemens	200	UA27x6-ZGF (x=1 or 3)	1	OH/UG	4	N	1 AI	2
Talon/Siemens	200	UA37x7-ZGF (x=1 or 3)	1	OH/UG	4	N	1 AI	3
Talon/Siemens	200	UA47x9-ZGF (x=1 or 3)	1	OH/UG	4	N	1 AI	4
Talon/Siemens	200	UA57x9-MGF (x=1 or 3)	1	OH/UG	4	N	1 AI	5
Talon/Siemens	200	UA67x9-MGF (x=1 or 3)	1	OH/UG	4	N	1 AI	6
Talon/Siemens	200	UAB417-200	1	OH/UG	4/5	N	1,2	1
Talon/Siemens	200	UAB417-XPG	1	OH/UG	4	N	1	1
Talon/Siemens	200	UAS877-PGF	1	UNDER	4	N	1	1
Talon/Siemens	200	UAT337-OGF	1	OVER	4/5	N	1,2 AI	1

Participants:



**** Denotes new addition to this revision**

Manufacturer	Amps	Catalog	Phase	Service	Term	Bypass	Config	Pos
Talon/Siemens	200	UAT777-XGF	1	OH/UG	4	N	1	1
Talon/Siemens	200	UAx711-ZGF (x=2-4)	1	OH/UG	4	N	1	2-4
Talon/Siemens	200	UAx715-MGF (x=5-6)	1	OH/UG	4	N	1	5-6
Talon/Siemens	200	UAx71y-ZGF (x=2-4) (y=4-5)	1	OH/UG	4	N	1	2-4
Talon/Siemens	225	WTG10612RJ	1	OH/UG	5	N	2	6
Talon/Siemens	225	WTG4x12RJ (X=2-4)	1	OH/UG	5	N	2	2-4
Talon/Siemens	225	WTG6x12RJ (X=4-6)	1	OH/UG	5	N	2	4-6
Talon/Siemens	225	WTG8612RJ	1	OH/UG	5	N	2	6
Talon/Siemens	225	WTGL10612RJ	1	OH/UG	5	Y	3a	6
Talon/Siemens	225	WTGL4x12RJ (x=2-4)	1	OH/UG	5	Y	3a	2-4
Talon/Siemens	225	WTGL6x12RJ (x=4-6)	1	OH/UG	5	Y	3a	4-6
Talon/Siemens	225	WTGL8612RJ	1	OH/UG	5	Y	3a	6
Talon/Siemens	400	40905-02FL	1	OH/UG	5	Y	3a	1
Talon/Siemens	400	41105-02FL	1	OH/UG	4/5	Y	3,3a Al	1
Talon/Siemens	400	44707-02FL	3	OH/UG	7	Y	4	1
Talon/Siemens	400	46905-02FL	1	OH/UG	5	Y	3a	1
Talon/Siemens	400	47005-02FL	1	OH/UG	5	Y	3a	1
Talon/Siemens	400	47205-02FL	1	OH/UG	5	Y	3a	1
Talon/Siemens	400	47205-82FL	1	OH/UG	5	Y	3a	1
Talon/Siemens	400	47305-02FL	1	OH/UG	5	Y	3a	1
Talon/Siemens	400	47305-82FL	1	OH/UG	5	Y	3a	1
Talon/Siemens	400	47407-02FL	3	UNDER	7	Y	4	1
Talon/Siemens	400	47504-92	3	UNDER	4	Y	3	1
Talon/Siemens	400	47604-82	3	OH/UG	4/5	Y	3,3a	1
Talon/Siemens	400	47705-02FL	1	OH/UG	4/5	Y	3,3a	1
Talon/Siemens	400	48504-92	1	UNDER	4	Y	3	1
Talon/Siemens	400	49005-02FL	1	OH/UG	4/5	Y	3,3a	1
Talon/Siemens	400	49007-02FL	3	OH/UG	7	Y	4	1
Talon/Siemens	400	49105-02FL	1	OH/UG	4/5	Y	3,3a Al	1
Talon/Siemens	400	49107-02FL	3	OH/UG	7	Y	4 Al	1
Talon/Siemens	600	9817-9526 (Requires Ridged Lugs) FPL ONLY	1,3	OH/UG	7	Y	5	1
Talon/Siemens	600	9817-9527 (Requires Ridged Lugs) FPL ONLY	1,3	OH/UG	7	Y	5 Al	1

Participants:





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Approved Transformer Rated Equipment

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INSTRUMENT RATED METER SOCKETS

Manufacturer	Amp	Catalog Number	No of Phases	Service	Pos	Term	Test SW	Config
Brooks	20	652U3010C6-1848 (Q6 Alum)	1	Ov/Un	1	6	Y	6-12
Brooks	20	602U3010C6-1848 (Q6 Steel)	1	Ov/Un	1	6	Y	6-12
Brooks	20	602U3010C13-1849 (Steel)	3	Ov/Un	1	13	Y	6-12
Brooks	20	605U8010C13-1850 (Steel Snap 2)	3	Ov/Un	1	13	Y	6-12
Brooks	20	652U3010C13-1849 (Alum)	3	Ov/Un	1	13	Y	6-12
Brooks	20	655U8010C13-1850 (Alum Snap 2)	3	Ov/Un	1	13	Y	6-12
Brooks	20	652U3010C6-388 (Q6 Alum)	1	Ov/Un	1	6	Y	6-12
Brooks	20	602U3010C6-388 (Q6 Steel)	1	Ov/Un	1	6	Y	6-12
Brooks	20	602U3010C13-387 (TUV Steel)	3	Ov/Un	1	13	Y	6-12
Brooks	20	605U8010C13-934 (TUV Steel Snap 2)	3	Ov/Un	1	13	Y	6-12
Brooks	20	652U3010C13-387 (TUV Alum)	3	Ov/Un	1	13	Y	6-12
Brooks	20	655U8010C13-934 (TUV Alum Snap 2)	3	Ov/Un	1	13	Y	6-12
Cooper B-Line	20	ST02133N1AL1F (TUV ALUM)	3	Ov/Un	1	13	Y	6-12
Cooper B-Line	20	ST02063N1GR1F (Q6 STEEL)	1	Ov/Un	1	6	Y	6-12
Cooper B-Line	20	ST02063N1AL1F (Q6 ALUM)	1	Ov/Un	1	6	Y	6-12
Cooper B-Line	20	ST02133N1GR1F (TUV STEEL)	3	Ov/Un	1	13	Y	6-12
Durham	20	USTH6-1C1052 (Q6 Steel)	1	Ov/Un	1	6	Y	6-12
Durham	20	UASTH13-1C1053 (TUV Alum)	3	Ov/Un	1	13	Y	6-12
Durham	20	USTH13-1C1054 (TUV Steel)	3	Ov/Un	1	13	Y	6-12
Durham	20	UASTH6-1C1051 (Q6 Alum)	1	Ov/Un	1	6	Y	6-12
Durham	20	USTH6-1C756xxx (Q6 Steel)	1	Ov/Un	1	6	Y	6-12
Durham	20	UASTH13B757xxx (TUV Alum)	3	Ov/Un	1	13	Y	6-12
Durham	20	USTH13B758xxx (TUV Steel)	3	Ov/Un	1	13	Y	6-12
Durham	20	UASTH6-1C755xxx (Q6 Alum)	1	Ov/Un	1	6	Y	6-12
Milbank	20	UAPC4512 (TUV Alum)	3	Ov/Un	1	13	Y	6-12
Milbank	20	UC4511 (Q6 Steel)	1	Ov/Un	1	6	Y	6-12
Milbank	20	UAPC4511 (Q6 Alum)	1	Ov/Un	1	6	Y	6-12
Milbank	20	UC4512 (TUV Steel)	3	Ov/Un	1	13	Y	6-12
Milbank	20	UAPC4512-O-11	3	Ov/Un	1	13	Y	6-12
Milbank	20	UAPC4511-O-11	1	Ov/Un	1	6	Y	6-12



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INSTRUMENT RATED METER SOCKETS

Manufacturer	Amp	Catalog Number	No of Phases	Service	Pos	Term	Test SW	Config
Talon/Siemens	20	9837-0424 (PTS-13 Alum)	3	Ov/Un	1	13	Y	6-12
Talon/Siemens	20	9837-0425 (PTS-13 Steel)	3	Ov/Un	1	13	Y	6-12
Talon/Siemens	20	9837-0423 (PTS-6 Steel)	1	Ov/Un	1	6	Y	6-12
Talon/Siemens	20	9837-0422 (PTS-6 Aluminum)	1	Ov/Un	1	6	Y	6-12



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Florida Power & Light: NW Region

Approved Transformer Rated Equipment

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Manufacturer	Amp	Catalog Number	No of Phases	Service	Pos	Term	Test SW	Config
Brooks	20	652-3060B6-141	1	Ov/Un	1	6	Y	6-12
Brooks	20	652-3060B8-142	3	Ov/Un	1	8	Y	6-12
Brooks	20	652-3060B-13-468	3	Ov/Un	1	13	Y	6-12
Durham	20	1004992	1	Ov/Un	1	6	Y	6-12
Durham	20	1004993	3	Ov/Un	1	8	Y	6-12
Durham	20	1006759	3	Ov/Un	1	13	Y	6-12
Milbank	20	AP7448-RL-GP	3	Ov/Un	1	8	Y	6-12
Siemens	20	9837-0193	1	Ov/Un	1	6	Y	6-12
Siemens	20	9837-0194	1	Ov/Un	1	8	Y	6-12
Siemens	20	9837-0185	1	Ov/Un	1	13	Y	6-12



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Approved Transformer Rated Equipment

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WALL MOUNTED TRANSFORMER CABINETS

FPL will no longer accept Steel or Stainless TC-3 and TC-5 cabinets with pull-off covers. Only Aluminum pull-off covers are allowed. All Steel and Stainless TC-3 and TC-5 cabinets must have hinged doors. Contact Meter Engineering for correct part number and approval.

***Max number of conductors is the TOTAL number of conductors ENTERING the cabinet plus the number EXITING**

Manufacturer	Catalog Number (Dimensions - H"xW"xD")	No of Phases	Max # of Conduits (Total # In and Out)	*Max # and Size of the Conductors	Config
Austin Co.	FPL-C-TC1-SS (Custom Stainless - As Required)	3	As required	As required	9
Austin Co.	FPL-S-TC3-GRAY (TC-3 Galv - 34 x 32 x 10)	1,3	4-4"	8 - 600C or 8 - 400A	7
Austin Co.	FPL-C-TC1-GRAY (Custom Steel - As Required)	3	As required	As required	9
Austin Co.	FPL-C-TC1 (Custom Alum - As Required)	3	As required	As required	9
Austin Co.	FPL-S-TC5 SS (TC-5X SS - 46 x 30 x 14.5)	3	8-4"	16-600C or 16-400A	8
Austin Co.	FPL-S-TC5-GRAY (TC-5X Galv - 46 x 30 x 14.5)	3	8-4"	16-600C or 16-400A	8
Austin Co.	FPL-S-TC5 (TC-5X Alum - 46 x 30 x 14.5)	3	8-4"	16-600C or 16-400A	8
Austin Co.	FPL-S-TC3 SS (TC-3 SS - 34 x 32 x 10)	1,3	4-4"	8 - 600C or 8 - 400A	7
Austin Co.	FPL-S-TC3 (TC-3 Alum - 34 x 32 x 10)	1,3	4-4"	8 - 600C or 8 - 400A	7
Brooks	561U3815G (TC-3 Alum - 34 x 32 x 12)	1,3	4-4"	8 - 600C or 8 - 400A	7
Brooks	561U3802 (TC-5X Alum - 46 x 30 x 14.5)	3	8-4"	16-600C or 16-400A	8
Brooks	561U3801 (TC-3 Alum - 34 x 32 x 10)	1,3	4-4"	8 - 600C or 8 - 400A	7
C&I Enclosures	C-343212FPLHG-TC3 (TC-3 Alum, Hinged Cover, 34 x 32 x 10)	1,3	4-4"	8 - 600C or 8 - 400A	7
C&I Enclosures	C-343212FPLA-TC3 (TC-3 Alum - 34 x 32 x 10)	1,3	4-4"	8 - 600C or 8 - 400A	7
C&I Enclosures	C-463014.50FPLA-TC5 (TC-5 Alum - 46 x 30 x 14)	3	8-4"	16-600C or 16-400A	8
C&I Enclosures	C-463014.50FPLHG-TC5 (TC-5 Alum, Hinged Cov)	3	8-4"	16-600C or 16-400A	8
Cooper B-Line	304614.5 RTCT1F (TC-5X Steel - 46 x 30 x 14.5)	3	8-4"	16-600C or 16-400A	8



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Approved Transformer Rated Equipment

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Manufacturer	Catalog Number (Dimensions - H"xW"xD")	No of Phases	Max # of Conduits (Total # In and Out)	*Max # and Size of the Conductors	Config
Cooper B-Line	323410 RTCT1F AL (TC-3 Alum - 34 x 32 x 10)	1,3	4 - 4"	8 - 600C or 8 - 400A	7
Cooper B-Line	323410 RTCT1F (TC-3 Steel - 34 x 32 x 10)	1,3	4 - 4"	8 - 600C or 8 - 400A	7
Cooper B-Line	323412 RTCT1F AL (TC-3 Alum - 34 x 32 x 12)	1,3	4 - 4"	8 - 600C or 8 - 400A	7
Cooper B-Line	323412 RTCT1F (TC-3 Steel - 34 x 32 x 12)	1,3	4 - 4"	8 - 600C or 8 - 400A	7
Cooper B-Line	304614.5 RTCT1F AL (TC-5X Alum - 46 x 30 x 14)	3	8 - 4"	16-600C or 16-400A	8
Durham	1012722 (TC-3 Steel - 34 x 32 x 12)	1,3	4 - 4"	8 - 600C or 8 - 400A	7
E-Box	MS463014.50N4X3PT/FPL-TC5 (Stainless Steel)	3	8 - 4"	16 - 600C or 16 - 400A	8
E-Box	A463014.50RB/FPLTC5 (TC-5 Alum 46 x 30 x 14)	3	8 - 4"	16 - 600C or 16 - 400A	8
E-Box	A463014.50REPL/FPL (TC-5 Steel, Left-hand hinged)	3	8 - 4"	16 - 600C or 16 - 400A	8
E-Box	463014.50REPLRH/FPL (TC-5 Steel, Right-hand hinged)	3	8 - 4"	16 - 600C or 16 - 400A	8
E-Box	343212REPL/FPL (TC-3 Steel, Left-hand hinged)	1,3	4 - 4"	8 - 600C or 8 - 400A	7
E-Box	343212REPL/RH/FPL (TC-3 Steel, Right-hand hinged)	1,3	4 - 4"	8 - 600C or 8 - 400A	7
E-Box	A343212RB/FPLTC3 (TC-3 Alum -34 x 32 x 12)	1,3	4 - 4"	8 - 600C or 8 - 400A	7
Hoffman	TC5AL (TC-5 Alum - 46 x 30 x 14-1/2)	3	8 - 4"	16-600C or 16-400A	8
Hoffman	TC5X (TC-5X Steel - 46 x 30 x 16)	3	As Req.	As Required	9
Hoffman	TC5XSS (TC-5X Stainless - 46 x 30 x 16)	3	As Req.	As Required	9
Hoffman	TC5XAL (TC-5X Alum - 46 x 30 x 16)	3	As Req.	As Required	9
Hoffman	TC5SS (TC-5 Stainless - 46 x 30 x 14-1/2)	3	8 - 4"	16-600C or 16-400A	8



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Manufacturer	Catalog Number (Dimensions - H"xW"xD")	No of Phases	Max # of Conduits (Total # In and Out)	*Max # and Size of the Conductors	Config
Hoffman	TC3 (TC-3 Steel - 34 x 32 x 10)	1,3	4 - 4"	8 - 600C or 8 - 400A	7
Hoffman	TC3SS (TC-3 Stainless - 34 x 32 x 10)	1,3	4 - 4"	8 - 600C or 8 - 400A	7
Hoffman	TC3AL (TC-3 Alum - 34 x 32 x 10)	1,3	4 - 4"	8 - 600C or 8 - 400A	7
Hoffman	TC5 (TC-5 Steel - 46 x 30 x 14-1/2)	3	8 - 4"	16-600C or 16-400A	8
Lake Shore	UTMC-SC-343210-US-N-3A-FPL-00	1,3	4 - 4"	8 - 600C or 8 - 400A	7
Lake Shore	UTMC-SC-343210-US-N-3B-FPL-00	1,3	4 - 4"	8 - 600C or 8 - 400A	7
Lake Shore	UTMC-SC-343210-US-N-3C-FPL-00	1,3	4 - 4"	8 - 600C or 8 - 400A	7
Lake Shore	UTMC-SC-343210-US-N-3D-FPL-00	1,3	4 - 4"	8 - 600C or 8 - 400A	7
Lake Shore	UTMC-SC-403014-US-N-3A-FPL-00	3	8 - 4"	16-600C or 16-400A	8
Lake Shore	UTMC-SC-403014-US-N-3B-FPL-00	3	8 - 4"	16-600C or 16-400A	8
Lake Shore	UTMC-SC-403014-US-N-3C-FPL-00	3	8 - 4"	16-600C or 16-400A	8
Lake Shore	UTMC-SC-403014-US-N-3D-FPL-00	3	8 - 4"	16-600C or 16-400A	8
Milbank	323412-SC3RA-SP (TC-3 Alum - 34 x 32 x 12)	1,3	4 - 4"	8 - 600C or 8 - 400A	7
Milbank	304614-SC3RA-SP (TC-5 Alum - 46 x 30 x 14.5)	1,3	8-4"	16-600C or 16-400A	8
Nav-Tech	NAV-FPL-CTR-343212	1,3	4 - 4"	8 - 600C or 8 - 400A	7
Nav-Tech	NAV-FPL-CTR-463015	3	8 - 4"	16-600C or 16-400A	8
Nav-Tech	NAV-FPL-CTR-544215	3	8 - 4"	16-600C or 16-400A	8
Nav-Tech	NAV-FPL-CTR-XL	3	As Req.	As Required	9

WEATHERHEAD MOUNTED TRANSFORMER CABINETS

****Note:** These cabinets are NOT UL LISTED and may not be utilized in jurisdictions where listing is a requirement

Manufacturer	Catalog Number (Material)	No of Phases	Approx Size (H"xW"xD")	Configuration
Durham	A251994 Small (Al)	1,3	18.5 x 8.5 x 6	10
Durham	A251994 Medium (Al)	1,3	27.5 x 7 x 6.5	10
Durham	A251994 Large (Al)	1,3	31 x 7.5 x 8	10
Durham	A251994 (Al)	1,3		10
Milbank	S6676 (G90 Steel)	1,3	18.65 x 8.64 x 5.45	10
Milbank	S6677 (G90 Steel)	1,3	27.65 x 6.64 x 6.75	10
Milbank	S6678 (G90 Steel)	1,3	31.65 x 7.64 x 8.06	10
Milbank	S6679 (G90 Steel)	1,3	40.75 x 12.39 x 10.81	10



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PRIMARY PADMOUNTED TRANSFORMER CABINETS

Manufacturer	Catalog Number (Material)	No of Phases	Voltage	Max Amps	Approx Size (H"xW"xD")	Configuration
Brooks	SKA270192-1AL (Aluminum)	3	25kv	1x200	54 x 72 x 54	11
Shallbetter	SPMD-32522-66-AL-FPL (Aluminum)	3	25kv	2x600	54 x 72 x 72	11
Shallbetter	SPMD-32522-22-AL-FPL (Aluminum)	3	25kv	2x200	54 x 72 x 72	11
Shallbetter	SPMD-32522-66-SS-FPL (Stainless Steel)	3	25kv	2x600	54 x 72 x 72	11
Shallbetter	SPMD-32522-22-SS-FPL (Stainless Steel)	3	25kv	2x200	54 x 72 x 72	11
SPS	DFPM -3252222-AL-FPL (Aluminum)	3	25kv	2x600	54 x 72 x 72	11
SPS	DFPM -3252222-AL-FPL (Aluminum)	3	25kv	2x600	54 x 72 x 72	11
SPS	DFPM -3252266-AL-FPL (Aluminum)	3	25kv	2x200	54 x 72 x 72	11
SPS	DFPM -3252222-SS-FPL (Stainless Steel)	3	25kv	2x600	54 x 72 x 72	11
SPS	DFPM -3252266-SS-FPL (Stainless Steel)	3	25kv	2x200	54 x 72 x 72	11



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METERING EQUIPMENT CABINETS

Manufacturer	Catalog Number (Material)	Usage	Type	Approx Size (H"xW"xD")	Configuration
Austin Co.	FPL-UTB-A-SS (UTB Stainless)	UTILITY	-	12 x 8 x 3-3/4	12
Austin Co.	FPL-EE-M (SJB-28 Alum)	UTILITY	MED	28 x 30 x 14	12
Austin Co.	FPL-EE-X-GRAY (SJB-CX Steel)	UTILITY	X-LARGE	46 x 36 x 14	12
Austin Co.	FPL-EE-X (SJB-CX Alum)	UTILITY	X-LARGE	46 x 36 x 14	12
Austin Co.	FPL-EE-L-GRAY (SJB-C Steel)	UTILITY	LARGE	36 x 36 x 14	12
Austin Co.	FPL-EE-L-SS (SJB-C Stainless)	UTILITY	LARGE	36 x 36 x 14	12
Austin Co.	FPL-EE-L (SJB-C Alum)	UTILITY	LARGE	36 x 36 x 14	12
Austin Co.	FPL-EE-M-GRAY (SJB-28 Steel)	UTILITY	MED	28 x 30 x 14	12
Austin Co.	FPL-EE-M-SS (SJB-28 Stainless)	UTILITY	MED	28 x 30 x 14	12
Austin Co.	FPL-UTB-A (UTB Alum)	UTILITY	-	12 x 8 x 3-3/4	12
Brooks	574U3805 (SJB-C Alum)		LARGE	36 x 36 x 14	12
Brooks	557U3807 (SJB-28 Alum)		MED	30 x 28 x 14	12
Brooks	574U3807 (SJB-28 Alum)		MED	30 x 28 x 14	12
Brooks	507U3807 (SJB-28 Steel)		MED	30 x 28 x 14	12
Brooks	511U3811 (UTB Steel)	UTILITY	-	12 x 8 x 3-3/4	12
Brooks	557U3806 (SJB-CS Alum)		X-LARGE	46 x 36 x 14	12
Brooks	524U3807 (SJB-28 Steel)		MED	30 x 28 x 14	12
Brooks	566U5183-FPL (UMC)	UTILITY	-	20 x 16 x 6	13
Brooks	557U3805 (SJB-C Alum)		LARGE	36 x 36 x 14	12
Brooks	561U3811 (UTB Alum)	UTILITY	-	12 x 8 x 3-3/4	12
Brooks	524U3806 (SJB-CS Steel)		X-LARGE	46 x 36 x 14	12
Brooks	507U3806 (SJB-CS Steel)		X-LARGE	46 x 36 x 14	12
Brooks	524U3805 (SJB-C Steel)		LARGE	36 x 36 x 14	12
Brooks	507U3805 (SJB-C Steel)		LARGE	36 x 36 x 14	12
Brooks	574U3806 (SJB-CS Alum)		X-LARGE	46 x 36 x 14	12
Milbank	302814-CT3RS-SP (SJB-28 Stainless)	UTILITY	MED	30 x 28 x 14	12
Milbank	302814-CT3R-SP (SJB-28 Steel)	UTILITY	MED	30 x 28 x 14	12
Milbank	363614-CT3RA-SP (SJB-C Alum)	UTILITY	LARGE	36 x 36 x 14	12
Milbank	363614-CT3RS-SP (SJB-C Stainless)	UTILITY	LARGE	36 x 36 x 14	12
Milbank	363614-CT3R-SP (SJB-C Steel)	UTILITY	LARGE	36 x 36 x 14	12
Milbank	302814-CT3RA-SP (SJB-28 Alum)	UTILITY	MED	30 x 28 x 14	12



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VIII. GROUNDING

A. General

The Customer's service entrance installation shall satisfy all grounding requirements of the National Electrical Code (NEC) and any applicable building codes, and is subject to acceptance of local inspecting authorities.

FPL's service drop or service lateral includes a grounded conductor. This conductor is grounded at the source transformer location and generally interconnected with other grounded conductors. This grounded conductor will normally be attached to a grounding connector in the meter socket and also to one in the service equipment and to the neutral or ground bus in the service equipment. When meter sockets with Customer owned isolated neutrals are required by local codes, a separate Customer owned grounding conductor shall be run by the Customer from the service equipment to the grounding connection of the meter socket.

The NEC allows several methods of supplying a grounding electrode. A ground rod is not the only means of supplying the grounding electrode. A brief discussion of the NEC requirements is provided in the following notes and is not intended to be all-inclusive. The NEC and your local inspecting authorities should be consulted for additional details and for those that may have changed since the time of this printing. FPL accepts any method which satisfies the NEC and the local inspecting authorities.

Local inspecting authorities may have more stringent requirements than the NEC. For example, some inspecting authorities require the use of a concrete-encased electrode as described in Article 250.52. This electrode would consist of at least 20 continuous feet of one or more bare or zinc galvanized or other electrically conductive coated steel reinforcing bars or rods of not less than 1/2 inch in diameter or of at least 20 feet of bare copper conductor not smaller than No. 4. The electrode would be encased in at least 2 inches of concrete and located within or near the bottom of a concrete foundation or footing that is in direct contact with the earth (no vapor barrier).

B. Notes on Grounding Customer's Service Entrance:

1. FPL's point of delivery includes a grounded conductor. The point of delivery is normally at the weatherhead (in the case of an FPL overhead service lateral), the meter can (in the case of an FPL underground service lateral), a padmounted transformer, or a vault.
2. The customer shall connect this FPL grounded conductor to the service equipment by extending a customer-owned grounded conductor along with the other conductors of the customer's service entrance which attach to FPL at the point of delivery. This grounded conductor shall be extended even though it may not be required as a circuit conductor by the NEC and shall be sized according to NEC Article 250.
3. The customer's service entrance wiring shall be grounded as required by the NEC, Article 250, and any local code in effect.
4. The grounded wiring system to each premise shall have a grounding electrode conductor connected to a grounding electrode meeting the requirements of the NEC. This grounded conductor shall be connected to the grounded service conductor at any accessible point on the load side of the service drop or lateral to and including the service equipment terminals provided to connect the grounded service conductor.



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5. The equipment grounding conductor and the service equipment enclosure shall be connected to the grounded conductor of the system within the service equipment or within the service conductor enclosure.
6. The grounding electrode system is discussed in Article 250.52 of the NEC. Article 250.52 states that, if available on the premises, each of the following along with any "derived" electrodes shall be bonded together to form the grounding electrode system: (1) metal underground water pipe 10 feet or more in length, (2) metal frame of building in direct contact with the earth for 10 or more feet or with concrete encased hold down bolts that are connected to a concrete encased electrode, (3) concrete encased electrode at least 20 feet in length, (4) ground ring at least 20 feet in length, (5) rod and pipe electrodes at least 8 feet in length, (6) other listed electrodes, or (7) plate electrodes. The rod or pipe electrode may be a 5/8" diameter stainless steel, copper or zinc coated steel rod, or a smaller diameter listed rod, or a pipe of at least 3/4" diameter (galvanized or coated if steel), all driven 8' into the earth. A plate electrode shall expose not less than two square feet of surface to exterior soil. Iron or steel plates shall be at least 1/4 inch thick and nonferrous plates shall be at least .06 inch thick. A single rod, pipe, or plate electrode having a resistance to earth of more than 25 ohms shall have a supplemental electrode installed no closer than 6 feet away. Aluminum electrodes ARE NOT PERMITTED. A metal underground gas piping system SHALL NOT BE USED AS A GROUNDING ELECTRODE.
7. For additional grounding information, see the National Electrical Code, Article 250, and local building codes in effect in the area. If local building code requirements exceed those of the National Electrical Code, installations shall comply with the local codes.
8. Both bare and insulated grounding conductors are accepted inside the meter enclosure, provided either is routed safely with no excess slack and dressed tightly to the enclosure minimizing approach to live parts



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IX. MOTORS, CONTROLLERS AND AIR CONDITIONERS

A. General

Before ordering or installing any large polyphase or single phase motor, FPL should be consulted to determine the character and adequacy of the available service and the allowable starting current at the premises to be served. This information should be passed on to the suppliers of the proposed motorized equipment. This will assist suppliers in providing equipment and protective devices to obtain satisfactory operation at minimum cost, considering both initial installation and future maintenance.

Motors less than 7.5 horse power can be served with single phase service, unless three phase service is already being supplied. Motors 7.5 to 20 horsepower require open delta service (or wye if already being supplied), and motors larger than 20 horsepower require wye service. Availability of three phase service should be discussed in advance with FPL.

Single phase motors larger than one-half horsepower fed from 120/240 volt circuits should be connected for 240 volt operation. Smaller motors may be connected for 240 volts, where practicable, at the Customer's option.

The current required to start a motor is much greater than that required to operate it at full load after it has reached rated speed. If not controlled, this starting current may cause severe voltage fluctuations, not only on the wiring of the Customer using the motor, but also on other Customers' wiring. The more frequently the motor is started, the more objectionable these voltage fluctuations become.

The National Electrical Code, in Article 430, provides a table (430.7(B)) which classifies motors by their "locked-rotor" (starting) input requirements. A code letter is assigned to each requirement bracket. The brackets are given in "kilovolt-amperes" per horsepower which can be easily converted to amperes for a given motor. The starting current increases as the code letter increases. The appropriate letter is stamped on the motor nameplate.

Using this information, FPL has prepared [Table IX-1](#) for single phase motors, five horsepower and below. This table lists code letters and starting currents which will be acceptable at most locations on FPL's system. The value given is for one motor which does not start more than four times per hour. [Table IX-2](#) provides similar data for single phase air conditioners, but is based on the unit's rated output rather than horsepower.

B. FPL Approval of Starting Means for Large Motors

For motors larger than those listed in [Table IX-1](#), or which start more frequently, the Customer may be required to provide reduced voltage or incremental starting equipment, to reduce each step of starting current to the value shown. FPL shall be consulted and will advise the Customer of its requirements.

In the case of three phase motors, because of the variety of service conditions and the large number of motor sizes available, FPL shall be contacted in each case to determine if reduced voltage or incremental starting will be required. If two or more motors are started simultaneously, the starting limitations apply to the total current of the group.

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IX: 2 of 5**Table IX-1**

**Single Phase Motors Acceptable for Across the Line
Starting at Most Locations on FPL System
Horsepower Ratings by NEC Letters
No more than Four Starts Per Hour**

ACCEPTABLE CODE LETTERS

HORSEPOWER	115 VOLTS(50 AMPS)	230 VOLTS	MAXIMUM STEP IN STARTING CURRENT
1/4	A THRU V	A THRU V	50 AMPS
1/3	A THRU S	A THRU V	50 AMPS
1/2	A THRU N	A THRU V	50 AMPS
3/4	A THRU J*	A THRU S	50 AMPS
1	A THRU G*	A THRU P	50 AMPS
1 1/2	A THRU C*	A THRU K	50 AMPS
2		A THRU H	60 AMPS
3		A THRU G	80 AMPS
5		A THRU F	120 AMPS

*These motors should be connected for 230 volt operation if feasible.

TABLE IX-2**Acceptable Air Conditioning Equipment, One Phase, 240 Volts**

SIZE IN TONS (NOTE 1)	SIZE IN BTU	*MAXIMUM ALLOWABLE STEP IN STARTING CURRENT AT 240V
1	12,000	40 AMPS
1 1/2	18,000	60 AMPS
2	24,000	80 AMPS
3	36,000	120 AMPS
4	48,000	160 AMPS
5 (NOTE 2)	60,000	200 AMPS

Note 1: Table based on units being sized and maintained so that there will be a maximum of four starts per hour.

Note 2: Better performance may sometimes be obtained by using two smaller units.

* This is the maximum allowed coincident starting current of any, or all of the system's components (compressor, condenser fan motor, and air handler blower motor). If the System Starting Current exceeds the values shown, the customer should investigate the installation of either a "hard start" kit or "stage" starting (or other method recommended by the manufacturer) to reduce the starting current to the level for which FPL's distribution system was designed.



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C. Motor Protection and Power Factor

It is the customer's responsibility to ensure that all motor circuits include protection which at a minimum meets the National Electrical Code and any applicable local codes. Note: such protection is designed to protect personnel from electrical and fire hazard, it is not intended to protect the motor from damage. For this reason, FPL recommends that the customer add the following to motor circuits to reduce the risk of equipment damage.

The use of automatic time delay circuit breakers or time delay fuses is strongly recommended when protecting motors against damage from excessive currents. The time delay feature will eliminate unnecessary operation of the breakers or blowing of fuses during motor starting or temporary overloads.

Under Voltage Protection - A low-voltage release is designed to disconnect the motor automatically and return the starting device to the "off" position upon partial or total failure of the supply voltage. It is used, where applicable, for motors that cannot safely be subjected to full voltage at starting, or where low voltage would result in injury or damage to equipment. This release should be of the time delay type, capable of adjustment to a maximum of at least two seconds and set at the lowest value suitable for proper protection. FPL will be glad to advise the Customer on the proper interval for coordination with FPL's circuit breakers. This will prevent unnecessary disconnection of the motor on momentary voltage fluctuations or loss of voltage.

Single Phase Protection - When installing three phase motors, the Customer should consider the possibility of the loss of one phase, either in his own installation or in FPL's supply lines. This "single phasing" may happen regardless of the precautions taken to avoid it, and FPL therefore strongly recommends that devices be installed to protect the equipment against the damage that may result.

Phase Reversal Protection - Three phase motors for applications to elevators, cranes, hoists, well pumps or other installations where reversal of rotation might cause damage to equipment or constitute a hazard to personnel ***should have phase rotation protection.***

Reclose Protection - Motors which cannot be safely subjected to full voltage starting, or processes which may create a safety hazard upon an uncontrolled re-start, should be designed to require manual or time delay re-start upon the interruption of the supply voltage.

Phase Imbalance Protection – Imbalanced three phase voltages may cause unequal phase currents. Heating caused by the imbalanced currents can shorten the life of a motor. Because of this, the American National Standards Institute, ANSI C84.1-2006 Standard for Power Systems and Equipment, recommends that "electric supply systems be designed and operated to limit the maximum voltage imbalance to 3 percent when measured at the electric-utility revenue meter under no-load conditions".

ANSI uses the formula:

Percent Imbalance = Maximum deviation from the average divided by the average

To protect motors from damage due to amperage imbalance, imbalance protection should be installed at the motor to limit full load operation if the voltage imbalance exceeds 3%, or the amperage imbalance exceeds 30%.

Note: Some brands of protection on the market for chillers and other motors use the formula:

Percent Imbalance = (Highest phase – lowest phase) divided by the average



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Devices using this formula should be set at 4% voltage and 40% amperage to provide the same protection as the ANSI formula.

Under voltage, single phase, phase reversal and imbalance protection are all available through the installation of an electronic phase loss protector in the motor control circuit. Such protective devices are supplied and installed by the Customer. FPL is not responsible for damage to motors from power abnormalities.

Surge protection should also be considered for installation at the motor breaker panel. Surge protection can help reduce damage to a motor's windings from external spikes, as well as reduce damage to customer equipment from power spikes generated by large motors starting and stopping.

Power Factor

Power factor is a calculation representing the relationship of "real" power (kw) which performs useful work in turning a motor, to "apparent" power (kva) which magnetizes motor and transformer coils. Motor loads frequently adversely affect the power factor of a circuit, usually from oversized or lightly loaded motors. Certain other types of loads can reduce power factor. A low power factor also reduces the capacity of circuit conductors to deliver "real" power and can increase wiring costs as well as electric demand on the utility system. FPL reserves the right to adjust meter reading kw for billing where power factor is less than 85%.

Capacitors are sometimes connected on the load side of a motor controller to improve the power factor of the circuit. When this is done, the total kvar connected should not exceed the value required to raise the power factor of the motor to unity when it is running unloaded.

D. Air Conditioners that require excessive starting currents

A number of single phase 240 volt air conditioning units currently on the market require starting currents that exceed the 40 amps per ton allowed by FPL design practices. This will cause voltage flicker (momentary voltage dips) to exceed the limits to which FPL's distribution systems have been designed, and in many cases, flicker conditions quite objectionable to homeowners having these units.

Air conditioning units causing the majority of complaints seem to be those with the "scroll" type compressor, that are 3 tons or greater. Unlike their predecessor reciprocating compressor types, these systems do not require a starting capacitor system to start, so the manufacturers are no longer installing them. Without starting capacitors, the starting currents drawn on the electrical distribution system and "seen" by the customer as flicker have increased dramatically.

We strongly suggest you verify, before purchasing, that the units you obtain require starting currents of 40 amps or less per ton. If these limits are exceeded, "hard start kits" should be installed. If further reductions are necessary, "delay start" mechanisms might be considered so all the units components (compressor, air handler, condensing fan) do not start simultaneously. Installing this equipment at the factory can be done for minimal cost (far less than retrofits in the field) and will prevent customer complaints. If FPL has to oversize new facilities or upgrade existing facilities due to starting currents exceeding the 40 amp per ton threshold, CIAC charges would apply.

Air conditioning manufacturers do not routinely publish starting current values. For units without



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starting capacitors a “rough” approximation of the starting current can be obtained by adding the Locked Rotor Amp (LRA) values for the compressor, condenser fan and air handler, and multiplying this total by 1.10. For further information on this subject contact your local FPL construction representative.



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X. ELECTRICAL DISTURBANCES

Electric welders, furnaces, electric draglines, electric dredges, large, frequently started, motorized equipment, variable speed drives, SCR converters, and tankless water heaters are **examples** of equipment that have operating characteristics which may require rapidly fluctuating amounts of current. If the device is large, significant voltage fluctuations may result, even on a system which is adequate for normal service. ***These voltage fluctuations may affect the operation and life of other equipment in the customer's facility as well as the equipment of other customers in the vicinity.***

Section IX covers FPL's requirements when frequent starting of large motors is involved.

When service is required for any of the other devices mentioned, or similar devices, FPL shall be consulted. It may be found that the device cannot be served at the specific location unless special facilities and control equipment are provided both by FPL and the Customer.

The cost for any additional or upgraded facilities that are required to be installed by FPL in order to serve these devices will be borne by the customer as CIAC. If the adverse effects cannot be mitigated by the installation of additional or upgraded facilities, or if these devices cause objectionable flicker to other customers' service, FPL may require the device to be disconnected from the electrical system.

There are other devices, such as silicon controlled rectifier (SCR) devices, or any device which suddenly interrupts current at other than a natural zero point, which may cause high frequency voltage oscillations or transients in the circuit. This may be detrimental to the Customer's service or to that of an adjacent Customer. It may be necessary for the Customer to install filters or other corrective devices if he wishes to continue the use of such equipment.

If the Customer uses carrier current or any other system that superimposes a voltage with a frequency other than the normal 60 hertz voltage on his wiring, he shall provide filters or other equipment, as required, to prevent it from appearing on FPL's distribution system.

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Radio and television antennas, their lead-in cables, guy wires and metallic supports shall be kept well clear of electric powerlines. They should be installed in accordance with Article 810 of the National Electrical Code, and any applicable local building code.

The shortest distance between the power conductor and the antenna mast should exceed the height of the antenna mast from the ground.

The antenna or lead in conductors should not cross over electric light or power circuits. These items should be kept well away from such circuits, but where this is impossible, they shall have a clearance of at least 2 feet to circuits of less than 250 volts between conductors. Where practicable, these items should not cross under electric light and power circuits or be closer than 10 feet to power circuits of more than 250 volts between conductors.

Most contacts between antennas and power lines occur either during antenna installation or subsequent maintenance. The homeowner installing an antenna should be sure it is well away from any exposed electric wires. He should be certain that neither the antenna and mast nor the lead-in nor guy wires could possibly contact the power wires if the installer loses control of any component of the assembly.



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XII. STREET, AREA, & OUTDOOR LIGHTING

A. FPL Owned - Street Lighting

FPL's LED Lighting Schedule (LT-1), as defined in FPL Tariff Sheet 8.735, is for the purpose of lighting streets whether public or private, roadways, and common areas, including individual residential and commercial locations. This includes but is not limited to parking lots, homeowners' association common areas, or parks. Fixtures installed under LT-1 are Light Emitting Diode (LED).

If FPL is requested to install, own, and maintain its street lighting facilities, service is subject to the terms and conditions of rate schedule LT-1 together with FPL's Lighting Agreement, which must be properly executed prior to the installation or modification of any FPL owned street lighting facility.

For FPL owned street lighting facilities, A CIAC will be required from the customer for:

- a. the estimated differential cost between employing rapid construction techniques in trenching, backfilling, and pole installation work where no obstructions exist, and the added cost to overcome obstructions such as sprinkler systems, paved surfaces (such as sidewalks, curbs, gutters, and roadways), landscaping, sodding and other obstructions encountered along the Street Lighting System installation route, including repair and replacement. As an alternative to paying FPL for these added costs, the customer can elect to perform the trenching work and restoration himself. If that work involves trench (and installation of conduit provided by FPL), the Customer will be reimbursed by FPL for the value, as determined by FPL, of that trench (based on rapid construction, no obstructions) and conduit installation, up to the amount of CIAC that is due.
- b. the installation cost of any new overhead distribution facilities and/or the cost of alterations to existing distribution facilities which are required in order to serve the Street Lighting System less four (4) times the additional annual non-fuel energy revenue generated by the installation or alteration of the Street Lighting System, plus where underground facilities are installed, the differential installation cost between underground and overhead distribution facilities.

These costs, if any, shall be paid by the Customer before the commencement of any construction work by FPL. The Customer shall also pay any additional costs associated with design modifications requested after the original estimate has been made. **FPL does not design to or guarantee minimum street lighting levels based on any IES standards.**

If FPL street lighting facilities installed under rate schedule SL-1 must be removed for any reason (Customer request, relocation, upgrade, modification, termination or breach of the Agreement, etc.) the Customer shall pay FPL an amount equal to the original installed cost of the removed facilities less any salvage value and depreciation (based on current depreciation rates as approved by the Florida Public Service Commission) plus removal cost.

If FPL lighting facilities installed under rate schedule LT-1 must be removed for any reason (Customer request, relocation, upgrade, modification, termination or breach of the Agreement, etc.) the Customer shall pay FPL the remaining Netbook value of the fixture, pole, and conductor plus the cost to remove the facilities.

Customers converting FPL owned HPSV or MH fixtures (SL-1) to FPL owned LED fixtures (LT-1) pay a monthly "Conversion Recovery Fee" to cover the cost of the conversion.

In the event of relocated facilities under LT-1 rate schedule, all relocation costs will be borne by the Customer.

If these terms and conditions are unacceptable to the Customer, or if the poles and fixtures offered by FPL are not those desired by the Customer, the Customer may wish to consider installing his own street lighting



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facilities.

B. Customer-owned Street Lighting

For Customer owned street lighting systems, where the street light facilities are installed, owned, and maintained by the Customer, FPL will specify the service location, and require the customer to install a single phase, 60 Hertz metered service in accordance with Rate Schedule (SL-1M), as defined in FPL Tariff Sheet 8.718.

Refer to the ESS Section IV – Service and Meter Connections to connect service.

C. Customer-owned Traffic Lighting

For Customer owned traffic lighting systems, including traffic signal facilities, pedestrian crossings, school flashing zones, and emergency crossings, where the facilities are installed, owned, and maintained by the Customer, FPL will specify the service location, and require the customer to install a single phase, 60 Hertz metered service in accordance with Rate Schedule (SL-2M), as defined in FPL Tariff Sheet 8.731.

Refer to the ESS Section IV – Service and Meter Connections to connect service

D. Outdoor Lighting

The application of FPL's Outdoor Lighting Rate Schedule (LT-1), as defined in FPL Tariff Sheet 8.725, is for year-round outdoor lighting of yards, walkways, and other areas on property owned by individuals or organizations. Lights to be served hereunder shall be at locations which are easily and economically accessible to FPL vehicles, equipment and personnel for construction and maintenance.

It is intended that FPL-owned outdoor lights be installed on existing FPL-owned facilities (distribution poles with secondary conductor) There is no defined limit to the number of outdoor lights available to one customer.

Where more extensive lighting systems are required, such as parking lots or other "engineered lighting level" applications May qualify for Area Lighting under LT-1.

If the Customer requests, or, if the energy provided through the Customer's metered service under a GS Rate is to the Customer's advantage, the service for the lighting can be provided under the appropriate GS rate schedule.

The number of outdoor lights is limited to four (4) lights per pole on those poles entirely devoted to the support of outdoor lights, and two lights on all other poles. These limits are to be reduced wherever FPL engineering opinion or construction forces recommend.

Luminaires installed on poles along an adjacent roadway **must** be faced towards private property. The bracket length for conventional luminaires is 2-1/2 feet.

Standard installations requiring installation of **only** outdoor lighting facilities covered by a monthly charge

E. Disconnect Devices for Customer-Owned Street / Outdoor Lighting

When a customer-owned street/outdoor metered lighting circuit is to be installed the customer **shall** install a fused disconnect device for each circuit. Installation of the disconnect device **is required** whether the circuit is individual or group control. The disconnect device is required to isolate the customer's circuit during maintenance, isolate FPL's system from malfunctioning customer equipment, and comply with any applicable building code requirements.



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Location of Customer's Disconnect Device:

a. Overhead FPL Service Point:

Customer disconnect device can be mounted on the customer's street/outdoor light pole provided that the distance to FPL's overhead service point allows for the provision of an FPL overhead service and that the attachment height allows for proper clearances.

Customer's disconnect device can be installed in customer handhole adjacent to the utility pole. FPL will terminate its underground cable (from the overhead source) in the customer handhole if this arrangement is acceptable to the customer. Otherwise, FPL will provide its own handhole at the base of the pole and terminate the customer's cable therein. In either case, a Contribution In Aid of Construction (CIAC) may be required.

Customer's disconnect device can be installed on a pedestal adjacent to the pole. FPL will extend its underground cable (from the overhead source) to its handhole adjacent to the utility pole and terminate the customer's cable therein. CIAC may be required. If sufficient attachment height is made available by the customer, FPL may provide an overhead service.

No customer equipment is to be installed on the utility-owned pole. Customer-owned secondary risers will be allowed only for those governmental agencies that have executed a Public Body Joint Use Pole Agreement.

b. Underground FPL Service Point:

Customer disconnect device shall be installed adjacent to FPL's service point on customer's pedestal or in customer's handhole. FPL will terminate the customer's cable at the service point.

Both the fusing and the cable from the FPL service point to customer's disconnect device shall BE installed by the customer in accordance with applicable building codes.

Customer-owned disconnect devices are not to be installed to control FPL-owned street lighting facilities.

F. Group Control Photoelectric Relays

a. Overhead FPL Service Point:

The customer shall install, own, and maintain the photoelectric relay. For these installations, FPL will continue to provide transformation, as necessary, and connect the electric service as before. The remainder of the equipment (together with the photoelectric relay) will be installed and maintained by the customer, but cannot be installed on the utility pole.

This information and wiring diagram should appear on the preliminary streetlight plans for each project to allow FPL the opportunity to review and provide comments prior to final acceptance for each project.

Should the customer owned photoelectric relay fail for any reason, FPL asks the customer's cooperation in making timely repairs to avoid the 24 hour burning of street lights. Should timely repairs not be made, FPL may exercise its option of billing the maintaining agency for the increased energy consumption until the repairs are made.

b. FPL Underground Service Point:

The customer shall install, own, and maintain the photoelectric relay to group controlled customer owned



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streetlight circuits fed from handholes or padmounted transformers.

Should the customer owned photoelectric relay fail for any reason, FPL asks the customer's cooperation in making timely repairs to avoid the 24 hour burning of street lights. Should timely repairs not be made, FPL may exercise its option of billing the maintaining agency for the increased energy consumption until the repairs are made.



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Net metering allows FPL customers to offset all or part of their energy use with on-site generation. Any excess generation will be credited to the customer's energy consumption for the next month's billing cycle. Florida Administrative Code (FAC) Section 25-6.065.

The customer shall meet all applicable technical, interconnection, safety and protection requirements of this and other FPL documents. The customer must also meet the requirements of the NESC, OSHA, and any others applicable to the installation.

The customer shall conform to FPL, National Electric Code (NEC) and Authority Having Jurisdiction (AHJ), for installation requirements. The customer's AC (AC) inverter rating will determine the Tier that the generation system falls under in the net metering policy.

- Tier 1: less than or equal to 10 KW
- Tier 2: greater than 10KW and less than or equal to 100KW
- Tier 3: greater than 100KW and less than or equal to 2MW

It is highly recommended that customers obtain FPL's written interconnection approval prior to procuring any material.

For any inquiries regarding Net Metering please reach out to netmetering@fpl.com.

1. **Inverter** – The customer must utilize a certified UL 1741 SA and IEEE 1547 grid interactive inverter. Inverters that have not been certified to UL Standard will be denied interconnection. FPL may require advanced inverter settings or other controls to minimize impact to FPL customers and the grid.
2. **Transformer** – Generating facilities greater than 50 KW AC will require a three phase 120/208V or 277/480 Wye grounded transformer. FPL will specify any winding connections, grounding or other requirements based on the specific customer site location and generating system. Open delta transformers will only be connected as a single phase and only supply power to the lighting transformer.
3. **Metering** – Metering will be specified by FPL and may be self-contained or primary depending on the size and configuration of the customer's generating system. Meter numbers associated with interconnecting premise must be included in Single Line Diagrams (SLD) and/or plans.
4. **Disconnect Switch** – All tier 2 and tier 3 systems require an FPL approved visually open Distributed Energy Resource (DER) disconnect switch to allow safe restoration of FPL's system. The DER disconnect switch must be installed on the AC side of the system. The manual disconnect switch must be mounted separate from but adjacent to the FPL meter socket within 10 feet and must always remain accessible to FPL. Plans must show dimensions between the location of the meter socket and the DER disconnect switch. There shall be no locked gates, doors or fences between the meter socket and the DER disconnect switch. The DER disconnect switch shall be connected on the load side of the meter to the approved IEEE 1547 inverter and the line side of the DER disconnect switch shall be connected to FPL's power grid. This device will vary depending on the configuration, voltage, and generation capacity.
5. **Interconnection** – Customer generation is limited to 90 percent of the FPL distribution service rating (Transformer). FPL recommends that all interconnections will be performed on the load side of the customer's main electrical panel. If the interconnection is performed on the line side



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of the customers main electrical panel (per NEC) a manual AC disconnect is required between AC generation output and the point of interconnection to FPL facilities. The manual disconnect switch must be mounted separate from but adjacent to the FPL meter socket within 10 feet and must always remain accessible to FPL. Under no circumstance will the customer make interconnections in any FPL equipment including metering enclosures, transformers, switching cabinets, vaults, or any other devices not specifically designated by FPL as the point of interconnection. For all installations customers shall provide appropriately sized and number of conductors, including a neutral. No fault current limiting devices may be installed on the neutral or conductors.

The customer is responsible for all costs associated with any equipment or facilities that require upgrading or modification. The customer's generating equipment shall not cause any negative impacts to other FPL customers or the grid. FPL may disconnect any customer generation for any valid reason.

All net metering systems require written approval and agreement from FPL.

6. **Labeling** – All labels must be permanent and weatherproof/UV resistant placard with engraved letters. The customer is responsible for all labeling requirements. The following labels must be installed at the interconnecting meter can and the DER disconnect switch.

INTERCONNECTING METER CAN

WARNING
MULTI POWER SOURCES
ENTER SOURCES HERE
RATED AC OUTPUT CURRENT ** AMPS
NOMINAL OPERATING VOLTAGE ** VOLTS

DER DISCONNECT SWITCH

GENERATION SYSTEM AC DISCONNECT
RATED AC OUTPUT CURRENT ** AMPS
NOMINAL OPERATING VOLTAGE ** VOLTS



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7. **System Impact Study** – A System Impact Study may be required for some generating systems. This study will determine the requirements to interconnect the customer's generation to FPL's grid. The customer must provide detailed information on the proposed protective relaying, metering, and control equipment. All relaying and metering shall be provided in a one-line diagram. A three-line diagram may be required for some installations. The study may include but is not limited to: Protection and Coordination Study, Grounding Study, Load Flow Analysis and Arc Flash Analysis.
8. **Protection and Control** – Depending on the interconnection, customers may be required to install protective devices to safeguard the generating system and the FPL grid. Customers are responsible for protecting their system from faults, disturbances or interruptions on both the FPL and customer side. The complexity of the protective system will vary depending on the size, type, and location of the customer generation installation. All protective devices and schemes must be approved by FPL.



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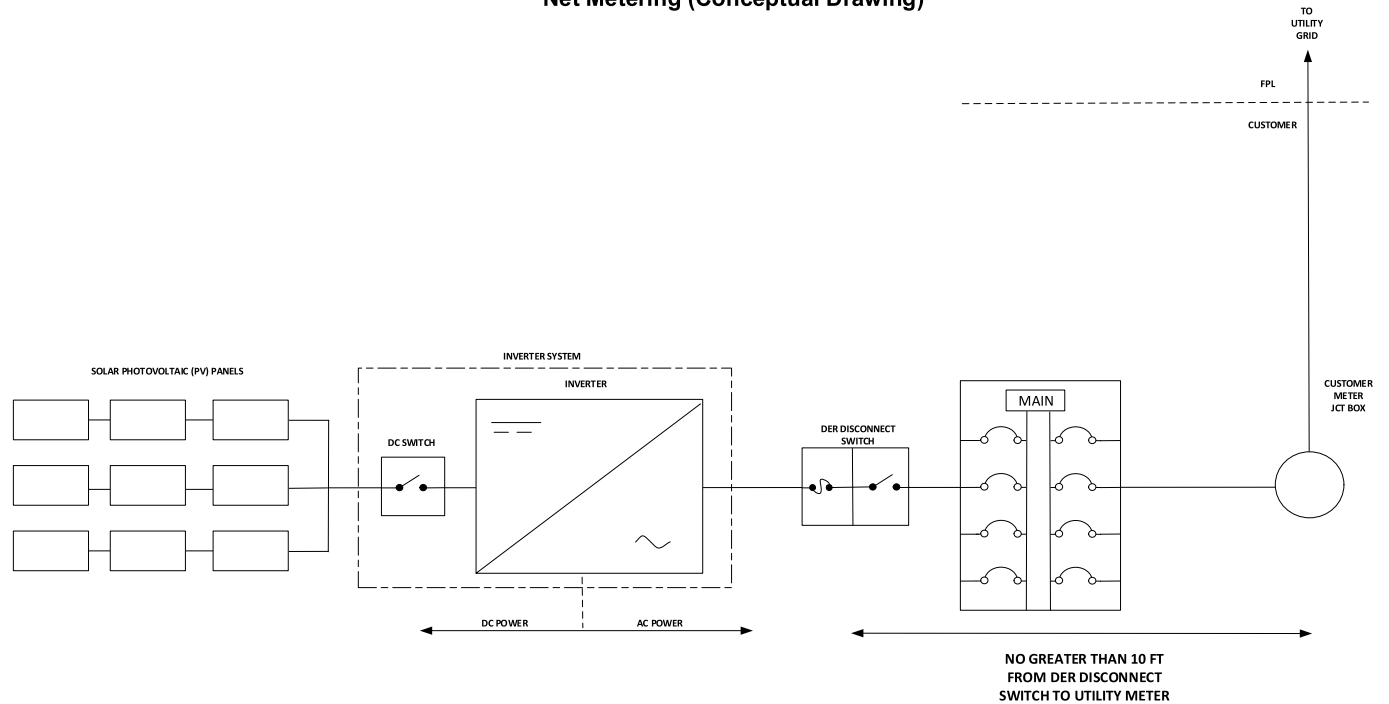
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Figure IV-1
Net Metering (Conceptual Drawing)





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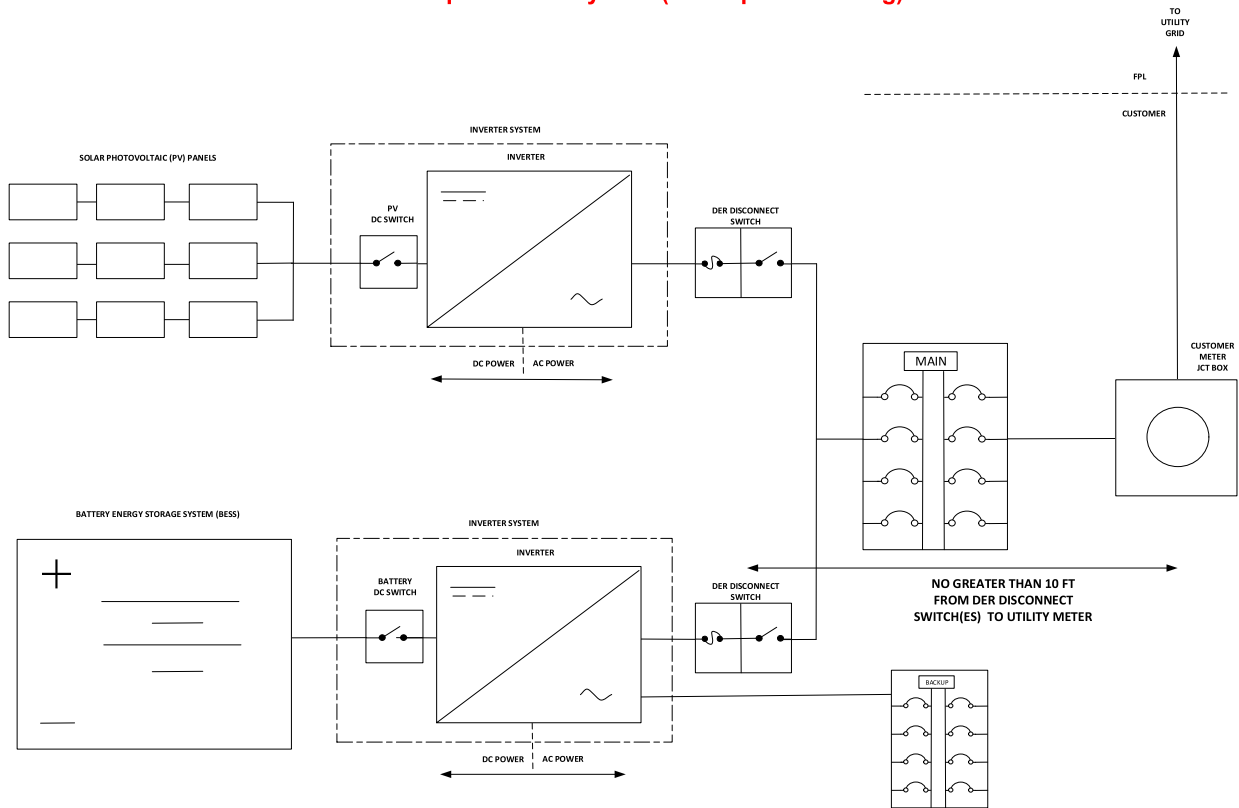
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Figure IV-2
AC Coupled BESS System (Conceptual Drawing)





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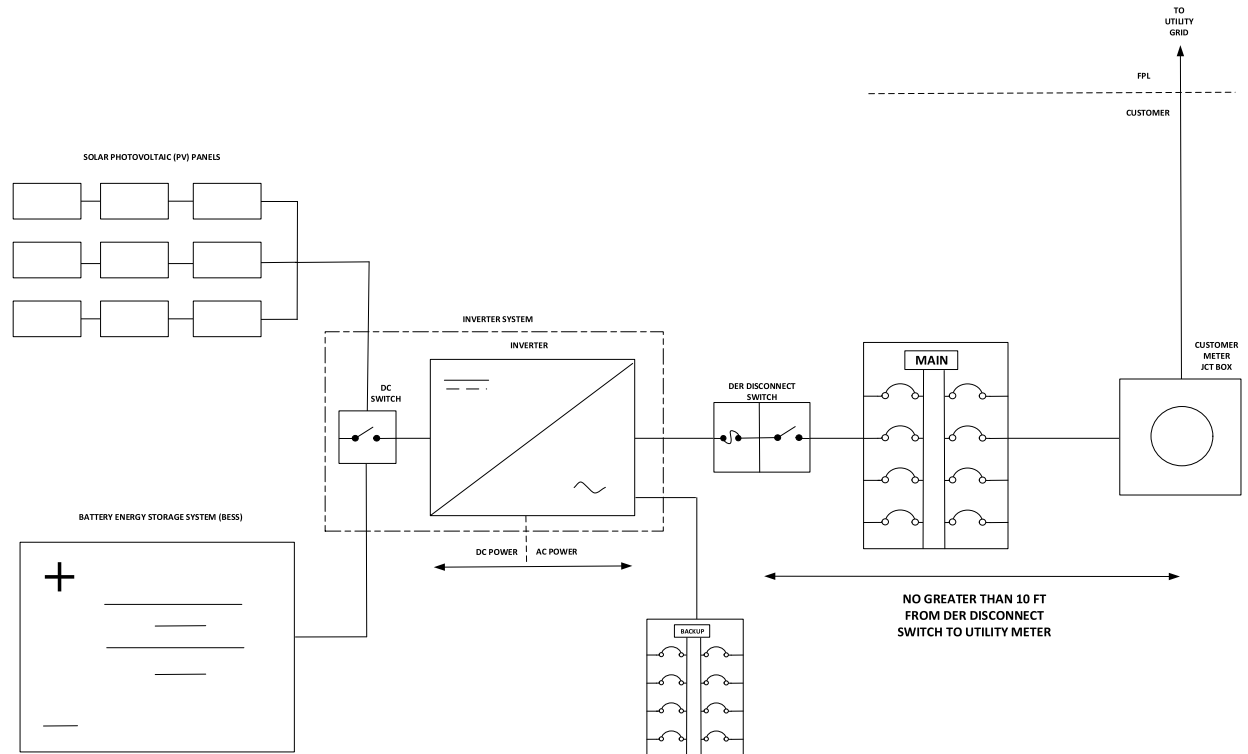
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Figure IV-3
DC Coupled BESS System (Conceptual Drawing)





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DER Disconnect Switch Utility Requirements

FPL requires a Distributed Energy Resource (DER) Disconnect Switch (on the AC side of the inverter) for all DER installations ranging from 10kW to 2MW. This switch shall be in accordance with the requirements of section XIII. "Distributed Generation" of the FPL Electric Service Standards. (ESS).

The following list of requirements is based on section XIII and is provided as a service to FPL customers.

Requirements:

- ☐ The switch shall be a "visible open" switch (blades, jaws and an air gap between them are visible to an operator).
- ☐ The "visible open" components cannot be obscured by any dead-front, arc-shield or other component (parts shall not be removed to create an unobscured view).
- ☐ The switch shall be lockable in the open position.
- ☐ FPL padlock shank (3/8") must fit on the cover hasp of the switch.
- ☐ The switch shall not be modified to accommodate an FPL lock.
- ☐ The switch shall be installed separate from, but adjacent to, the FPL meter socket within 10 feet of the meter socket and must always remain unrestricted and accessible to FPL personnel. Plans must show dimensions between the location of the meter socket and the DER disconnect switch. There shall be no locked gates, doors or fences between the meter socket and the DER disconnect switch.
- ☐ The switch enclosure shall be properly grounded.
- ☐ The switch may not be used as a raceway for any conductors other than the phased conductors being switched and the associated grounded conductor (neutral) and grounding conductor (equipment ground).
- ☐ Switch shall be rated for the voltage and current requirements of the generating facility and must be listed and conform to all applicable UL, ANSI and IEEE standards, and installed in accordance with the requirements of the NEC.
- ☐ The switch shall be connected so that the blades are de-energized when the switch is in the open position in accordance with NEC 404.6(C).

Notes:

FPL reserves the right to lock open the DER utility disconnect switch without prior notice to the customer when interconnected operation of the customer's generating facility with the FPL system could have adverse impacts on FPL's system, life or property, or upon termination of the Interconnect Agreement.



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B. Small Generation Interconnection Agreement (SGIA)

Customer generating equipment shall adhere to FERC's Small Generator Interconnection Agreement (SGIA), and Small Generation Interconnection Procedures (SGIP).

The customer shall meet all applicable technical, interconnection, safety and protection requirements of this and other FPL documents. The customer must also meet relevant requirements of the NESC, OSHA, and any others applicable to the installation.

The customer shall conform to FPL, National Electric Code (NEC) and Authority Having Jurisdiction (AHJ), for installation requirements.

The customer inverter rating (AC) will determine the Tier that the generation system falls under FERC's policy.

- Small Generation Interconnection Agreement (SGIA): Less than 20 MW
- Large Generation Interconnection Agreement (LGIA): Greater than or equal to 20 MW

It is highly recommended that customers obtain FPL's written interconnection approval prior to procuring any material.

1. **Generating Facility** – All customer-supplied Distributed Energy Resources (DERs) intended for grid interconnection must utilize equipment that is certified to comply with the latest version of IEEE 1547 and UL 1741 (SB Preferred), or other applicable standards as recognized by the utility. Certification must be performed by a Nationally Recognized Testing Laboratory (NRTL). Equipment that does not meet these certification requirements will not be approved for interconnection. The utility reserves the right to specify or adjust advanced control settings or operating parameters to ensure system reliability, power quality, and safety for all customers and the electric grid. Where multiple generating units are used, the system must be configured to present a single point of voltage source at the Point of Interconnection (POI). All generating equipment must operate at 60 Hz AC and be compatible with standard utility service voltages.
2. **Transformer** – FPL will specify any winding, grounding or other requirements based on the specific customer site location and generating system.
3. **Metering** – Metering will be specified by FPL and may be self-contained, current transformer or primary depending on the size and configuration of the customer's generating system. Meter numbers associated with interconnecting premise must be included in Single Line Diagrams (SLD) and/or plans.
4. **Disconnect Switch** – An FPL approved visually open disconnect is required to allow safe restoration of FPL's system. The disconnect switch must be installed according to FPL instruction and must remain accessible to FPL at all times. The disconnect switch shall be connected on the load side of the meter to the approved IEEE 1547 inverter and the line side of the disconnect switch shall be connected to FPL's power grid. This device will vary depending on the configuration, voltage and generation capacity.
5. **Interconnection** – FPL will determine the point of interconnection (POI). For all installations customers shall provide an appropriate number of conductors including a neutral. No fault current limiting devices shall be installed on the neutral or conductors. Under no circumstance will the customer make interconnections in any of FPL equipment including metering enclosures, transformers, switching cabinets, vaults, or any other devices not specifically designated by FPL as the point of interconnection.



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The customer will be responsible for all costs associated with any equipment or facilities that required upgrading or modification. The customer's generating equipment shall not cause any negative impact on the quality of service provided to other FPL customers or the grid. FPL reserves the right to disconnect any customer generation for any valid reason.

6. **Labeling** – All labels should be permanent and weatherproof / UV resistant placard with engraved letters. The customer is responsible for all labeling requirements. The following labels must be installed at the interconnecting meter can and the DER disconnect switch.

INTERCONNECTING METER CAN

WARNING
MULTI POWER SOURCES
ENTER SOURCES HERE
RATED AC OUTPUT CURRENT ** AMPS
NOMINAL OPERATING VOLTAGE ** VOLTS

DER DISCONNECT SWITCH

GENERATION SYSTEM AC DISCONNECT
RATED AC OUTPUT CURRENT ** AMPS
NOMINAL OPERATING VOLTAGE ** VOLTS

7. **System Impact Study** – A System Impact Study may be required for some generating systems. This study will determine the requirements to interconnect the customer's generation to FPL's grid. The customer must provide detailed information on the proposed protective relaying and control equipment. All relaying, protection and metering shall be provided in a one-line diagram. In some case's a three-line diagram may be required. The study may include, but is not limited to: Protection and Coordination Study, Grounding Study, Load Flow Analysis and Arc Flash Analysis.
8. **Protection and Control** – Depending on the interconnection, FPL may require the customer to install protective devices. These devices are to protect the grid, other customers and the FPL system. Customers are responsible for protecting their own system from faults, disturbances or interruptions originating from both FPL and the customer side. Protective devices must be approved by FPL. The complexity of the protective devices required will vary with the size, complexity, and location of the customer generation installation.



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C. Battery Storage

Battery systems for personal use (customer-owned installations behind the customer's meter)

For customers interested in installing battery storage systems for personal use (i.e., behind the customer's meter), FPL has developed the policy below. The policy ensures we adequately protect the safety of those working on the electrical grid, monitor the impact of energy storage systems on the grid, and evaluate the potential economic impact of the installation of these systems to all customers. This policy is subject to change as the implications of this emerging technology are better understood, and as legislative or regulatory action may dictate

1. **Technical Specifications** - Battery storage equipment installed behind a customer's meter must have a certification conducted by a Nationally Recognized Testing Laboratory (NRTL) to the current UL 1741 standard for safety. A placard must be permanently affixed to the meter enclosure stating "Battery storage utilized in this facility." Battery storage that is not UL 1741 certified must be DC coupled behind a UL 1741 listed device.
2. **Battery storage integrated with customer-owned renewable generation systems** - Energy stored by the battery is only for the customer's use. While it may operate interconnected with the electrical grid, at this time the customer may not export power from the battery to the grid. Battery storage for Tier 3 systems will be reviewed in the fast-track study.
3. **Battery for backup support** - Battery storage systems installed without a renewable generation system and intended as an emergency backup power source may be charged from the electrical grid. No interconnection agreement is required. However, as with customer-owned backup generators, the customer is responsible for ensuring that power from the battery does not back-feed to the grid to avoid a safety hazard for workers or the public. Customers assume all liability associated with the use of such battery systems.
4. **Battery storage continuously interconnected to the electric utility**
Customers are required to notify FPL of battery systems installed without a renewable generation system and designed to charge from the grid and operate interconnected with the grid. It is anticipated that FPL will develop a standard Utility Interactive Battery Storage application to gather information about such installations. In the interim, the customer will be required to submit a Small Generator Interconnection Application. FPL will review the application and perform a study if required by the Small Generator Interconnection Procedures. If a customer does not intend to export power to the electrical grid and FPL does not require the installation of any equipment on its system, an interconnection agreement is not required. If a customer wants to export power to the grid or FPL requires the installation of any equipment on its system, the customer will be required to complete a Small Generator Interconnection Agreement. Stand-alone battery storage systems are not included in the definition of "renewable energy" pursuant to Rule 25-6.065(2)(d), Florida Administrative Code, and the output from such systems is not net metered.

D. Electric Vehicle to X (V2X)

V2X enables customers to use their Electric Vehicle (EV) to supply power to households and the FPL grid.



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All Electrical Vehicle Supply Equipment (EVSE) shall be interconnected behind customer's main electrical panel.

1. **Vehicle to Home (V2H)** – V2H allows customers to use their Electric Vehicle to supply power to their home, but NOT export to grid. For customers interested in using vehicle to home (V2H) capabilities, for personal use, the customer must interconnect their Electrical Vehicle Supply Equipment behind the customer's main electrical panel. V2H does not require an interconnection agreement and shall be treated as a customer-owned backup generator. The customer is responsible for ensuring that power from V2H does not back-feed or export to the grid to avoid a safety hazard for workers or the public. Customers assume all liability associated with the use of such battery systems.

- a. **Isolation** – internal EVSE or mechanical disconnect between islanding and the grid – ATS or mechanical disconnect required

2. **Vehicle to Grid (V2G)** – V2G allows customers to use their Electric Vehicle to supply power to their home and export to the grid. The customer shall meet all applicable technical, interconnection, safety and protection requirements of this and other FPL documents. The customer must also meet relevant requirements of the NESC, OSHA, and any other requirements applicable to the installation.

The customer shall conform to FPL, National Electric Code (NEC) and Authority Having Jurisdiction (AHJ) for installation requirements.

If the customer's Electric Vehicle battery capacity rating (AC) is less than 20MW (inverter size and battery size), the generation system shall fall under the Small Generation Interconnection Agreement (SGIA).

- a. **Application** – All customers wishing to participate in V2G shall apply as Small Generation Interconnection Agreement. With no exception shall a customer with V2G be allowed to participate under FPL's net metering program.

- b. **Electric Vehicle Supply Equipment** – If a customer is exporting to the grid using a V2G-DC system (EVSE + EV) and the EVSE is factory programmed for Bi-directional operation, the EVSE shall be certified by the Underwriters Laboratory (UL) 1741 SA and SB (IEEE1547-2018). If a customer is exporting to the grid using V2G-AC system (EVSE + EV) and the EVSE is factory programmed for Bi-directional operation, the EVSE shall be certified by UL1741SC and SAE J3072. All EVs must comply to UL 9741 standards.

- c. **Communications** – Customer shall have a gateway communication module that will force the system to throw over between isolation and grid export.

- d. **Interconnection** – Customer shall interconnect their V2G system behind customer main panel, the customer shall not interconnect in FPL equipment or on a line side tap.

- e. **Metering** – Metering will be specified by FPL and may be self-contained, current transformer or primary depending on the size and configuration of the customer's V2G system.

- f. **Disconnect Switch** – An FPL approved visually open disconnect is required to allow safe restoration of FPL's system. The disconnect switch must be installed according to FPL instruction and must remain accessible to FPL at all times. The disconnect switch shall be connected on the load side of the meter to the approved V2G system and the line side of the disconnect switch shall be connected to FPL's power grid. This device will vary depending on the configuration, voltage and generation capacity.



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- g. **Labeling** – All labels should be permanent and weatherproof / UV resistant placard with engraved letters. The customer is responsible for all labeling requirements.
- h. **System Impact Study** - A System Impact Study may be required for some generating systems. This study will determine the requirements to interconnect the customer's generation to FPL's grid. The customer must provide detailed information on the proposed protective relaying and control equipment. All relaying, protection and metering shall be provided in a one-line diagram. In some case's a three-line diagram may be required. The study may include, but is not limited to: Protection and Coordination Study, Grounding Study, Load Flow Analysis and Arc Flash Analysis.
- i. **Protection and Control** – Depending on the interconnection, FPL may require the customer to install protective devices. These devices are to protect the grid, other customers and the FPL system. Customers are responsible for protecting their own system from faults, disturbances or interruptions originating from both FPL and the customer side. Protective devices must be approved by FPL. The complexity of the protective devices required will vary with the size, complexity, and location of the customer generation installation.

E. Grounding and Fault Current

This section outlines the grounding and fault current standards for the interconnection of distributed energy resources (DERs) at the distribution level. DERs may be inverter-based resources (Solar) or rotational machines (Generators). It is intended to guide interconnecting customers in ensuring their generating facility's grounding arrangement is compatible with FPL's effectively grounded distribution system (As defined in IEEE Std C62.92.4).

1. **Transformer Configurations** – The following transformer configurations are recommended that ensure effective system grounding and fault current control:

- Wye-grounded primary to wye-grounded secondary.
- Wye-grounded primary to delta secondary.

These configurations help manage fault current contributions, prevent overvoltages, and maintain system stability.

The following transformer configurations are **not recommended** due to their potential to compromise effective system grounding and fault current control:

- Delta-ungrounded primary to wye secondary.
- Delta-ungrounded primary to delta secondary.
- Wye-ungrounded primary to wye or delta secondary.
- Open-Delta or Wye configurations

The use of transformers with delta windings facing the distribution feeder/circuit should be avoided.

Use of grounding transformers (e.g., wye-grounded delta or zig-zag) for ungrounded sources may be needed (Please see Point 3 for additional details).



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- 2. Grounding Transformer Requirements** – Grounding transformers may be required for DERs that do not provide a direct ground reference. Requirements include:

- Consideration of installation of grounding transformers for ungrounded inverter-based systems or unpreferred interconnecting, dedicated, or isolation transformers may trigger the need for a comprehensive grounding study.
- Proper sizing and placement to ensure effective fault current paths and voltage control must be submitted to FPL for review.

- 3. Fault Current Mitigation Strategies** – The interconnecting customer must supply FPL the 3 Phase and Phase-to-Ground fault current capability of their Generating Facility for a fault at their Point of Interconnection (POI), independent of FPL system, that is, assuming that the FPL feeder service is disconnected (Open Switch).

To mitigate fault currents and protect equipment, FPL may require the following:

- Use of phase and/or neutral reactors to limit fault current.
- Relay coordination and grading to detect and isolate faults effectively.
- Use of Transfer Trip where applicable. Transfer Trip is a tele-protection mechanism that sends a signal from a substation to another downstream device to initiate a breaker trip
- Ground potential rise (GPR) analysis and mitigation for safety compliance.

To mitigate fault currents and protect equipment, FPL shall require the following:

- DER systems over 100kW shall present as an effectively grounded source so that the ground reference is maintained even when the FPL source is disconnected.

4. Standards and References

The following standards and guidelines should be referenced in grounding and fault current practices:

- IEEE Std C62.92.4-2014: Neutral grounding for distribution systems (2.4 kV to 34.5 kV).
- IEEE Std C62.92.6-2017: Grounding of inverter-based systems.
- IEEE Std. 1547-2018 Interconnection and Interoperability Requirements for DERs
- National Electrical Safety Code (NESC): Defines effective grounding and safety rules.