RETAIL ELECTRIC SERVICE TARIFF
APPENDIX C - SERVICE INSTALLATION DIAGRAMS

Issued: July 1, 1988
Effective: August 1, 1988
Grounding:
The electrode as approved by inspection
authority and connect to buried metallic
water and sewer piping system if available.
RETAIL ELECTRIC SERVICE TARIFF
P.S.C. Md. No. 3
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Effective: August 1, 1988
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Note:
Pole must be sufficiently rigid and guyed or braced to withstand 200 pounds pull at the top. If brace is used it should be attached approximately 2 feet below the service attachment and should extend a distance from the base of the pole at least equal to one half the height of the pole.

Grounding:
Ground as approved by inspection authority.

SOUTHERN MARYLAND ELECTRIC COOPERATIVE, INC.
HUGHESVILLE, MARYLAND 20637

OVERHEAD
TEMPORARY CONSTRUCTION
SERVICE POLE

Issued: July 1, 1988
Effective: August 1, 1988
1. Customer shall provide a separate feed from the junction box to each metering point unless main disconnect, meter stack or ganged base is used. Use of trough is optional. If used, trough shall be per NEC requirements and a minimum of 12" x 12". Minimum diameter of conduit from trough to meter shall be 2 3/4". Trough shall have provisions for sealing.

2. A main disconnect shall be permitted only if the number of services is greater than six and shall be supplied by customer. Disconnect shall be fed from junction box. Disconnect shall have provisions for sealing. Disconnect shall be per NEC requirements.

3. A junction box shall be required for three or more services and all trough and meter stack installations. If number of customer phase conductors is greater than four per phase, junction box shall be of bus bar construction (per SMECO Dwg. T-105). In all cases, junction box shall be provided and installed by customer. SMECO shall provide and install incoming service cable from transformer. The service cable will enter and terminate in the junction box. Installation of conduit shall be as specified by SMECO. Junction box shall have provisions for sealing.

4. Self-contained meters shall be fed separately from junction box unless main disconnect, meter stack or ganged bases are used. No meter shall be lower than 2' or higher than 6' above grade. Minimum separation between self-contained meters shall be 10' on center. Self-contained meters can be mounted above or below trough, if used.

5. When required by SMECO, CT cabinet shall be provided and installed by customer (per SMECO Dwg. T-101 or T-102). SMECO shall provide and install all CTs and connectors and shall make all connections within CT cabinet. Customer shall install SMECO provided meter boxes. (per SMECO Dwg. T-101 or T-102). CT cabinet shall be fed from junction box (or disconnect if required).

6. Meter stack must be fed from separate junction box (or disconnect if required). All meters must have individual disconnecting means. A bypass switch is required for all three phase services. All meter stacks shall be per NEC requirements. Stacks shall not be more than 6 electric meters high. No meter shall be lower than 2' or higher than 6' above grade.

7. A minimum of 2 separation shall be maintained between service entrance equipment and all other grounded equipment such as gas meters, propane tanks, water meters, etc.

8. Ganged meter bases shall be provided and installed by customer. No meter shall be lower than 4' or higher than 6' above grade.

9. One meter allowed per tenant space. Based on SMECO tariff billing requirements and NEC 225.30 and/or 220.40 as applicable.

**ALL ARRANGEMENTS ARE ACCEPTABLE**

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Unit No. T-108  Dwg. No. A-4535

Issued: June 21, 2011
Effective: July 1, 2011
For use on installations of 100 amperes or less.

Wire sizes 1/0 to 7/0 gauge inclusive.

Meter Box Size:
7 1/4" x 7 1/4" x 2 3/4" deep (approximately)

120/240 Volt or 120/208 Volt single phase, 5 wire, outside installation using single meter trough (overhead)

Meter Box Size:
8" x 12" x 4 1/2" deep (approximately)
2" Knock outs

120/240 Volt or 120/208 Volt single phase, 5 wire, outside installation using single meter trough (underground)

SOUTHERN MARYLAND ELECTRIC COOPERATIVE, INC.
HUGHSVILLE, MARYLAND 20637

Overhead/Underground-Typical Wiring Diagram for 100 Amperes or Less Meter Socket, #
For use on installations of 150 Amperes or less, but more than 100 Amperes. Wire sizes: 1/3 str. or 3/4 str. inclusive.

E Meter elevation - Maximum 4' minimum above ground.

All meter boxes of this type will be 8" x 8" x 5¾" deep. (Approximately)

---

120/240 Volt or 120/208 Volt Single Phase 3 wire outside installation (overhead)
For use on installations of 150 to 200 Amperes. Wire sizes 4-6/0 thru 500 MCM Alum. inclusive.

- Meter elevation 5' max - 4' min. above ground.

120/240 Volt or 120/208 Volt, Single phase, 3 wire, outside heavy duty installation (overhead)

120/240 Volt or 120/208 Volt, Single phase, 3 wire, outside heavy duty installation (underground)

SOUTHERN MARYLAND ELECTRIC COOPERATIVE, INC.
HUGHESVILLE, MARYLAND 20637

Issued: July 1, 1988
Effective: August 1, 1988
For use on installations of 200 Amperes or less
Wire sizes 1/4 cu. 10' 500 mcu. alum inclusive.

& Meter elevation 5' maximum — 4' minimum above ground.
All meter boxes of this type will be 10" x 17" x 5" deep (approximately)

3 Phase 4 Wire Heavy Duty Installation (Overhead)

Issued: July 1, 1988
Effective: August 1, 1988
For use on installations of 200 Amperes or less. Wire sizes 4/0 cu, to 350 mcu alumin inclusive.

6 Meter elevation 5' maximum—4' minimum above ground.
All meter boxes of this type will be 12" x 15" x 4 9/16" deep. (approximately)

3Phase 4 Wire Heavy Duty Installation (Underground.)
For use on parallel installations or on loads of 200 amperes or more.

Neutral position may be either top or bottom depending on device mounting bracket.

Locate on outside wall

Ground

Meter Enclosure
Box size 13" x 26"

4 Meter elevation 5' maximum — 4' minimum above ground.

For Diagram:

SOUTHERN MARYLAND ELECTRIC COOPERATIVE, INC.
HUGHESVILLE, MARYLAND 20637.

4 Wire 3 Phase 120/240V. or 120/208V. Wall Mounted C.T. Installation

Approved. NEA Date 6-20-49
Scale: H.T. DG No. R-15
For use on parallel installations or on loads of 200 amperes or more.

Neutral position may be either top or bottom depending on device.

Line Side

Load Side

C.T. is with plated steel, mid. bars, brackets, clamps & bolts furnished by SMECO.

1" Conduit Raceway

Meter enclosure Box size 15" X 26"

Located on outside wall.

Ground Level

Ground.

SOUTHERN MARYLAND ELECTRIC COOPERATIVE, INC
HUGHESVILLE, MARYLAND 20637

4 Wire 3 Phase 120/240V or 120/208V
C.T. Installation Mounted on Service Entrance Bizer

Drawn: J.J.Y. Checked: 
Approved: 
Scale: Y.S. Deg. No. 

Issued: July 1, 1988
Effective: August 1, 1988
For use on parallel installations or on loads of 200 amperes or more.

Neutral position may be either top or bottom depending on device.

Mounting bracket

n
6' min.
1
6' min.
2
6' min.
3

Wire & conduit size as required by code not to exceed 200amps.

Wall mounted self-contained meter socket

Locate on outside wall

Box size 16" x 16"

4' Meter elevation 5' max. — 4' min above ground

Southern Maryland Electric Cooperative, Inc.
Hughesville, Maryland 20637.

4 wire 3 phase 120/240V, or 120/208V.
one self-contained & one C.T. meter inst. for two rate applications.

Drawn: J.W. Checked: 
Scale: 1/4" = 1' . Dwg. No.: B.17.

Issued: July 1, 1988
Effective: August 1, 1988
RETAIL ELECTRIC SERVICE TARIFF
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Issued: April 23, 2012
Effective: June 1, 2012

NOTE:
METER DEPT. UPON VERIFICATION OF LOCKS/TABS, WARNING SIGN IS TO BE APPLIED TO CABINET COVER.
STOCK #: 160029

CABINET COVER

KWH METER ENCLOSURE
(TO BE PROVIDED AND INSTALLED BY CUSTOMER)

- CUSTOMER TO PURCHASE TRANSFORMER
- CUSTOMER TO MOUNT AT SMECO APPROVED OUTSIDE LOCATION
- SMECO WILL PROVIDE INTERNAL SOCKET ASSEMBLY AT TIME OF CT INSTALLATION
- PART NUMBER - METER DEVICES 600U6005C-1208
- SMECO STOCK NUMBER 670000

NOTES:

1. CABINET SHALL BE MADE OF MIN. 12 GAUGE GALVANIZED METAL. CABINET SHALL BE MOUNTED WITH LONG DIMENSION IN DIRECTION OF CABLE PULL. COVER SHALL BE REMOVABLE, SEALABLE AND LOCKABLE (TAB WITH HOLE TO ALLOW BREAK AWAY LOCK). TWO TABS REQUIRED AT OPPOSITE ENDS FOR FLUSH MOUNTED COVERS.

2. LINE AND LOAD ENTRANCE CABLES SHALL BE GROUPED ON OPPOSITE ENDS OF CABINET. IF THE NUMBER OF CUSTOMER PHASE CONDUCTORS IS GREATER THAN FOUR PER PHASE A CT BUS BAR CABINET IS REQUIRED. REFER TO T-103. (DWG. A-3661)

3. LOAD SIDE CONDUCTORS TO BE GIVEN (1) COMPLETE WRAP INSIDE CT CABINET FOR SMECO MAKE-UP PURPOSES.

4. METER ENCLOSURE SHALL BE LOCATED MIN. OF 4'-0" AND MAX. OF 50 WIRE FEET FROM CT CABINET. BOTTOM OF CT AND METER ENCLOSURE SHALL BE MIN. OF 3'-6" ABOVE GRADE. TOP OF METER ENCLOSURE SHALL BE MAX. OF 6'-0" ABOVE GRADE. AND, TOP OF CT BOX SHALL BE MAX. OF 6'-0" ABOVE GRADE.

5. A 3'-0" MIN. SEPARATION SHALL BE MAINTAINED BETWEEN SERVICE ENTRANCE EQUIPMENT AND ALL OTHER GROUNDED EQUIPMENT, SUCH AS GAS AND WATER METERS, PROPANE TANKS, ETC.

6. WHERE LINE, LOAD OR METER CONDUITS ARE TO ENTER BACK OF CT CABINETS, THEY WILL ENTER AT TOP OF BACK.

CURRENT TRANSFORMER CABINET
100A TO 800A SERVICE RATING

Unit No. T-101 Dwg. No. A-3659
RETAIL ELECTRIC SERVICE TARIFF
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NOTE:
METER DEPT., UPON VERIFICATION OF LOCKS/TABS, WARNING SIGN IS TO BE APPLIED TO CABINET COVER.
STOCK #: 166929

CT CABINET
(TO BE PROVIDED AND INSTALLED BY CUSTOMER)

CABINET COVER

NOTES:

1. CABINET SHALL BE MADE OF MIN. 12 GAUGE GALVANIZED METAL. CABINET SHALL BE MOUNTED WITH LONG DIMENSION IN DIRECTION OF CABLE PULL. COVER SHALL BE REMOVABLE, SEALABLE AND LOCKABLE (TAB W/1/4" HOLE TO ALLOW BREAK AWAY LOCK.) TWO TABS REQUIRED AT OPPOSITE ENDS FOR FLUSH MOUNTED COVERS.

2. LINE AND LOAD ENTRANCE CABLES SHALL BE GROUPED ON OPPOSITE ENDS OF CABINET. IF THE NUMBER OF CUSTOMER PHASE CONDUCTORS IS GREATER THAN FOUR PER PHASE A CT BUS BAR CABINET IS REQUIRED. REFER TO T-103. (DWG. A-3661)

3. LOAD SIDE CONDUCTORS TO BE GIVEN (1) COMPLETE WRAP INSIDE CT CABINET FOR SMECO MAKE-UP PURPOSES.

4. METER ENCLOSURE SHALL BE LOCATED MIN. OF 4" AND MAX. OF 50 WIRE FEET FROM CT CABINET. BOTTOM OF METER ENCLOSURE SHALL BE MIN. OF 3'-6" ABOVE GRADE. BOTTOM OF CT BOXES SHALL BE A MIN. OF 1'-6" ABOVE GRADE. TOP OF METER ENCLOSURE SHALL BE MAX. OF 8'-0" ABOVE GRADE. AND, TOP OF CT BOX SHALL BE MAX. OF 8'-0" ABOVE GRADE.

5. A 3'-0" MIN. SEPARATION SHALL BE MAINTAINED BETWEEN SERVICE ENTRANCE EQUIPMENT AND ALL OTHER GROUNDED EQUIPMENT, SUCH AS GAS AND WATER METERS, PROPANE TANKS, ETC.

6. WHERE LINE, LOAD OR METER CONDUITS ARE TO ENTER BACK OF CT CABINETS, THEY WILL ENTER AT TOP OF BACK.

SMECO

CURRENT TRANSFORMER
CABINET
801A TO 2000A
SERVICE RATING

DRAWN:
6/18/98

CHECKED:
N/A

APPROVED:
T-102

DWG. #: A-3660

SHT. #: 1

TOTAL SHT. #: 1

Unit No. T-102  Dwg. No. A-3660

Issued: April 23, 2012
Effective: June 1, 2012
NOTE:
METER DEPT. UPON VERIFICATION OF LOCKS/TANS, WARNING SIGN IS TO BE APPLIED TO CABINET COVER.
STOCK #: 168929

METER ENCLOSURE
12"X20" TRANSFORMER OPERATED SOCKET.

• CUSTOMER TO PURCHASE TRANSFORMER OPERATED METER ENCLOSURE
• CUSTOMER TO MOUNT AT SMECO APPROVED OUTSIDE LOCATION
• SMECO WILL PROVIDE INTERNAL SOCKET ASSEMBLY AT TIME OF CT INSTALLATION
• PART NUMBER: METER DEVICES 600U3006C-1206
• SMECO STOCK NUMBER 070000

LOCATION FOR CURRENT TRANSFORMERS

SIDE VIEW
4" CONDUITS FOR SERVICE CABLE, NUMBER AS REQUIRED BY SMECO(TYP.)

UNIT NO. T-103

NOTES:
1. THIS BUS BAR CABLE IS CUSTOMER EQUIPMENT AND AS SUCH IS SUBJECT TO ELECTRICAL INSPECTION.
2. THIS TYPE OF CABINET WILL BE REQUIRED IF NUMBER OF CUSTOMER PHASE CONDUCTORS IS GREATER THAN FOUR PER PHASE.
3. LOAD SIDE CONDUCTORS TO BE GIVEN (1) COMPLETE WRAP INSIDE CT CABINET FOR SMECO MAKE-UP PURPOSES.
4. BUS BAR SHALL BE COPPER AND SIZED ACCORDING TO LOAD REQUIREMENTS AND NEC REQUIREMENTS.
5. A 3" MINIMUM SEPARATION SHALL BE MAINTAINED BETWEEN SERVICE ENTRANCE EQUIPMENT AND ALL GROUNDED NON-ELECTRICAL UTILITY EQUIPMENT SUCH AS GAS METERS, WATER SYSTEM EQUIPMENT, PROPANE TANKS, ETC.
6. SERVICES RATED ABOVE 2500A WILL REQUIRE SWITCHGEAR WITH COMPARTMENT FOR CT METERING EQUIPMENT.

7. 1 1/4" MINIMUM CONDUIT MUST BE RUN BETWEEN THE METERING ENCLOSURE AND THE CT BUS BAR CABINET.
   TOTAL DISTANCE SHALL BE NO MORE THAN FIFTY FIVE FEET.
8. METER ENCLOSURE SHALL BE A MINIMUM OF 3'/6" ABOVE GRADE. TOP OF METER ENCLOSURE SHALL BE A MAXIMUM OF 5'/6" FROM GRADE.
9. COVER SHALL BE REMOVABLE, SEALABLE AND LOCKABLE (TAR WT. 1/4" NAIL TO ALLOW BREAK AWAY LOCK) TWO TARS REQUIRED AT OPPOSITE ENDS FOR FLUSH MOUNTED COVERS.

CT/BUS BAR CABINET
FOR METERING AND SERVICE CABLE TERMINATION
(2500A OR LESS)

Unit No. T-103  Dwg. No. A-3661

Issued: February 7, 2014
Effective: March 19, 2014
CONNECTION COMPARTMENT WITH STAGGERED BUS BAR.
DOOR TO BE HINGED OR IN SECTIONS FOR ONE PERSON TO LIFT.
SMECO CABLES TO BE TERMINATED IN COMPARTMENT TO BUS BAR.

1" MIN. DISTANCE FROM FLOOR TO LOWER BUS BAR.

NOTES:
SWITCHGEAR DRAWINGS TO INDICATE THE FOLLOWING:
1) LAYOUT OF ELECTRIC ROOM,
2) ELECTRIC ROOM FLOOR ELEVATION & GROUND ELEV,
3) LOCATION OF ELECTRIC ROOM IN BUILDING,
4) DIMENSIONS & RATINGS OF COMPARTMENTS & TROUGHS,
5) TROUG & C.T. COMPARTMENT DOORS TO BE FASTENED WITH PROVISIONS FOR SEALS,
6) ALL C.T. COMPARTMENTS TO HAVE 1/2" RIGID CONDUIT TO OUTSIDE METER LOCATION.

PROVIDE 3 COPIES OF DRAWINGS TO HUGHESVILLE ENGINEERING DEPARTMENT FOR APPROVAL

SOUTHERN MARYLAND ELECTRIC COOPERATIVE, INC
TYPICAL COMMERCIAL INSTALLATIONS SERVICE ARRANGEMENTS

DRAWN C. D. Low
CHECKED
APPROVED R. B. DATE 4-29-82
SCALE M.T.S. DWG NO. R-21
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