



**City of Seattle  
Seattle City Light Department**

**DEPARTMENT POLICY & PROCEDURE**

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**Subject**

**Number**

**DPP 500 P III-417, Schedule 100**

**Effective**

**INSTALLATION AND REMOVAL CHARGES FOR  
PERMANENT SERVICES**

**Supersedes**

**November 22, 2010**

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**Approved by Jorge Carrasco**

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**1.0 Payment for Permanent Service Installations and/or Removal of Looped Radial & Network**

- 1.1 Payment of all service installation and or removal charges, which includes standard charges as established in §2.0, and extraordinary charges, if any, for permanent service shall be required in the following manner before the Department will approve services for connection.

Sections 1.1.1 – 1.2 Refer to Looped Radial

- 1.1.1 Where standard and extraordinary work is estimated to cost \$35,000 or less, a payment of 100 percent of the estimate will be required before the Department will approve the service for connection. There will be no final billing or refund unless a change order(s) causes the estimate to go over \$35,000 (Looped Radial), \$75,000 (Network). Estimates are good for up to 120 days from the date of the original.
- 1.1.2 Where standard and extraordinary work is estimated to cost in excess of \$35,000, payment of 20 percent of the total of the estimate will be required before the Department's service design engineers and/or installation crews begin work. All fees (100 percent of the total estimate) must be paid before the service will be approved for connection. A final billing or refund will be made after the installation has been completed to reflect the actual time and material cost of the service installation.
- 1.2 For services where the installation and or removal costs are estimated to exceed \$35,000 and where multiple vaults are required, an advance payment of 20 percent of the engineer's estimate will be required before the Department's service design engineers and/or installation crews begin work. All fees (100 percent of the estimate) must be paid before each service is energized.

A final billing will be made after the job is completed to reflect actual time and material costs expended in installing and or removing the service.

1.2.1 For rewired services with existing service laterals that have been provided with temporary connections at the weatherhead by non-City Light personnel, City Light crews will make permanent connections to ensure the safety of the service. This work will be done at the direction of the Electric Service Representative (ESR). The ESR may add the connection charges to the customer's Customer Consolidated Service System (CCSS) billing account provided that the CCSS customer is the party that contracted to have the rewiring work done. In this situation City Light's work may precede the payment of installation charges.

### Sections 1.3 – 1.5 Refer to Network

- 1.3 Where services not subject to a standard charge, where the installation and or removal costs are estimated to cost \$75,000 or less, payment of 20 percent of the total of the engineer's estimate will be required before the Department's service design engineers and/or installation crews begin work. The full amount of the engineer's estimate must be paid before the Department will approve the service for connection.
- 1.4 For services where the installation and or removal costs are estimated to be \$75,000 payment of 20 percent of the total of the engineer's estimate will be required before the Department's service engineers and/or installation crews begin work. The full amount of the estimate must be paid before the Department will approve a service for connection.
- 1.5 For services where the installation and or removal costs are estimated to exceed \$75,000 and where multiple vaults are required, an advance payment of 20 percent of the estimate will be required before the Department's service design engineers and/or installation crews begin work. All fees (100 percent of the estimate) must be paid before each vault is energized. A final billing will be made after the job is completed to reflect actual time and material cost expended in installing the service.

## **2.0 Charges**

- 2.1 Standard service installation and or removal charges shall apply in looped radial areas. Standard charges for typical segments of work that might be included in the installation of various types of looped radial services are listed in Tables 2.1 and 2.2. The total charge for any given service installation and or removal will be comprised of the costs of all the work segments that apply to that service.
- 2.1.1 Costs to supply or install conduits, hardware, connections, and conductors are based on the size of the Department's conductors.
- 2.1.2 Engineering and meter costs are based on the ampacity of the customer's service equipment.

- 2.1.3 The Department shall pass through to the customer all costs associated with permits as required by municipal jurisdictions/agencies.
- 2.2 Standard charges do not apply to services from the Department's network systems. Charges for services from network systems will be based on estimates as outlined in §1.3, 1.4, and 1.5 of this schedule.
- 2.3 Additional Trip Charge. The Department shall charge for additional trips are required when a customer is not ready as scheduled or when a customer makes a specific request for an additional trip to complete service work.
- 2.4 Standby Service Charge. The Department shall provide standby service for the contractor while conduit entry is being made into and while conductors are being pulled into energized Department facilities.

One Journey-Level Cable Splicer or Lineworker

During normal work hours at \$106/hour including travel time.

During overtime work hours at \$126/hour including travel time.

- 2.5 Inspection/Review Charge. The Department shall provide inspection and review service for contractor-installed equipment and material between the customer's service connection point and the Department's distribution system to assure contractor compliance with Department specifications, standards, and requirements for service. All such inspections and/or reviews shall be charged to the customer.

One Journey-Level Cable Splicer or Lineworker

During normal work hours at \$106/hour including travel time.

During overtime work hours at \$126/hour including travel time.

One Field Engineering Associate Specialist

During normal work hours at \$98/hour including travel time.

During overtime work hours at \$117/hour including travel time.

**TABLE 2.1  
 OVERHEAD SERVICE**

**SINGLE-PHASE**

| Service Ampacity                           | Up to 125 Amps      | Up to 225 Amps       | Up to 400 Amps       | Up to 600 Amps       | Up to 800 Amps         | Up to 1000 Amps        |
|--|---------------------|----------------------|----------------------|----------------------|------------------------|------------------------|
| Install service drop <sup>1</sup>          | \$166               | \$166                | \$166                | \$665                | \$665                  | \$887                  |
| Hardware                                   |                     |                      |                      |                      |                        |                        |
| Cust. end                                  | \$11                | \$13                 | \$13                 | \$49                 | \$98                   | \$98                   |
| CL end                                     | \$11                | \$37                 | \$37                 | \$40                 | \$73                   | \$98                   |
| Special Connectors .....See Attached Sheet |                     |                      |                      |                      |                        |                        |
| Connections either or (both ends)          | \$249               | \$249                | \$331                | \$887                | \$1,108                | \$1,108                |
| Conductor cost per foot                    | \$0.91<br>#2 AL, TP | \$1.21<br>1/0 AL, TP | \$2.09<br>1/0 AL, TP | \$2.09<br>4/0 AL, TP | \$4.19<br>2-4/0 AL, TP | \$4.19<br>2-4/0 AL, TP |
| Engineering <sup>2</sup>                   | \$376               | \$376                | \$376                | \$376                | \$753                  | \$753                  |
| Service Assessment                         | \$360               | \$360                | \$360                |                      |                        |                        |
| Install Keybox                             |                     |                      |                      |                      |                        |                        |
| Supra                                      | \$90                | \$90                 | \$90                 | \$90                 | \$90                   | \$90                   |
| Knox                                       | \$482               | \$482                | \$482                | \$482                | \$482                  | \$482                  |
| Metering <sup>3</sup>                      | \$63                | \$63                 | \$600                | \$600                | \$600                  | \$600                  |

**THREE-PHASE**

| Service Ampacity                           | Up to 125 Amps      | Up to 225 Amps       | Up to 400 Amps       | Up to 600 Amps       | Up to 800 Amps          | Up to 1000 Amps         |
|--|---------------------|----------------------|----------------------|----------------------|-------------------------|-------------------------|
| Install service drop <sup>1</sup>          | \$166               | \$166                | \$166                | \$665                | \$887                   | \$1,108                 |
| Hardware                                   |                     |                      |                      |                      |                         |                         |
| Cust. end                                  | \$16                | \$16                 | \$16                 | \$94                 | \$117                   | \$170                   |
| CL end                                     | \$46                | \$46                 | \$46                 | \$73                 | \$134                   | \$187                   |
| Special Connectors .....See Attached Sheet |                     |                      |                      |                      |                         |                         |
| Connections either or (both ends)          | \$331               | \$331                | \$414                | \$1,108              | \$1,330                 | \$1,330                 |
| Conductor cost per foot                    | \$1.12<br>#2 AL, QP | \$2.20<br>1/0 AL, QP | \$2.20<br>1/0 AL, QP | \$5.11<br>4/0 AL, QP | \$10.22<br>2-4/0 AL, QP | \$10.22<br>2-4/0 AL, QP |
| Engineering <sup>2</sup>                   | \$376               | \$376                | \$376                | \$376                | \$753                   | \$753                   |
| Install Keybox                             |                     |                      |                      |                      |                         |                         |
| Supra                                      | \$90                | \$90                 | \$90                 | \$90                 | \$90                    | \$90                    |
| Knox                                       | \$482               | \$482                | \$482                | \$482                | \$482                   | \$482                   |
| Metering <sup>3</sup>                      | \$63                | \$63                 | \$727                | \$727                | \$829                   | \$829                   |

<sup>1</sup>For each additional pole strike or bridle, add \$166.

<sup>2</sup>Include only if service requires engineering.

<sup>3</sup>For multiple meters on one service, add \$84 for each meter after the first.

**TABLE 2.2  
 UNDERGROUND SERVICE  
 (LOOPED RADIAL)**

**SINGLE-PHASE**

| Service Ampacity                         | Up to 400 Amps<br>Res. or 225 Amps<br>Commercial | Up to 600 Amps<br>Res. or 400 Amps<br>Commercial | 600 Amps<br>Commercial      | 800 Amps                      | 1,000 Amps                     |
|--|--|--|-----------------------------|-------------------------------|--------------------------------|
| <b>Conduit on pole<sup>4</sup></b>       |  |  |                             |                               |                                |
| <b>Labor</b>                             | \$284  | \$284  | \$426                       | \$567                         | \$851                          |
| <b>Material</b>                          | \$73   | \$75   | \$88                        | \$108                         | \$134                          |
| <b>Hardware</b>                          |  |  |                             |                               |                                |
| <b>Svc. from pole</b>                    | \$29   | \$31   | \$47                        | \$211                         | \$210                          |
| <b>Svc. from vault<br/>    or H.H.</b>   | \$18   | \$22   | \$20                        | \$45                          | \$44                           |
| <b>Bracket with<br/>    Brace</b>        | \$25   | \$25   | \$25                        | \$25                          | \$25                           |
| <b>Special Connectors</b> .....          | See Table 2.7                                    |  |                             |                               |                                |
| <b>Install service<br/>conductors</b>    | \$851 (DB) <sup>5</sup><br>\$1,135 (conduit)     | \$1,135 (DB)<br>\$1,418 (conduit)                | \$1,560                     | \$2,270                       | \$2,553                        |
| <b>Connections<br/>(either end/both)</b> | \$567  | \$567  | \$567                       | \$851                         | \$1,135                        |
| <b>Conductor cost<br/>per foot</b>       | \$2.30<br>4/0 AL, TP                             | \$3.61<br>350 MCM<br>AL, TP                      | \$5.69<br>500 MCM<br>AL, TP | \$7.22<br>2-350 MCM<br>AL, TP | \$11.39<br>2-500 MCM<br>AL, TP |
| <b>Engineering</b>                       | \$376  | \$376  | \$376                       | \$753                         | \$753                          |
| <b>Install Keybox</b>                    |  |  |                             |                               |                                |
| <b>Supra</b>                             | \$90   | \$90   | \$90                        | \$90                          | \$90                           |
| <b>Knox</b>                              | \$482  | \$482  | \$482                       | \$482                         | \$482                          |
| <b>Metering<sup>6</sup></b>              | \$63<br>\$498 if over<br>225 amps                | \$600  | \$600                       | \$600                         | \$600                          |

<sup>4</sup>Not included if service originates in vault or handhole. For each additional pole strike or bridle, add \$166.

<sup>5</sup>Direct burial conductor (DB).

<sup>6</sup>For multiple meters on one service, add \$84 for each meter after the first.

**TABLE 2.2 (cont.)  
 UNDERGROUND SERVICE  
 (LOOPED RADIAL)**

**THREE-PHASE**

| Service Ampacity                         | Up to 400 Amps<br>Res. or 225 Amps<br>Commercial | Up to 600 Amps<br>Res. or 400 Amps<br>Commercial | 600 Amps<br>Commercial      | 800 Amps                       | 1,000 Amps                     |
|--|--|--|-----------------------------|--------------------------------|--------------------------------|
| <b>Conduit on pole<sup>7</sup></b>       |  |  |                             |                                |                                |
| Labor                                    | \$284  | \$284  | \$426                       | \$567                          | \$851                          |
| Material                                 | \$75   | \$81   | \$88                        | \$120                          | \$134                          |
| <b>Hardware</b>                          |  |  |                             |                                |                                |
| Svc. from pole                           | \$30   | \$42   | \$60                        | \$274                          | \$279                          |
| Svc. from vault<br>or H.H.               | \$24   | \$30   | \$29                        | \$61                           | \$57                           |
| Bracket with<br>Brace                    | \$25   | \$25   | \$25                        | \$25                           | \$25                           |
| <b>Special Connectors</b> .....          | See Table 2.7                                    |  |                             |                                |                                |
| <b>Install service<br/>conductors</b>    | \$1,135(DB) <sup>8</sup><br>\$1,418(conduit)     | \$1,418 (DB)                                     | \$1,560                     | \$2,270                        | \$2,553                        |
| <b>Connections<br/>(either end/both)</b> | \$709  | \$851  | \$851                       | \$1,135                        | \$1,418                        |
| <b>Conductor cost<br/>per foot</b>       | \$3.09<br>4/0 AL, QP                             | \$6.32<br>350 MCM<br>AL, QP                      | \$8.27<br>500 MCM<br>AL, QP | \$12.64<br>2-350 MCM<br>AL, QP | \$16.54<br>2-500 MCM<br>AL, QP |
| <b>Engineering</b>                       | \$376  | \$376  | \$376                       | \$753                          | \$753                          |
| <b>Install Keybox</b>                    |  |  |                             |                                |                                |
| Supra                                    | \$90   | \$90   | \$90                        | \$90                           | \$90                           |
| Knox                                     | \$482  | \$482  | \$482                       | \$482                          | \$482                          |
| <b>Metering<sup>9</sup></b>              | \$63<br>\$625 if over<br>225 amps                | \$829  | \$829                       | \$829                          | \$829                          |

<sup>7</sup>Not included if service originates in vault or handhole. For each additional pole strike or bridle, add \$166.

<sup>8</sup>Direct burial conductor (DB).

<sup>9</sup>For multiple meters on one service, add \$84 for each meter after the first.

**TABLE 2.3  
PERMIT CHARGES**

| <b>CITY/AGENCY</b>               | <b>TOTAL</b> |
|----------------------------------|--------------|
| <b>Burien-UG-Digging</b>         | <b>\$375</b> |
| <b>Burien-Surface-No digging</b> | <b>\$325</b> |
| <b>King County</b>               | <b>\$390</b> |
| <b>Lake Forest Park</b>          | <b>\$300</b> |
| <b>Normandy Park</b>             | <b>\$300</b> |
| <b>Renton</b>                    | <b>\$361</b> |
| <b>SeaTac</b>                    | <b>\$280</b> |
| <b>Seattle</b>                   | <b>\$396</b> |
| <b>Shoreline</b>                 | <b>\$390</b> |
| <b>Tukwila</b>                   | <b>\$0</b>   |
| <b>WSDOT</b>                     | <b>\$600</b> |

Updated 06-30-2010

**TABLE 2.4  
EASEMENT CHARGES**

|                                 |              |
|---------------------------------|--------------|
| <b>Recording Fee</b>            | <b>\$65</b>  |
| <b>Senior Real Estate Agent</b> | <b>\$106</b> |
| <b>Easement Total</b>           | <b>\$171</b> |

**TABLE 2.5  
 ADDITIONAL TRIP COSTS**

| SERVICE TYPE        | AMPS     | TOTAL |
|---------------------|----------|-------|
| <b>Single Phase</b> |          |       |
| Overhead            | < 400    | \$240 |
| Overhead            | 400      | \$345 |
| Overhead            | 600-1000 | \$445 |
| Underground         | < 400    | \$569 |
| Underground         | 400-1000 | \$569 |
| <b>Three Phase</b>  |          |       |
| Overhead            | < 400    | \$240 |
| Overhead            | 400      | \$345 |
| Overhead            | 600-1000 | \$445 |
| Underground         | < 400    | \$569 |
| Underground         | 400-1000 | \$569 |

**TABLE 2.6  
 REMOVAL COSTS**

| SERVICE TYPE        | AMPS     | TOTAL |
|---------------------|----------|-------|
| <b>Single Phase</b> |          |       |
| Overhead            | < 225    | \$240 |
| Overhead            | < 400    | \$345 |
| Overhead            | 600-1000 | \$445 |
| Underground         | < 600    | \$569 |
| Underground         | 800-1000 | \$854 |
| <b>Three Phase</b>  |          |       |
| Overhead            | < 225    | \$345 |
| Overhead            | < 400    | \$345 |
| Overhead            | 600-1000 | \$445 |
| Underground         | < 600    | \$569 |
| Underground         | 800-1000 | \$854 |

**TABLE 2.7  
 SPECIAL CONNECTORS**

| CONSTRUCTION STANDARD   | LABOR HOURS | LABOR   | MATERIAL | TOTAL   |
|---|-------------|---------|----------|---------|
| <b>1000Amps<br/>                     Sec UG Connectors</b>      |             |         |          |         |
| 4-3 pos   | 10          | \$1,118 | \$260    | \$1,378 |
| 4-4 pos   | 13          | \$1,453 | \$368    | \$1,821 |
| 4-6 pos   | 20          | \$2,235 | \$463    | \$2,698 |
| 4-8 pos   | 26          | \$2,906 | \$698    | \$3,604 |
| <b>2000Amps Homac<br/>                     Sec UG Connector</b> |             |         |          |         |
| 4-4 pos   | 16          | \$1,788 | \$908    | \$2,697 |
| 4-6 pos   | 24          | \$2,682 | \$1,262  | \$3,945 |

|         |    |         |         |         |
|---------|----|---------|---------|---------|
| 4-8 pos | 32 | \$3,576 | \$1,648 | \$5,224 |
|---------|----|---------|---------|---------|

**TABLE 2.8  
 CHARGES FOR METER ENHANCEMENTS REQUESTED BY CUSTOMER**

|                                      |       |
|--------------------------------------|-------|
| <b>Load Profile Capability</b>       |       |
| First meter                          | \$242 |
| Each additional meter                | \$145 |
| Additional trip for existing service | \$322 |

**EXISTING SERVICE**

|                                      |  |  |  |   |
|--------------------------------------|--|--|--|---|
| <b>First kWh Pulse</b>               | <b>Additional kvar Pulse</b>                             | <b>Both Pulses<sup>1</sup></b>                           | <b>Totalized</b>                       |   |
| \$778                                | \$366  | \$1,144  | \$1,716                                |   |
| <b>Each Additional Meter</b>         | <b>1<sup>st</sup>-4<sup>th</sup> Totalizer Equipment</b> | <b>4<sup>th</sup>-8<sup>th</sup> Totalizer Equipment</b> | <b>Each Additional Meter Totalized</b> | <b>Each Additional Totalizing Labor</b> |
| \$246                                | \$572  | \$748  | \$297                                  | \$51                                    |
| Additional trip for existing service |  | \$322  |  |   |

**NEW SERVICE**

|                              |  |  |  |   |
|------------------------------|--|--|--|---|
| <b>First kWh Pulse</b>       | <b>Additional kvar Pulse</b>                             | <b>Both Pulses<sup>1</sup></b>                           | <b>Totalized</b>                       |   |
| \$518                        | \$416  | \$1,090  | \$1,662                                |   |
| <b>Each Additional Meter</b> | <b>1<sup>st</sup>-4<sup>th</sup> Totalizer Equipment</b> | <b>4<sup>th</sup>-8<sup>th</sup> Totalizer Equipment</b> | <b>Each Additional Meter Totalized</b> | <b>Each Additional Totalizing Labor</b> |
| \$246                        | \$572  | \$748  | \$297                                  | \$51                                    |

<sup>1</sup>If kWh pulses from meters within 200 feet need to be totalized, add \$460 for 2-4 meters and \$50 for 5-8 meters. If kvar needed, double the above costs.

**TABLE 2.9  
 CHARGES FOR SPACE CHECKS**

A charge will be assessed when customers request a change in address from existing. This charge also includes new construction projects each time the address changes from the original submittal.

|                            |              |
|----------------------------|--------------|
| <b>1-4 units</b>           | <b>\$97</b>  |
| <b>5-8 units</b>           | <b>\$199</b> |
| <b>9-20 units</b>          | <b>\$555</b> |
| <b>21-50 units</b>         | <b>\$860</b> |
| <b>Additional 10 units</b> | <b>\$204</b> |

### 3.0 Appendix

Distribution: Posted online at <http://sclweb.light.ci.seattle.wa.us/dpp/>

### 4.0 Revision History

| Version | Date     | Changes Made                                | Update Coordinated By |
|---------|----------|---|-----------------------|
|         |          |   |                       |
| 2.0     | 12-1-11  | Revised to update labor and material costs. | Jackie Kirn           |
| 1.0     | 10-18-10 | Revised to update text and charges.         | Jackie Kirn           |