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CITY CLERK

**City of Seattle
Seattle City Light Department**

DEPARTMENT POLICY & PROCEDURE

Subject

Number

DPP 500 P III-422, Schedule 100

**FINAL CONNECTION COSTS FOR
PERMANENT OR ENLARGED SERVICES
INSTALLED BY CONTRACTORS**

Effective

Supersedes

January 7, 2014


Approved by Jorge Carrasco

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- 1.0** Payment for final connection costs incurred by the Department in energizing permanent or enlarged services installed by contractors employed by customers.
- 1.1** Payment of all component-cost charges for permanent or enlarged service installations, as established in §2.0, shall be required before the Department will energize services. Charges for standby service, inspection/review, providing 5-kV, 15-kV or 28-kV primary cable, and reactive metering shall be assessed for costs incurred by the Department, if applicable, in addition to the component-cost charge.
- 1.2** Where work is required in addition to work covered by component-cost charges, payment shall be required in the following manner:
- 1.2.1** Where additional work is estimated to cost \$35,000 or less (Looped Radial), \$75,000 (Network) or less, a 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. All fees (100 percent of the engineer's estimate) must be paid before the Department approves the service
- 1.2.2** Where additional work is estimated to cost in excess of \$35,000 (Looped Radial), \$75,000 (Network), 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 engineer's estimate) must be paid before service is approved for connection. A final billing shall be made after the job is completed, to reflect actual time and material costs expended in energizing the service, unless a prior agreement has been reached to assess on a firm bid price.

- 1.3 For services not subject to a component-cost charge schedule, where the energization costs are estimated to be \$35,000 or less (Looped Radial), \$75,000 or less (Network), payment of the full amount of the engineer's estimated charges shall be required before the Department approves the service for connection.
- 1.4 For services not subject to a component-cost charge schedule, where the energization costs are estimated to exceed \$35,000 (Looped Radial), \$75,000 (Network), 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 engineer's estimate and standard installation) must be paid before service is approved for connection. A final billing shall be made after the job is completed, to reflect actual time and material costs expended in energizing the service, unless a prior agreement has been reached to assess on a firm bid price.

2.0 Charges

- 2.1 Component-Cost Charges. The costs of making final connections to the Department distribution system that energizes customers' secondary services. These charges are comprised of the costs of the work segments which apply to a particular service and include administrative expenses and taxes.
 - 2.1.1 New or Enlarged Overhead Services (see Table 2.1.1)
 - 2.1.2 New or Enlarged Underground Services (Looped Radial) (see Table 2.1.2)
 - 2.1.3 Network Area New or Enlarged Services (see Table 2.1.3)

**TABLE 2.1.1
NEW OR ENLARGED OVERHEAD SERVICES**

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
Hardware						
Cust. end	\$10	\$10	\$12	\$47	\$93	\$93
CL end	\$10	\$32	\$34	\$37	\$68	\$93
Final Connection	\$132	\$286	\$381	\$1,014	\$1,267	\$1,267
Engineering¹	\$874	\$874	\$874	\$874	\$874	\$874
Service Assessment	\$486	\$486	\$486	\$486	\$486	\$486
Metering						
Live service over 300V	\$289	\$289	\$1,192	\$1,192	\$1,192	\$1,192
All other services	\$170	\$170	\$780	\$780	\$780	\$780
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
Hardware						
Cust. end	\$12	\$12	\$14	\$104	\$112	\$188
CL end	\$42	\$42	\$43	\$82	\$131	\$208
Final Connection	\$198	\$286	\$381	\$1,267	\$1,520	\$1,520
Engineering	\$874	\$874	\$874	\$874	\$874	\$874
Metering						
Live service over 300V	\$319	\$319	\$1,192	\$1,192	\$1,192	\$1,192
All other services	\$194	\$194	\$958	\$958	\$958	\$958

¹ Include only if service requires engineering.

**TABLE 2.1.2
NEW OR ENLARGED UNDERGROUND SERVICES
(LOOPED RADIAL)**

SINGLE-PHASE					
Service Ampacity	Up to 400 Amps Res. or 225 Amps Commercial	Up to 600 Amps Res. or 400 Amps Commercial	600 Amps Commercial	800 Amps	1000 Amps
Hardware					
Svc. From Pole	\$28	\$30	\$45	\$223	\$212
Svc. From vault or H.H.	\$21	\$22	\$19	\$44	\$39
Bracket with Brace	\$28	\$28	\$28	\$28	\$28
Final Connection	\$648	\$648	\$648	\$972	\$1,296
Engineering	\$1,202	\$1,202	\$1,202	\$1,202	\$1,202
Metering					
Live service over 300V	\$289	\$1,192	\$1,192	\$1,192	\$1,192
All other services	\$170	\$780	\$780	\$780	\$780
Service Assessment	\$486	\$486	\$486	\$486	\$486
THREE-PHASE					
Service Ampacity	Up to 400 Amps Res. or 225 Amps Commercial	Up to 600 Amps Res. or 400 Amps Commercial	600 Amps Commercial	800 Amps	1000 Amps
Hardware					
Svc. From Pole	\$33	\$40	\$57	\$282	\$281
Svc. From vault or H.H.	\$29	\$29	\$25	\$59	\$50
Bracket with Brace	\$28	\$28	\$28	\$28	\$28
Final Connection	\$810	\$972	\$972	\$1,296	\$1,620
Engineering	\$1,202	\$1,202	\$1,202	\$1,202	\$1,202
Metering					
Live service over 300V	\$319	\$1,192	\$1,192	\$1,192	\$1,192
All other services	\$194	\$958	\$958	\$958	\$958

**TABLE 2.1.3
NETWORK AREA NEW OR ENLARGED SERVICES**

Service Ampacity	Single-Phase to 150 Amps	Three-Phase to 225 Amps	Three-Phase to 400 Amps	Three-Phase to 600 Amps	Three-Phase to 800 Amps
Connection at Vault or HH	\$2,687	\$3,124	\$3,403	\$6,216	\$5,563
Connection at Alley Can, Terminal Box or WH	\$2,023	\$2,032	\$2,321	\$4,242	\$3,747
Metering					
Live service over 300V	\$289	\$319	\$1,192	\$1,192	\$1,192
All other services	\$170	\$194	\$958	\$958	\$958

- 2.2 Standby Service Charge. The Department shall provide standby service for the contractor whenever the contractor must perform work in energized Department facilities.

Hourly rate	Normal	Overtime
One Journey-level Cable Splicer	\$121	\$140
One Journey-level Lineworker	\$130	\$150
One Field Engineering Associate Specialist	\$114	\$132

- 2.3 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 charges to the customer.

Hourly rate	Normal	Overtime
One Journey-level Cable Splicer	\$121	\$140
One Journey-level Lineworker	\$130	\$150
One Field Engineering Associate Specialist	\$114	\$132

- 2.4 Construction Permit and Inspection Fee. When the customer's contractor obtains a permit to perform public right-of-way construction work, the contractor shall be responsible for the cost of the construction permit, inspection fee, and administrative costs assessed by the permit-issuing authority; and any bonding requirements of the Department and the permit-issuing authority. Department inspection and review charges, if applicable, will be assessed in addition to those charged by other inspecting authorities.

- 2.5 Reactive Metering Charge. If any new or enlarged three-phase secondary service contains an inductive load that will cause unsatisfactory conditions on the Department's system, the Department may install a reactive kVA-hour meter. In such cases, a charge of \$161 for Department installation of kvar-hour metering shall be levied, in addition to the component-cost charge applicable in §2.1.

- 2.6 Primary Cable Charge. When the Department has determined that the 5-kV, 15-kV or 28-kV cable as specified by the Department is unobtainable by the customer's contractor and will be provided by the Department, the loaded cost of such cable provided will be included in the final connection costs billed to the customer.

- 2.7 Amp Fee Installation Charge. The Department shall charge all new or enlarged service installations a fee per panel amp, which must be paid before the Department will energize service. All customers receive a 120/240 volt 200 Amp credit. The fee is calculated by subtracting 200 Amps from the property's total service entrance capacity to be installed (given in amps and 120/240 volt ratio basis) and then multiplying this value by the per amp charge as shown below in Table 2.2 for the respective voltage. This charge replaces the letter of credit/cash deposit as described in DPP 500 P III-426, which has been rescinded as of January 26, 2015.

TABLE 2.2
AMP CAPACITY INSTALLATION CHARGE

Voltage	\$/Amp	Amp Credit
120/240 Single Phase	3.74	200
120/208 Single Phase	3.24	231
240/480 Single Phase	7.48	100
277/480 Single Phase	7.48	100
208/120 Three Phase	5.24	133
240/120 Three Phase (Open Delta)	6.04	115
480/240 Three Phase (Open Delta)	12.09	58
480/277 Three Phase	12.09	58
4,160/2,400 Three Phase	104.78	7
13.8k/7,970 Three Phase	347.58	2
26k/15,242 Three Phase	654.86	1

The following calculation examples show how the Amp Fee Installation Charge is to be used to calculate the total charge for services of various amp and voltage sizes:

- 1) If a new service is to have a 200A service at 120/240V single phase
 - Amps = 200
 - Amp Credit = 200
 - \$/Amp = 3.74
 - Fee = $3.74 \times (200 - 200) = \0
- 2) If a new building is to have two 3000A and 400A services at 208/120V three phase.
 - Amps = 6400
 - Amp credit = 133
 - \$/Amp = 5.24
 - Fee = $5.24 \times (6400 - 133) = \$32,839.08$
- 3) If an existing service is rewired from 4000A to 5000A at 480/277V three phase.
The requested amps: $5000 - 4000 = 1000A$
 - Amps = 1000
 - Amp credit = 58
 - \$/Amp = 12.09
 - Fee = $12.09 \times (1000 - 58) = \$11,388.78$
- 4) If an existing service is rewired with no increase service size, i.e. 600A to 600A there is no amp fee charged to the customers.

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.

3.0 Appendix

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

4.0 Revision History

Version	Date	Changes Made	Revised By
4.0	12-24 -14	Revised to update: <ul style="list-style-type: none">• Labor costs• Material costs• New Amp Fee Installation Charge	Austin Coover and Lynda Spates
3.0	06-21-13	Revised to update text and charges	Austin Coover
2.0	12-1-11	Revised to update text and charges.	Jackie Kim and Robert Bartley
1.0	10-18-10	Revised to update text and charges.	Margy Jones and Robert Bartley