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City of Seattle
Seattle City Light Department

DEPARTMENT POLICY & PROCEDURE

Subject

Number

DPP 500 P III-422, Schedule 101

**FINAL CONNECTION COSTS FOR
TEMPORARY SERVICES FOR CONSTRUCTION
INSTALLED BY CONTRACTORS**

Effective

Supersedes

January 7, 2014


Approved by Jorge Carrasco

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- 1.0 Payment for final connection, disconnection, and removal costs incurred by the Department in energizing and de-energizing temporary services installed by contractors employed by customers.
 - 1.1 Basic charges for final connection costs for temporary services for construction shall apply to temporary secondary services installed by contractors to pole boxes or service entrance equipment. Charges for inspection/review, standby service, and reactive metering shall be assessed for costs incurred by the Department, if applicable, in addition to the basic charge.
 - 1.2 The customer's responsibilities shall include:
 - 1.2.1 Providing and installing the pole box or other temporary service entrance equipment.
 - 1.2.2 Furnishing and installing a pole, post, or other satisfactory structure for attaching the temporary service for construction purposes, in accordance with the section on Temporary Service in the "Requirements for Electric Service Connection" manual adopted, January 26, 2007 and as the same may be amended or superseded.
 - 1.2.3 Providing and installing temporary service conductors from the pole box or other temporary service entrance equipment to the utility-designated final connection point of the distribution system. Connection shall be made by the contractor at the pole box or service entrance equipment, but not to the distribution system.
 - 1.2.4 Providing for the installation of a meter. For services rated over 225 amperes, providing for the installation of current transformers.
 - 1.2.5 Removal of temporary service equipment after the Department has disconnected service from the distribution system.

- 1.2.6 Obtaining the electrical permit for sites for both inside and outside the City limits.
- 1.2.7 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 standby service, inspection, and review charges, if applicable, will be assessed in addition to those charged by other inspecting authorities.
- 1.3 The Department shall make the final connection to the distribution system energizing the customer's temporary service, and shall also disconnect from the distribution system de-energizing the customer's temporary service.
- 1.4 Charges for additional labor, such as installing or increasing the size of a transformer, extending the secondary circuit, or other line work done solely for temporary service requirements (and the removal of such material and equipment), shall be determined by estimates of time and non-salvageable material required. The determination of additional charges shall be made by Customer Engineering.
- 1.5 Temporary service shall not be energized by the Department until inspection approval by the proper authority has been obtained by the customer.
- 1.6 Payment for temporary service final connection, disconnection, and removal costs.
 - 1.6.1 Full payment of all temporary service connection charges, as indicated by basic charges established in §2.10, shall be required before service is energized.
 - 1.6.2 Full payment of temporary service final connection charges, based on an estimate of \$35,000.00 or less, will be required before service is approved for connection.
 - 1.6.3 Payment of the entire estimated cost of the temporary service final connection for those jobs estimated to exceed \$35,000.00, 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 service can be approved for connection. Final billing shall be rendered after the job is completed, to reflect actual time and material costs expended in energizing the service, unless prior agreement has been reached to assess on a firm bid price.
- 1.7 Temporary services shall be energized as soon as reasonably possible after notification by the customer. Installations that require additional work indicated in §1.4 above may take 30 days or longer from the date of notification to date of connection.
- 1.8 Temporary services shall be removed by the Electrical Service Representative and Electrical Service Engineer not later than one year from the date of installation. Extension may be granted with approval from the inspecting agency and the Department.

- 1.9 Temporary service final connection charges shall be billed, in addition to any permanent or enlarged electric service final connection charge assessed.
- 1.10 Final connection and disconnection charges for each temporary service for residential construction shall include the basic connection cost of §2.1 plus the energy charge for energy usage. All energy used shall be billed according to Rate Schedules Small General Service – City, – Suburban, or – Tukwila.
- 1.11 Electrical usage for temporary service for nonresidential construction shall be billed on a regular billing cycle according to Rate Schedules Small General Service – City, – Suburban, or – Tukwila; Medium General Service – City, – Network, – Suburban, or – Tukwila. All charge components of the rate schedule will be observed.

2.0 Charges

2.1 Basic Charges. The costs of making final connections and disconnections to the Department distribution system that energize and de-energize customers' temporary secondary services. These charges are based on typical labor-hours and materials used for the various sizes and types of temporary secondary services connected and disconnected, and include engineering, current transformer secondary circuit metering connections, and/or meter installation, administrative expenses, and taxes.

2.1.1 Service entrance equipment in non-network areas:

Single-Phase up to 225 Amps	\$408
Three-Phase up to 225 Amps	\$662
Single-Phase 225 < x ≤ 600 Amps	\$1,744
Three-Phase 225 < x ≤ 600 Amps	\$2,224

2.1.2 Service entrance equipment in network areas:

Service Amapcity	Single-Phase up to 150 Amps	Three-Phase up to 225 Amps	Three-Phase up to 400 Amps	Three-Phase up to 600 Amps
Connection at Vault or HH	\$3,788	\$4,352	\$5,432	\$9,166
Connection at Alley Can, Terminal Box or WH	\$2,649	\$2,975	\$4,365	\$7,351

2.2 Inspection/Review Charge. The Department shall provide inspection and review service for contractor-installed temporary service 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 temporary service. All such inspections and/or reviews shall be charged 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

2.3 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.

2.4 Energy Charge. Final connection and disconnection charges for residential temporary services shall include, in addition to the basic charge of Section 2.1, the cost of energy usage.

All non-residential energy shall be billed according to the energy charge component of the applicable Small General Service rate schedules.

2.5 Reactive Metering Charge. If any temporary, 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 \$313 for Department installation of kvar-hour metering shall be levied, in addition to the basic charge applicable in §2.1.

2.6 Standby Service Charge. The Department shall provide standby service for the contractor whenever the contractor must perform any work in energized Department facilities, when approved to do so. The Department, in most cases, will perform this portion of the service work.

Hourly rate	Normal	Overtime
One Journey-level Cable Splicer	\$121	\$140
One Journey-level Lineworker	\$130	\$150

2.7 Primary Cable Charge. When the Department has determined that the 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.

2.8 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 char will be assessed when customers request a change in address from existing. This charge a 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 charges.	Jackie Kirn and Robert Bartley
1.0	10-18-10	Revised to update text and charges.	Margy Jones and Robert Bartley