City of Seattle
Seattle City Light Department

DEPARTMENT POLICY & PROCEDURE

Subject	Number
	DPP 500 P III-417, Schedule 100
	Effective
INSTALLATION AND REMOVAL CHARGES FOR PERMANENT SERVICES	
	Supersedes
Approved by Jorge Carrasco	January 7, 2014

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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.

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

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.

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

2.6 Space Checks. The Department requires space checks to verify socket to unit panel wiring for new multi-unit construction. Charges for initial space checks are included in the various fee tables found in this document.

Space checks are also required for rewired multi-unit buildings and may be required following address changes for multi-unit buildings. Charges for space checks as described in this paragraph after the initial service connection are noted in Table 2.9.

Upon request of the building owner or unit tenant, for a fee, a space check may be performed to verify socket to unit panel wiring. If errors are found with the wiring or socket labeling, the building owner will be charged the standard fee for the space check. The costs associated with correcting abnormalities stemming from meter documentation errors on the part the Department will be borne by the Department. If no errors are found, the fee shall be the responsibility of the requesting party. Charges for space checks as described in this paragraph after the initial service connection are noted in Table 2.9.

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 2.10 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 2.1
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	$132	$190	$190	$760	$1,014	$1,104
Hardware						
Customer end	$10	$10	$12	$47	$93	$93
City Light end	$10	$32	$34	$37	$68	$93
Special Connectors	See Table 2.7					
Connection either/both ends	$132	$286	$381	$1,014	$1,267	$1,267
Conductor cost (foot)	$0.71	$0.94	$1.64	$1.64	$3.27	$3.27
Type	#2 AL, TP	1/0 AL, TP	4/0 AL, TP	4/0 AL, TP	2-4/0 AL, TP	2-4/0 AL, TP
Engineering[1]	$874	$874	$874	$874	$874	$874
Service Assessment	$486	$486	$486			
Install Keybox: Knox	$653	$653	$653	$653	$653	$653
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
Install Service Drop	$132	$190	$190	$760	$1,014	$1,267
Hardware						
Customer end	$12	$12	$14	$104	$112	$188
City Light end	$42	$42	$43	$82	$131	$208
Special Connectors	See Table 2.7					
Connection either/both ends	$198	$286	$381	$1,267	$1,520	$1,520
Conductor cost (foot)	$1.07	$1.77	$2.72	$2.72	$5.44	$5.44
Type	#2 AL, QP	1/0 AL, QP	4/0 AL, QP	4/0 AL, QP	2-4/0 AL, QP	2-4/0 AL, QP
Engineering[1]	$874	$874	$874	$874	$874	$874
Service Assessment	$486	$486	$486	$486	$486	$486
Install Keybox: Knox	$653	$653	$653	$653	$653	$653
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 2.2
UNDERGROUND SERVICE
(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
Conduit on pole[1]					
Labor	$324	$324	$486	$648	$972
Material	$73	$79	$93	$116	$144
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
Special Connectors	See Table 2.7				
Install service conductors	$1,296	$1,620	$1,782	$2,591	$2,915
Connection either/both ends	$648	$648	$648	$972	$1,296
Conductor cost per foot	$2.37	$3.70	$6.27	$7.40	$12.54
Type	4/0 AL, TP	350 KCMIL AL, TP	500 KCMIL AL, TP	2-350 KCMIL AL, TP	2-500 KCMIL AL, TP
Engineering[2]	$1,202	$1,202	$1,202	$1,202	$1,202
Install Keybox: Knox	$653	$653	$653	$653	$653
Metering					
Live service over 300V	$289	$1,192	$1,192	$1,192	$1,192
All other service	$170	$780	$780	$780	$780
THREE-PHASE					
Conduit on pole[1]					
Labor	$324	$324	$486	$648	$972
Material	$79	$88	$93	$134	$144
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
Special Connectors	See Table 2.7				
Install service conductors	$1,296	$1,620	$1,782	$2,591	$2,915
Connection either/both ends	$810	$972	$972	$1,296	$1,620
Conductor cost per foot	$4.26	$6.18	$8.34	$12.35	$16.68
Type	4/0 AL, QP	350 KCMIL AL, QP	500 KCMIL AL, QP	2-350 KCMIL AL, QP	2-500 KCMIL AL, QP
Engineering[2]	$1,202	$1,202	$1,202	$1,202	$1,202
Install Keybox: Knox	$653	$653	$653	$653	$653
Metering					
Live service over 300V	$319	$1,192	$1,192	$1,192	$1,192
All other service	$194	$958	$958	$958	$958

[1] Not included if service originates at vault or handhole.

[2] Include only if service requires engineering.

TABLE 2.3
PERMIT CHARGES

CITY/AGENCY	Charge
Burien	$350
King County	$138
Lake Forest Park	$200
Normandy Park	$150
Renton	$35
SeaTac	$310
Seattle	$315
Shoreline	$198
WSDOT	$363
Tukwila	$0

TABLE 2.4
EASEMENT CHARGES

Recording Fee	$65
Senior Real Estate Agent	$349

TABLE 2.5
ADDITIONAL TRIP COSTS

	Service	Amps	Total
Single Phase	Overhead	<400	$264
		400 to <600	$381
		≥600	$507
	Underground	Any	$648
Three Phase	Overhead	<225	$264
		225-400	$381
		>600	$507
	Underground	≤600	$648

TABLE 2.6
REMOVAL COSTS

	Service	Amps	Total
Single Phase	Overhead	<400	$264
		400 to <600	$381
		≥600	$507
	Underground	Any	$972
Three Phase	Overhead	<225	$264
		225-400	$381
		>600	$507
	Underground	≤600	$648
		>600	$972

TABLE 2.7
SPECIAL CONNECTORS

CONSTRUCTION STANDARD		LABOR HOURS	LABOR	MATERIAL	TOTAL
1000 Amps Sec UG Connectors	4-3 pos	10	$1,299	$238	$1,537
	4-4 pos	13	$1,689	$332	$2,021
	4-6 pos	20	$2,599	$458	$3,057
	4-8 pos	26	$3,378	$619	$3,997
2000 Amps Homac Sec UG Connectors	4-4 pos	16	$2,079	$829	$2,908
	4-6 pos	24	$3,118	$1,236	$4,354
	4-8 pos	32	$4,158	$1,516	$5,674

TABLE 2.8
CHARGES FOR METER ENHANCEMENTS REQUESTED BY CUSTOMER

Additional trip charge for existing service	
Charge only applied one time per premises.	$261

Add KYZ Pulse		
	All other services	Live service over 300V
Pulse added to one meter	$604	$847
Each additional meter	$511	$693
Add load profile to existing meter		
	All other services	Live service over 300V
First Meter	$425	$668
Each additional meter	$332	$454

Add modem to existing meter with load profile		
	All other services	Live service over 300V
First Meter	$790	$1,027
Each additional meter	$671	$790

Add Virtual Totalizer	
Set up new virtual totalizer with 2 meters totalized	$237
Each additional modem meter added to a new or existing totalizer	$59

TABLE 2.9
CHARGES FOR SPACE CHECKS

1-4 Meters to check	$253
5-8 Meters to check	$333
9-20 Meters to check	$710
21-50 Meters to check	$1,120
Each additional meter to check after 50	$19

TABLE 2.10
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*(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*(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*(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: • Labor costs • Material costs • New Amp Fee Installation Charge	Austin Coover and Lynda Spates
3.0	06-21-13	Revised to update text, labor and material costs.	Austin Coover
2.0	12-1-11	Revised to update labor and material costs.	Jackie Kirn and Robert Bartley
1.0	10-18-10	Revised to update text and charges.	Margy Jones and Robert Bartley