

# Cover Sheet

## Seattle City Light Electric Service Application Package

**This package includes:**

1. Application for Electric Service, including Instructions
2. Customer Guides
3. Completeness Guideline All Services
4. SCL Service Approval Checklist
5. Motor Load Detail Worksheet, if required

**Please submit completed materials to:**

Seattle City Light  
1300 N. 97<sup>th</sup> St., Attention: Intake Desk  
Seattle, WA 98103-3320

Questions?  
206-233-APPS  
(206-233-2777)  
Email: [SCLserviceapplications@seattle.gov](mailto:SCLserviceapplications@seattle.gov)

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# 01.11 Application For Electric Service

Seattle City Light



For SCL Use Only:	<input type="checkbox"/>
Service Request # _____	SVC Level <input type="checkbox"/>

## Project Information

Check for building & working clearances required from power lines. [www.seattle.gov/dclu/Publications/cam/cam122.pdf](http://www.seattle.gov/dclu/Publications/cam/cam122.pdf)

<b>Service Address</b> _____	
<b>Project Name</b> _____	<b>DPD Project #</b> _____
<b>Construction Type</b>	<b># of Lots</b> _____
<input type="checkbox"/> Single <input type="checkbox"/> Duplex <input type="checkbox"/> Triplex <input type="checkbox"/> Accessory Dwelling Unit	<input type="checkbox"/> Apartments <input type="checkbox"/> Condominium <input type="checkbox"/> Townhouses <input type="checkbox"/> Mixed <input type="checkbox"/> Commercial/Industrial
<input type="checkbox"/> Multi-lot <input type="checkbox"/> Unit Lot Subdivision <input type="checkbox"/> Building Infrastructure	<b># of Buildings</b> _____
	<b># of Units</b> _____

## Service Details

Plans may not be required for residential single phase overhead services of 400amps or less.

<input type="checkbox"/> Demolition	Date Service Removal Required _____	Existing Service Size: Amps _____ Volts _____
<b>Permanent Service</b>		<b>Temporary Service</b>
<input type="checkbox"/> Overhead <input type="checkbox"/> Underground	Date Required _____	<input type="checkbox"/> Overhead <input type="checkbox"/> Underground      Date Required _____
Service Size: Amps _____ Volts _____		Service Size: Amps _____ Volts _____
<b>Structure</b>		
<input type="checkbox"/> New Building	<input type="checkbox"/> Alteration to Existing	Explain: _____

## Electrical Load Details

Heating Type       Electric       Gas       Other       Street Lights Required

If electric:	# Units	Load	*Largest motor _____ hp	<b>**Interconnection</b> System Generation _____ kW <input type="checkbox"/> Solar <input type="checkbox"/> Bio-gas <input type="checkbox"/> Wind <input type="checkbox"/> Fuel Cell <input type="checkbox"/> CHP Voltage _____ Production Meterbase <input type="checkbox"/> Yes <input type="checkbox"/> No Total Single Phase _____ kW Total Three Phase _____ kW <b>Total connected load _____ kW</b>
Heat (wall)	_____	_____ kW	*Starts/8 hours _____	
Furnace	_____	_____ kW	*Locked Rotor Amps _____ Amps	
Baseboard heat	_____	_____ kW	*Connected motor load _____ kW	
Dryer	_____	_____ kW	Other _____ kW	
Water tank	_____	_____ kW		
Range	_____	_____ kW	<b>Electric Car Charging Stations</b>	
Hot tub/sauna	_____	_____ kW	120-240v Single phase _____ Amps	
Heat pump	_____	_____ kW	120-208v Three phase _____ Amps	
Air conditioner	_____	_____ hp	277-408v Three phase _____ Amps	
<b>Total Number of Car Charging Station</b>				
*Please refer to Requirements for Electrical Service Connection (RESC), Chapter 12, Motors and Special Loads to determine if a Motor Load Detail Worksheet is required. For information go to: <a href="http://www.seattle.gov/light/contractors/RESC">www.seattle.gov/light/contractors/RESC</a>			**A separate Interconnection application and agreement will be required. For information go to: <a href="http://www.seattle.gov/light/Conserve/cgen/">www.seattle.gov/light/Conserve/cgen/</a>	

I agree that the information on this application is correct to the best of my knowledge. I understand that any changes made to the above information or attached documents may increase the time and costs required for Seattle City Light (SCL) to provide service to the project. Applications that are incomplete after 60 days may be discarded.

\_\_\_\_\_  
 Authorized Representative      Signed      Date

Mail to: Seattle City Light, Attention: Intake Desk, 1300 N 97<sup>th</sup> St, Seattle, WA 98103-3320

For questions call or e-mail the SCL Application Intake Desk at: 206-233-APPS (206-233-2777) [SCLserviceapplications@seattle.gov](mailto:SCLserviceapplications@seattle.gov)

# 01.11 Application For Electric Service



## CONTACT INFORMATION

### Project name

New service address

### Owner

Contact person

Office phone

Cell phone

Fax number

Email

Address

City

State

Zip

Bill for construction charges

Bill for energy

**Primary contact for changes/decisions on this project?**

### General Contractor / Developer

Contact person

Office phone

Cell phone

Fax number

Email

Address

City

State

Zip

Bill for construction charges

Bill for energy

### Electrical Contractor

Contact person

Office phone

Cell phone

Fax number

Email

Address

City

State

Zip

Bill for construction charges

Bill for energy

### Architect

Contact person

Office phone

Cell phone

Email

### Engineer

Contact person

Office phone

Cell phone

Email

### Project Supervisor / Onsite Coordinator

Contact person

Office phone

Cell phone

Email

Mail to: Seattle City Light, Attention: Intake Desk, 1300 N 97<sup>th</sup> St, Seattle, WA 98103-3320

For questions call or e-mail the SCL Application Intake Desk at: 206-233-APPS (206-233-2777) / [SCLserviceapplications@seattle.gov](mailto:SCLserviceapplications@seattle.gov)

# 01.11 Application For Electric Service



## **Instructions**

This instruction sheet contains the guidelines to complete an Application for Electric Service. It is designed to aid in understanding and completing the application box by box. Submit the completed Application for Electric Service, Completeness Guideline All Services, and any other submittals in PDF format to Seattle City Light's (SCL) Intake Desk. An advisory letter will be sent after SCL receives the completed application package.

If you have any questions regarding the application, please call: 206 233-APPS (206 233-2777)  
**Mail to:** Seattle City Light, Attention: Intake Desk, 1300 N. 97<sup>th</sup> St., Seattle, WA 98103-3320

## **Project Information**

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### **Service Address**

Address assigned to the site being developed

### **Project Name**

The name used for the site being developed

### **DPD Project Number**

Provide the Project number if the Department of Planning and Development (DPD) has assigned one

### **Construction Type**

If constructing a duplex, triplex or (detached) accessory dwelling unit, a riser diagram/one-line showing the service rating for each unit must be provided

Check the box that corresponds to the appropriate type of dwelling as described below:

- Accessory Dwelling Unit (ADU): A room or set of rooms, in a single family home designed or configured to be used as a separate dwelling unit. A Detached Accessory Unit (DADU) is room(s), designed to be used as a separate dwelling unit, located in a separate structure that share a lot with a single family home.
- Apartment: One structure with one address and/or multiple unit numbers
- Building Infrastructure: Consists of building the infrastructure, with no homes being built
- Commercial/ Industrial: One structure with one address that is not a residence
- Condominium: One structure with multiple addresses and possibly multiple unit numbers
- Duplex: One structure with two addresses
- Mixed-Use: One structure with multiple addresses and residential and commercial units
- Mobile Home or Houseboat: Unique structures with special requirements (see Requirements for Electrical Service Connection (RESC))
- Multi-Lot: Multiple structures with multiple addresses on multiple lots
- Single Family: One structure with one address
- Townhome: Multiple structures, with multiple addresses, on one site
- Triplex: One structure with three addresses
- Unit Lot Subdivision: Multiple structures with multiple addresses on one lot

### **Number of Lots**

As applicable, please indicate the number of lots developed on a multi-lot project

### **Number of Buildings**

As applicable, please indicate the number of buildings contained in the development

# 01.11 Application For Electric Service



## Number of Units

As applicable, please indicate the number of units contained in the building

## Service Details

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### Demolition

Check this box if an existing structure will be demolished

### Date Service Removal Required

Indicate the preferred date for disconnect

### Existing Service Size

Indicate the ampacity and voltage of the existing service to be disconnected

### Permanent Service and Temporary Service

Indicate which service type, overhead or underground, is requested

### Date Required

Indicate the preferred date for the permanent service to be energized. If an exact date is not known, use an approximate date

### Service Size

The nameplate amperes rating of the main service disconnect, main service bus, or main busing in the service entrance panel. This is the total expected service size of the loads to be connected

### Structure

Check box if New Building (new construction)

Check box if Alteration to Existing building. Include an explanation of the plans for the structure. Use a separate piece of paper if needed

## Electrical Load Details

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### Heating Type

Check the box that corresponds to the type of heat. If the heat is electric, indicate number of units, and load and/or size

### Streetlights Required

Check box if streetlight installation is required

### Interconnection

If power will be generated and feed into the SCL power grid, check the box corresponding to the generation type. For more information go to: [www.seattle.gov/light/Conserve/cgen/](http://www.seattle.gov/light/Conserve/cgen/)

## Contact Information

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Provide complete and correct information to facilitate accurate and efficient completion of the project

## Residential Construction

### Single Family, Duplex, Triplex, and Accessory Dwelling Units

This is an outline of the process to get electrical service to new residential services. The steps below are generally sequential and divided by the customer responsibility and Seattle City Light's (SCL) responsibility.

#### Customer Responsibilities Prior to Construction:

1. Contact SCL for an Application for Electric Service
2. Review SCL *Requirements for Electrical Service Connection (RESC)* ([www.seattle.gov/light/electricservice](http://www.seattle.gov/light/electricservice)) and have plans drawn up
3. Submit application with scaled drawings (3 copies each)
  - Site plan with the building footprint and desired location of the service entrance
  - Legal description of the property
  - Load calculations
4. Mail or deliver all materials to:  
Seattle City Light, Attention: Intake Desk, 1300 North 97<sup>th</sup> Street, Seattle, WA 98103-3220

#### SCL Responsibilities Prior to Construction:

5. Review application and plans
6. Prepare design and determines charges
7. Give customer technical details of service and send customer bill for installation charges

#### Customer Responsibilities Prior to Connection of Service:

8. Install new Service
9. Call Department of Planning and Development, or if outside of Seattle, the local jurisdiction, to inspect the service. If inspection passes, inspector signs permit as [ready for service, subject to Seattle City Light...]
10. Remit payment for SCL installation charges
11. Notify SCL that service is ready for power

#### SCL Responsibilities Prior to Connection of Service:

12. Inspect the service
  - If the service meets SCL requirements, it is approved and given to SCL crew to connect
  - Or**
  - Notify the customer there are corrections to be made before the job is sent to crew
13. Connect the service, install the meter and open the account for energy billing

## Commercial/Industrial Multi-Residential and Plat

In order to get your project started Seattle City Light (SCL) requires the following:

### 1. Completed Application for Electric Service

### 2. Scaled Drawings (3 copies each)

- Architectural site plans showing exact dimensions and location of buildings with respect to property lines and profile to street/lanes
- Civil drawings showing water, sanitary and storm sewers, as well as all new utilities on public and private property
- Registered legal description of property
- Detailed electrical drawings for proposed building including meter room detail, riser diagram and electrical load calculations
- Elevation and section view drawings of structures including vaults. Note clearances from SCL power lines.
- One-line electrical diagram

### 3. Mail or deliver all materials to:

Seattle City Light, Attention: Intake Desk, 1300 N 97<sup>th</sup> St, Seattle, WA 98103-3220

*Note: a complete set of architectural drawings is not needed. Please submit the specific drawings requested above.*

### 4. Revisions: SCL must be notified of all revisions to the plans that will affect the electrical service installation

## The Process

The key milestones in the service planning and installation process are:

### Service Entrance Location and Preliminary Service Charge

In order to obtain an estimate of SCL service charges, we require: a legal description, site plan, load calculations, riser diagram, preferred service voltage and location

### Material Procurement – Critical Path Item

Lead-time for many electrical components can be lengthy; for example, primary electrical cables and transformers require a minimum of 12 months once the order is placed. Primary voltage switching equipment can require up to 18 months once the order is placed. The procurement order will be placed 5 working days after the customer initiates or commits to the project (payment or contractual obligation)

### Installation

Responsibility for installation is divided in the following manner:

- Supply and installation of most civil materials and labor on private property is the customer's responsibility. SCL engineers will give an estimate for the civil work to extend the distribution system for multi-lot developments
- All civil work done by the contractor must be inspected by SCL
- Supply and installation of all electrical material (for example, transformers, and cable) will be by SCL



# 01.13 Customer Guide

## Electrical Service Connection



- Pole installation on public rights-of-ways will be done by SCL. Primary voltage wires and poles will not be placed on private property
- Customer's contractor will install metering sockets and enclosures. SCL will provide the current transformers and the meters
- Submit final electrical design and associated drawings

### **Service Installation**

The project will be scheduled for service installation upon receipt of:

- Necessary approvals from appropriate authorities, including electrical inspection, from the electrical permitting authority and inspection from SCL
- Execution of all required documents, including contracts, rental agreements, operating agreements, transportation agreements and easements as required
- Completions of metering identification, addressing of spaces and receipt of electrical room keys
- Payment of electrical connection and construction fees

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# 07.11 Completeness Guideline

## All Services

Seattle City Light



Project Name: \_\_\_\_\_

Service Address: \_\_\_\_\_

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**Please choose the type of service you are using, and submit the information from the appropriate lists with your application for electric service.**

**Single Family, Duplex, Triplex and ADU use List A** (two copies of each)

**Apartments, Condos, Townhouses, Unit Lot and Multi-Lot use Lists A & B** (three copies of each)

**Commercial, Industrial, and Mixed Use use Lists A, B, & C** (three copies of each)

**Items on List D are required only as specified by Seattle City Light**

### List A

#### Site Plan - showing:

- North arrow
- Correct street names and building address
- Desired service entrance and meter location
- Building foot print and unit layout(s) with dimensions and location of building with respect to property lines, streets, alleys, sidewalks and driveways
- Existing electrical services
- Existing and proposed easements

### List B

#### Load Calculation - including:

- Total electric heating (kW)
- Size of electric hot-water tank (kW)\*
- Size of heat pump (ton, kW, or horsepower) and additional electric resistive heating element (kW)

#### Electrical One-line/Riser Diagram

- Meter and/or CT locations
- Panel sizes
- Amount of wire and wire sizes

#### Additional Site Plan Information

- Final finished-grade elevations
- New and existing streets, alleys, sidewalks and driveways
- Existing and desired locations of SCL electrical power facilities (poles, below-grade vaults and handholes, pad-mounted electrical equipment)

### List C

**Building floor plans** showing existing and proposed locations of in-building SCL transformer vaults, conduits and customer's electric rooms

#### Additional Load Information:

- Total HVAC compressors/pumps (kW)
- Electric motors (horsepower and kW)
- Total freezing/cooling (restaurants, stores, distribution warehouses) compressors/pumps (kW)

**For SCL  
Use Only:**  
Check if missing

# 07.11 Completeness Guideline

## All Services

Seattle City Light



Project Name: \_\_\_\_\_

Service Address: \_\_\_\_\_

- Starting-current of soft-start devices on electric motors larger than 15 horsepower (amperes or %)
- Emergency power services
- Known future loads (kW)

### Additional Riser Diagram Information

- Desired Voltage, single or three-phase
- Total and individual main disconnect sizes (Amperes)
- Proposed service terminations (terminal enclosures, current-transformer enclosures, cables or bus bars into SCL transformer vaults)
- Meter diagrams showing from which SCL facility each meter is fed
- Number, size and material (aluminum or copper) of customer's NEC-sized cables or bus bars proposed to enter SCL facilities
- Backup generation and associated open-transition transfer switches
- Co-generation (industrial) or Interconnection (non-industrial)
- Protective devices between SCL and customer high-voltage equipment (for primary-voltage services)

### List D

- Legal Description / Survey** (if property lines are created or modified)
- Civil drawings** (for underground services and pole work) - show existing and new underground utilities (water, gas, sewer, telephone, cable TV, etc)
- Approved street/alley paving plans** (for work in the right-of-way or in private streets/alleys, including setting or moving SCL poles or underground facilities)
- Building Elevation drawings:** plan and elevation views (if building(s) or work is near overhead distribution wires)
- Street/pedestrian light**
  - Existing and proposed locations (including conduits & handholes if UG).
  - Total Load (KW)
  - Proposed service point(s)
- Pedestal Meterbase Drawing** (if meter is mounted on a pedestal or similar)
- Electronic Drawing Submittal**
  - Useful for SCL engineering work on Residential Plats and other major projects
  - Submit in AutoCAD 2006 format, or earlier version
  - Use AutoCAD eTransmit command if available to attach support files
  - Consult with engineering if drawing is larger than 10 MB.

\* electric instant-hot-water heaters are not allowed per Seattle Municipal Code 21.49.030.

# 10.20 SCL Service Approval Checklist

Field visit checklist and OH Agreement.

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Seattle City Light



**Service Request #** \_\_\_\_\_ **Customer Name:** \_\_\_\_\_  
**Service Address:** \_\_\_\_\_ **City:** \_\_\_\_\_  
**ESR/ESE:** \_\_\_\_\_ **Contact#:** \_\_\_\_\_ **Date 1<sup>st</sup> visit:** \_\_\_\_\_  
1<sup>st</sup> insp. \_\_\_\_\_ 2<sup>nd</sup> \_\_\_\_\_ 3<sup>rd</sup> \_\_\_\_\_ 4<sup>th</sup> \_\_\_\_\_ 5<sup>th</sup> \_\_\_\_\_

**INSTRUCTIONS: Check boxes if approved/ready or cross out and initial if not applicable**

**METERING**

- Meter socket installed correctly per EUSERC
- Meter socket attached firmly to wall or pedestal
- Meter socket cover is accessible
- Number of meter jaws are in correct position and location per EUSERC
- A permanent 3'x 3' level working area in front of the meter socket
- For Aluminum conductors a corrosion inhibitor has been applied to entrance conductors
- Meter sockets and entry doors marked with the appropriate unit numbers or addresses *(On multi-unit properties only)*

**CT SERVICE**

- CT enclosure proper size, type, side-hinged and installed in an approved location
- Landing pads are rated for 50,000 AIC *(check CT enclosure label)*
- A minimum 1" conduit from CT enclosure to meter socket installed per RESC
- One additional #12 green wire included between CT enclosure and meter socket when using PVC
- No junction boxes from CT enclosure to meter socket
- Conduit runs are no greater than 50' from CT enclosure to meter socket *(Unless there is written SCL approval)*
- If meter socket to CT enclosure is greater than 10', it has the correct number, size and color of solid secondary wires per RESC

**MAST STRIKE**  **WALL STRIKE**

- Service mast has a minimum of 2 points of attachment above any coupling and is rigid steel *(Mast Strike)*
- Guy wires or stiff legs are present if mast over 26" tall or service drop over 100' *(Mast Strike)*
- Strike knob installed at least 18" above the roof and in approved location *(Mast Strike)*
- Service bracket installed within 24" of the weather-head and in approved location *(Wall Strike)*
- Service bracket attachment screws connected to a structural member of the building *(Wall Strike)*

**OVERHEAD SERVICE**

- Strike point on the building/structure between 12' and 20' from grade
- A 3' radius of clear space along the proposed path between the utility pole and the strike point on the building
- A conductor clearance over structures per requirements of the RESC *(e.g. clearance over driveways, rooftops, alleys, etc.)*
- 3.5' minimum clearance over roof pitched 4:12 or greater
- 8' minimum clearance over roof pitched less than 4:12
- A 3' clearance from pedestrian accessible areas including operable window openings and railings
- Service strike location has clearance of 1' horizontal for every 4' vertical for safe ladder placement

**UNDERGROUND SERVICE**

- Bends are 3" rigid steel w/ 36" minimum radiuses totaling not more than 270 degrees *(Unless otherwise stated in SCL drawing)*
- Conduit riser has 4.5" clearance between pole and riser and is installed on the face of pole
- Conduit enters bottom side knockouts of meter socket *(Not Center)*
- Conduit has 18" of cover on private property and 36" of cover in easement areas or right of way.
- Conduit trench is free of debris and has a bedding of sand
- The underground PVC and conduit combination bonded to a properly grounded meter base.
- Correct size and type of hand hole installed as indicated on the customer sketch *(If applicable)*

**TEMPORARY**

- Temporary post is located in an approved location, not located in the right-of-way.
- A minimum 4"x 6"x16' post with a minimum of 4' below grade and 4" of compact fill. *(Post should not move)*
- Two 2"x 4" supports that are 6" to 12" from the top of the post. *(Bracing angled toward serving pole)*
- Bracing anchored with 2"x 4" wood stakes.
- Meter located to allow SCL to read meter safely.
- Service bracket located within 12" from top of post
- Mast conduit, weather head, and service bracket are firmly attached to the post.

# 10.20 SCL Service Approval Checklist

Field visit checklist and OH Agreement.



Customer

**Service Request #** \_\_\_\_\_ **Customer Name:** \_\_\_\_\_  
**Service Address:** \_\_\_\_\_ **City:** \_\_\_\_\_  
**ESR/ESE:** \_\_\_\_\_ **Contact#:** \_\_\_\_\_ **Date 1<sup>st</sup> visit:** \_\_\_\_\_

**SERVICE READY**

- Neutral conductor identified with white tape
- Conductors and/or conduits located within the property, ROW or in SCL easement area. *(Aerial and Underground)*
- Meter is 5-7' from center of the meter socket to grade
- Full payment received for installation.
- Service signed off by DPD or L&I or relevant permitting agency. *(See Below)*
- Customer notified of the fault current duty (AIC).
- Ready for Crew \_\_\_\_\_ Date: \_\_\_\_\_

Permitting Agency Inspection Approved By: \_\_\_\_\_ Permit#: \_\_\_\_\_ Date: \_\_\_\_\_

Notes: \_\_\_\_\_

**SERVICE LOCATION AGREEMENT**

*(For Overhead Service Only)*

Standard Fee: \$ \_\_\_\_\_ Extraordinary Fee: \$ \_\_\_\_\_

Amperage Size  125 or less  200  Other \_\_\_\_\_

Voltage Size  120/240  120/208  Other \_\_\_\_\_

Phase  Single  Three  Other \_\_\_\_\_

# Of Wires  3  4  Other \_\_\_\_\_

Fault Duty (AIC)  ≤ 10,000 Amps  10,001 - 22,000 Amps  Other \_\_\_\_\_

Strike Location will be: \_\_\_\_\_ Face \_\_\_\_\_ Corner. Ground Breaking Date: \_\_\_\_\_

Meter Location will be: \_\_\_\_\_ Face \_\_\_\_\_ Corner. Ready for Power Date: \_\_\_\_\_

Work Site Specific Detail: \_\_\_\_\_

If Temporary Pole, Specify Location of pole on construction site: \_\_\_\_\_

- Permitting Agency:**
- Seattle Department of Planning and Development (Phone # 206-684-8850)
  - City of Burien Building Department (Phone # 206-248-5520)
  - City of SeaTac Building Department (Phone # 206-973-4764)
  - Washington State Dept. of Labor and Industries (Phone # 360-902-5269)
  - Other \_\_\_\_\_ (Phone # \_\_\_\_\_)

The customer shall provide and install all electrical service and metering equipment compliant with Seattle City Light's Requirements for Electrical Service Connection (RESC) manual and Seattle City Light's accepted Electric Utility Service Equipment Requirement Committee (EUSERC) standards. Customer agrees to the service location and size. The customer must contact Seattle City Light for final inspection and for electrical service connection. A copy of this document will be provided to the customer.

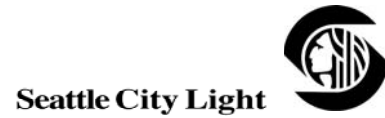
**By signing below you are agreeing to the above information. If you wish to make any changes to this agreement at a later date, a completed Service Request Change Order (enclosed) must be submitted to Seattle City Light.**

**Customer Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**SCL Representative Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**COMMENTS:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# 06.80 Motor Load Detail Worksheet



**Project name**

Service address:

Date submitted:

**Information Requested**

**Motor #1**

**Motor #2**

Information Requested	Motor #1	Motor #2
Description of Driven Load		
Motor Voltage		
Number of Phases		
Motor Horsepower		
Maximum number of starts in 8 hour period		
Locked rotor current per manufacturer		
Power factor at locked rotor current (if not given SCL will assume 40%)		
Description of Soft-starting device		
Maximum current during soft-start		
Power factor during soft-start (SCL will not estimate this value)		

*Complete all requested information for each motor 15 hp or higher. Please copy if additional pages are needed.*