

Rule 2
DESCRIPTION OF SERVICE

Sheet 1

A. General

1. The character of service available at any particular location should be ascertained by inquiry at SCE's office.
2. The rate schedules included herein are applicable to both electric service and SCE services provided beyond SCE's Point of Delivery.
3. The rate schedules included herein are applicable for service where the customer purchases his entire electrical requirements from SCE, except where such schedules specifically provide otherwise, and are not applicable where a part of the customer's electrical requirements are supplied from some other source.
4. The rate schedules included herein are only applicable for service provided from overhead distribution facilities (or where underground distribution facilities are provided for SCE's operating convenience or in accordance with the provisions of Rules 15, 16, and 20) except where schedules specifically provide otherwise.
5. Alternating current service of approximately 60-cycle frequency will be supplied.
6. Voltages referred to in the tariff schedules are nominal voltages.

B. Phase and Voltage Specifications

1. Standard nominal voltages of SCE are as follows:
 - a. Distribution voltages: 120, 120/240, 240, 240/480, 277/480, 2,400, 4,160 volts; or, depending on location, 4,800, 12,000, 14,400/24,900, 16,500 or 33,000 volts.
 - b. Voltages in excess of 33,000 volts are transmission voltages. For its operating convenience, SCE may elect to supply a customer from lines of transmission voltage. In such case, the customer may select as a standard delivery voltage one of the following: 2,400, 4,160, 6,900, 12,000, 13,800, 16,500 volts, or such other voltage as SCE may approve, provided that in no case shall a customer be required to advance to SCE a greater amount of money to obtain service than he would be required to advance under SCE's rules applicable to the particular load, if he were regularly served from SCE's nearest appropriate facilities ordinarily employed.
 - c. Where SCE maintains four-wire wye-connected polyphase secondary mains: (1) 120, 120/208, and 208 volts.
 - d. Where SCE maintains four-wire delta-connected polyphase secondary mains: 120, 120/240, and 240 volts.
 - e. In Santa Catalina Island: 120, 120/240, 277/480, and 2,400 volts.

(Continued)

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B. Phase and Voltage Specifications (Continued)

2. Customer Service Voltages

- a. Under all normal load conditions, distribution circuits will be operated so as to maintain secondary service voltage levels to customers within the voltage ranges specified below:

<u>Nominal Two-Wire and Multi-Wire Service Voltage</u>	<u>Minimum Voltage to All Services</u>	<u>Maximum Service Voltage On Residential and Commercial Distribution Circuits</u>	<u>Maximum Service Voltage On Agricultural and Industrial Distribution Circuits</u>
120	114	120	126
208	197	208	218
240	228	240	252
277	263	277	291
480	456	480	504

- b. Exceptions to Voltage Limits. Voltage may be outside the limits specified when the variations:

- (1) Arise from the temporary action of the elements.
- (2) Are infrequent momentary fluctuations of a short duration.
- (3) Arise from service interruptions.
- (4) Arise from temporary separation of parts of the system from the main system.
- (5) Are from causes beyond the control of SCE.

3. Customer Utilization Voltages

- a. All customer-owned utilization equipment must be designed and rated in accordance with the following utilization voltages specified by the American National Standard C84.1 if customer equipment is to give fully satisfactory performance:

<u>Nominal Utilization Voltage</u>	<u>Minimum Utilization Voltage</u>	<u>Maximum Utilization Voltage</u>
120	110	125
208	191	216
240	220	250
277	254	289
480	440	500

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B. Phase and Voltage Specifications (Continued)

3. Customer Utilization Voltages (Continued)

- b. The differences between service and utilization voltages are allowances for voltage drop in customer wiring. The maximum allowance is 4 volts (120 volt base) for secondary service.
- c. Minimum utilization voltages from American National Standard C84.1 are shown for customer information only as SCE has no control over voltage drop in customer's wiring.
- d. The minimum utilization voltages shown in a. above, apply for circuits supplying lighting loads. The minimum secondary utilization voltages specified by American National Standard C84.1 for circuits not supplying lighting loads are 90 percent of nominal voltages (108 volts on 120 volt base) for normal service.
- e. Motors used on 208 volt systems should be rated 200 volts or (for small single phase motors) 115 volts. Motors rated 230 volts will not perform satisfactorily on these systems and should not be used. Motors rated 220 volts are no longer standard, but many of them were installed on existing 208 volt systems on the assumption that the utilization voltage would not be less than 187 volts (90 percent of 208 volts).

4. Single-phase Service

a. General

<u>Voltage</u>	<u>Minimum Load Required</u>	<u>Maximum Load Allowed</u>
120 volts	None	1-15 amp and 1-20 amp branch circuit
120/240 or 240 volts	None	400 amp main switch
240/480 volts	15 kVA	200 amp main switch
2,400 volts or over	Varies with location	40 amp main switch

- b. The maximum size 120 volt single-phase motor allowed is 1 hp and the maximum size 240 volt, or higher voltage, single-phase motor allowed is 10 hp.

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B. Phase and Voltage Specifications (Continued)

4. Single-phase Service (Continued)

c. Single-phase service may be supplied to installations having a proposed main service switch in excess of the switch capacities specified above provided the approval of SCE has been first obtained as to the number and size of switches, circuits, and related facilities. 120/240 volt installations will be supplied by one of the following methods as determined by SCE.

- (1) From two or three separate 120/240 volt service connections at one location. Energy so supplied will be totalized for billing purposes. The connected load on any service connection shall not be greater than twice that on any other service connection.
- (2) From one 120/240 volt connection where the proposed main service switch does not exceed 600 amperes capacity.

d. Where SCE maintains four-wire wye-connected 120/208 volt secondary mains, single-phase service is supplied at 120/208 volts, three-wire, for which the maximum allowed is a 200-ampere main switch. Loads in excess of a 200-ampere main switch will be supplied at 120/208 volts, four-wire.

5. Three-phase Service.

a. General.

<u>Voltage</u>	<u>Minimum Connected Load Required</u>	<u>Maximum Demand Allowed</u>	<u>Maximum Main Switch Capacity Allowed</u>
240 volts	3 kVA	1,000 kVA	4,000 Amperes
277/480 volts	25 kVA	3,000 kVA	4,000 Amperes
2,400 volts or 4,160 volts	Varies w/location	12,000 kVA	3,000 Amperes
12,000 volts or 16,500 volts	Varies w/location	30,000 kVA	Not Specified

b. Single-Family Domestic Service. In areas where SCE does not maintain three-phase secondary mains, only single-phase service will be supplied unless the applicant's load includes at least one motor rated in excess of 10 hp.

c. Where three-phase service is supplied from a four-wire wye-connected 120/208 volt service, the maximum demand allowed is 1,000 kVA.

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B. Phase and Voltage Specifications. (Continued)

5. Three-phase Service. (Continued)

- d. Service to all loads of 1,000 kVA maximum demand, or over, must be approved by SCE as to adequacy of facilities for service.
- e. Loads on three-phase service must be balanced between phases in accordance with good engineering practice.
- f. Three-phase service may be supplied to installations having a proposed main service switch in excess of the switch capacities specified above provided approval of SCE has first been obtained as to the number and size of switches, circuits and related facilities. Such service will be supplied from two or three separate service connections at one location. Energy so supplied will be totaled for billing purposes. The loads will be balanced as closely as practicable between the services.

6. Combined Single-phase Service and Three-phase Service.

- a. Service may be supplied at 120/208 volts four-wire wye-connected where SCE does not maintain four-wire secondary polyphase mains provided: (1) written application is made for such service by the customer; (2) the customer's load is of such a size as to require an individual transformer installation of not less than 15 kVA of transformer capacity; and (3) the customer provides space acceptable to SCE on his premises to accommodate the installation of SCE's facilities when, in the opinion of SCE, such space is considered necessary.
- b. In underground areas where SCE maintains 120/208 volt or 240 volt three-phase mains, service may be supplied at 277/480 volts, four-wire provided: (1) written application is made for such service by the customer, and (2) the customer provides space acceptable to SCE on his premises to accommodate the installation of SCE's facilities when, in the opinion of SCE, such space is considered necessary.

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(Continued)

B. Phase and Voltage Specifications. (Continued)

6. Combined Single-phase Service and Three-phase Service. (Continued)

c. Service may be supplied at 120/240 volts four-wire delta-connected where SCE does not maintain four-wire secondary polyphase mains provided: (1) written application is made for such service by the customer; (2) the customer's load is of such a size as to require an individual transformer installation of not less than 15 kVA of transformer capacity; (3) the unbalance between phases is less than 100 kW; and (4) the customer provides space acceptable to SCE on his premises to accommodate the installation of SCE's facilities when, in the opinion of SCE, such space is considered necessary.

d. The maximum demand allowances for combined single-phase and three-phase are as set forth in B.5. above.

7. At the option of SCE, the above voltage and phase specifications may be modified because of service conditions at the location involved.

C. Motor Protection and Equipment. Customer's motor equipment must conform with the following requirements:

1. Motors that cannot be safely subjected to full rated voltage on starting or that drive machinery of such a nature that the machinery, itself, or the product it handles will not permit the motor to resume normal speed upon the restoration of normal supply voltage shall be equipped with devices that will disconnect them from the line upon failure of supply voltage and that will prevent the automatic reconnection of the motors upon restoration of normal supply voltage.

2. All motors of 1 hp or larger shall be equipped with thermal relays, fuses, or other automatic overcurrent interrupting devices to disconnect completely such motors from the line as a protection against damage due to overheating.

3. Three-phase motors driving elevators, hoists, tramways, cranes, conveyers, or other equipment, which would create hazard to life in the event of uncontrolled reversal of motor rotation, shall be provided with reverse-phase and open-phase protection to disconnect completely the motors from the line in the event of phase reversal or loss of one phase.

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C. Motor Protection and Equipment. (Continued)

4. Wind machines thermostatically controlled with automatic reclosing switches must be equipped with suitable time-delay devices, as hereinafter specified, at the customer's expense, to permit the required adjustment of the time of reclosure after interruption of service.

A suitable time-delay device, within the meaning of this rule, is a relay or other type of equipment that can be preset to delay with various time intervals the reclosing of the automatic switches (and the consequent starting up of the electric motors on the wind machines) and to stagger the reconnection of the load on SCE's system, and such device must be constructed so as effectively to permit a variable overall time interval of not less than five minutes with adjustable time increments of not greater than ten seconds. The particular setting to be utilized for each separate installation is to be determined by SCE from time to time in accordance with its operating requirements, and the customer is to obtain from SCE the setting for each installation as thus determined.

D. Allowable Motor Starting Currents.

1. The starting current drawn from SCE's lines shall be considered the nameplate locked rotor current or that guaranteed by the manufacturer. At its option SCE may determine the starting current by test, using a stop ammeter with not more than 15% overswing or an oscillograph, disregarding the value shown for the first 10 cycles subsequent to energizing the motor.

If the starting current for a single motor exceeds the value stated in the following tables, reduced voltage starting or other suitable means must be employed, at the customer's expense, to limit the current to the value specified, except where specific exemptions are provided in Sections D.2., 3., and 4.

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D. Allowable Motor Starting Currents. (Continued)

TABLE 1
Alternating Current - Single-phase Motors

<u>Rated Size</u>	<u>Allowable Locked Rotor Currents</u>	
	<u>120 Volts</u>	<u>240 Volts</u>
1 hp and less	50 amperes	36 amperes
1 1/2 hp		48 amperes
2 hp		60 amperes
3 hp		80 amperes
5 hp		120 amperes
7 1/2 hp		170 amperes
10 hp		220 amperes

TABLE 2
Alternating Current - Three-phase Motors

<u>Rated Size</u>	<u>Allowable Locked Rotor Currents</u>		
	<u>240 Volts</u>	<u>480 Volts</u>	<u>2,400 Volts</u>
3 hp	64 amperes	32 amperes	
5 hp	92 amperes	46 amperes	
7 1/2 hp	127 amperes	63 amperes	
10 hp	162 amperes	81 amperes	
15 hp	232 amperes	116 amperes	
20 hp	290 amperes	145 amperes	
25 hp	365 amperes	183 amperes	
30 hp	435 amperes	218 amperes	
40 hp	580 amperes	290 amperes	
50 hp	725 amperes	363 amperes	70 amperes
60 hp		435 amperes	87 amperes
75 hp		535 amperes	107 amperes
100 hp		725 amperes	142 amperes

Over 100 hp - SCE should be consulted for allowable locked rotor currents.

- Where service conditions permit, subject to SCE approval, reduced-voltage starters may be omitted in the original installation until such time as SCE may order the installation of a reduced-voltage starter to be made, and, similarly, SCE may at any time require starting current values lower than set forth herein where conditions at any point on its system require such reduction to avoid interference with service.

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D. Allowable Motor Starting Currents. (Continued)

3. Reduced-voltage starters may be omitted on any motor of a group installation provided that its starting current does not exceed the allowable starting current of the largest motor of the group.
4. A reduced-voltage starter may be omitted on any motor in a group installation provided that its starting current does not exceed three times the maximum demand in amperes of the entire installation.

E. Interference With Service.

1. Customers who operate equipment which causes detrimental voltage fluctuations (such as, but not limited to, hoists, welders, radio transmitters, X-ray apparatus, elevator motors, compressors, and furnaces) must reasonably limit such fluctuations upon request by SCE. The customer will be required to pay for whatever corrective measures are necessary.
2. Prior to the installation of any new arc furnace or design modification of an existing furnace, the customer shall provide basic design information for the installation to aid SCE in determining a method of service and the allowable level of load fluctuations.
3. Any customer who superimposes a current of any frequency upon any part of his electrical system, other than the current supplied by SCE, shall, at his expense, prevent the transmission of such current beyond his electrical system.

F. Power Factor. SCE may require the customer to provide, at his own expense, equipment to increase the operating power factor of each complete unit of neon, fluorescent, or other gaseous tube lighting equipment to not less than 90%, lagging or leading.

G. Wave Form. SCE may require that the wave form of current drawn by equipment of any kind be in conformity with good engineering practice.

H. Added Facilities.

1. Where an applicant requests and SCE agrees to install facilities which are in addition to, or in substitution for the standard facilities SCE would normally install, the costs thereof shall be borne by the applicant. Such costs shall include continuing ownership costs as may be applicable. Unless otherwise provided by SCE's filed tariff schedules, these added facilities (special facilities) will be installed, owned and maintained or allocated by SCE solely as an accommodation to the applicant. Added Facilities are defined as:

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H. Added Facilities. (Continued)

1. (Continued)

- a. Facilities requested by an applicant which are in addition to or in substitution for standard facilities (such as SCE's standard line and service extension facilities), which would normally be provided by SCE for delivery of service at one point, through one meter, at one voltage class under its tariff schedules, or
- b. A pro rata portion of the facilities requested by an applicant, allocated for the sole use of such applicant, which would not normally be allocated for such sole use.

Added Facilities may include, but are not limited to, all types of equipment normally installed by SCE in the development of its electrical transmission and distribution systems and facilities or equipment related to SCE's provision of service to a customer or a customer's receipt or utilization of SCE's electrical energy. Added Facilities also include the differential costs for equipment for electrical transmission and distribution systems designed by SCE which, in SCE's sole opinion, is in excess of equipment required for SCE's standard serving system. Added Facilities may include poles, lines, structures, fixtures, transformers, service connections, load control devices and meters. However, the installation of meters capable of recording and providing interval data that are in addition to or in substitution for standard meters shall be provided under the provisions of Section J of this Rule.

2. Added facilities will be installed under the terms and conditions of a contract in the form on file with the California Public Utilities Commission. Such contract will include, but is not limited to, the following terms and conditions:

- a. Where new facilities are to be installed for applicant's use as added facilities, the applicant shall advance to SCE the additional installed cost of the added facilities over the cost of standard facilities. At SCE's option, SCE may finance the new facilities.
- b. The following monthly ownership charges are applicable to Added Facilities Contracts with an effective date prior to 1/20/96:
 - (1) Applicants being served by SCE-financed added facilities shall pay a monthly ownership charge of 1.25% of the cost associated with the added facilities.
 - (2) Applicants being served by the Customer-financed added facilities shall pay a monthly ownership charge of 0.38% of the cost associated with the added facilities. (R)

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H. Added Facilities. (Continued)

2. (Continued)

b. (Continued)

(3)

Where existing facilities are allocated for applicant's use as added facilities, the applicant shall pay a monthly charge for the added facilities of 1.25% of SCE's Reconstruction Cost New Less Depreciation value of that portion of the existing facilities which are allocated to the customer as Added Facilities.

c.

Monthly Ownership Charge. The following monthly ownership charges include a replacement component into perpetuity and are applicable to Added Facilities Contracts with an effective date on or after 1/20/96:

(1)

Applicants being served by SCE-financed added facilities shall pay a Monthly Ownership Charge of 1.42% for capital and operations and maintenance (O&M) cost components including: rate of return, depreciation rates, administrative and general (A&G) expense, Franchise Fees and Uncollectibles (FF&U), ad valorem tax, insurance, Federal income tax, State income tax, and O&M expense. An included replacement component allows SCE to provide replacement facilities, if needed, at no additional cost to the customer paying the added facilities rate.

(R)

(2)

Applicants being served by the Customer-financed added facilities shall pay a Monthly Ownership Charge of 0.55% for capital and operations and maintenance (O&M) cost components including: administrative and general (A&G) expense, Franchise Fees and Uncollectibles (FF&U), ad valorem tax, insurance, and O&M expense. An included replacement component allows SCE to provide replacement facilities, if needed, at no additional cost to the customer paying the added facilities rate.

(R)

(3)

Where existing facilities are allocated for applicant's use as added facilities, the applicant shall pay a monthly ownership charge for the added facilities of 1.42% of SCE's Reconstruction Cost New Less Depreciation value of that portion of the existing facilities which are allocated to the customer as Added Facilities.

(R)

Where SCE agrees to provide replacement options, Applicant shall pay the following monthly ownership charges:

<u>SCE-Financed</u>		<u>Customer Financed</u>	
<u>With Replacement at Additional Cost</u>	<u>With Replacement for 20 Years at No Additional Cost</u>	<u>With Replacement at Additional Cost</u>	<u>With Replacement for 20 years at No Additional Cost</u>
1.25%	1.28% (R)	0.38% (R)	0.40% (R)

Under these options, where existing facilities are allocated for applicant's use as added facilities, the applicant shall pay a monthly ownership charge equal to the applicable SCE-financed monthly rate. SCE-financed monthly rate will be applied to SCE's Reconstruction Cost New Less Depreciation value of that portion of the existing facilities which are allocated to the customer as Added Facilities.

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H. Added Facilities. (Continued)

2. (Continued)

- d. Where SCE determines the collection of continuing monthly ownership charges is not practicable, the applicant will be required to make an equivalent one-time payment in lieu of the monthly ownership charges. The applicable payment options, if any, will be selected solely by SCE.
- e. All monthly ownership charges shall be reviewed and refiled with the Commission when changes occur in SCE's costs for providing such service. However, SCE will not refile if SCE's cost change is less than 10 basis points.
- f. Added Facilities with 20-Year Replacement Coverage (N)
Where SCE agrees to provide replacement coverage for a period of 20 years, SCE shall replace the added facilities at no additional cost to the customer. At the end of 20 years, the customer shall either execute a new added facilities contract to continue to be served from the added facilities or terminate the contract without penalties. (N)
- (1) Notwithstanding any term-based termination provision in the contract governing the added facilities, all of the other terms, conditions, provisions, rights and obligations of such contracts shall remain fully effective and enforceable for a period not to exceed 18 months after the end of the existing term to allow SCE and the customer to negotiate and execute a new contract governing the existing added facilities. Should SCE and the customer not execute a new contract within the 18-month extension period, SCE shall cease providing service to the customer through the added facilities equipment and the contract will terminate pursuant to the termination provisions in the existing added facilities contract. Should SCE and the customer execute a new contract within the 18-month extension period, the terms and conditions of the new contract will be retroactive to the day of the original 20-year termination date. (T)
- (2) Where the customer executes a new added facilities contract to continue to be served from the added facilities, the investment base will remain the same and continue with the existing financing option. The new contract may also provide for replacement coverage on a temporary basis until the Commission issues a decision bearing on this issue in SCE's next General Rate Case. SCE's rights and obligations with respect to providing additional long-term replacement coverage will be effective until 90 days after the Commission's final determination in SCE's General Rate Case. (N)
(L)

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H. Added Facilities. (Continued)

- 3. SCE shall not be liable for any loss, damage, or injury arising from SCE's installation, operation, maintenance, or control of the Added Facilities, unless such loss, damage, or injury results from SCE's sole negligence, and, in no event, shall SCE be liable for loss of profits, revenues, or other consequential damages. No adjustment shall be made to reduce the billings if damage to, or malfunction of the Added Facilities results from any cause other than the negligence or willful act of SCE. (L)

- 4. Beginning August 2, 2010, SCE will no longer accept requests under the Added Facilities provision of Rule 2, Section H, for underground distribution systems that call for specified pieces of electrical equipment to be installed in below-ground structures in circumstances where it is technically feasible to install the equipment above ground. Such requests will no longer be accepted for situations indicated in 4.a, 4.b, and with certain exceptions 4.c, below. However, all requests which call for below-ground installations that are received by SCE prior to August 2, 2010 will be "grandfathered" and not subject to the provisions of this Rule section. These grandfathered requests must be approved by SCE for construction by December 3, 2010 and installed by December 2, 2011. (L)

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Rule 2
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H. Added Facilities. (Continued)

4. (Continued)

- a. New construction on any property except public property and public rights-of-way;
- b. Circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities on any property except public property and public rights of way resulting in a change of use or occupancy as defined in state or local law;
- c. Except for situations on a case-by-case basis in which the local authority and SCE agree to locate Equipment above ground because the above-ground location is technically feasible for the installation.

For purposes of this provision, specified pieces of equipment include all primary voltage from 4 kV to 35 kV electrical distribution system equipment (Equipment), including, but not limited to, transformers, switches and fuses, capacitors, and junction bars.

“Technically feasible” means that enough space is, or can be made, available above ground for the electrical distribution Equipment needed for SCE to serve customers and that other requirements, such as obtaining the required permits, are met. The required space is defined by existing design standards within the operation and maintenance requirements that are in compliance with applicable safety codes and regulations such as CPUC General Order 128.

Where SCE has existing primary voltage distribution equipment installed in below-ground structures, the equipment will continue to be operated and maintained below ground. However, in accordance with Section 4.c., above, where existing below-ground Equipment must be modified by SCE, above-ground retrofits shall only occur in circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities resulting in a change of use or occupancy as defined in state or local law; or when agreed to by the local authority and SCE on a case-by-case basis.

Design and installation of any above-ground Equipment shall comply with the typical installations depicted in SCE’s Above-Ground Equipment Aesthetics Improvement Manual and SCE’s Distribution Design Manual, as well as land use laws, including local ordinances respecting matters of public health, safety and convenience, that are of general applicability to above-ground utility structures regardless of ownership, to the extent the same would not directly or effectively require the Equipment to be located underground..

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H. Added Facilities. (Continued)

4. (Continued)

When modifying existing Equipment installed in the above-ground public rights-of-way, SCE shall comply with local ordinances respecting matters of public health and safety and convenience, to the extent that the same are of general applicability to other utility and public works structures or equipment, regardless of ownership, installed in the public rights of way, do not directly or effectively require the Equipment to be located underground, or otherwise conflict with the design standards contained in SCE's Distribution Design Manual and similar documents.

I. Welder Service.

1. Rating of Welders. Electric welders will be rated for billing purposes as follows:

- a. Motor Generator Arc Welders. The horsepower rating of the motor driving a motor generator type arc welder will be taken as the horsepower rating of the welder.
- b. Transformer Arc Welders. Nameplate maximum kVA input (at rated output amperes) will be taken as the rating of transformer type arc welders.
- c. Resistance Welders. Resistance welder ratings will be determined by multiplying the welder transformer nameplate rating (at 50% duty cycle) by the appropriate factor listed below:

<u>Type of Welder</u>	<u>Transformer Nameplate Rating @ 50% Duty Cycle</u>	<u>Factor</u>	
		<u>SCE-Owned Distrib. Transf.</u>	<u>Customer-Owned Distrib. Transf.</u>
Rocker Arm, Press or Projection Spot	20 kVA or less	.60	.50
Rocker Arm or Press Spot	Over 20 Kva		
Projection Spot	21 to 75 kVA, incl.	.80	.60
Flash or Butt	100 kVA or over		
Seam or Portable Gun	All sizes		
Flash or Butt	67 to 100 kVA, incl.	* *	
Projection Spot	Over 75 kVA		
Flash or Butt	66 kVA or less	1.20	.90

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I. Welder Service. (Continued)

* Each flash or butt welder in this group will be rated at 80 kVA where distribution transformer is owned by SCE or 60 kVA where distribution transformer is owned by the customer.

- d. Ratings prescribed by a., b., and c., above, normally will be determined from nameplate data or from data supplied by the manufacturer. If such data are not available or are believed by either SCE or customer to be unreliable, the rating will be determined by test.
- e. If established by seals approved by SCE, the welder rating may be limited by the sealing of taps which provide capacity greater than the selected tap and/or by the interlocking lockout of one or more welders with other welders.
- f. When conversion of units is required for tariff application, 1 welder kVA will be taken as 1 horsepower for tariffs stated on a horsepower basis and 1 welder kVA will be taken as 1 kilowatt for tariffs stated on a kilowatt basis.

2. Billing of Welders. Welders will be billed at the regular rates and conditions of the tariffs on which they are served subject to the following provisions:

- a. Connected Load Type of Schedule. Welder load will be included as part of the connected load with ratings as determined under Section 1., above, based on maximum load that can be connected at any one time, and no allowance will be made for diversity between welders.
- b. Demand Metered Type of Schedule. Where resistance welders are served on these schedules the computation of diversified resistance welder load shall be made as follows:

Multiply the individual resistance welder ratings, as prescribed in Sections 1.c. to 1.f. inclusive, above, by the following factors and add the results thus obtained:

- 1.0 times the rating of the largest welder
- 0.8 times the rating of the next largest welder
- 0.6 times the rating of the next largest welder
- 0.4 times the rating of the next largest welder
- 0.2 times the ratings of all additional welders

If this computed diversified resistance welder load is greater than the metered demand, the diversified resistance welder load will be used in lieu of the metered demand for rate computation purposes.

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J. Interval Metering and Other Metering Facilities As Added Facilities.

1. This section is applicable to the installation of Interval Metering and/or Metering Facilities that are not part of other transmission and distribution facilities installed as Added Facilities under Rule 2, Section H.
2. Interval Metering and/or Metering Facilities may include, but are not limited to the components as defined in Rule 1 under Interval Metering or Metering Facilities.
3. Where a customer elects, and SCE agrees, SCE will install, own, and maintain Interval Metering and/or Metering Facilities which are in addition to, or in substitution for, standard equipment for the customer's use. The costs of such equipment shall be borne by the customer.
4. The costs of Interval Metering will be as set forth in Schedule CC-DSF, Customer Choice – Discretionary Service Fees.
5. Interval Metering and/or Metering Facilities Charges.
 - a. Interval Metering and/or Metering Facilities will be installed, owned, and maintained under the terms of and conditions of a contract entitled "Interval Metering and Metering Facilities Agreement" (IMMFA), on file with the Commission. Where a customer requests, SCE may agree to finance the Interval Metering and/or Metering Facilities.

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(Continued)

J. Interval Metering and Other Metering Facilities As Added Facilities. (Continued)

5. Interval Metering and/or Metering Charges. (Continued)

b. SCE Ownership. Where SCE financing is offered, the customer shall pay for the total costs associated with installing and purchasing Interval Metering and/or Metering Facilities (Investment Amount) through a monthly capital-related charge based on a monthly percentage times the Investment Amount. The rate shall be 1.80% per month. The following provisions will apply:

(1) The customer will be obligated to pay the monthly capital-related charge for the useful life of the Interval Metering and/or Metering Facilities, but no less than ten years. Should the customer request removal of the equipment prior to completing ten years of payments, the customer shall be responsible for paying the Termination Charge specified in the IMMFA.

(2) SCE may remove the Interval Metering and/or Metering Facilities and replace them with standard metering facilities or may require the customer to replace such equipment, at SCE's convenience. In the event SCE requires removal of the Interval Metering and/or Metering Facilities, the customer shall not be obligated to pay any further monthly capital-related charges associated with the removed equipment, even if removal occurs during the first ten years.

c. Other Charges. For SCE-owned Interval Metering and/or Metering Facilities, the customer shall pay the maintenance and testing charges in accordance with Schedule CC-DSF. This charge shall include repair and/or replacement of the Interval Metering and/or Metering Facilities, as necessary to provide for continued operation. The customer shall remain liable for repair or replacement due to damage from misuse, or hazards such as fire, theft, or vandalism. The customer shall pay the maintenance and testing charges for the Interval Metering and/or Metering Facilities during the useful life of such equipment, under the terms and conditions set out in the IMMFA.

d. SCE will update the installation, purchasing, maintenance and testing costs, and the monthly capital-related charges when changes occur in SCE's costs for providing such services and will file these updates with the Commission.

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