

Attachment Q
SMUD Rates, Rules, and Regulations

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The following listed sheets contain all effective rates, rules and regulations affecting rates and service, and information relating thereto, in effect on and after the date indicated. All rates are applicable to the territory served by the District.

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Preliminary Statement

Territory Served by the District

The District supplies electric service in most of Sacramento County and in a portion of Placer County.

Description of Service

A description of service available is contained in the District's Rule and Regulation 2.

The service available at any particular location should be ascertained by inquiry at the District's Customer Services Department office at 6301 S Street, Sacramento.

Procedure to Obtain Service

Any person or corporation whose premises are within the outer boundaries of the District may obtain service by applying for service at the Customer Services Department office establishing credit as hereinafter set forth and complying with the District's rules and regulations. Where an extension of the District's lines is necessary or whenever unusual service requirements are determined, applicant will be informed as to the conditions under which service will be supplied.

Establishment of Credit and Deposits

After making proper application for electric service, it will be necessary for applicant to establish his credit in accordance with Rule and Regulation 6.

General

1. MEASUREMENT OF ELECTRIC ENERGY

All electric energy supplied by the District to its customers shall be measured by means of suitable standard electric meters, except as otherwise specifically provided in the District's Rules and Regulations.

2. DISCOUNTS

All rates hereinafter listed are net rates and are not subject to discount unless specifically stated in the Rates.

Residential Service Rate Schedule R

I. Applicability

This schedule is applicable to single and three-phase residential service in single-family residences and in flats and apartments individually metered by the District; to single and three-phase general farm service where the residence is supplied through the same meter or to additional meters on a farm where the energy consumed is only for domestic purposes; to single and three-phase residential service supplied to a multifamily accommodation through a master-meter or to a mobile home park through a master-meter and sub-metered to all individual mobile home or single-family units.

II. Rates

WINTER SEASON - NOVEMBER 1 Through APRIL 30

Standard Rate (Rate Categories RSE, RWE, RSG, RWG)

Service charge	\$5.00
Energy Charge:	
Tier I Baseline Quantities per month	7.98¢ per kWh
Tier II Quantities per month	14.13¢ per kWh
Tier III Excess per month	15.37¢ per kWh

Electric Space Heat Rate ** (CLOSED) (Rate Categories RSC, RWC)

Service charge per month or portion thereof.....	\$5.00
Energy Charge:	
Tier I Baseline Quantities per month	6.03¢ per kWh
Tier II Quantities per month	10.77¢ per kWh
Tier III Excess per month	11.69¢ per kWh

SUMMER SEASON - MAY 1 Through OCTOBER 31

Standard Rate (Rate Categories RSE, RWE, RSC, RWC, RSG, RWG)

Service charge	\$5.00
Energy Charge:	
Tier I Baseline Quantities per month	8.66¢ per kWh
Tier II Quantities per month	15.10¢ per kWh
Tier III Excess per month	16.83¢ per kWh

WINTER TIER QUANTITIES - NOVEMBER 1 THROUGH APRIL 30

Rate Category	RSE, RSC	RWE, RWC	RSG	RWG
Tier I kWh per month	0-1120	0-1420	0-620	0-920
Tier II kWh per month	1121-1400	1421-1700	621-825	921-1125
Tier III kWh per month	>1400	>1700	>825	>1125

SUMMER TIER QUANTITIES - MAY 1 THROUGH OCTOBER 31

	RSE, RSC, RSG	RWE, RWC, RWG
Tier I kWh per month	0-700	0-1000
Tier II kWh per month	701-1000	1001-1300
Tier III kWh per month	>1000	>1300

**The Winter Season (CLOSED) Electric Space Heat Rate is no longer available to new installations of electric space heat equipment, effective May 1, 1996. Any new occupant to a current premise with (CLOSED) Rate Categories RSC, RTC, or RWC will be placed on the Standard Rate (Rate Categories RSE, RWE) or on the Time-of-Use (Rate Category RTE) if applicable, upon application for service. New occupants and new customers installing electric space heat equipment (Rate Categories RSE, RWE) shall be entitled to the Tier I Baseline Quantities for Electric Space Heat and billed the Standard Rate.

III. Optional Medical Equipment Discount and Energy Assistance Programs

Medical Equipment Discount Program

A discount of 30 percent of the service charge and 35 percent of the energy charges for the Tier I Baseline Quantities per month and 30 percent of the energy charges for the Tier II and Tier III Quantities per month for residential customers who certify that a full-time resident of the household requires regular use of a medical equipment device that is essential to sustain life or relied upon for mobility as outlined in Sheet No. 1-MED-1.

Residential Service Rate Schedule R

Energy Assistance Program

A discount of 30 percent of the service charge and 35 percent of the energy charges for the Tier I Baseline Quantities per month and 30 percent of the energy charges for the Tier II and Tier III Quantities per month is applied for low-income residential customers who meet the eligibility requirements as specified in Sheet No. 1-EAPR-1.

Medical Equipment Discount & Energy Assistance Programs

For residential customers qualifying for both Medical Equipment Discount and Energy Assistance Program options, a discount of 50 percent of the service charge and 55 percent of the energy charges for the Tier I Baseline Quantities per month and 30 percent of the energy charges for the Tier II and Tier III Quantities per month.

IV. Optional Time-of-Use Rates

Option 1 (Rate Categories RTE, RTC, RTG)

WINTER SEASON - NOVEMBER 1 Through APRIL 30

Service charge.....	\$5.00
On-Peak ¢/kWh.....	8.93¢
Off-Peak ¢/kWh.....	8.09¢

SUMMER SEASON - MAY 1 Through OCTOBER 31

Service charge.....	\$5.00
On-Peak ¢/kWh.....	20.39¢
Off-Peak ¢/kWh.....	9.11¢

Trial Time-of-Use Billing

Residential customers shall be entitled to a 12-month trial period for option 1 in which the customer shall receive a credit (after 12 months of billing on the option at Time-of-Use Rates) for the accumulated difference, if applicable, between the Standard Rate and the Optional Time-of-Use, after which either the Standard Rate or the Optional Time-of-Use Rate must be selected. If the Optional Time-of-Use Rate is selected, customers subsequently requesting a transfer from the Optional Time-of-Use Rate to the Standard Rate may not return to the Optional Time-of-Use Rate for a 12-month period.

Option 2 (Rate Categories RTE5, RTC5, RTG5)

WINTER SEASON - OCTOBER 1 Through MAY 31

Service Charge.....	\$10.00
On-Peak ¢/kWh.....	9.01¢
Off-Peak ¢/kWh.....	8.22¢

SUMMER SEASON - JUNE 1 Through SEPTEMBER 30

Service Charge.....	\$10.00
Super-Peak ¢/kWh.....	20.67¢
On-Peak ¢/kWh.....	13.55¢
Off-Peak ¢/kWh.....	8.13¢

V. Rate Option Menu

(A) Residential Thermal Energy Storage Option (Rate Category, RTT) (CLOSED)

Residential customers who are equipped with a Residential Thermal Energy Storage (RTES) system *or* who may qualify by meeting the load criteria established for RTES including the lockout of space-conditioning compressors during the on-peak period, and who are billed on the Optional Time-of-Use Rate (Option 1), shall be entitled to a credit of 1.824¢ per kWh off the winter off-peak energy charge, 4.819¢ per kWh off the summer on-peak energy charge, and 2.073¢ per kWh off the summer off-peak energy charge.

Rate Category RTT will no longer be available to new occupants as well as new installations of RTES systems, or other qualifying equipment effective June 1, 1997. At the time of application for service, new occupants of a current premise with (CLOSED) Rate Category RTT will be placed on the standard time-of-use rate (Rate Category RTE) and will be informed of other rate options available to them.

Residential Service Rate Schedule R

(B) Standby Service Option

This option is for residential customers who operate, in whole or in part, privately-owned generator(s) with a contract capacity (combined nameplate rating) less than 100 kW on their premises, and are connected to the District's electrical system requiring the District to standby ready to provide backup or maintenance service to replace the generator(s). Charges for Standby Service are as follows:

ALL MONTHS - (January 1 Through December 31)

Standby Charge (\$ per kW):

Based on contract capacity per month \$5.15

Energy Charges:

All energy provided to the customer by the District will be billed at the applicable energy charges under the Standard Rate or Optional Time-of-Use Rate.

(C) Electric Vehicle (EV) Option

This option is for residential customers who own licensed passenger electrical vehicles, and take service under the optional Time-of-Use Rate (Option 1) upon proof of vehicle registration.

Installation of a time-of-use meter on the charging location and billing under the Optional Time-of-Use Rate (Option 1) with a credit of 2.00¢ per kWh off the off-peak energy charge, the service charge will be waived. (Rate Category RTEV)

(D) Residential PV Pioneer Green Fee

This option is for residential customers who participate in the District's "PV Pioneer Project." Participation in the "PV Pioneer Project" shall be at the sole discretion of the District.

Green Fee per month..... \$4.00

(E) Net Metering for Solar Electric, Wind Turbine, and Biomass Generation Facilities

The net metering option is applicable to residential, small commercial, commercial, industrial, or agricultural customers who have a solar or wind electrical generation facility, or a hybrid system of both, or biomass with a capacity of not more than 1000 kilowatts. The facility must be located on the customer's premises, operate in parallel with the District's transmission and distribution facilities, and must be intended primarily to offset part or all of the customer's own electrical requirements. Application for this option is on a first-come, first-served basis and is limited to one-half of one-percent (0.5%) of SMUD's total system load. The customer must sign the appropriate SMUD interconnection agreement.

1. Net Energy Metering for Residential.

SMUD will pay for and install, at no cost to the customer, a single meter capable of registering the flow of electricity in both directions, or an equivalent means of metering. For SMUD-supplied photovoltaic (PV) systems, an additional meter for PV generation will be supplied as part of the system package. Customers may elect to pay the estimated outstanding balance each month to minimize year-end settlements. At the end of each twelve (12) month period from the origination of the net metering agreement, SMUD may issue payment to SMUD energy customers for any excess kWh supplied to SMUD during the prior year. Monthly net energy consumed or generated will be billed or credited at the applicable tier or time-of-use rate.

2. Standby Charges

Customers who qualify for Net Metering are exempt from current standby charges on that portion of their load.

(F) Residential Three-phase Service Option

This option is applicable to customers in areas where three-phase service is available. The District shall charge a monthly service fee of \$32 for Special Facilities to cover the additional costs for providing this service.

(G) Green Pricing Options

1. SMUD Community Solar Option

Customers electing this premium service option will receive an additional monthly energy charge of no less than 1 cent and no greater than 2 cents per kWh. Contributions will be held until sufficient funds are available for construction of a solar roof top system.

2. SMUD Renewable Energy Option

Customers electing this premium power service will receive an additional monthly energy charge of no less than 1/2 cent and no greater than 2 cents per kWh. SMUD may offer up to three premium rate options representing various blends of renewable resources within the 1/2 cent to 2 cent range. The actual prices will be published each November and will be based on the expected above market cost of renewable resources for the upcoming year. Participation will be limited to the amount of resources that SMUD is able to secure below the 2 cent premium limit.

Residential Service Rate Schedule R

3. Flat Fee Options:

Customers may opt to support SMUD renewable energy purchases through one of the following monthly fees:

Green Fee flat charge per month 100% option \$6.00

Green Fee flat charge per month 50% option \$3.00

VI. Special Metering Charge

The District will charge a monthly service fee for customers who purchase and install communications hardware to transfer energy load data from their meter/recorder to a personal computer. The fee covers maintenance, software support and the annual licensing fee.

VII. Conditions

A. Electric Space Heat

Tier Quantities for electric space heat are applicable to residential customers where no domestic space heat equipment other than electric, or solar with electric backup, is installed. The use of residential thermal energy storage, dual fuel heat pumps, or individual heat pumps equipped with central source systems deriving the majority from solar collectors will qualify under this definition. Effective September 1, 1980, this rate was closed to new installation of electric resistance heating unless the installation meets at least one of the following two conditions:

1. The electric resistance system is used to supplement a heating and/or cooling system by at least 60 percent of the annual energy requirement and is supplied by a device using a non-depletable source of energy.
2. The electric resistance system is used to supplement a heat pump system.

B. Domestic Well

Tier Quantities for domestic wells are applicable to residential customers who own and operate a well, that is their sole source of domestic water, and whereby the well is billed on the residential rates.

C. Master-Metered Multifamily Accommodation and Mobile Home Park Billing (Rate Category RMHP)

The master-metered customer's energy consumption will be billed under the Tier Quantities using the ratio of the number of occupied single-family accommodations which are Electric or Non-Electric Space Heat to the total number of occupied single-family accommodations. The billing calculation will include applicable discounts to the Tier 1 baseline and service charges for qualifying energy assistance and life support program participants. It is the responsibility of the customer to advise the District within 15 days following any change in the number of occupied single-family accommodations wired for electric service and/or any change in the number of qualifying life support and/or energy assistance program participants, and/or new occupants of the existing premises with Rate Categories RSC or RWC.

D. Time-of-Use Billing Periods

The following defines the time periods for the optional time-of-use rates:

- a. Option 1 (Rate Categories RTE, RTC, RTG, RTT)

On-peak hours include the following:

WINTER SEASON - NOVEMBER 1 Through APRIL 30

Weekdays Between 7:00 a.m. and 10:00 a.m., and 5:00 p.m. and 8:00 p.m.

SUMMER SEASON - MAY 1 Through OCTOBER 31

Weekdays Between 2:00 p.m. and 8:00 p.m.

Off-peak hours include the following:

ALL SEASONS - JANUARY 1 through DECEMBER 31

All day on Saturdays, Sundays and the following holidays:

Martin Luther King Jr.'s Birthday	3rd Mon. in Jan.
Presidents Day	3rd Mon. in Feb.
Memorial Day	Last Mon. in May
Labor Day	1st Mon. in Sep.
Thanksgiving Day	4th Thu. in Nov.
New Year's Day	January 1
Lincoln's Birthday	February 12
Independence Day	July 4
Columbus Day	October 12
Veterans Day	November 11
Christmas Day	December 25

All other hours not defined as super-peak or on-peak.

Residential Service Rate Schedule R

b. Option 2 (Rate Categories RTE5, RTC5, RTG5)

Super-peak hours include the following:

SUMMER SEASON (ONLY) - JUNE 1 through SEPTEMBER 30

Weekdays: Between 2:00 p.m. and 8:00 p.m.

On-peak hours include the following:

WINTER SEASON - OCTOBER 1 through MAY 31

Weekdays: Between 12:00 noon and 10:00 p.m.

SUMMER SEASON - JUNE 1 through SEPTEMBER 30

Weekdays: Between 12:00 noon and 2:00 p.m. and between 8:00 p.m. and 10:00 p.m.

Off-peak hours include the following:

ALL SEASONS - JANUARY 1 through DECEMBER 31

All day on Saturdays, Sundays and the following holidays:

Martin Luther King Jr.'s Birthday	3rd Mon. in Jan.
Presidents Day	3rd Mon. in Feb.
Memorial Day	Last Mon. in May
Labor Day	1st Mon. in Sep.
Thanksgiving Day	4th Thu. in Nov.
New Year's Day	January 1
Lincoln's Birthday	February 12
Independence Day	July 4
Columbus Day	October 12
Veterans Day	November 11
Christmas Day	December 25

and all other hours not defined as super-peak or on-peak.

E. Billing

PRORATION OF CHARGES

BILLING CIRCUMSTANCE	Customer Charge	Energy Tiers/ Discounts	BASIS OF PRORATION
Less than 27 days or More than 34 days	No	Yes	Relationship between the length of the billing period and 30 days.
Winter/summer season overlap	No	Yes	Relationship between the length of the billing Period & the number of days winter and summer.

(End)

Residential and General Service Energy Assistance Program

Applicability

To customers receiving service under residential or general service rates who meet the eligibility requirements.

Qualification

To qualify for the Energy Assistance Program, the customer must complete an eligibility application approved by the District. Applications are provided and processed by our agent, the State of California, Department of Community Services and Development.

Eligibility

To be eligible for the Energy Assistance Program the customer must meet the following requirements:

- The total gross household income must conform to the Government Income Guidelines as specified on the application,
- He/she cannot be claimed as a dependent on another person's income tax return,
- The service address shown on the application is the customer's primary residence.

Eligibility for Non-Profit Agencies

Non-Profit agencies must apply directly to the District for the Energy Assistance Program. To qualify for this program, the District must directly serve an agency. In addition, the agency must be a certified non-profit public or private agency, defined by the Internal Revenue Service code as a charitable and/or educational organization that owns and operates residential unit(s) and whose residents meet the Energy Assistance Program income guidelines. An energy survey of the residential unit(s) is recommended at the time of being placed on this program and implementation of recommended cost effective energy efficiency measures is encouraged.

Verification of Eligibility

Upon request, each applicant shall provide proof, satisfactory to the District and our agent, that they meet the eligibility requirements. Failure to provide proof as requested will be considered just cause for denial to the Energy Assistance Program. It is the customer's responsibility to immediately notify the District or our agent when eligibility requirements change to the extent that the applicant no longer qualifies for this program. Applicants served under this program will be subject to annual review and/or verification. Any intent to defraud the District will result in rebilling of the applicant's bill and removal from the Energy Assistance Program. The District reserves the right to take appropriate legal action as warranted.

Application

The Energy Assistance Program option will become effective commencing with the beginning of the billing period in which the request is received and approved. Return to another rate option will be effective commencing with the beginning of the billing period in which the request is received or the cancellation date, if this enrollment in the Energy Assistance Program is terminated.

(End)

Residential Service Medical Equipment Discount Program

Applicability

To customers receiving service under residential rates who meet the eligibility requirements listed below.

Qualification

An application must be completed along with certification from a doctor of medicine or an osteopath licensed to practice medicine in the State of California stating that a medical need exists.

Medical Equipment Device

A medical equipment device, for purposes of these rates, is defined as any medical device requiring utility-supplied energy for its operation that is regularly required to sustain the life of a person residing in a residential dwelling. The term "medical equipment device" includes, but is not limited to, respirators, iron lungs, hemodialysis machines, suction machines, electric nerve stimulators, pressure pads and pumps, aerosol tents, electrostatic and ultrasonic nebulizers, compressors, IPPB machines, and motorized wheelchairs. It also includes air conditioning for all residential rate categories or electric heat for customers on an electric space heat rate, for paraplegic, hemiplegic, or quadriplegic and multiple sclerosis patients.

Eligibility

To qualify for medical equipment discount you must certify in writing that you or a full-time resident in your home is:

- dependent on a medical equipment device used in your home or
- a paraplegic, hemiplegic, or quadriplegic person or multiple-sclerosis patient with special electric space heating needs or air conditioning needs.

Medical conditions other than paraplegia, hemiplegia, quadriplegia, or Multiple Sclerosis may also qualify for this rate if electrically operated equipment is used to sustain, restore or supplant a vital function.

Application

The Medical Equipment Discount Program option will be effective commencing with the beginning of the billing period in which the request is received and approved. Return to another rate option will be effective commencing with the beginning of the billing period in which the request is received or the cancellation date, if enrollment in the Medical Equipment Discount Program is terminated.

(End)



APPLICATION FOR MEDICAL EQUIPMENT DISCOUNT (MED) RATE

(Formerly: Application for Life Support Rate)

INSTRUCTIONS:

1. Please print all information legibly.
2. Please have your doctor complete the reverse side.
3. **Mail completed application to:**
Sacramento Municipal Utility District
Credit Division, Mail Stop A253
P.O. Box 15830
Sacramento, CA 95852-1830

Qualification for the MED Rate requires that the customer:

1. be currently served under residential rates, and
2. provide a certification by a doctor of medicine or an osteopath licensed to practice medicine in the State of California establishing that a particular device or a medical condition as described below is necessary to sustain the resident's life.

The person qualifying for this rate must be a full time resident of the household.

CUSTOMER INFORMATION	FIRST	INITIAL	LAST	SOCIAL SECURITY NO.
	SERVICE ADDRESS		STREET	APT. NO.
CITY		ZIP CODE		
IF DIFFERENT MAILING ADDRESS	NUMBER	STREET	APT. NO.	
	CITY		ZIP CODE	
HOME PHONE ()	WORK PHONE ()	SMUD ACCOUNT NO. (IF KNOWN)	PATIENT'S RELATIONSHIP TO CUSTOMER	
PATIENT'S NAME		PATIENT'S AGE	IF APPLICABLE, ADDRESS OF MOBILE HOME PARK:	
DATE OF BIRTH	INSURANCE /MEDICAL NUMBER			

Medical Equipment Device:

Medical equipment, for purposes of the MED Rate, is defined as any medical device requiring utility-supplied energy for its operation that is regularly required to sustain the life of a person residing in a residential dwelling. The term "medical equipment" includes, but is not limited to, respirators, iron lungs, hemodialysis machines, suction machines, electric nerve stimulators, pressure pads and pumps, aerosol tents, electrostatic and ultrasonic nebulizers, compressors, IPPB machines, and motorized wheelchairs. It also includes electric heat or air conditioning for paraplegic, hemiplegic, or quadriplegic persons and multiple sclerosis patients.

Type of medical equipment used:

AGREEMENT

I, the undersigned, as a customer of the Sacramento Municipal Utility District, hereby claim eligibility and make application for the electric rate discount for medical equipment within home usage. The device described above is used in my home and is essential medical equipment powered by electricity supplied by the Sacramento Municipal Utility District.

I hereby grant right of access to my residence during regular business hours to the Sacramento Municipal Utility District for verification of information given on this application, if necessary. I understand that refusal of access for this purpose will be considered just cause for denial of rate discount. I agree to notify the Sacramento Municipal Utility District at the immediate termination of use of the medical equipment, or any medical apparatus change. A new application and/or doctor's certification may be required when there is a change of address. Applications for this rate will be subject to approval by the District and will be subject to annual review.

All information given on this application is true to the best of my knowledge. I understand that any misinformation could lead to disqualification for the MED Rate. My signature gives consent for this information to be shared with other offices of the Federal, State, County Governments, with my utility company, and with other utilities or their agents to enroll me in their assistance programs.

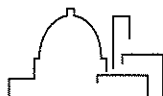
Signature of Applicant _____

Date _____

Customer Services 1-888-742-SMUD (7683)



SACRAMENTO MUNICIPAL UTILITY DISTRICT
 6201 S Street, P.O. Box 15830, Sacramento, CA 95852-1830
The Power To Do More.®



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STATEMENT OF CERTIFICATION
By Medical Doctor or Osteopath Licensed to Practice Medicine
in The State of California

PLEASE PRINT ALL INFORMATION LEGIBLY

1. Patient's Name
2. What is the patient's diagnosis?
3. Type of equipment required by the patient <i>(be specific)</i>
4. For certain disabled persons requiring SMUD supplied energy for special electric heat or air conditioning needs please complete: <input type="checkbox"/> paraplegic, hemiplegic, or quadriplegic person requires special electric heating. <input type="checkbox"/> Multiple Sclerosis patient requires special electric heat and/or air conditioning.
5. To be eligible for a rate discount, essential medical equipment is defined as any medical device requiring utility supplied electricity for its operation that is regularly required to sustain the life of a person or relied upon for mobility. In your opinion, does the above-described equipment meet this criteria? <input type="checkbox"/> YES <input type="checkbox"/> NO
6. How long can the patient cope without electricity before a life-threatening medical condition arises? _____ Hours _____ Minutes
7. How long will the patient be required to use such equipment? <input type="checkbox"/> 0-1 year <input type="checkbox"/> 1-2 years <input type="checkbox"/> life-time <input type="checkbox"/> other _____
8. Can the electrically powered equipment be operated by an auxiliary source such as a hand pump (crank) or battery? <input type="checkbox"/> YES* <input type="checkbox"/> NO
* If yes, how long a period? _____

I hereby certify that this patient regularly requires the use of the above equipment which is powered by electricity.

DOCTOR'S NAME		CALIFORNIA MEDICAL LICENSE NO.	
ADDRESS		CITY	ZIP CODE
TELEPHONE NO. ()	SIGNATURE OF DOCTOR		DATE

SMUD USE ONLY		
ACCOUNT NUMBER	EFFECTIVE DATE	
APPROVAL ACTION <input type="checkbox"/> YES <input type="checkbox"/> NO*	*COMMENTS <input type="checkbox"/> DIAGNOSIS/EQUIPMENT DOES NOT QUALIFY <input type="checkbox"/> OTHER: _____	
<input type="checkbox"/> ACLM	AUTHORIZED SIGNATURE	DATE
	COMPLETED BY	DATE

General Service Rate Schedule AG

I. Applicability

This schedule is applicable to single or 3 phase service, delivered at such nominal voltage as the customer selects from among those which the District designates are available at the customer's premises, for pumping loads where a preponderance of the load is devoted to agricultural purposes, farm lighting, feed choppers, milking machines, heating for incubators, brooders and other farm uses; to drainage pumping loads where a preponderance of the area drained is agricultural; and to irrigation pumping loads for non-agricultural purposes where the entire loads, except for minor incidental uses are devoted to such pumping. This schedule is applicable to customer accounts with billing demands that do not exceed 300 kW for 3 or more consecutive months.

II. Non-Demand Metered Rates

This rate is for general service customers having a demand of 30 kW or less. Whenever use of energy by non-demand metered general service customers is 12,000 kWh or more for 3 consecutive months or whenever, in the District's judgement, the demand will exceed 30 kW, a demand meter will be installed and the customer will be billed on the applicable demand metered rate. The customer will be billed on the demand-metered rate until the demand falls below 31 kW and energy is less than 8,750 kWh for 12 consecutive months before being returned to the ASN rate.

Small Agricultural Service ASN	Summer	Winter
Service Charge per month or portion thereof	\$8.70	\$8.70
Energy Charge (¢ per kWh) – all kWh	9.88¢	8.97¢

III. Demand Metered Rates

This rate is for general service customers having a demand of 31 kW or more and whereby a demand meter is installed. The demand for any month will be the maximum 15-minute kW delivery during the month. The customer will be billed on the demand-metered rate until the demand falls below 31 kW and energy is less than 8,750 kWh for 12 consecutive months before being returned to the ASN rate.

Large Agricultural Demand-Metered Service ASD	Summer	Winter
Service Charge per month or portion thereof	\$21.00	\$21.00
Facilities Charge per 12 month maximum kW or installed capacity		
First 30 kW	No Charge	No Charge
Additional kW per month	\$2.00	\$2.00
Energy Charge (¢ per kWh)		
First 8,750 kWh per month	9.63¢	10.07¢
Additional kWh per month	6.81¢	7.78¢

IV. Optional Time-of-use Rates

This optional rate is for non-demand metered small agricultural customers and demand metered large agricultural customers. Transfers to the agricultural TOU schedule must remain in effect for at least 4 months. Customers cannot return to service under this schedule for 12 months. Service under this schedule is subject to meter availability.

Small Agricultural Time-of-use Service AON	Summer	Winter
Service Charge per month or portion thereof	\$11.60	\$11.60
Energy Charge (¢ per kWh)		
On-peak period	15.39¢	10.41¢
Off-peak period	7.97¢	8.77¢
Large Agricultural Time-of-use Service AOD	Summer	Winter
Service Charge per month or portion thereof	\$70.00	\$70.00
Demand Charge (\$ per kW)	\$2.80	\$2.00
Energy Charge (¢ per kWh)		
On-peak period	16.47¢	10.44¢
Off-peak period	8.51¢	8.79¢

V. Discontinuance of Service

Any customer resuming service within 12 months after discontinuing service will be required to pay the facilities charges and service charges that would have been billed if service had not been discontinued, except when a customer agrees to lock out service during the full period of June through September. The facilities charge and service charge will be waived during each of those months.

VI. Rate Option Menu

(A) Standby Service Option

This option is for general service customers who operate, in whole or in part, customer-owned generator(s) on their premises and where 1) the output connects to the District's electrical system, and 2) the District must stand ready to provide backup or maintenance service to replace the generator(s).

Standby Service Charge (\$/kW of Contract Capacity per month)

Secondary Distribution Voltage	\$5.15
Primary Distribution Voltage.....	\$4.07
69 kV Voltage.....	\$2.02

"Contract Capacity" is a fixed kilowatt value determined by the rating of the generator unit. In addition to the standby service charge, the District will continue to bill for all applicable charges under this rate schedule. These charges include customer and facility charges, as well as demand and energy charges for District-provided power.

Optional Metered Standby Service Charge

The customer may elect to base the standby charge on actual metered generator output in relation to total site load, which may result in a different standby billing than one based on contract capacity. This option requires the customer to pay for the installation and monthly maintenance of special metering equipment at both the generator and the customer's SMUD meter.

This option uses a metered standby kW instead of contract capacity kW to determine the standby service charge. The formula is as follows:

$$\text{metered standby kW} = (\text{maximum site kW}) - (\text{SMUD billing kW})$$

where:

"maximum site kW" is the highest coincident sum of the hourly generator output, if any, and the SMUD metered load for the billing period, and

"SMUD billing kW" is the maximum hourly load recorded at the customer meter during the previous 12 months.

(B) Green Pricing Options

SMUD Community Solar Option

Customers electing this premium service option will receive an additional charge for monthly energy of no less than 1 cent and no greater than 2 cents per kWh. Contributions will be held until sufficient funds are available for construction of a solar roof top system.

SMUD Renewable Energy Option

Customers electing this premium power service will receive an additional charge for monthly energy of no less than 1/2 cent and no greater than 2 cents per kWh. SMUD may offer up to 3 premium rate options representing various blends of renewable resources within the 1/2 cent to 2 cent range. The actual prices will be published each November and will be based on the expected above market cost of renewable resources for the upcoming year. Participation will be limited to the amount of resources that SMUD is able to secure below the 2 cent premium limit.

(C) Net Metering for Solar Electric and Wind Turbine, and Biomass Generation Facilities

The net metering option is applicable to residential, small commercial, commercial, industrial, or agricultural customers who have a solar or wind electrical generation facility, or a hybrid system of both, or biomass with a capacity of not more than 1000 kilowatts. The facility must be located on the customer's premises, operate in parallel with the District's transmission and distribution facilities, and must be intended primarily to offset part or all of the customer's own electrical requirements.

Application for this option is on a first-come, first-served basis and is limited to one-half of one-percent (0.5%) of SMUD's total system load. The customer must sign the appropriate SMUD interconnection agreement.

1. Net Energy Metering for Residential, GSN (up to and including 20 kW), and ASN (up to and including 30 kW).

SMUD will pay for and install, at no cost to the customer, a single meter capable of registering the flow of electricity in both directions, or an equivalent means of metering. For SMUD-supplied photovoltaic (PV) systems, an additional meter for PV generation will be supplied as part of the system package. Customers may elect to pay the estimated outstanding balance each month to minimize year-end settlements. At the end of each twelve (12) month period from the origination of the net metering agreement, SMUD may issue payment to SMUD energy customers for any excess kWh supplied to SMUD during the prior year. Monthly net energy consumed or generated will be billed or credited at the applicable tier or time-of-use rate.

2. Net Energy Metering for commercial greater than 20 kW and agricultural in excess of 30 kW.

SMUD will pay for and install a single meter, or an equivalent means of metering, capable of registering the flow of electricity in both directions. The customer will be required to pay the cost differential between standard metering and bi-directional metering. For SMUD-supplied photovoltaic (PV) systems, an additional meter for PV generation will be supplied as part of the system package. Monthly net energy consumed or generated will be billed or credited at the applicable tier or time-of-use rate. Excess generation over the entire year, will not be reimbursed by the District except through purchase agreement. Demand and facilities charges will remain the same as other customers in the applicable rate category. Bills for demand-billed commercial, industrial, and agricultural customers are subject to payment in each normal billing cycle.

General Service Rate Schedule AG

3. Standby Charges

Customers who qualify for Net Metering are exempt from current standby charges on that portion of their load.

VII. Special Metering Charge

For customers who purchase and install communications hardware and software to transfer energy load data from their meter/recorders to a personal computer, the District will charge a monthly service fee to cover maintenance, software support and the annual licensing fee.

VIII. Conditions

1. Type of Electric Service

Firm Service

Standard service where the District provides a continuous and sufficient supply of electricity.

2. Service Voltage Definition

The following defines the 3 voltage classes available. The rate shall be determined by the voltage level at which service is taken according to the following:

a. Secondary

This is the voltage class if the definition of "primary" and "69 kV" do not apply to a customer's service.

b. Primary

This is the voltage class if a customer elects to accept service at a voltage level of 12 kV or 21 kV that is available in the area and the District approves such arrangements for a customer whose monthly demand exceeds 300 kW.

c. 69 kV

This is the voltage class if a customer elects to accept service at a voltage level of 69 kV or higher that is available in the area and the District approves such arrangements for a customer whose monthly demand exceeds 500 kW.

3. Power Factor Adjustment

Accounts with demands of 20 kW or greater may be subject to a power factor adjustment. The District, at its option, may place VAR metering equipment to record reactive power conditions. Effective January 1, 1998, when a customer's monthly power factor falls below 95% leading or lagging, the following billing adjustment will apply

$$\text{Energy} \times \$0.008 \times \left(\frac{95\%}{\text{Power Factor}} - 1 \right)$$

Energy = the total monthly kWh for the account

Power Factor = the lesser of the customer's monthly power factor or 95%

Customers that contract with SMUD for power factor corrections will have the power factor adjustment waived for the portion that is covered under the contract.

The fee for correction per KVAR\$0.2125

KVAR = maximum 12 month KVAR in excess of 33% of kW.

4. Agricultural Time-of-Use Rate Periods

The following defines the time period definitions for the Agricultural time-of-use- rates:

Agricultural Time-of-Use rate periods (Applicable to Rate Categories AON & AOD)

On-peak hours include the following:

WINTER SEASON - NOVEMBER 1 Through APRIL 30

Weekdays: Between 7:00 a.m. and 10:00 a.m. and 5:00 p.m. and 8:00 p.m.

SUMMER SEASON - MAY 1 Through OCTOBER 31

Weekdays: Between 2:00 p.m. and 8:00 p.m.

Off-peak hours include the following All day on Saturdays, Sundays and the following holidays:

Martin Luther King Jr.'s Birthday	3rd Mon. in Jan.
Presidents Day	3rd Mon. in Feb.
Memorial Day	Last Mon. in May
Labor Day	1st Mon. in Sep.
Thanksgiving Day	4th Thu. in Nov.
New Year's Day	January 1
Lincoln's Birthday	February 12
Independence Day	July 4
Columbus Day	October 12
Veterans Day	November 11
Christmas Day	December 25

and all other hours not defined as super-peak or on-peak.

**General Service
Rate Schedule AG**

5. Billing

PRORATION OF CHARGES

BILLING CIRCUMSTANCE	Service Charge	Facilities Charges & Energy Charges	BASIS OF PRORATION
Less than 27 days or more than 34 days	Yes	Yes	Relationship between the length of the billing period and 30 days.
Winter/Summer crossover	Yes	Yes	Relationship between the length of the billing period and the number of days winter and summer.

Meter reading for service rendered in accordance with this rate will not be combined for billing purposes unless the convenience of the District is served thereby.

General Service Rate Schedule GS

I. Applicability

This schedule is applicable to single or 3 phase service, delivered at such nominal voltage as the customer selects from among those which the District designates are available at the customer's premises, for general service customers including commercial, industrial, including non-agricultural irrigation pumping and other non-residential customers. This schedule is applicable to customer accounts with billing demands that do not exceed 300 kW for 3 or more consecutive months.

II. Non-Demand Metered Rates

This rate is for general service customers having a demand of 20 kW or less. Whenever use of energy by non-demand metered general service customers is 7,300 kWh or more for 3 consecutive months or whenever, in the District's judgment, the demand will exceed 20 kW, a demand meter will be installed and the customer will be billed on the applicable demand metered rate. The customer will be billed on the demand-metered rate until the demand falls below 21 kW and energy is less than 7,300 kWh for 12 consecutive months before being returned to the GSN rate.

Small Commercial GSN	Summer	Winter
Service Charge per month or portion thereof	\$7.25	\$7.25
Energy Charge (¢ per kWh) – all kWh	10.50¢	10.14¢

III. Demand Metered Rates

This rate is for general service customers having a demand of 21 kW or more and whereby a demand meter is installed. The demand for any month will be the maximum 15-minute kW delivery during the month. The customer will be billed on the demand-metered rate until the demand falls below 21 kW and energy is less than 7,300 kWh for 12 consecutive months before being returned to the GSN rate.

Small Commercial Demand-Metered Service GSS	Summer	Winter
Service Charge per month or portion thereof	\$18.00	\$18.00
Facilities Charge per 12 month maximum kW or installed capacity		
First 20 kW	No Charge	No Charge
Additional kW per month	\$6.00	\$6.00
Energy Charge (¢ per kWh)		
First 7,300 kWh per month	10.50¢	9.46¢
Additional kWh per month	7.95¢	7.41¢

IV. Optional Time-of-use Rates

Commercial and industrial demand metered customers below 300 kW may choose to be served under the small commercial time-of-use rate schedule (GS-TOU3). Transfers from "time-of-use" rate schedules may not be made more than 1 time in a 4-month period. Customers cannot return to Time-of-use service for 12 months.

V. Discontinuance of Service

Any customer resuming service within 12 months after discontinuing service will be required to pay the facilities charges and service charges that would have been billed if service had not been discontinued, except when a customer agrees to lock out service during the full period of June through September. The facilities charge and service charge will be waived during each of those months.

VI. Rate Option Menu

A. Energy Assistance Program for Non-Profit Agencies

A discount of 15 percent will apply to the service charge, energy charge and facilities charge, if any, for general service customers, directly served by the District, who are certified non-profit agencies as outlined in Sheet No. 1-EAPR-1. The primary function shall be to provide a home (sleeping quarters) for low-income residents, who would otherwise meet the residential Energy Assistance Program Rate guidelines defining low-income if permanently residing in a residence. Given that the primary function is provided by the non-profit agencies, associated facilities that provide daytime services for the homeless (e.g., personal hygiene facilities, laundry facilities, kitchen and/or dining facilities, etc.) may also qualify for the discount. At least 75 percent of the facility square footage must be directly related to meeting these functions.

B. Standby Service Option

This option is for general service customers who operate, in whole or in part, customer-owned generator(s) on their premises and where 1) the output connects to the District's electrical system, and 2) the District must stand ready to provide backup or maintenance service to replace the generator(s).

Standby Service Charge (\$/kW of Contract Capacity per month)

Secondary Distribution Voltage	\$5.15
Primary Distribution Voltage	\$4.07
69 kV Voltage	\$2.02

General Service Rate Schedule GS

Standby Service Option *(continued)*

“Contract Capacity” is a fixed kilowatt value determined by the rating of the generator unit. In addition to the standby service charge, the District will continue to bill for all applicable charges under this rate schedule. These charges include customer and facility charges, as well as demand and energy charges for District-provided power.

Optional Metered Standby Service Charge

The customer may elect to base the standby charge on actual metered generator output in relation to total site load, which may result in a different standby billing than one based on contract capacity. This option requires the customer to pay for the installation and monthly maintenance of special metering equipment at both the generator and the customer’s SMUD meter.

This option uses a metered standby kW instead of contract capacity kW to determine the standby service charge. The formula is as follows:

$$\text{metered standby kW} = (\text{maximum site kW}) - (\text{SMUD billing kW})$$

where:

“maximum site kW” is the highest coincident sum of the hourly generator output, if any, and the SMUD metered load for the billing period, and

“SMUD billing kW” is the maximum hourly load recorded at the customer meter during the previous 12 months.

C. Electric Vehicle (EV) Option

Owners of licensed commercial electric vehicles (EV’s) may choose to have a charging location be billed under GSTOU2.

D. Green Pricing Options

SMUD Community Solar Option

Customers electing this premium service option will receive an additional charge for monthly energy of no less than 1¢ and no greater than 2¢ per kWh. Contributions will be held until sufficient funds are available for construction of a solar roof top system.

SMUD Renewable Energy Option

Customers electing this premium power service will receive an additional charge for monthly energy of no less than 1/2¢ and no greater than 2¢ per kWh. SMUD may offer up to 3 premium rate options representing various blends of renewable resources within the 1/2¢ to 2¢ range. The actual prices will be published each November and will be based on the expected above market cost of renewable resources for the upcoming year. Participation will be limited to the amount of resources that SMUD is able to secure below the 2¢ premium limit.

E. Net Metering for Solar Electric and Wind Turbine and Biomass Generation Facilities

The net metering option is applicable to residential, small commercial, commercial, industrial, or agricultural customers who have a solar or wind electrical generation facility, or a hybrid system of both, or biomass with a capacity of not more than 1000 kilowatts. The facility must be located on the customer’s premises, operate in parallel with the District’s transmission and distribution facilities, and must be intended primarily to offset part or all of the customer’s own electrical requirements.

Application for this option is on a first-come, first-served basis and is limited to one-half of one-percent (0.5%) of SMUD’s total system load. The customer must sign the appropriate SMUD interconnection agreement.

1. Net Energy Metering for GSN (up to and including 20 kW), and ASN (up to and including 30 kW).

SMUD will pay for and install, at no cost to the customer, a single meter capable of registering the flow of electricity in both directions, or an equivalent means of metering. For SMUD-supplied photovoltaic (PV) systems, an additional meter for PV generation will be supplied as part of the system package. Customers may elect to pay the estimated outstanding balance each month to minimize year-end settlements. At the end of each twelve (12) month period from the origination of the net metering agreement, SMUD may issue payment to SMUD energy customers for any excess kWh supplied to SMUD during the prior year. Monthly net energy consumed or generated will be billed or credited at the applicable tier or time-of-use rate.

2. Net Energy Metering for Commercial greater than 20 kW and agricultural in excess of 30 kW.

SMUD will pay for and install a single meter, or an equivalent means of metering, capable of registering the flow of electricity in both directions. The customer will be required to pay the cost differential between standard metering and bi-directional metering. For SMUD-supplied photovoltaic (PV) systems, an additional meter for PV generation will be supplied as part of the system package. Monthly net energy consumed or generated will be billed or credited at the applicable tier or time-of-use rate. Excess generation over the entire year, will not be reimbursed by the District except through purchase agreement. Demand and facilities charges will remain the same as other customers in the applicable rate category. Bills for demand-billed commercial, industrial, and agricultural customers are subject to payment in each normal billing cycle.

3. Standby Charges

Customers who qualify for Net Metering are exempt from current standby charges on that portion of their load.

General Service Rate Schedule GS

VII. Special Metering Charge

For customers who purchase and install communications hardware and software to transfer energy load data from their meter/recorder to a personal computer, the District will charge a monthly service fee to cover maintenance, software support and the annual licensing fee.

VIII. Conditions

A. Type of Electric Service

Firm Service

Standard service where the District provides a continuous and sufficient supply of electricity.

B. Service Voltage Definition

The following defines the 3 voltage classes available. The rate shall be determined by the voltage level at which service is taken according to the following:

1. Secondary

This is the voltage class if the definition of "primary" and "69 kV" do not apply to a customer's service.

2. Primary

This is the voltage class if a customer elects to accept service at a voltage level of 12 kV or 21 kV that is available in the area and the District approves such arrangements for a customer whose monthly demand exceeds 300 kW.

3. 69 kV

This is the voltage class if a customer elects to accept service at a voltage level of 69 kV or higher that is available in the area and the District approves such arrangements for a customer whose monthly demand exceeds 500 kW.

C. Power Factor Adjustment

Accounts on a demand rate may be subject to a power factor adjustment. The District, at its option, may place VAR metering equipment to record reactive power conditions. Effective January 1, 1998, when a customer's monthly power factor falls below 95% leading or lagging, the following billing adjustment will apply

$$\text{Energy} \times \$0.008 \times \left(\frac{95\%}{\text{Power Factor}} - 1 \right)$$

Energy = the total monthly kWh for the account

Power Factor = the lesser of the customer's monthly power factor or 95%

Customers that contract with SMUD for power factor corrections will have the power factor adjustment waived for the portion that is covered under the contract.

The fee for correction per KVAR\$0.2125

KVAR = maximum 12 month KVAR in excess of 33% of kW.

D. Billing

PRORATION OF CHARGES

BILLING CIRCUMSTANCE	Service Charge	Facilities Charges & Energy Charges	BASIS OF PRORATION
Less than 27 days or more than 34 days	Yes	Yes	Relationship between the length of the billing period and 30 days.
Winter/Summer crossover	Yes	Yes	Relationship between the length of the billing period and the number of days winter and summer.

Meter reading for service rendered in accordance with this rate will not be combined for billing purposes unless the convenience of the District is served thereby.

(End)

Time-Of-Use Commercial Rate Schedule GS-TOU3

I. Applicability

Applicable to single or three phase service, delivered at such nominal voltage as the customer selects from among those which the District designates are available at the customer's premises. This schedule is mandatory for all commercial and industrial (C&I) customers whose monthly demand is 300-499 kW for three consecutive months and for all customers previously served at the primary level on Rate Schedule GS. Customers taking service at the secondary level will remain on this rate schedule until their demand falls below 300 kW for 12 consecutive months. This schedule is optional for customers currently billed on Rate Schedule GS and taking service at the secondary level with historical billing demand less than 300 kW.

II. Firm Service Rate

	Small GUS_S Secondary	Small GUP_S Primary
Winter Season - October 1 Through May 31		
Service Charge - per month per meter	\$85.00	\$85.00
Facilities Charge (per 12 months max kW or installed capacity)	\$3.00	\$2.70
Energy Charge		
On-peak ¢/kWh	7.62¢	7.17¢
Off-peak ¢/kWh	5.93¢	5.58¢
Summer Season - June 1 Through September 30		
Service Charge - per month per meter	\$85.00	\$85.00
Facilities Charge (per 12 months max kW or installed capacity)	\$3.00	\$2.70
Demand Charge (\$/monthly super peak max kW)	\$6.00	\$5.50
Energy Charge		
Super-peak ¢/kWh	15.20¢	14.44¢
On-peak ¢/kWh	10.21¢	9.82¢
Off-peak ¢/kWh	8.00¢	7.59¢

III. Rate Option Menu

A. Energy Assistance Program for Non-Profit Agencies

A discount of 15 percent of the service charge, facilities charge, demand charge and energy charge for general service customers directly served by the District, who are certified non-profit agencies as outlined in Sheet No. 1-EAPR-1. The primary function shall be to provide a home (sleeping quarters) for low-income residents, who would otherwise meet the residential Energy Assistance Program Rate guidelines defining low-income if permanently residing in a residence. Given that the primary function is provided by the non-profit agencies, associated facilities that provide daytime services for the homeless (e.g., personal hygiene facilities, laundry facilities, kitchen and/or dining facilities, etc.) may also qualify for the discount. At least 75 percent of the facility square footage must be directly related to meeting these functions..

B. Campus Rates

Campus billing is a condition whereby the customer is served from a common address or industrial campus and has several accounts or services entrances on the same contiguous campus. Campus billing provides for either hardwire or post metering combination of these accounts to a single load shape for billing purposes. This option would have the characteristics of avoiding multiple service charges. The following criteria define the conditions under which campus rates would be granted:

1. Contiguous site.
2. Same legal entity buying and consuming the power at the site.
3. No sub-metering on campus to third parties.
4. Special facilities charges applied to recover additional meter/metering expense.
5. Single point of contact at the place of business both for billing and service questions.
6. All accounts served from a common rate and service voltage.
7. Use of parallel systems for shifting load between different rate offerings will be considered a violation of terms of this agreement. The District shall have the right to corrective billing on a single rate and full reimbursement of waived service charges.
8. This type of service requires interval metering on each service entrance. Customers at the secondary service level will be required to pay the service charge associated with primary service to account for additional costs to the District. A monthly service fee will be charged for the additional costs of multiple site metering.

C. Standby Service Option

This option is for general service customers who operate, in whole or in part, customer-owned generator(s) on their premises and where 1) the output connects to the District's electrical system, and 2) the District must stand ready to provide backup or maintenance service to replace the generator(s).

Time-Of-Use Commercial Rate Schedule GS-TOU3

Standby Service Charge (\$/kW of Contract Capacity per month)

Secondary Distribution Voltage	\$5.15
Primary Distribution Voltage.....	\$4.07
69 kV Voltage.....	\$2.02

“Contract Capacity” is a fixed kilowatt value determined by the rating of the generator unit. In addition to the standby service charge, the District will continue to bill for all applicable charges under this rate schedule. These charges include service and facility charges, as well as demand and energy charges for District-provided power.

Optional Metered Standby Service Charge

The customer may elect to base the standby charge on actual metered generator output in relation to total site load, which may result in a different standby billing than one based on contract capacity. This option requires the customer to pay for the installation and monthly maintenance of special metering equipment at both the generator and the customer’s SMUD meter.

This option uses a metered standby kW instead of contract capacity kW to determine the standby service charge. The formula is as follows:

$$\text{metered standby kW} = (\text{maximum site kW}) - (\text{SMUD billing kW})$$

where:

“maximum site kW” is the highest coincident sum of the hourly generator output, if any, and the SMUD metered load for the billing period, and

“SMUD billing kW” is the maximum hourly load recorded at the customer meter during the previous 12 months.

D. Economic Development Rate Option

This option is applicable to full service customers with load in excess of 299 kW who create a minimum of 50 new jobs and add load at a new or expanded site. For existing customers, only the additional load will qualify for the discount. Eligibility for this discount is limited to customers with Standard Industrial Classifications (SIC) 2000-3999 Manufacturing, 4800-4899 Communications, 7300-7499 Business Services and 8700-8799 Professional Services or the equivalent new NAICS codes. Qualified customers must agree to be a full service customer for five years. Qualified customers will receive a reduction of the service, demand, facilities and energy components of their bill, based on the table below.

Economic Development Discount				
Year 1	Year 2	Year 3	Year 4	Year 5
5%	3%	1%	0%	0%

E. Green Pricing Options

SMUD Community Solar Option

Customers electing this premium service option will receive an additional charge for monthly energy of no less than 1/2¢ and no greater than 2¢ per kWh. Contributions will be held until sufficient funds are available for construction of a solar roof top system.

SMUD Renewable Energy Option

Customers electing this premium power service will receive an additional charge for monthly energy of no less than 1/2¢ and no greater than 2¢ per kWh. SMUD may offer up to three premium rate options representing various blends of renewable resources within the 1/2¢ to 2¢ range. The actual prices will be published each November and will be based on the expected above market cost of renewable resources for the upcoming year. Participation will be limited to the amount of resources that SMUD is able to secure below the 2¢ premium limit.

F. Net Metering for Solar Electric, Wind Turbine, and Biomass Generation Facilities

(Reference Sheet No. 1-GS-2, VI, E, Net Metering...)

IV. Special Metering Charge

For customers who purchase and install communications hardware and software to transfer energy load data from their meter/recorder to a personal computer, the District will charge a monthly service fee to cover maintenance, software support and the annual licensing fee.

V. Conditions

A. Type of Electric Service

Firm Service

Standard service where the District provides a continuous and sufficient supply of electricity.

B. Service Voltage Definition

The following defines the three voltage classes available. The rate shall be determined by the voltage level at which service is taken according to the following:

1. Secondary: This is the voltage class if the definition of “primary” and “69 kV” do not apply to a customer’s service.
2. Primary : This is the voltage class if a customer elects to accept service at a voltage level of 12 kV or 21 kV that is available in the area and the District approves such arrangements for a customer whose monthly demand exceeds 300 kW.

Time-Of-Use Commercial Rate Schedule GS-TOU3

3. 69 kV : This is the voltage class if a customer elects to accept service at a voltage level of 69 kV or higher that is available in the area and the District approves such arrangements for a customer whose monthly demand exceeds 500 kW.

C. Power Factor Adjustment

Accounts with demands of 20 kW or greater may be subject to a power factor adjustment. The District, at its option, may place VAR metering equipment to record reactive power conditions. Effective January 1, 1998, when a customer's monthly power factor falls below 95% leading or lagging, the following billing adjustment will apply:

$$\text{Energy} \times \$0.008 \times \left(\frac{95\%}{\text{Power Factor}} - 1 \right)$$

Energy = the total monthly kWh for the account

Power Factor = the lesser of the customer's monthly power factor or 95%

Customers that contract with SMUD for power factor corrections will have the power factor adjustment waived for the portion that is covered under the contract.

The fee for correction per KVAR.....\$0.2125

KVAR = maximum 12 month KVAR in excess of 33% of kW.

D. Time-of-Use Billing Periods

Super-peak hours include the following:

SUMMER SEASON (ONLY) - JUNE 1 Through SEPTEMBER 30

Weekdays: Between 2:00 p.m. and 8:00 p.m.

On-peak hours include the following:

WINTER SEASON - OCTOBER 1 Through MAY 31

Weekdays: Between 12:00 noon and 10:00 P.M.

SUMMER SEASON - JUNE 1 Through SEPTEMBER 30

Weekdays: Between 12:00 noon and 2:00 p.m. and between 8:00 p.m. and 10:00 p.m.

Off-peak hours include the following:

ALL SEASON - JANUARY 1 Through DECEMBER 31

All day on Saturdays, Sundays and the following holidays:

Martin Luther King Jr.'s Birthday	3rd Mon. in Jan.
President's Day	3rd Mon. in Feb.
Memorial Day	Last Mon. in May
Labor Day	1st Mon. in Sep.
Thanksgiving Day	4th Thu. in Nov.
New Year's Day	January 1
Lincoln's Birthday	February 12
Independence Day	July 4
Columbus Day	October 12
Veterans Day	November 11
Christmas Day	December 25

and all other hours not defined as super-peak or on-peak

E. Billing

PRORATION OF CHARGES

BILLING CIRCUMSTANCE	Service Charge	Demand/Facilities Charge	BASIS OF PRORATION
Less than 27 days or more than 34 days	Yes	Yes	Relationship between the length of the billing period and 30 days.
Winter/Summer season overlap	Yes	Yes	Relationship between the length of the billing period and the number of days winter & summer.

Meter reading for service rendered in accordance with this rate will not be combined for billing purposes unless the convenience of the District is served thereby.

(End)

Large General Service Time-Of-Use Rate Schedule GS-TOU1

I. Applicability

Applicable to single or three phase service, delivered at such nominal voltage as the customer selects from among those which the District designates are available at the customer's premises. This schedule is mandatory for all commercial and industrial (C&I) customers whose monthly demand is 1,000 kW or over for three consecutive months during the preceding 12 months. Customers will remain on this rate schedule until their demand falls below 1000 kW for 12 consecutive months. Customers with installations of commercial thermal energy storage (CTES) 500-999 kW have the options of using either rate schedules GS-TOU1 or GS-TOU2 and must agree to remain on the selected rate schedule for a minimum of 12 months. Service under this schedule is subject to meter availability. The demand for any month will be the maximum 15-minute kW delivery during the month.

II. Firm Service Rate

	Large C&I GUS_L	Large C&I GUP_L	Large C&I GUT_L
	Secondary	Primary	69KV
Winter Season - October 1 Through May 31			
Service Charge - per month per meter	\$85.00	\$85.00	\$225.00
Facilities Charge (per 12 months max kW or installed capacity)	\$3.15	\$3.00	\$2.40
Energy Charge			
On-Peak ¢/kWh	8.02¢	7.61¢	7.31¢
Off-Peak ¢/kWh	6.26¢	5.83¢	5.69¢
Summer Season - June 1 Through September 30			
Service Charge - per month per meter	\$85.00	\$85.00	\$225.00
Facilities Charge (per 12 months max kW or installed capacity)	\$3.15	\$3.00	\$2.40
Energy Charge			
Super-Peak ¢/kWh	12.75¢	10.44¢	10.13¢
On-Peak ¢/kWh	10.11¢	9.46¢	8.84¢
Off-Peak ¢/kWh	7.99¢	7.25¢	7.13¢

III. Rate Option Menu

A. Energy Assistance Program for Non-Profit Agencies

A discount of 15 percent of the service charge, facilities charge and energy charge for large general service customers directly served by the District, who are certified non-profit agencies as outlined in Sheet No. 1-EAPR-1. The primary function shall be to provide a home (sleeping quarters) for low-income residents, who would otherwise meet the residential Energy Assistance Program Rate guidelines defining low-income if permanently residing in a residence. Given that the primary function is provided by the non-profit agencies, associated facilities that provide daytime services for the homeless (e.g., personal hygiene facilities, laundry facilities, kitchen and/or dining facilities, etc.) may also qualify for the discount. At least 75 percent of the facility square footage must be directly related to meeting these functions.

B. Campus Rates

Campus billing is a condition whereby the customer is served from a common address or industrial campus and has several accounts or services entrances on the same contiguous campus. Campus billing provides for either hardwire or post metering combination of these accounts to a single load shape for billing purposes. This option would have the characteristics of avoiding multiple service charges. The following criteria define the conditions under which campus rates would be granted:

1. Contiguous site.
2. Same legal entity buying and consuming the power at the site.
3. No sub-metering on campus to third parties.
4. Special facilities charges applied to recover additional meter/metering expense.
5. Single point of contact at the place of business both for billing and service questions.
6. All accounts served from a common rate and service voltage.
7. Use of parallel systems for shifting load between different rate offerings will be considered a violation of terms of this agreement. The District shall have the right to corrective billing on a single rate and full reimbursement of waived service charges.
8. This type of service requires interval metering on each service entrance. Customers at the secondary service level will be required to pay the service charge associated with primary service to account for additional costs to the District. A monthly service fee will be charged for the additional costs of multiple site metering.

C. Standby Service Option

This option is for general service customers who operate, in whole or in part, customer-owned generator(s) on their premises and where 1) the output connects to the District's electrical system, and 2) the District must stand ready to provide backup or maintenance service to replace the generator(s).

Large General Service Time-Of-Use Rate Schedule GS-TOU1

Standby Service Charge (\$/kW of Contract Capacity per month)

Secondary Distribution Voltage	\$5.15
Primary Distribution Voltage.....	\$4.07
69 kV Voltage.....	\$2.02

“Contract Capacity” is a fixed kilowatt value determined by the rating of the generator unit. In addition to the standby service charge, the District will continue to bill for all applicable charges under this rate schedule. These charges include customer and facility charges, as well as demand and energy charges for District-provided power.

Optional Metered Standby Service Charge

The customer may elect to base the standby charge on actual metered generator output in relation to total site load, which may result in a different standby billing than one based on contract capacity. This option requires the customer to pay for the installation and monthly maintenance of special metering equipment at both the generator and the customer’s SMUD meter.

This option uses a metered standby kW instead of contract capacity kW to determine the standby service charge. The formula is as follows:

$$\text{metered standby kW} = (\text{maximum site kW}) - (\text{SMUD billing kW})$$

where:

“maximum site kW” is the highest coincident sum of the hourly generator output, if any, and the SMUD metered load for the billing period, and

“SMUD billing kW” is the maximum hourly load recorded at the customer meter during the previous 12 months.

D. Economic Development Rate Option

This option is applicable to full service customers with load in excess of 299 kW who create a minimum of 50 new jobs and add load at a new or expanded site. For existing customers, only the additional load will qualify for the discount. Eligibility for this discount is limited to customers with Standard Industrial Classifications (SIC) 2000-3999 Manufacturing, 4800-4899 Communications, 7300-7499 Business Services and 8700-8799 Professional Services or the equivalent new NAICS codes. Qualified customers must agree to be a full service customer for five years. Qualified customers will receive a reduction of the service, demand, facilities and energy components of their bill, based on the table below.

Economic Development Discount				
Year 1	Year 2	Year 3	Year 4	Year 5
5%	3%	1%	0%	0%

E Green Pricing Options

SMUD Community Solar Option

Customers electing this premium service option will receive an additional charge for monthly energy of no less than 1/2¢ and no greater than 2¢ per kWh. Contributions will be held until sufficient funds are available for construction of a solar roof top system.

SMUD Renewable Energy Option

Customers electing this premium power service will receive an additional charge for monthly energy of no less than 1/2¢ and no greater than 2¢ per kWh. SMUD may offer up to three premium rate options representing various blends of renewable resources within the 1/2¢ to 2¢ range. The actual prices will be published each November and will be based on the expected above market cost of renewable resources for the upcoming year. Participation will be limited to the amount of resources that SMUD is able to secure below the 2¢ premium limit.

F. Net Energy Metering for Solar Electric, Wind Turbine, and Biomass Generation Facilities

(see 1-GS-2,VI, E. Net Metering...)

IV. Special Metering Charge

For customers who purchase and install communications hardware and software to transfer energy load data from their meter/recorders to a personal computer, the District will charge a monthly service fee to cover maintenance, software support and the annual licensing fee.

V. Conditions

A. Type of Electric Service

Firm Service

Standard service where the District provides a continuous and sufficient supply of electricity.

B. Service Voltage Definition

The following defines the three voltage classes available. The rate shall be determined by the voltage level at which service is taken according to the following:

1. Secondary : This is the voltage class if the definition of “primary” and “69 kV” do not apply to a customer’s service.

Large General Service Time-Of-Use Rate Schedule GS-TOU1

2. Primary : This is the voltage class if a customer elects to accept service at a voltage level of 12 kV or 21 kV that is available in the area and the District approves such arrangements for a customer whose monthly demand exceeds 300 kW.
3. 69 kV : This is the voltage class if a customer elects to accept service at a voltage level of 69 kV or higher that is available in the area and the District approves such arrangements for a customer whose monthly demand exceeds 500 kW.

C. Power Factor Adjustment

Accounts with demands of 20 kW or greater may be subject to a power factor adjustment. The District, at its option, may place VAR metering equipment to record reactive power conditions. Effective January 1, 1998, when a customer's monthly power factor falls below 95% leading or lagging, the following billing adjustment will apply:

$$\text{Energy} \times \$0.008 \times \left(\frac{95\%}{\text{Power Factor}} - 1 \right)$$

Energy = the total monthly kWh for the account • *Power Factor* = the lesser of the customer's monthly power factor or 95%

Customers that contract with SMUD for power factor corrections will have the power factor adjustment waived for the portion that is covered under the contract.

The fee for correction per KVAR\$0.2125

KVAR = maximum 12 month KVAR in excess of 33% of kW.

D. Time-of-Use Billing Periods

Super-peak hours include the following:

SUMMER SEASON (ONLY) – JUNE 1 Through SEPTEMBER 30

Weekdays: Between 2:00 p.m. and 8:00 p.m.

On-peak hours include the following:

WINTER SEASON - OCTOBER 1 Through MAY 31

Weekdays: Between 12:00 noon and 10:00 P.M.

SUMMER SEASON - JUNE 1 Through SEPTEMBER 30

Weekdays: Between 12:00 noon and 2:00 p.m. and between 8:00 p.m. and 10:00 p.m.

Off-peak hours include the following:

ALL SEASON – JANUARY 1 Through DECEMBER 31

All day on Saturdays, Sundays and the following holidays:

Martin Luther King Jr.'s Birthday	3rd Mon. in Jan.
Presidents Day	3rd Mon. in Feb.
Memorial Day	Last Mon. in May
Labor Day	1st Mon. in Sep.
Thanksgiving Day	4th Thu. in Nov.
New Year's Day	January 1
Lincoln's Birthday	February 12
Independence Day	July 4
Columbus Day	October 12
Veterans Day	November 11
Christmas Day	December 25

and all other hours not defined as super-peak or on-peak

E. Billing

PRORATION OF CHARGES

<u>BILLING CIRCUMSTANCE</u>	<u>Service Charge</u>	<u>Facilities Charge</u>	<u>BASIS OF PRORATION</u>
Less than 27 days or more than 34 days	Yes	Yes	Relationship between the length of the billing period and 30 days.
Winter/Summer crossover	Yes	Yes	Relationship between the length of the billing period and the number of days winter and summer.

Meter reading for service rendered in accordance with this rate will not be combined for billing purposes unless the convenience of the District is served thereby.

(End)

Medium General Service Time-Of-Use Rate Schedule GS-TOU2

I. Applicability

Applicable to single or three phase service, delivered at such nominal voltage as the customer selects from among those which the District designates are available at the customer's premises. This schedule is mandatory for all commercial and industrial (C&I) customers whose monthly demand is 500 to 999 kW for three consecutive months. Customers will remain on this rate schedule until their demand falls below 500 kW for 12 consecutive months. Customers with installations of commercial thermal energy storage (CTES) have the option of using either rate schedule GS-TOU2 or GS-TOU1 and must agree to remain on the selected rate schedule for a minimum of 12 months. The demand for any month will be the maximum 15-minute kW delivery during the month. Service under this schedule is subject to meter availability.

II. Firm Service Rate

	Medium GUS_M Secondary	Medium GUP_M Primary	Medium GUT_M 69kV
Winter Season - October 1 Through May 31			
Service Charge - per month per meter	\$85.00	\$85.00	\$225.00
Facilities Charge (per 12 months max kW or installed capacity)	\$2.25	\$2.00	\$1.60
Energy Charge			
On-Peak ¢/kWh	7.56¢	7.12¢	6.84¢
Off-Peak ¢/kWh	5.88¢	5.54¢	5.41¢
Summer Season - June 1 Through September 30			
Service Charge - Per month per meter	\$85.00	\$85.00	\$225.00
Facilities Charge (per 12 months max kW or installed capacity)	\$2.25	\$2.00	\$1.60
Demand Charge (\$/monthly super peak max kW)	\$5.50	\$5.00	\$0.00
Energy Charge			
Super-Peak ¢/kWh	14.81¢	14.06¢	13.65¢
On-Peak ¢/kWh	10.04¢	9.66¢	9.02¢
Off-Peak ¢/kWh	7.60¢	7.21¢	7.09¢

III. Rate Option Menu

A. Energy Assistance Program for Non-Profit Agencies

A discount of 15 percent of the service charge, facilities charge, demand charge and energy charge for medium general service customers directly served by the District, who are certified non-profit agencies as outlined in Sheet No. 1-EAPR-1. The primary function shall be to provide a home (sleeping quarters) for low-income residents, who would otherwise meet the Residential Energy Assistance Program Rate guidelines defining low-income if permanently residing in a residence. Given that the primary function is provided by the non-profit agencies, associated facilities that provide daytime services for the homeless (e.g., personal hygiene facilities, laundry facilities, kitchen and/or dining facilities, etc.) may also qualify for the discount. At least 75 percent of the facility square footage must be directly related to meeting these functions.

B. Campus Rates

Campus billing is a condition whereby the customer is served from a common address or industrial campus and has several accounts or services entrances on the same contiguous campus. Campus billing provides for either hardware or post metering combination of these accounts to a single load shape for billing purposes. This option would have the characteristics of avoiding multiple service charges. The following criteria define the conditions under which campus rates would be granted:

1. Contiguous site.
2. Same legal entity buying and consuming the power at the site.
3. No sub-metering on campus to third parties.
4. Special facilities charges applied to recover additional meter/metering expense.
5. Single point of contact at the place of business both for billing and service questions.
6. All accounts served from a common rate and service voltage.
7. Use of parallel systems for shifting load between different rate offerings will be considered a violation of terms of this agreement. The District shall have the right to corrective billing on a single rate and full reimbursement of waived service charges.
8. This type of service requires interval metering on each service entrance. Customers at the secondary service level will be required to pay the service charge associated with primary service to account for additional costs to the District. A monthly service fee will be charged for the additional costs of multiple site metering.

C. Standby Service Option

This option is for general service customers who operate, in whole or in part, customer-owned generator(s) on their premises and where 1) the output connects to the District's electrical system, and 2) the District must stand ready to provide backup or maintenance service to replace the generator(s).

Medium General Service Time-Of-Use Rate Schedule GS-TOU2

Standby Service Charge (\$/kW of Contract Capacity per month)

Secondary Distribution Voltage	\$5.15
Primary Distribution Voltage.....	\$4.07
69 kV Voltage.....	\$2.02

“Contract Capacity” is a fixed kilowatt value determined by the rating of the generator unit. In addition to the standby service charge, the District will continue to bill for all applicable charges under this rate schedule. These charges include customer and facility charges, as well as demand and energy charges for District-provided power.

Optional Metered Standby Service Charge

The customer may elect to base the standby charge on actual metered generator output in relation to total site load, which may result in a different standby billing than one based on contract capacity. This option requires the customer to pay for the installation and monthly maintenance of special metering equipment at both the generator and the customer’s SMUD meter.

This option uses a metered standby kW instead of contract capacity kW to determine the standby service charge. The formula is as follows:

$$\text{metered standby kW} = (\text{maximum site kW}) - (\text{SMUD billing kW})$$

where:

“maximum site kW” is the highest coincident sum of the hourly generator output, if any, and the SMUD metered load for the billing period, and

“SMUD billing kW” is the maximum hourly load recorded at the customer meter during the previous 12 months.

D. Economic Development Rate Option

This option is applicable to full service customers with load in excess of 299 kW who create a minimum of 50 new jobs and add load at a new or expanded site. For existing customers, only the additional load will qualify for the discount. Eligibility for this discount is limited to customers with Standard Industrial Classifications (SIC) 2000-3999 Manufacturing, 4800-4899 Communications, 7300-7499 Business Services and 8700-8799 Professional Services or the equivalent new NAICS codes. Qualified customers must agree to be a full service customer for five years. Qualified customers will receive a reduction of the service, demand, facilities and energy components of their bill, based on the table below.

Economic Development Discount				
Year 1	Year 2	Year 3	Year 4	Year 5
5%	3%	1%	0%	0%

E. Green Pricing Options

SMUD Community Solar Option

Customers electing this premium service option will receive an additional charge for monthly energy of no less than 1¢ and no greater than 2¢ per kWh. Contributions will be held until sufficient funds are available for construction of a solar roof top system.

SMUD Renewable Energy Option

Customers electing this premium power service will receive an additional charge for monthly energy of no less than 1/2¢ and no greater than 2¢ per kWh. SMUD may offer up to three premium rate options representing various blends of renewable resources within the 1/2¢ to 2¢ range. The actual prices will be published each November and will be based on the expected above market cost of renewable resources for the upcoming year. Participation will be limited to the amount of resources that SMUD is able to secure below the 2¢ premium limit.

F. Net Metering for Solar Electric, Wind Turbine, and Biomass Generation Facilities

(Reference Sheet No. 1-GS-2, VI, E, Net Metering...)

IV. Special Metering Charge

For customers who purchase and install communications hardware and software to transfer energy load data from their meter/recorders to a personal computer, the District will charge a monthly service fee to cover maintenance, software support and the annual licensing fee.

V. Conditions

A. Type of Electric Service

Firm Service

Standard service where the District provides a continuous and sufficient supply of electricity.

Medium General Service Time-Of-Use Rate Schedule GS-TOU2

B. Service Voltage Definition

The following defines the three voltage classes available. The rate shall be determined by the voltage level at which service is taken according to the following:

1. Secondary - This is the voltage class if the definition of "primary" and "69 kV" do not apply to a customer's service.
2. Primary - This is the voltage class if a customer elects to accept service at a voltage level of 12 kV or 21 kV that is available in the area and the District approves such arrangements for a customer whose monthly demand exceeds 300 kW.
3. 69 kV - This is the voltage class if a customer elects to accept service at a voltage level of 69 kV or higher that is available in the area and the District approves such arrangements for a customer whose monthly demand exceeds 500 kW.

C. Power Factor Adjustment

Accounts with demands of 20 kW or greater may be subject to a power factor adjustment. The District, at its option, may place VAR metering equipment to record reactive power conditions. Effective January 1, 1998, when a customer's monthly power factor falls below 95% leading or lagging, the following billing adjustment will apply:

$$\text{Energy} \times \$0.008 \times \left(\frac{95\%}{\text{Power Factor}} - 1 \right)$$

Energy = the total monthly kWh for the account

Power Factor = the lesser of the customer's monthly power factor or 95%

Customers that contract with SMUD for power factor corrections will have the power factor adjustment waived for the portion that is covered under the contract.

The fee for correction per KVAR\$0.2125
 KVAR = maximum 12 month KVAR in excess of 33% of kW.

D. Time-of-Use Billing Periods

Super-peak hours include the following:

SUMMER SEASON (ONLY) - JUNE 1 Through SEPTEMBER 30
 Weekdays: Between 2:00 pm. and 8:00 p.m.

On-peak hours include the following:

SUMMER SEASON - JUNE 1 Through SEPTEMBER 30
 Weekdays: Between 12:00 noon and 2:00 p.m. and between 8:00 p.m. and 10:00 p.m.
 WINTER SEASON - OCTOBER 1 Through MAY 31
 Weekdays: Between 12:00 noon and 10:00 p.m.

Off-peak hours include the following:

ALL SEASON - JANUARY 1 Through DECEMBER 31

All day on Saturdays, Sundays and the following holidays:

Martin Luther King Jr.'s Birthday	3rd Mon. in Jan.
President's Day	3rd Mon. in Feb.
Memorial Day	Last Mon. in May
Labor Day	1st Mon. in Sep.
Thanksgiving Day	4th Thu. in Nov.
New Year's Day	January 1
Lincoln's Birthday	February 12
Independence Day	July 4
Columbus Day	October 12
Veterans Day	November 11
Christmas Day	December 25

and all other hours not defined as super-peak or peak

E. Billing

PRORATION OF CHARGES

BILLING CIRCUMSTANCE	Service Charge	Facilities Charge	BASIS OF PRORATION
Less than 27 days or more than 34 days	Yes	Yes	Relationship between the length of billing period and 30 days.
Winter/Summer crossover	Yes	Yes	Relationship between the length of billing period and the number of days of winter and summer.

Meter reading for service rendered in accordance with this rate will not be combined for billing purposes unless the convenience of the District is served thereby.

(End)

Street Lighting Service Rate Schedule SLS

Customer-owned and maintained — Rate Category SL_COM
 Customer-owned, District-maintained — Rate Category SL_CODM
 District-owned and maintained — Rate Category SL_DOM

I. Applicability

To outdoor lighting service facilities for:

1. Streets, highways, and bridges
2. Public parks
3. Elementary schools, secondary schools, and colleges

II. Character of Service

Alternating current; frequency of approximately 60 hertz; single phase; at voltages specified by the District. Lamps shall be controlled to burn from dusk to dawn each night so as to give approximately 4,000 hours of lighting service annually.

III. Billing

Billing periods for nonstandard lengths will be billed as follows:

- a. Service connected for 15 or more days during a billing period will be billed for a full month's service.
- b. Service connected for 1-14 days during a billing period will not be billed for such partial month's service.
- c. Service discontinued for 15 or more days during a billing period will not be billed for such partial month's service.
- d. Service discontinued for 1-14 days during a billing period will be billed for a full month's service.

IV. Customer-owned and maintained — Rate Category SL_COM

Where the customer owns and maintains the street lighting equipment, the District will furnish energy and switching and the charge will be based on the connected load served and will be 1.97¢ per watt month.

The manufacturer's rating in watts (including all auxiliary equipment) will be used as connected load.

When a customer requests that the District finance as well as install street lighting equipment, provisions of Rule and Regulation 2 apply.

V. Customer-owned, District-maintained — Rate Category SL_CODM

Where the customer owns the street lighting equipment and requires the District to supply energy and switching and, in addition, provide for the lamp servicing and maintenance, the charges will be as follows:

Nominal Lamp Rating (Energy, Switching & Maintenance)	Monthly Charge per Lamp (Base Rate)
<u>Mercury -vapor</u>	
175 watts	\$4.76
400 watts	\$6.91
<u>Sodium -vapor</u>	
100 watts	\$4.76
200 watts	\$6.91

No additional service to mercury-vapor lights will be provided in areas not now lighted by mercury-vapor lights after August 1, 1978.

Monthly charges cover all costs of energy, switching and maintenance of lamps, refractors and ballasts.

This service is restricted to District-approved locations.

When a customer requests that the District finance as well as install street lighting equipment, provisions of Rule and Regulation 2 apply.

VI. District-owned and maintained — Rate Category SL_DOM

Where the customer desires the District to install, operate, and maintain the entire street lighting equipment, such service will be rendered to lamps of sizes and types as indicated below and the total charge per lamp shall be as shown.

Street Lighting Service Rate Schedule SLS

Nominal Lamp Rating	Monthly Charge per Lamp
<u>Incandescent*</u>	<u>(Base Rate)</u>
92 watts	\$5.35
189 watts	\$7.43
295 watts	\$7.43
405 watts	\$11.40
620 watts	\$13.95
860 watts	\$18.30
<u>Mercury-vapor*</u>	
175 watts for lamp plus 30watts for auxiliary equipment	\$10.55
400 watts for lamp plus 55 watts for auxiliary equipment	\$18.96
<u>Sodium-vapor</u>	
100 watts for lamp plus 17watts for auxiliary equipment	\$10.55
200 watts for lamp plus 28watts for auxiliary equipment	\$18.96

* the District will install no additional incandescent lamps or mercury-vapor lights.

These charges are based upon the installation of street lighting fixtures of a design specific by the District and mounted by means of varying length brackets affixed to existing wood poles that are used to carry distribution system circuits. When any of the following additional or alternative facilities are installed upon customer's request, the following additional monthly charges will be made, except where such additional facilities were installed on or before February 1, 1950:

Luminaire brackets, longer than six feet, per pole installed	\$0.55
Additional standard utility pole, per pole installed	\$1.78
Additional 20-25-foot steel, laminate, concrete or fiberglass pole, per pole installed	\$4.76
Additional 30-35-foot steel, laminate, concrete or fiberglass pole, per pole installed	\$10.22
Glare shields, per luminaire installed	\$0.70

PRIMARY POLES, TRANSFORMER AND SECONDARY LINE EXTENSIONS

Primary poles, per pole per month	\$29.34
Transformers, per transformer per month	\$16.13
Secondary line extension, per span per month (No charge for the first 250 feet)	\$13.62

RELOCATIONS AND CHANGES

District will, at customer's request, relocate existing equipment provided customer reimburses District for net expense to District incurred in connection therewith, including appropriate engineering and general expense.

District will, at customer's request, replace existing equipment with new equipment prior to expiration of the existing equipment's service life, provided customer pays to the District an amount equal to the unrecovered cost, less salvage value, of the existing equipment to be retired and executes a five-year contract for service effective with installation of such new equipment.

NEW SERVICE

New service will be for an initial contract term of five years effective with installation of the service. If service is terminated before the contract term, customer will be responsible for an amount equal to the unrecovered cost, less salvage value, of the equipment installed.

(End)

Traffic Signal Service Rate Schedule TSS (Closed)

I. Applicability

To electric service for pedestrian and vehicular traffic signal units, together with related control devices where the mounting standards, control supports, and signal equipment are owned and maintained by the customer.

II. Character of Service

Alternating current; frequency of approximately 60 hertz; single phase; at secondary voltages specified by the District.

III. Rate (Rate Category SL_TSF)

	Monthly Charges
For units not larger than 70 watts of connected load and not exceeding three lamps per unit, the monthly charge per unit per month:	\$2.85
For units larger than 70 watts of connected load and not exceeding three lamps per unit, the monthly charge per lamp per watt the total charge per month being not less than	1.62¢ \$2.85

IV. Billing Provisions

1. CONNECTED LOAD

"Connected load" as used in this rate shall be the sum of the capacities of all of the customer's equipment that may be operated from the District's lines at the same time.

2. BILLING PERIODS OF NONSTANDARD LENGTH

Billing periods of nonstandard length will be billed as follows:

- a. Service connected for 15 or more days during a billing period will be billed for a full month's service.
- b. Service connected for 1-14 days during a billing period will not be billed for such partial month's service.
- c. Service discontinued for 15 or more days during a billing period will not be billed for such partial month's service.
- d. Service discontinued for 1-14 days during a billing period will be billed for a full month's service.

V. Future Applications

No additional service will be provided by the District under Rate Schedule TSS. Upon notification by the District and installation of metering facilities, individual accounts will be transferred from Rate Schedule TSS to Rate Schedule TC ILS .

**Traffic Control
Intersection Lighting Service
Rate Schedule TC ILS**

I. Applicability

To electric service for pedestrian and vehicular traffic signal units, together with related control devices and associated intersection lighting where the mounting, standards, control supports, signal equipment, and luminaires are owned and maintained by the customer.

II. Character of Service

Alternating current; frequency of approximately 60 hertz; single phase; at secondary voltages specified by the District; and at service points mutually agreed upon between the customer and the District. Lamps for intersection lighting shall be controlled to burn from dusk to dawn each night so as to give approximately 4,000 hours of lighting service annually.

III. Rate (Rate Category TS_F, TS)

Service Charge:

For metering point per month or portion thereof \$2.61 per month

Plus

Energy Charge:

All kWh per month 7.31¢ per kWh

IV. Billing

For billing periods of less than 27 days or more than 34 days, customer charges will be prorated on the basis of the relationship between the length of the billing period and 30 days. No pro-ration will be made when the total period of service is less than 30 days.

(End)

Outdoor Lighting Service Rate Schedule NLGT

I. Applicability

To District-owned and maintained outdoor overhead lighting service where Street Lighting Service Rate Schedule SLS does not apply.

Service furnished under this schedule may be discontinued at any location where the District's overhead distribution facilities are relocated or converted to underground distribution facilities.

II. Character of Service

Alternating current; frequency of approximately 60 hertz; 120 volt; single phase. Lamps shall be approximately 175-watt mercury-vapor, 100-watt sodium vapor, 400-watt mercury vapor or 200-watt sodium vapor with luminaire and bracket, as specified by the District, and shall be supported on District-owned poles which are used to carry distribution system circuits used for other District purposes, and shall be at locations approved by the District. Lamps will be controlled to burn from dusk to dawn each night so as to give approximately 4,000 hours of lighting service annually.

III. Rate

	Monthly Charge per Lamp NLGT (Base Rate)
175-watt Mercury-Vapor Lamp	\$10.84
100-watt Sodium-Vapor Lamp	\$10.84
400-watt Mercury-Vapor Lamp	\$18.18
200-watt Sodium-Vapor Lamp	\$18.18

No additional mercury-vapor lamps will be installed by the District after August 1, 1978.

IV. Billing

Where new facilities are required to service an applicant under this rate, the District may require a contract for service for a period of not to exceed three years.

PRORATION OF CHARGES

BILLING CIRCUMSTANCE	Energy Charge	BASIS OF PRORATION
Less than 27 days		Relationship between the length of the billing period and 30 days.
or more than 34 days	Yes	

V. Lamp Servicing and Relocations

Upon receipt of notice from customer of failure of light to operate as scheduled, the District will, within a reasonable period of time, make the necessary repairs.

The District will, at customer's request, relocate existing outdoor lighting service equipment, provided the customer reimburses the District for the relocation cost.

(End)

Definitions

Rule and Regulation 1

Applicant

A person, corporation, or agency in whose name service is rendered for a particular account as evidenced by the signature on the application, by contract or by verbal request for service. In the absence of a signed instrument, a customer will be identified by the receipt and payment of bills regularly issued in the name of the person, corporation, or agency or regardless of the identify of the actual user(s) of the service.

Connected Load

The sum of the rated capacities of all the customer's equipment that can be simultaneously served by energy supplied by the District.

Customer

The person, corporation or agency in whose name service is rendered for a particular account as evidenced by the signature on the application, contract or verbal request for service. In the absence of a signed instrument, a customer shall be identified by the receipt of bills regularly issued in the name of the person, corporation or agency or the actual user(s) of the service.

Customer-owned Generation

An electric generator, owned by the customer, interconnected with, and operated in parallel with, the District's facilities.

Heat Pump

A unit for space conditioning which is capable of heating by refrigeration and which may or may not include the capability for cooling. Heat pumps may utilize auxiliary resistance heating to the extent required by standard design techniques.

Power Factor

Power factor is the percent of total power delivery (KVA) which does useful work. For billing purposes, power factor is defined as the ratio of active power (KW) to apparent power (KVA). The formula to determine power factor is:

$$\text{Power Factor} = \frac{\text{KW}}{\text{KVA}}$$

where: $\text{KVA}^2 = \text{KVAR}^2 + \text{KW}^2$ KW= maximum monthly billing demand KVAR = maximum monthly billing KVAR demand

Power Theft

Energy Theft – The use or receipt of the direct benefit of all or a portion of electrical service with knowledge of, or reason to believe that, a diversion, tampering, or unauthorized connection existed at the time of the use or that the use or receipt was without the authorization or consent of the District.

Diversion – To change the intended course of electricity without the authorization or consent of the District.

Tampering – To rearrange, injure, alter, interfere with, or otherwise prevent from performing normal or customary function, any property owned by the District for the purpose of providing utility services.

Unauthorized Connection – To make, or cause to be made, any connection or reconnection with property owned or used by the District to provide utility service without the authorization or consent of the District.

Unauthorized Use – Unauthorized use is defined as the use of energy in noncompliance with the District's normal billing practices or applicable law. It includes, but is not limited to meter tampering, unauthorized connection or reconnection, theft, fraud, and intentional use of energy whereby the District is denied full compensation for electric service provided.

Rate Charges

Charges in the rates may include the following:

Customer Charge – That portion of the charge for service which is a fixed amount without regard to connected load, demand or energy consumption in accordance with the rate.

Demand Charge – That portion of the charge which varies with the billing demand in accordance with the rate.

Energy Charge – That portion of the charge for service which varies with the quantity of energy consumed in accordance with the rate.

Minimum Charge – The least amount for which service will be rendered in accordance with the rate.

Service Charge – That portion of the charge for service which is a fixed amount based on connected load in accordance with the rate.

Standby Charge – That portion of the charge for standby service which is a fixed amount based on the maximum load the District stands ready to supply in accordance with the rate.

Rating of Installations

Such ratings shall be established by the higher of the manufacturer's name-plate rating or actual test, at the option of the District.

Resistance Heating

Any apparatus employing the resistance of conductors to transform electric energy into heat.

(End)

Service Conditions Rule and Regulation 2

A. Description of Service

1. Subject to conditions listed below, single-phase or three-phase service will be supplied as required by the customer in accordance with appropriate rates.
 - a. Voltage supplied will be designated by the District.
 - b. Single-phase service will not be supplied to customers whose metered demand exceeds 100 kVA.
 - c. Three-phase service will not be supplied to motor loads of less than 7-1/2 kW, except where three-phase secondary facilities are available at applicant's service location, or where applicant for three-phase service contributes the net estimated installed cost of such facilities (exclusive of meter and service) or such part of the net estimated installed costs as the District may consider equitable.
2. Alternating current service of approximately 60 hertz frequency will be supplied at the following nominal voltages:

<u>Secondary Voltages</u>		<u>Primary Voltages</u>	<u>69 kV Voltage</u>
<u>Single-Phase</u>	<u>Three-phase</u>	<u>Three-Phase</u>	<u>Three-Phase</u>
120	208Y/120	12,000Δ	69,000Δ
120/240	240Δ/120	20,800Δ	
208Y/120	480Δ	20,800Y/12,000	
	480Y/277		
	2400Δ		
	4160Δ		
	4160/2400		

3. The District will endeavor to maintain its frequency and its service voltage within reasonable limits, but does not guarantee same.

B. General Conditions

1. INTERFERENCE WITH QUALITY OF SERVICE

If in the District's opinion there is an interference with the quality of service supplied to neighboring customers, resulting from the customer's noncompliance with any of the provisions of this rule, the District may require the customer to provide at his own expense such special or additional equipment as is required, or District may provide such equipment if customer pays the net estimated installed cost of such equipment. In lieu of payment of such estimated net cost, the customer may, at District's option, execute a contract providing for the rental of such equipment under terms and conditions satisfactory to the District. If customer refuses to rent, or to provide his own corrective equipment, or to reimburse the District for the cost of such additional or special equipment as is required to eliminate interference with the quality of service to neighboring customers resulting from his operations, District may refuse or discontinue his service.

2. PHASE BALANCING

Where three-wire single-phase, or three-wire three-phase, or four-wire combination single-phase and three-phase service is supplied, the load must be balanced as nearly as practicable between the two sides or several phases, respectively. In no case is the load on one side of a three-wire single-phase service to be greater than twice that on the other, nor the load on any one phase of a three-phase star service greater than twice that on the other phase.

3. CLEAR WORKING SPACE AT ELECTRICAL EQUIPMENT

a) For the safe operation and maintenance of high voltage electrical equipment, an eight (8) foot clear area must be maintained in front of all operable sections of the equipment.

b) Corrective Action: Customer or owner shall, at customer's or owner's expense, either correct the access or clearance infractions or pay the District its total estimated cost to correct the access or clearance or to relocate its facilities to a new location which is acceptable to the District. Customer or owner shall also be responsible for the expense to relocate any equipment which customer or owner owns and maintains. Failure to comply with corrective measures within a reasonable time may result in discontinuance of service.

(Continued)

Service Conditions Rule and Regulation 2 *(Continued)*

C. Special Conditions

1. VOLTAGE CONTROL WITHIN SPECIAL LIMITS

Where customer desires voltage control within unusually close limits, the District may require customer to provide at his own expense such special or additional equipment as required, or the District may provide such equipment if customer pays the net estimated installed cost of such equipment.

2. WELDERS

District will serve, at the applicable rate and without additional compensation, welding equipment of the limited input type which conforms to the standards of the National Electrical Manufacturers Association (NEMA), and which has a maximum input (primary) current rating not exceeding 12 amperes at 120 volts or 50 amperes at 208 or 240 volts.

Welding equipment which does not meet the standards of NEMA, or which exceeds in input rating 12 amperes at 120 volts or 50 amperes at 208 or 240 volts, will also be served at the applicable rate without additional charge, provided that service to such welders has no detrimental effect on service to neighboring customers.

3. MOTOR GENERATOR SETS AND RECTIFIERS

Motor generator sets and rectifiers shall be considered as power apparatus and shall be rated, for the purpose of determining charges, on the manufacturer's input rating of the set or, at District's option, by actual test.

4. MOTOR PROTECTIVE DEVICES

All motor installations shall have protective apparatus or construction within the motor to accomplish equivalent protection as follows:

- a. Motors that cannot be safely subjected to full-rated voltage at starting shall be provided with a device to insure that on failure of voltage, such motors will be disconnected from the line.
- b. Suitable overload and overcurrent running protection shall be provided for each motor so as to disconnect the motor from the line to protect it from damage caused by overheating.
- c. Phase reversal and open-phase protection is recommended on all three-phase installations and is required for such installations involving elevators, hoists, and similar equipment to disconnect motors from the line in the event of phase reversal or opening of one phase.

(Continued)

Service Conditions Rule and Regulation 2 *(Continued)*

C. Special Conditions *(Continued)*

5. MOTOR STARTING LIMITATIONS

a. Single-phase

(1) Automatically controlled, single-phase motorized equipment (except as provided in paragraphs (2) and (3) below) shall be equipped with motors having locked-rotor currents not in excess of the following:

- (a) 50 amperes at 120 volts
- (b) 80 amperes at 208 volts
- (c) 100 amperes at 240 volts.

(2) Manually controlled, single-phase motorized equipment (except as provided in paragraph (3) below) shall be equipped with motors having locked-rotor currents not in excess of the following:

- (a) 100 amperes at 120 volts
- (b) 160 amperes at 208 volts
- (c) 200 amperes at 240 volts.

Room air conditioners, because of their long operating cycles and infrequent starts even though automatically controlled, will be governed by the limitations of this paragraph.

(3) Motors having locked-rotor currents in excess of those allowed by paragraphs (1) and (2) above may be permitted upon written approval of the District.

b. Three-phase

(1) Automatically controlled three-phase motors shall comply with all applicable NEMA (National Electrical Manufacturers Association) electrical standards and shall have maximum locked-rotor currents not in excess of the following:

- (a) 777 amperes at 208 volts
- (b) 673 amperes at 240 volts
- (c) 337 amperes at 480 volts.

Maximum permissible current values listed apply to an installation of a single motor. (These values permit, in general, a 50-hp NEMA standard motor.)

(2) Manually controlled three-phase motors shall comply with all applicable NEMA electrical standards and shall have maximum locked-rotor currents not in excess of the following:

- (a) 1554 amperes at 208 volts*
- (b) 1346 amperes at 240 volts*
- (c) 673 amperes at 480 volts
- (d) 135 amperes at 2400 volts.

*Operation of motors rated 60 hp or larger is not recommended at these voltages.

Maximum permissible current values listed apply to an installation of a single motor. (These values permit, in general, a 100 hp NEMA standard motor.)

(Continued)

Service Conditions Rule and Regulation 2 *(Continued)*

C. Special Conditions *(Continued)*

5. MOTOR STARTING LIMITATIONS *(Continued)*

b. Three phase *(Continued)*

- (3) Three-phase motors, to be used where large loads or special conditions exist, may, upon approval of the District, have locked-rotor currents in excess of those allowed by paragraphs (1) and (2) above.
- (4) Motors having maximum locked-rotor currents exceeding those stated in paragraphs (1) and (2) above may be operated if used in conjunction with current-limiting devices designed to limit the starting currents to the above specified maximum values.
- (5) Current-limiting devices may be omitted on the smaller motors of a group installation when their omission will not result in a starting current in excess of the allowable starting current of the largest motor of the group.
- (6) The customer should make certain that his own electrical system is capable of handling the locked-rotor currents permitted without excessive voltage drop.

6. POWER FACTOR CORRECTION

In the case of neon, luminous, gaseous or mercury vapor lamps or tubes, electric welders, and other devices having low power factors, the customer may be required to provide, at his own expense, power factor corrective equipment to increase the power factor of any such devices to not less than 90%.

7. SPECIAL VOLTAGE REQUIREMENTS

- a. Single-phase, two-wire, 120-volt service will not be supplied where more than two 15-ampere branch circuits are connected to such service.
- b. Individual three-phase motors less than 50 hp (or less than 30 hp when used for agricultural or drainage purposes) or groups of such motors less than 150 hp will generally be supplied at 208 or 240 volts.

8. HARMFUL WAVE FORM

Customer shall not operate equipment that superimposes a current of any frequency or wave form upon the District's system, or draws current from the District's system of a harmful wave form, which causes interference with the District's operations, or the quality of service to other customers, or interference to communication facilities. Harmful wave forms shall be defined as those that exceed IEEE Standard 519-1992 (IEEE Recommended Practices and Requirements for Harmonic Control in Electric Power Systems).

9. TRANSFER SWITCH EQUIPMENT

In the case where the customer receives power from multiple sources, the District shall inspect all transfer equipment before SMUD service is allowed. The customer shall design, install, operate and maintain the transfer switch equipment according to the District's Protection Practices No. DPP-601 or No. DPP-602. Transfer switch equipment shall be accessible at all times to District personnel.

D. Special Facilities

1. The District normally installs only those standard facilities which it deems are necessary to provide regular service in accordance with the applicable rate schedules, rules and regulations. Where a customer requests the District to install special facilities and the District agrees to make such an installation, the additional costs thereof shall be borne by the customer, including such continuing service costs as may be applicable.
2. Special facilities are (a) facilities or value added services equipment requested by a customer which are in addition to or in substitution for standard facilities which the District would normally provide for delivery of service at one point, through one meter, at one voltage class under its rate schedules, rules and regulations, or (b) a pro rata portion of the facilities or value added services requested by a customer, allocated for the sole use of such customer, which would not normally be allocated for such sole use. Unless otherwise provided by the District's applicable rates, rules and regulations, special facilities will be installed, owned and maintained or allocated by the District as an accommodation to the customer only if acceptable for operation by the District and the reliability of service to the District's other customers is not impaired.

(Continued)

Service Conditions Rule and Regulation 2 (Continued)

D. Special Facilities (Continued)

3. Special facilities will be installed under the terms and conditions of a contract. Such contract will include, but is not limited to, the following terms and conditions:

a. The customer shall pay a monthly cost-of-service charge for the special facilities.

Special Facilities Rates

Applied to non-standard portion of electrical equipment, facilities, redundant service, customer-requested redundancy, vaults, or service upgrades.					
Select One:	<input type="checkbox"/> Option One		<input type="checkbox"/> Option Two		<input type="checkbox"/> Option Three
	Monthly lease with deposit		10-year renewable lease	One-time payment	
Average Life	Deposit per \$1,000	Monthly Cost per \$1,000	Cost at beginning of each 10th year per \$1,000	Cost per \$1,000	
10-14	\$200	\$24.15	\$2,148	\$4,375	
15-19	\$150	\$17.25	\$1,534	\$3,125	
20+	\$100	\$12.94	\$1,151	\$2,344	
Transmission 20+	\$100	\$11.64	\$1,036	\$2,109	

- b. Where existing facilities are allocated for a customer's use as special facilities, the customer shall pay a monthly cost-of-service charge. This monthly cost-of-service charge shall be assessed on the estimated installed cost of that portion of the existing facilities which is allocated to the customer.
- c. All monthly service charges shall be reviewed when changes occur in the District's cost of providing such service.
- d. The calculation of the annual special facilities charge will be based on the replacement cost new of the customer specific equipment. This includes direct labor, departmental loadings, benefit loadings, and related design work. The replacement cost new is multiplied by the annual economic carrying charge corresponding to the appropriate expected service life. This resulting value is divided by 12 to create monthly payments. This rate may be changed in response to changes in the cost of capital or fluctuations in the replacement cost new of any piece of equipment.
- e. Depending on the financial viability and credit-worthiness of the firm, commercial customers will also be required to advance between 10 percent and 75 percent of the original installed cost of new equipment as determined by the District.
- f. Commercial and residential developers will remain subject to all conditions covered in Rules 15 and 16.
- g. Previously installed services that exceed standard installation will be reviewed by the District and the customer. The customer will elect the desired service requirements when services exceed standards. Consideration will be given for any previous customer contributions in reaching an agreeable monthly service rate for special facilities.

(End)

Application for Service Rule and Regulation 3

A. Information Required

The District may require each prospective customer when applying for service to furnish the following information:

1. Legal name of applicant.
2. Location of premises.
3. Date applicant will be ready for service.
4. Whether the premises have been heretofore supplied.
5. Purpose for which service is to be used, with description of appliances to be served.
6. Address to which bills are to be mailed or delivered.
7. Whether applicant is owner, agent, or tenant of premises.
8. Rate desired, if optional rate is available.
9. Information to establish credit of applicant, including a social security number or other form of legal identification.
10. Such other information as the District may reasonably require.

The application is merely a request for service and does not in itself bind the District to serve except under reasonable conditions, nor does it bind the customer to take service for a longer period than the minimum requirements of the rates, rules and regulations of the District. The District may disconnect or refuse to provide service to the applicant if the acts of the applicant or the conditions upon his/her premises indicate that false, incomplete, or inaccurate information was provided to the District. The District shall provide the applicant the reason for such refusal. If the customer refuses to provide a social security number, or fails to provide verifiable identification, a deposit may be required as provided in Rule and Regulation 6, Section G.

B. Individual Liability for Joint Service

Where two or more persons join in one written or oral application or contract for electric service, in person or by telephone, such persons shall be jointly and severally liable thereunder and shall be billed by means of a single periodic bill mailed to the person designated on the application to receive the bill. Whether or not the utility obtained a joint application, where two or more adults are living in the same residence, they shall be jointly and severally liable for bill for electric energy supplied.

C. Change of Customer's Apparatus or Equipment

In the event that the customer shall make any material change either in the amount or character of the electrical equipment installed upon his premises to be supplied with electric energy by the District, the customer shall immediately give the District written notice of this fact.

D. Service to Annexation Customers

Customers owning existing electric facilities which comply with Pacific Gas and Electric Company Service rules and regulations, at the time of annexation, will be accepted for service by the District without modification of their facilities. Customers whose facilities do not comply with Pacific Gas and Electric Company service rules and regulations, at the time of annexation, may be required to modify those facilities to meet the District's minimum qualifications. Any change made to facilities after annexation must conform to the District's service rules and regulations.

E. Conditions of Service

By applying for or accepting service from the District, a customer agrees to abide by all of the rates, rules and regulations of the District concerning such service, to provide any rights of way across his own property that the District may deem necessary to supply such service, and to cooperate with the District in its construction and maintenance of the facilities needed for such service. The District may bill the customer for any costs resulting from the customer's failure to comply with the provisions of this paragraph.

(End)

Contracts Rule and Regulation 4

Contracts will not be required as a condition precedent to service except:

1. As may be required by conditions set forth in the regular schedule of rates adopted by the District.
2. In the case of electric service of a temporary or speculative nature, a contract may be required for a period not to exceed three years.
3. In the case of street lighting service, a contract may be required for a period not to exceed five years.
4. In the case of seasonal customers whose monthly use of energy during the year varies greatly and from whom contracts are not otherwise required, a contract may be required for a period of one year.
5. Where customer's power requirements are unusually large and an economic hardship may be imposed upon the District, a contract may be required for a period which, in District's judgment, is commensurate with the size of the power requirements involved.
6. Where the customer desires the District to connect to a customer-owned generation facility which is rated larger than 100 kw.

(End)

Billing, Payment of Bills and Credit Rule and Regulation 6

A. Billing Period

Customer bills will normally be rendered for scheduled billing periods of approximately one month. Bills for electric service will be based upon meter readings or upon estimates as provided in section B hereof.

B. Metering for Billing Purposes and Use of Estimated Consumption

Readings of two or more meters will not be combined for billing purposes unless the convenience of the District is served thereby.

Where the monthly consumption of energy is consistently small or can be predetermined with reasonable accuracy by reference to the capacity of equipment served and the hours of operations, District may, with customer's consent, calculate energy consumed in lieu of providing metering equipment. The calculated energy consumption will be billed at the average of winter season and summer season first tier energy charges. (Rate Category GFN).

Where metering equipment fails or an accurate meter reading is not obtained, the District may estimate demand or energy, or both, for the period of service involved and use such estimates in computing a bill, in accordance with Rule and Regulation 17.

C. Payment of Bills

All customer bills are payable upon presentation to the customer. Payment shall be made at the office of the District, at any of the pay stations which the District may designate, or to any of its duly authorized collectors. Customer bills which remain unpaid 19 business days from the date of presentation will be regarded as delinquent. The District may thereafter discontinue service for unpaid electric service bills in accordance with Rule and Regulation 11 or take such other appropriate action as may be necessary. Payments are first applied to all electric service bill amounts owing and then to non-electric bill amounts. Special bills or bills rendered to persons discontinuing service or vacating the premises shall be paid on presentation.

D. Payment of Delinquent Bills Required Before Service is Supplied

Service may be refused or discontinued pursuant to Rule and Regulation 11 until all unpaid charges for electric service to applicant at all locations have been paid or have otherwise been discharged, or have been barred by the statute of limitations, except that residential service may not be refused or discontinued because of nonpayment of bills for other classes of service or non-electric bill amounts.

E. Establishment of Credit

Residential customers:

Residential credit will be deemed established without benefit of a cash deposit, pursuant to Rule and Regulation 3, Section A, until such time as the customer fails to maintain credit to the District's satisfaction.

Commercial customers may:

1. Furnish a bond satisfactory to the District, or
2. pay a cash deposit, or
3. provide evidence of previous commercial utility service in the exact same name with either the District or another gas or electric utility within the last 12 months where credit was established and maintained within the District's criteria. If such evidence is not supplied within ten days of the service start date or if the District determines that it is not accurate, the District can require a deposit as a condition of further service.

F. Maintenance of Credit

A customer's credit may be deemed to be no longer maintained to the District's satisfaction if such customer has two or more delinquent bill payments during the last 12 months, or if the service has been disconnected for nonpayment. Identification information, including social security numbers, of customers with delinquent accounts may be reported to credit reporting agencies as part of the customary collection practice.

A customer receiving service may be required to re-establish credit in the event his conditions of service or conditions affecting his credit have materially changed.

(Continued)

Billing, Payment of Bills and Credit Rule and Regulation 6 *(Continued)*

G. Deposit Required Where Credit Not Established or Maintained

Where a customer or an applicant for service does not satisfactorily establish and maintain credit in accordance with Sections E and F, a deposit may be required as security for the payment of bills. District may, in accordance with Rule and Regulation 11, discontinue service if customer fails to make such deposit as requested by the District. The amount of such deposit shall not exceed twice the highest estimated bill for customer's regular billing period but shall not be less than \$100.

H. Deposit Retention and Interest

Deposits will normally be held for a minimum of 12 months for residential and non-residential classes of service. Deposits will be credited to the customer's account at the end of the deposit period, or earlier, at the District's option, if customer has maintained credit to the District's satisfaction as outlined in Section F.

Interest will be credited to the customer's account on an annual basis for an active deposit. The deposit must be active for 180 calendar days before interest is paid. Interest is prorated based on the interest rate(s) in effect from the effective date of the deposit or the last interest paid date, whichever comes later, to the review date. The interest rate will be adjusted each February, May, August, and November to the nearest full percentage interest rate below the average Six month US Treasury Bill yield for the previous three months.

Upon termination of service, the District will return the deposit and any accrued interest less the amount of any unpaid charges. Interest on deposits will be paid on the date of the return of the deposit or on the date of its application to the customer's account.

I. Dishonored Payments

When checks or electronic funds transfers are received as payment for electric bills, deposits or other charges, and are subsequently dishonored or rejected by the bank, the District may require an \$18.00 charge in addition to redemption of the amount of the original check or electronic funds transfer. Dishonored payments and related charges must be redeemed and paid within seven days or the District may thereafter discontinue service in accordance with Rule and Regulation 11 or take other appropriate action as necessary.

J. Delinquent Accounts

In the event a District representative must make a field call to effect collection of a delinquent electric service bill, deposit or other charges, the customer may be required to pay a \$15.00 field service charge in addition to the delinquent amount. Service may be discontinued pursuant to Rule and Regulation 11 if this charge is not paid at the time of collection.

K. Subordination Fee

The cost of subordination will be charged to the property owner for each subordination required in a real estate transaction where the District has a recorded UCC.1 filing resulting from a District energy efficiency loan. The subordination fee will be established to recover SMUD's average cost of subordination and may be revised from time to time to reflect changes in subordination costs.

L. On-line Check Writing Fee

When an on-line check is requested by a customer for payment of any bill owed the District, a \$2.00 per transaction fee will be required for each check written by a District representative.

(End)

Notices and Communications Rule and Regulation 8

Any notice, refund of deposit, or other communication the District may give to any customer of the District, pursuant to the rates, rules and regulations of the District, may be given by written notice addressed to the customer's last known address or forwarding address if one is provided. Such notice will either be delivered to that address or properly enclosed in a sealed envelope and deposited in any United States Post Office within the District, postage prepaid, addressed to that customer's last known address.

Any notice from any customer to the District pursuant to the rates, rules and regulations of the District may be given to the District by the customer in person or by customer's authorized agent at the District's Customer Services Department office in Sacramento, or by written notice properly enclosed in a sealed envelope and addressed to such office, postage prepaid, and deposited in any United States Post Office.

(End)

Adjustment For Errors in Electric Bills Rule and Regulation 10

Whenever the correctness of any bill for electric service is questioned, the District will cause an investigation to be made. Where the bill is questioned by the customer, the District may require such customer to deposit the amount of such disputed bill as evidence of good faith. Bills which do not reflect the correct charges for electric service actually rendered to the customer in accordance with applicable electric rates of the District shall be adjusted to a correct basis as determined by the District's investigation.

Adjustments of bills for Billing Error

A billing error is a bill which does not reflect the correct charges for electric service rendered to the customer which may include but is not limited to incorrect meter reads or clerical errors such as applying the wrong rate and/or rate option, wrong billing factor or an incorrect calculation. Billing error does **not** include a meter error or unauthorized use; switch or mismarked meters by other than the District; improper customer wiring; inaccessible meter; failure of the customer to notify the District of changes in the customer's equipment or operation; failure of the customer to take advantage of a rate or condition of service for which the customer is eligible and has been given notification through a bill insert. Where the District overcharges or undercharges a customer as a result of a billing error, the District may render an adjusted bill for the amount of the undercharge, without interest, and shall issue a refund or credit to the customer for the amount of the overcharge, without interest, for the period of the billing error, but not to exceed three years from the date of discovery, in the case of an undercharge or overcharge.

Adjustments of bills for Meter Error

Adjustments to bills for meter error shall be made in accordance with the provisions of Rule & Regulation 17.

Adjustment of bills for Unauthorized Use

Where the District determines that there has been Unauthorized Use of electric service, the District may bill the customer for the District's estimate of such unauthorized use for the substantiated period of the infraction. Nothing in this Rule shall be interpreted as limiting the District's right under any provisions of any applicable law.

Limitation on Adjustment of Bills for Energy Use.

For any error in billing not defined as a billing error, meter error, or unauthorized use, the District is not required to adjust the bill. However, any billing adjustment not specifically covered in the rules and regulations for an undercharge or overcharge shall not exceed three years from the date of discovery.

Where information required for correct billing is not subject to exact determination or is questioned, the District shall make such estimates as may be necessary by means of tests, analysis, or inquiry in a manner and to the extent the District considers appropriate in the circumstances.

(End)

Discontinuance, Energy Theft and Restoration of Service Rule and Regulation 11

A. Discontinuance of Service by District

The District may discontinue or refuse to establish or restore electric service for any one or more of the reasons contained in this rule and regulation. Except as otherwise specifically provided herein, seven days written notice will be given before service is discontinued.

1. NONPAYMENT OF BILLS

The District may discontinue or refuse service if a customer has not paid bills, deposit or other charges in accordance with the provisions of Rule and Regulation 6, except that service to a residential customer will not be discontinued because of nonpayment of bills for other classes of service or nonpayment of non-electric bill amounts. Identification information, including social security numbers, of customers with delinquent accounts may be reported to credit reporting agencies as part of the customary collection practice.

2. FAILURE TO ESTABLISH OR RE-ESTABLISH CREDIT

The District may refuse service or refuse to re-establish service to a customer who has not made a credit deposit or otherwise establish his credit in accordance with Rule and Regulation 6.

3. UNSAFE OR ILLEGAL APPARATUS

The District may discontinue or refuse service if any part of customer's wiring or equipment, or use thereof, is either unsafe or in violation of law, until such apparatus shall have been placed in a safe condition or the violation remedied. If, in the District's judgment, operation of customer's equipment constitutes a dangerous condition, the District may discontinue service without notice.

4. SERVICE DETRIMENTAL TO OTHER CUSTOMERS

The District may discontinue or refuse service if, in the District's judgment, the operation of customer's equipment is, or will be, detrimental to the service of other customers.

5. FRAUD

The District may discontinue service without notice or may refuse service if the customer's actions or the condition of his premises are such as to indicate his intent to defraud the District.

6. NONCOMPLIANCE

The District may discontinue or refuse service if customer does not comply with the District's rules and regulations.

B. Discontinuance of Service at Customer's Request

When a customer desires to terminate his responsibility for service, he shall so notify the District not less than three days in advance, or such period in advance as may be specified in customer's contract for service, and state the date on which he wishes the termination of such responsibility for service to become effective. A customer may be held responsible for all service furnished at his premises until the date of termination specified in the notice, or a date three days beyond the date of such notice, or such greater number of days after such notice as may be specified in such contract, whichever date is later.

C. Restoration of Service; Reconnection Charge

The District may collect a reconnection charge before restoring electric service that has been discontinued for nonpayment of bills, failure to establish credit, or to prevent fraud. A higher fee will be charged for same day after-hours reconnections, between the hours of 5 p.m. and 10 p.m. The District will set the fees annually based on average costs. In addition, the District may collect any unusual costs incident to such discontinuance or restoration of service that result from the customer's action or negligence.

D. Verified Energy Theft Charges / Hazardous Conditions

The District may charge for recovery of costs to investigate and verify cases of energy theft. In addition, crew charges may be assessed for service restoration associated with the verified energy theft or hazardous condition. The District will set the fees annually based on average costs. These additional energy theft charges do not limit the District's current ability to bill for Unauthorized Use (stolen power), under Rule and Regulation 10.

(End)

Application of Rates and Rate Options Rule and Regulation 12

Charges for electric service will be computed according to the rates adopted by the District and applicable to the class of service supplied to each customer. Whenever the District adopts new rates, it will take such measures as may be practicable to inform all customers who may be affected that such new rates are in effect. Copies of all effective rates will be available for public inspection at the District's office at 6301 S Street, Sacramento.

Where more than one rate is applicable to service to a customer or applicant for service, the District will inform such customer or applicant for service of the alternative rates, and such customer or applicant shall designate which rate he desires. As a means of assisting a customer or applicant in selecting the most favorable rate, the District may make comparative calculations of charges under such alternative rates but shall not be required to do so by any customer or applicant. If the customer or applicant does not designate the rate which he desires, the District will render bills for such service according to the applicable rate which, in the District's judgment, will result in the lowest charge for such service.

When a customer desires service on an applicable rate other than that on which he is being billed, he shall so notify the District and the change in rate will become effective for service rendered after the next regular meter reading following the date of such notice. The District shall not be required to make more than one change in rate for any customer within 12 consecutive months unless a new rate is made effective or the operating conditions of such customer have changed so as to warrant a change in rate, except, however, that any such customer served on a rate with an annual minimum charge will not be permitted more than one change in rate in any 12 consecutive months.

Unless specifically provided in a rate, all rates of the District are applicable only for service supplied entirely by the District without interconnection of the customer's facilities with any other source of supply.

(End)

Temporary Service Rule and Regulation 13

The District will furnish temporary service to operations of a speculative nature or questionable permanency if the applicant for temporary service:

1. Pays to the District, in advance or as the District may direct, the estimated cost to the District of installing and removing all facilities especially required for such temporary service, and
2. Establishes credit pursuant to Rule and Regulation 6.

Within three years of the date when service was first delivered, service will be considered permanent and payments made in excess of meter and service charges shall be refunded without interest when a customer served under this rule has requested a refund of temporary charges, and:

1. Installed sewer, water, and foundation, or
2. Operated the same or greater electrical load originally installed for a period of 36 consecutive months from the date when service was first delivered under this rule.

The District reserves the right to charge a temporary service customer for any additional construction work needed solely for the continuation of temporary service, or to refuse service if such service would, in the District's judgment, prove a hardship or hazard to it or its customers.

There shall be no connection of customer-owned generation facilities under this rule.

(End)

Shortage of Supply and Interruption of Delivery Rule and Regulation 14

The District will exercise reasonable diligence and care to furnish and deliver a continuous and sufficient supply of electric energy to its customers but does not guarantee continuity or sufficiency of supply. The District will not be liable for interruption or shortage or insufficiency of supply, or any loss or damage of any kind of character occasioned thereby, if same is caused by inevitable accident, act of God, fire, strikes, riots, war, or any other cause except that arising from its failure to exercise reasonable diligence.

Whenever the District shall find it necessary to make repairs or improvements to the system, it will have the right to temporarily suspend the delivery of electric energy. In all such cases as much notice will be given as circumstances permit. Repairs or improvements will be made as rapidly as practicable and, if practicable, they will be made at such times as will produce the least inconvenience to the customers.

In case of shortage of supply and during the period of such shortage, the District will apportion its available supply of energy among all customers in the manner the District deems most reasonable under the circumstances.

The District will endeavor to maintain its frequency and its service voltage within reasonable limits, but does not guarantee same.

(End)

Extension of Facilities to Residential Premises Rule and Regulation 15

A. Conditions of Service

Applicants for electric service will be required to provide the District sufficient advance notice so that service can be rendered by the time such service is desired. By applying for or accepting service from the District, a customer agrees to abide by all of the rates, rules and regulations of the District concerning such service, to provide any rights of way across his own property that the District may deem necessary to supply such service, and to cooperate with the District in its construction and maintenance of the facilities needed for such service. The District may bill the customer for any costs resulting from the customer's failure to comply with the provisions of this paragraph. This rule and regulation shall apply only to residential developments. Mixed use developments will be served under Rule and Regulation 16.

*Effective January 1, 1993 this Rule and Regulation shall also apply to public agencies.

B. Extensions Subject to Rights of Way or Easement

District extensions of distribution lines and facilities will be constructed only along public roads and highways and upon private property across which satisfactory rights of way may be obtained without cost to or condemnation by the District.

C. Extensions of District Distribution Facilities

Extensions of electric distribution lines and facilities to the boundary of a residential development (at standard voltages specified in Rule and Regulation 2) to supply electric service to installations of a permanent character will normally be constructed, owned and maintained by the District at its expense. Extensions will be subject to the provisions of the District's rules and regulations and the provisions of the applicable rate schedule.

D. Overhead Distribution Facilities Within A Development

Generally, overhead lines and facilities will not be extended into new developments. Where underground line construction is impractical, the District will, at its expense, construct, own and maintain all necessary overhead distribution lines and facilities required to provide service.

E. Underground Distribution Facilities Within A Development

Under contracts executed with the District on or after September 1, 1989, the District will extend all distribution lines underground in all subdivisions and other areas approved by the District in accordance with the following provisions:

1. SINGLE FAMILY THROUGH SIXPLEX DWELLINGS AND OTHER DEVELOPMENTS WHERE ONE STRUCTURE IS PLANNED PER LOT, AND IN MOBILE HOME PARKS.

a. The developer of a residential development will, in accordance with the District's specifications and requirements:

- (1) Perform all necessary excavating and backfilling, including furnishing of any imported backfill material required.
- (2) Furnish and install the underground duct system (to include necessary conduits, ducts, manholes, vaults, enclosures, switchgear and transformer pads and wells, and concrete encasement of conduit where required).
- (3) Transfer ownership of such facilities to the District upon acceptance by the District.
- (4) Pay the District before work is begun, \$1,000.00 per residential lot for on-site line extension.
- (5) At the District's discretion, a partial refund of on-site lot fees for new construction will be available under the following options:

• Refund Option: After a residential account has been established, the developer or builder may apply for a partial refund of up to 50% of the on-site lot fees. The refund will only apply to lot fees where a residential account has been established with the District. The following table will determine the amount of the original lot fee that is eligible for refund:

Select only one	Percent of Lot Fee	Total Refund per Lot
1. Utilization Credit	20%	\$200
2. Exceed Title 24 or equivalent by 25%	25%	\$250
3. Exceed Title 24 or equivalent by 50%	50%	\$500

The total refundable amount for Refund Option 1, 2 or 3 is subject to refund for a period of three years after the date on which initial payment of the residential fees was received.

Refund Eligibility: The developer or builder selecting Refund Options 2 or 3 must submit an application to the District with the building plans showing the homes meet the requirements of the option prior to construction. Homes qualifying for a refund are subject to a verification inspection prior to payment.

• Refund Waiver: The developer or builder may elect to waive all future refund options by electing a 10 percent discount of paid lot fees. In no case will this discount exceed \$100 per lot. Builders may reinstate eligibility for exceeding Title 24 requirements by reimbursing SMUD the previously discounted funds prior to commencing construction of homes.

(Continued)

**Extension of Facilities to
Residential Premises
Rule and Regulation 15 (Continued)**

E. Underground Distribution Facilities Within A Development (Continued)

- (6) Pay the District a non-refundable design fee at the time a developer sign an "Agreement for Service" and a development is placed on the "Utilities Engineering Schedule".
- b. The district will install, maintain, and retain ownership of all secondary and primary conductors, transformers, switchgear, air conditioning controllers, and related equipment for the distribution system.
- c. If applicant does not, within twelve months from the date on which the subdivision is placed on the SMUD Engineering list, complete construction so that District facilities can be installed, the residential lot charge shall be subject to increase in accordance with any change in this rule.
- d. Residential developments/subdivisions may be removed from SMUD's Engineering list and cancelled, together with any related jobs, if no construction activity has occurred within the ensuing 12 months from the date on which the project was placed on the Engineering list.

2. MULTIFAMILY DWELLING (seven units or more)

The District will install one or more pad-mounted transformers on the customer's premises and require the customer to construct the underground distribution facilities on his property as designated by the District in accordance with the applicable sections of Rule and Regulation 16.

F. Service Connections – General

The District will connect to any one building only one service for each voltage classification, either overhead or underground, except for the District's operating convenience, or where, in the District's judgment, such additional services may be warranted because of the load requirements, or where the customer is required by law to install emergency lighting facilities. Connection of such service to, or disconnection of such service from the District's lines, shall be made only by authorized employees of the District.

1. OVERHEAD AREAS

In areas served by overhead distribution facilities, the District may install either an overhead or underground service. When the customer requests and the District agrees that an underground service can be provided, the customer shall furnish and install a service trench, conduit (including appropriate backfill), and terminating facility as designated and approved by the District.

2. UNDERGROUND AREAS

- a. In those areas served by underground distribution facilities, where the individual lots are not part of a recorded subdivision, the customer shall furnish and install an underground trench, conduit (including appropriate backfill), and terminating facility as designated and approved by the District. The District will furnish and install underground services.
- b. **SERVICES INSTALLED PRIOR TO JANUARY 1, 1973:** In those underground subdivisions where service contracts were executed with the District before January 1, 1973, the customer shall furnish and install all service facilities to a point designated by the District. Such service facilities shall be subject to applicable City and County ordinances and the customer shall be responsible for the maintenance of all facilities not installed by the District.

(Continued)

**Extension of Facilities to
Residential Premises
Rule and Regulation 15 (Continued)**

E. Service Connections – General (Continued)

- c. SERVICES INSTALLED AFTER JANUARY 1, 1973: In those underground subdivisions where service contracts were executed with the District after January 1, 1973, and prior to January 1, 1989, the District will furnish and install underground services. The customer shall furnish and install a service trench and conduit (including appropriate backfill), and terminating facility as designated and approved by the District.
- d. In those underground subdivisions where service contracts are executed with the District after January 1, 1989, the customer shall furnish and install underground services consisting of a service trench, conduit (including appropriate backfill), service conductor, and terminating facility as designated and approved by the District. Upon approval of the facilities installed, it is understood that the service conductors (excluding conduit) will become the property of, and will be maintained by, the District.

G. Extensions for Temporary Service

Extensions for temporary service will be made under the provisions of Rule and Regulation 13, Temporary Service.

H. District Ownership of Facilities, Right of Access and Right of Way

All facilities installed on a customer's premises, including but not limited to conductors, transformers, poles, meters, etc., which are furnished by the District in order to render electric service, shall remain the sole property of the District. The District will maintain such facilities and shall have the right of access to the customer's premises without payment of any charge or rent therefor, at all reasonable hours for any purpose related to the furnishing of electric service. This shall include but is not limited to meter reading, testing, inspection, construction, maintenance, and repair of facilities. Upon termination of service, and for a reasonable period thereafter, the District shall have the right of access to the customer's premises to remove its facilities installed thereon. The customer shall grant to the District rights of way and rights of access satisfactory to the District for the installation and maintenance of the necessary electrical conductors and their connections.

I. Customer Responsibility for Facilities

1. DISTRICT FACILITIES

The customer shall exercise reasonable care to prevent facilities of the District installed on his premises from being damaged or destroyed and shall refrain from tampering or interfering with such facilities, and if any defect therein is discovered by the customer, he shall promptly notify the District thereof.

2. CUSTOMER FACILITIES

The customer shall be solely responsible for the transmission and delivery of all electric energy over or through the customer's wires and equipment, and the District shall not be responsible for any loss or damage occasioned thereby. The customer shall also be responsible for the installation and maintenance of all facilities not transferred to the District including conduits, manholes and vaults.

(End)

Extension of Facilities to Non-Residential Premises Rule and Regulation 16

A. Conditions of Service

Applicants for new and upgraded electric service will be required to provide the District sufficient advance notice so that service can be rendered by the time such service is desired. By applying for or accepting service from the District, a customer agrees to abide by all of the rates, rules and regulations of the District concerning such service, to provide any rights of way across his/her own property that the District may deem necessary to supply such service, and to cooperate with the District in its construction and maintenance of the facilities needed for such service. The District may bill the customer for any costs resulting from the customer's failure to comply with the provisions of this paragraph. This rule and regulation shall also apply to public agencies and developments with both non-residential and residential mixed use electric service.

B. Extensions of District Distribution Facilities

Line extensions of electric distribution facilities to the boundary of a nonresidential development (at standard voltages specified in Rule and Regulation 2) will normally be constructed, owned and maintained by the District at its expense. Line extensions will be subject to the provisions of the District's rules and regulations and the provisions of the applicable rates.

C. Overhead Distribution Facilities Within A Development

Generally, overhead facilities will not be extended into new developments. However, when they are extended the District will construct, own and maintain all necessary overhead facilities required to provide service.

D. Underground Distribution Facilities Within A Development

The developer of a non-residential development will, in accordance with the District's specifications:

- (1) Perform all necessary excavating and backfilling, including furnishing of any imported backfill material required.
- (2) Furnish and install the underground duct system (including necessary conduits, ducts, manholes, vaults, switchgear, pads, and concrete encasement of conduit where required).
- (3) Transfer ownership of such facilities to the District upon acceptance by the District.
- (4) The developer will deposit with the District, 100 percent of the Estimated Cost of District-installed facilities upon completion of the system design and prior to system installation. *At the discretion of the District, Estimated Cost may be determined by application of standard unit costing or by job specific estimates. Standard unit costing may be reviewed and updated at the District's discretion. The District may extend at its option, financing terms for no longer than 12 months for no more than 50 percent of the required deposit. Availability of the financing option will depend on the financial viability and credit worthiness of the firm, as determined by the District. These costs are limited to the District's costs of providing distribution facilities within the boundaries of the development and those development-related distribution facilities adjacent to the development.*

The District will supply, install, own and maintain all conductors, switchgear, transformers and related equipment for the secondary and primary distribution system.

- (5) At the District's discretion, a partial refund of on-site line extension costs will be available under the following options:

- Refund Option: Five years after the initial payment of the commercial extension fees, the builder or developer may apply for a partial refund of up to 50% of the line extension fees paid to the District. The Eligible Contributions will be based on the customer's annual load factor multiplied by the original contribution. Any prepayments made for redundant, non-standard, or customer requested oversizing of equipment or facilities will not be considered in the calculation of the Eligible Contributions. The following table will determine the percent of the Eligible Contributions eligible for refund.

(Continued)

Extension of Facilities to Non-Residential Premises Rule and Regulation 16 (Continued)

D. Underground Distribution Facilities Within A Development (Continued)

Select one only	Percent of Eligible Contributions
1. Utilization Credit	20%
2. Exceed title 24 or equivalent by 25%	25%
3. Exceed title 24 or equivalent by 35%	50%

The total refundable amount for Refund Options (1), (2), or (3) is subject to refund for a period of ten years after the date on which initial payment for on-site line extension fees was received.

Refund Eligibility: The developer or builder selecting Refund Options (2) or (3) must submit an application to the District with the building plans showing the non-residential development meets the requirements of the option prior to construction. Non-residential developments qualifying for a refund are subject to a verification inspection prior to payment.

- Refund Waiver: The developer or builder may waive future refund options by electing a 10% discount of eligible contributions.

The developer or builder may apply for the Refund Waiver at the time payment for on-site line extension fees are paid to the District

- (6) If the applicant does not, within twelve months from the date on which the District provided a commitment for service, complete construction so that District facilities can be installed, work authorizations under this rule may be cancelled along with any related jobs. The on-site development cost shall be subject to increase in accordance with any change in this rule.
- (7) Pay the District a non-refundable design fee at the time the District gives a "Commitment for Service" and before the District begins final design.

E. Service at Secondary Voltage

1. OVERHEAD SERVICE

In those areas where it has been determined that the District will continue to serve its customers overhead and where the District's distribution pole line is located on a street, highway, lane, alley, road, or private easement immediately contiguous to the customer's premises, the District will, at its expense, furnish and install a service drop from its pole line to the nearest point of attachment to the customer's building or other permanent support provided by the customer, such point to be approved by the District.

2. UNDERGROUND SERVICE

In designated underground areas, the District will connect to underground service runs furnished and installed by the customer, at his expense, at a service location specified by the District. Service run facilities shall include conductor to reach the service location, shall be subject to applicable City and County ordinances, and shall be subject to approval by the District as to design and specifications. No customer will be required to install facilities beyond a location in the public utility right of way adjacent to his property. Cost recovery of underground distribution facilities within a development will conform to the provisions of Section D. of this Rule and Regulation.

F. Service at Primary or 69 kV Voltage

Wherever adequate service to a customer requires and where, in the District's judgement, it is desirable and practicable to do so, the District will install on the customer's premises a primary or 69 kV voltage supply line. This supply line will extend to the metering installations or other terminal point, as designated by the District.

1. OVERHEAD CONDUCTORS

Where the supply line is to be overhead, the District will, at its expense, furnish and install the entire line and will make the necessary connections.

(Continued)

Extension of Facilities to Non-Residential Premises Rule and Regulation 16 *(Continued)*

F. Service at Primary or 69 kV Voltage *(Continued)*

2. UNDERGROUND CONDUCTORS

Where the customer requests and the District agrees, or where the District determines that the primary or 69 kV voltage supply line be underground or otherwise in conduit, in whole or in part, the customer shall furnish and install the entire conduit system including manholes, pull boxes and pull wires as designated by the District. All such facilities shall be subject to approval by the District as to design and specifications. No customer will be required to install facilities beyond a location in the public utility right of way adjacent to his/her property. The District will furnish and install the electrical conductors and make the necessary connections. Cost recovery of underground distribution facilities within a development will conform to the provisions of Section D. of this Rule and Regulation.

G. Service Connections

The District will not connect to any one building more than one service for each voltage classification, either overhead or underground, except for the District's operating convenience, or where, in the District's judgment, such additional services may be warranted because of the load requirements, or where the customer is required by law to install emergency lighting facilities. Connections of such service to, or disconnection of such service from, the District's lines shall be made only by authorized employees of the District.

H. Requests for Change in Service Voltage

Where the customer requests and the District consents, a change in service voltage may occur provided that all District costs including unrecovered costs less salvage value, relocation costs, and site restoration costs are at the requesting customer's expense. Such change may involve all voltage level classes as defined under the applicable general service rate schedule.

I. Extensions for Temporary Service

Extension for temporary service will be made under the provisions of Rule and Regulation 13, Temporary Service.

J. District Ownership of Facilities, Right of Access and Right of Way

All facilities installed on a customer's premises, including but not limited to conductors, transformer, poles, meters, etc., which are furnished by the District in order to render electric service, shall remain the sole property of the District. The District will maintain such facilities and shall have the right of access to the customer's premises, without payment of any charge or rent therefor, at all reasonable hours for any purpose related to the furnishing of electric service. This shall include but is not limited to meter reading, testing, inspection, construction, maintenance, and repair of facilities. Upon termination of service, and for a reasonable period thereafter, the District shall have the right of access to the customer's premises to remove its facilities installed thereon. The customer shall grant to the District rights of way and rights of access, satisfactory to the District, for the installation and maintenance of the necessary electrical conductors and their connections.

K. Service to Annexation Customers

The District will maintain existing service conductor previously installed by Pacific Gas and Electric Company to commercial/industrial services until such time as the customer modifies, alters or changes the existing electrical service equipment. It will be the customer's responsibility to provide additional duct when necessary.

L. Customer Responsibility for Facilities

1. DISTRICT FACILITIES

The customer shall exercise reasonable care to prevent facilities of the District installed on his premises from being damaged or destroyed and shall refrain from tampering or interfering with such facilities, and if any defect therein is discovered by the customer, he shall promptly notify the District thereof.

2. CUSTOMER FACILITIES

The customer shall be solely responsible for the transmission and delivery of all electric energy over or through the customer's wires and equipment, and the District shall not be responsible for any loss or damage occasioned thereby. The customer shall be responsible for the installation and maintenance of all facilities not transferred to District ownership, including customer-owned conduits, manholes and vaults.

(End)

Meter Tests and Adjustment for Bills for Meter Error Rule and Regulation 17

A. Meter Tests

Any customer may, upon not less than five days' notice, require the District to perform an electric meter test. No payment or deposit will be required from the customer for such test except under the following conditions:

1. When the meter test request is within six months after the date of installation of the meter, or
2. When the customer requests a meter test more often than once in six months.

If these exceptions apply, a deposit to cover the reasonable cost of the test will be required of the customer. The District will annually set the payment or deposit amount for meter tests based on average costs.

The District will apply the amount deposited by the customer as payment to the District to cover the meter test cost. However, the deposit will be returned to the customer if the meter is found, upon test, to register more than 2% fast or slow under conditions of normal operation.

A customer shall have the right to require the District to conduct the test in the customer's presence or, if the customer so desires, in the presence of an expert or other representative appointed by the customer. A report giving the result of the test will be supplied to the customer within a reasonable time after completion of the test.

No meter will be placed in service or allowed to remain in service that has an error in registration in excess of 2% under conditions of normal operation.

B. Adjustment of Bills for Meter Error

When as the result of any test, a meter is found to be more than 2% fast, the District shall refund to the customer the overcharge based on the corrected meter readings for the period in which the meter was in use, not exceeding six months, unless it can be shown that the error was due to some cause, the date of which can be fixed. In this case, the overcharge shall be computed back to such time but not beyond three years prior to the date the error is brought to the attention of the District.

If a meter for residential service, as the result of any test, is found not to register or to register less than 75% of the actual consumption, an average bill, or a bill for the electricity consumed but not covered by the bills previously rendered for a period not to exceed three months, may be rendered to the customer by the District. In the case of meter tampering or fraud, billing adjustments may exceed the three-month billing limitation to cover the substantiated period of the infraction.

If a meter for nonresidential service, as the result of any test, is found to register more than 2% slow, the District may render a bill for electricity consumed but not covered by bills previously rendered for a period not to exceed three months, provided that if the actual period of error exceeds three months and same can be definitely determined, the correction to be made, as herein provided, may cover such actual period, but not beyond three years prior to the date the error is brought to the attention of the District. In the case of meter tampering or fraud, billing adjustments may exceed the three-month billing limitation to cover the substantiated period of the infraction.

(End)

Service to Premises and Use of Energy Rule and Regulation 18

A. General Statement of Rule

The District's rates are based upon supplying service in the manner described below. In order to render electric service to all customers at standard rates and under equitable and nondiscriminatory service conditions the District will:

1. Meter directly all premises which have separate street or mall entrances and/or exits.
2. Not permit customers to resell electricity which the District supplies.
3. Require ready access to all meters and service equipment.

B. Definitions

As used herein, the term "premises" means all structures, apparatus, or portions thereof occupied or operated by an individual, a family, or a business enterprise, and situated on an integral parcel of land undivided by a public highway, street, or railway.

As used herein, the term "resell electricity" is the resale of electricity for profit.

As used herein, the term "central system" is defined as, but not limited to, air conditioning, heating domestic hot water, compressed air, fire or security alarms or an energy management system.

C. Exceptions to Requirement That District Serve All Premises Directly

1. A customer may obtain nonresidential service at a single point of delivery for two or more premises operating as a single enterprise, adjacent to each other but separated only by streets, railways, or highways if he provides and maintains the necessary electrical facilities between the District's point of delivery and his electrical apparatus in accordance with the applicable statutes, ordinances, or regulations of the governmental agencies having jurisdiction thereof, and in such a manner that the convenience of the District and the safety of its personnel are not adversely affected.
2. Customers for which master metering was authorized prior to August 1, 1978 may continue to obtain service at a single point of delivery through a single metering installation for two or more single-family dwelling units in the same building or for two or more multifamily dwelling buildings, provided such buildings are adjacent to each other on an integral parcel of land undivided by a public highway, street, or railway. After August 1, 1978 all multifamily residential premises will be metered individually.
3. A building, a portion of a building, a group of buildings, or an automobile trailer camp containing more than one premise will receive service through a single point of delivery if the District determines that it is not reasonable for feasible to serve each premise directly.
4. A separate single meter may be used for a building's central system which serves more than one premise.

When exceptions as described above are granted, the cost of electric service may be included in the rent.
5. Sub-metering for non-billing purposes will be allowed for use in production measurement or budget allocation, with the prior approval of the District.

(Continued)

**Service to Premises
and Use of Energy
Rule and Regulation 18 (Continued)**

D. Exceptions to Prohibition on Resale of Electricity

1. Mobile home parks for which submetering was permitted prior to August 1, 1971, and for which electric service is included in the facilities furnished to their tenants, may employ metering equipment as a means of retroactively adjusting rental charges for energy consumption, provided that the portion of such charges allocable to electricity may not exceed the rates the District would charge if it served the tenants directly.
2. Electric utilities and governmental agencies may submeter and resell electricity supplied to them by the District.

E. Enforcement

Customers who are receiving service in conflict with this rule and who fail to bring themselves into conformity within a reasonable time after receiving written notice from the District shall have their service discontinued.

(End)

Customer-owned Generation Rule and Regulation 21

A. **Guideline Availability**

Guidelines for interconnecting and operating customer owned generation shall be available on the Internet (Web) and shall address, at a minimum, the following topics:

- Applicability
- General Rules, Rights and Obligations
- Application and Interconnection Process
- Generating Facility Design and Operating Requirements
- Interconnection Facility Ownership and Financing
- Metering, Monitoring and Telemetry
- Dispute Resolution Process
- Definitions
- Initial Review Process for Applications to Interconnect a Generating Facility
- Testing and Certification Criteria

B. **Guideline Changes**

The General Manager of the District is authorized to develop, implement, and revise as necessary interconnection standards addressing the above topics and such additional provisions as reasonably necessary to respond to legislation, regulatory action, industry practice, operating requirements, or average service costs.

(End)

Part 2: Generating Facility Interconnection

A. Applicability: This Generating Facility Interconnection Application (Application) shall be used to request the interconnection of a Generating Facility to Sacramento Municipal Utility District's (SMUD) Distribution System. Refer to SMUD's Rates Policy and Procedure 11-01 to determine the specific requirements for interconnecting a Generating Facility. Capitalized terms used in this Application, and not otherwise defined herein, shall have the same meanings as defined in SMUD's Rates Policy and Procedure 11-01.

Except as noted in the next paragraph, this Application may be used for any Generating Facility to be operated by or for a Customer and/or Producer to supplement or serve the Customer's electric service requirements that would otherwise be served by SMUD, including "distributed" generation, "cogeneration," emergency, backup, and standby generation, and Net Energy Metered Generating Facilities. A simpler, shorter form is also available from SMUD for most Net Energy Metered Generating Facilities. While Customers or Producers operating isolated Generating Facilities are not obligated to enter into an Interconnection Agreement with SMUD, some parts of this Application will need to be completed even for Generating Facilities that will always be isolated from the SMUD's Distribution System. Completing this application will satisfy SMUD's notice requirements for operating an isolated Generating Facility.

This Application may not be used to apply for interconnecting Generating Facilities used to participate in transactions where all or a portion of the electrical output of the Generating Facility is scheduled with the SMUD's Energy Trading & Contracts. Interconnection of Generating Facilities of this type are coordinated by SMUD's Energy Supply business unit and require a different application available from SMUD.

B. Guidelines and Steps for Interconnection: This Application must be completed and sent to SMUD along with the additional information indicated below to initiate SMUD's review and authorization to interconnect the proposed Generating Facility. An application fee of \$800 (payable by check or money order to SMUD) must accompany most Applications. Exceptions to this fee requirement include Applications used for isolated Generating Facilities, Solar Generating Facilities that do not export power, and most Net Energy Metered Generating Facilities. Additional fees and charges may also apply for large and/or more complex Generating Facility Interconnections; see SMUD Rates Policy & Procedure 11-01.

This document is only an application. Upon acceptance, SMUD will prepare an Interconnection Agreement for execution by SMUD and the "Producer," the party that will be responsible for the Generating Facility. SMUD may also require an inspection and testing of the Generating Facility and any related Interconnection Facilities prior to giving the Producer written authorization to Interconnect. **Unauthorized interconnections may be dangerous and may result in injury to persons and/or may cause damage to equipment and/or property for which a Producer may be liable!**

Please note, other approvals may need to be acquired and/or other agreements may need to be formed with SMUD or regulatory agencies, such as the Air Quality Management Districts and local governmental building and planning commissions prior to operating a Generating Facility. SMUD's authorization to interconnect does not satisfy the need for an Applicant to acquire such other approvals.

- C. Required Documents:** Four copies of this Application and each of the following documents are required to be submitted. Drawings must conform to accepted engineering standards and must be legible. 11"x17" drawings are preferred.
1. A **Single-line drawing** showing the electrical relationship and descriptions of the significant electrical components such as the primary switchgear, secondary switchboard, protective relays, transformers, generators, circuit breakers, with operating voltages, capacities, and protective functions of the Generating Facility, the Customer's loads, and the interconnection with SMUD's Distribution System.
 2. **Site plans and diagrams** showing the physical relationship of the significant electrical components of the Generating Facility such as generators, transformers, primary switchgear/secondary switchboard, and control panels, the Customer's loads and the interconnection with SMUD's Distribution System.
 3. If **transformers** are used to interconnect the Generating Facility with SMUD Distribution System, please provide transformer nameplate information (voltages, capacity, winding arrangements, connections, impedance, et cetera).
 4. If a **transfer switch** or scheme is used to interconnect the Generating Facility with SMUD's Distribution System, please provide component descriptions, capacity ratings, and a technical description of how the transfer scheme is intended to operate.
 5. If **protective relays** are used to control the interconnection, please provide protection diagrams or elementary drawings showing relay wiring and connections, proposed relay settings, and a description of how the protection scheme is intended to function.

D. Mailing Instructions, Assistance: When this application has been completed it may be printed and mailed, along with the required attachments to:

Sacramento Municipal Utility District
Attention: Distributed Generation Administrator
Distribution System Engineering, MS D104
6201 Street
P.O. Box 15830
Sacramento, CA, 95852-1830

If you have questions or need assistance in completing this application please call (916)732-6424.



SMUD

SACRAMENTO MUNICIPAL UTILITY DISTRICT
6201 S Street, P.O. Box 15836, Sacramento, CA 95852-1830
The Power To Do More.SM

**SMUD GENERATING FACILITY
INTERCONNECTION APPLICATION**

<i>Project name:</i>	<i>Date received:</i>	<i>Generating facility ID:</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>

For SMUD Use Only

Part 2 - Identifying the Generating Facility's Location and Responsible Parties

A. Host Customer Facility Information - Where will the Generating Facility be installed?

Name shown on SMUD service account

Electric Account number

Meter Number

Street Address

City

State CA

Zip

Note: If available, please also submit a copy of the host Customer facility's utility bill

B. Contact Information - Who should be contacted for additional information, if necessary?

Contact Person

Company Name

Phone

Fax

Email

Mailing Address

City

State CA

Zip

Backup Contact Person (optional)

Company Name

Phone

Fax

Email

Mailing Address

City

State CA

Zip

C. Operating Date - What date is this Generating Facility expected to begin operation?

SMUD GENERATING FACILITY INTERCONNECTION APPLICATION

Part 3. Distribution System Capacity, Reliability, and Other Concerns - Generating Facility

A. Indicate how this Generating Facility will interface with SMUD's Distribution System. (Choose one)

- 1. **Parallel Operation:** The Generating Facility will interconnect and operate "in parallel" with SMUD's Distribution System for more than one (1) second.
- 2. **Momentary Parallel Operation:** The Generating Facility will interconnect and operate on a "momentary parallel" basis with SMUD's Distributions System for a duration of one (1) second or less through switches or circuit breakers specifically designed and engineered for such operation.
- 3. **Isolated operation:** The Generating Facility will be "isolated" and prevented from becoming interconnected with SMUD's Distribution System through a transfer switch or operating scheme specifically designed and engineered for such operation.

Instructions and Notes

If the answer is option 1, "parallel operation," please supply all of the information requested for the Generating Facility. Be sure to supply adequate information including diagrams and written descriptions regarding the protective relays that will be used to detect faults or abnormal operating conditions on SMUD's Distribution System.

If the answer is option 2, "momentary parallel operation," only questions A and E of this Part 3 and questions A, B, E, F, I, L, M, N, and S of Part 4 need be answered. Be sure, however, to supply adequate information including diagrams and written descriptions regarding the switching device or scheme that will be used to limit the parallel operation period to one second or less. Please also describe the back up or protective device and controls that will trip the Generating Facility should the transfer switch or scheme not complete the transfer in one second or less.

If the answer is option 3, "Isolated Operation," only questions A and E of this Part 3 and questions A, B, F, and S of Part 4 need be answered. Be sure, however, to supply adequate information including diagrams and written descriptions regarding the isolating switching device or scheme that will be used to prevent the Generating Facility from operating in parallel with SMUD's Distribution System.

B. If the Answer to Question A was option 1, please indicate the type of agreement that is being requested with this Application. If options 2 or 3 were selected, please skip to questions E. (Choose one)

- 1. **A Generating Facility Interconnection Agreement** that provides for parallel or momentary parallel operation of the Generating Facility, but does not provide for exporting power to SMUD's Distribution System.
- 2. **A Generating Facility Interconnection Agreement** that provides for parallel operation of the Generating Facility, and the occasional, inadvertent, non-compensated, export of power to SMUD's Distribution System. (This type of Agreement has not yet been developed by SMUD or approved by its Board. Check with SMUD for availability.)
- 3. **A "Qualifying Facility" Power Purchase Agreement** that provides for parallel operation of the Generating Facility, and exporting power to SMUD's Distribution System for sale to SMUD. This option is available only to "Qualifying Facilities" with a total Nameplate Capacity of 100 kW or less. See Question F for the definition of a Qualifying Facility. (This type of Agreement has not yet been developed by SMUD or approved by its Board. Check with SMUD for availability.)
- 4. **A Net Energy Metering Agreement** that provides for parallel operation of the Generating Facility, and exporting power to SMUD's Distribution System for credit under the terms of SMUD's Net Energy Metering Tariff. This option is available only to solar and wind powered Generating Facilities per the terms of Section 2827 of the California Public Utilities Code.

If options 2, 3, or 4 to this question B are chosen, please provide an estimate of the monthly kWh the Generating Facility is expected to deliver to SMUD's Distribution System. If SMUD determines that the amount of power to be exported is significant in relation to the capacity available on its Distribution System, it may request additional information, including time of delivery or seasonal kWh estimates.

Amps

SMUD GENERATING FACILITY INTERCONNECTION APPLICATION

- C. If the answer to question B was option 1, please indicate the option that will be used to prevent energy from being exported to SMUD's Distribution System. *(Choose one)*
- 1. A reverse-power protection device will be installed at the Point of Common Coupling (PCC) to measure any outflow of power and trip the Generating Facility or open an intertie breaker to isolate the Generating Facility if limits are exceeded.
 - 2. An under-power protection device will be installed at the PCC to measure the inflow of power and trip or reduce the output of the Generating Facility if limits are not maintained.
 - 3. The Generating Facility's interface equipment has been certified as Non-Islanding and the incidental export of power will be limited by the design of the interconnection. If this option is to be used, the continuous ampere rating of the service entrance equipment (Main Panel size) that is used by the host Customer facility must be stated in the space provided below.
 - 4. The nameplate rating of the Generating Facility will not exceed 50% of the host Customer facility's minimum electrical load. If this option is to be used, the minimum load of the host Customer facility must be stated in the space provided below. Refer to SMUD's Rates Policy and Procedure 11-01 for additional information as to how to answer this question. If the Generating Facility will never export power to SMUD's Distribution System, a simpler, lower cost, protection scheme may be used to control the interface between the Generating Facility and SMUD's Distribution System.

If option 3 to this question C is selected, please provide the continuous current rating of the host Customer facility's service entrance equipment (service panel size):

Amps

If option 4 to this question C is selected, please provide the minimum load of the host Customer facility:

KW

D. What is the maximum 3-phase fault current that will be contributed by the Generating Facility to a 3-phase fault at the Point of Common Coupling (PCC)? (If the Generating Facility is single phase in design, please provide the contribution for a line-to-line fault.)

Amps

Please indicate the short circuit interrupting rating of the host Customer facility's service entrance ("main") panel:

Amps

Instructions and Notes

Refer to SMUD's Rates Policy and Procedure 11-01 for significance and additional information. To determine this value, any transformers and/or significant lengths of interconnecting conductor used between the each of the Generators (if there are more than one) that make up the Generating Facility and the PCC must be taken into account. The details, impedance, and arrangement of such transformers and cable runs should be shown on the single-line diagram that is provided. Consult an electrical engineer or the equipment supplier if assistance is needed in answering this question.

It is expected that most Applicants will want to reserve the flexibility to operate any or all of their Generators in parallel. However, if the design of the proposed installation will limit the amount of generation that may be interconnected at any time to SMUD's Distribution System, please describe the assumptions used in calculating the maximum fault current contribution value.

Note: With the approval of SMUD, a Producer that wishes to retain the option to export power from a Generating Facility to SMUD's Distribution System may use a different protection scheme that provides for the detection of faults and other abnormal operating conditions.

SMUD GENERATING FACILITY INTERCONNECTION APPLICATION

E. Please indicate how this Generating Facility will be operated. *(Please choose all options that may apply)*

- 1. **Combined Heat and Power or Cogeneration** – Where the operation of the Generating Facility will produce thermal energy for a process other than generating electricity.
- 2. **Peak Shaving/Demand Management** – Where the Generating Facility will be operated primarily to reduce electrical demands of the host Customer facility during SMUD's "peak pricing periods."
- 3. **Primary Power Source** – Where the Generating Facility will be used as the primary source of electric power and that supplied by SMUD to the host Customer's loads will be required for supplemental, standby or backup power purposes only.
- 4. **Standby / Emergency / Backup** – Where the Generating Facility will normally be operated only when SMUD's electric service is not available.
- 5. **Net Energy Metering** – Where the Generating Facility qualifies and receives service under SMUD's Net Energy Metering tariff.

SMUD GENERATING FACILITY INTERCONNECTION APPLICATION

Supply and Distribution of the Generators (See Instructions)

Please indicate the number of each "type" of Generator being installed

A. Generator/Inverter Manufacturer (Name)

B. Generator/Inverter Model (Name/Number)

C. Generator/Inverter Software Version (Number)

D. Is the Generator Certified by a Nationally Recognized Testing Laboratory (NRTL) according to Rates Policy and Procedure 11-01?

 Yes No

E. Generator Design

 Synchronous Induction Inverter

F. Gross Nameplate Rating

 kVa

G. Gross Nameplate Rating

 kW

H. Net Nameplate Rating

 kW

I. Operating Voltage

 Volts/kV

J. Power Factor Rating

 %

K. PF Adjustment Range

 Min % Max %

L. Wiring Configuration

 Single-Phase Three-Phase

M. 3-Phase Winding Configuration

 3 Wire Delta 3 Wire Wye 4 Wire Wye

N. Neutral Grounding System Used

 UnGrounded Solidly Grounded Ground Resistor
 Ohms

O. For Synchronous Generators Only:

 Synchronous Reactance Transient Reactance Subtransient Reactance
 $X_d\%$ $X'd\%$ $X''d\%$

P. For Induction Generators Only:

 Locked Rotor Current
Amps

or

Stator Resistance:

 %

Stator Leakage Reactance

 %

Rotor Resistance

 %

Rotor Leakage Reactance

 %

Q. Short Circuit Current Produced by Generator

 Amps

SMUD GENERATING FACILITY INTERCONNECTION APPLICATION

City of Seattle Public Utility Department, Inc. Chapter 210/215 Code Revisions

R. For Generators that are Started as
a "Motor" Only

Amps

1. In-Rush Current

Amps

2. Host Customer's Service Entrance Panel (Main Panel)
Continuous Current Rating

S. Prime Mover Type

Internal Combustion Engine - Natural Gas/Propane Fueled
Internal Combustion Engine - Diesel Fueled
Internal Combustion Engine - Other Fuel
Microturbine (< 250 kW) - Natural Gas/Propane Fueled
Microturbine - Other Fuel
Combustion Turbine (> 250 kW) - Natural Gas/Propane Fueled
Combustion Turbine - Other Fuel
Steam Turbine
Photovoltaic Panels
Solar-thermal engine
Fuel Cell- Natural Gas/Propane Fueled
Fuel Cell- Other Fuel
Hydroelectric Turbine
Wind Turbine
Other (please describe)

Other

SMUD GENERATING FACILITY INTERCONNECTION APPLICATION

Instructions for Part 4 - Describing the Generator

#	Please indicate the number of each "type" of Generator being installed:	Please provide the following information for each Generator "type". Be sure all Generators classified as one "type" are identical in all respects. If only one type of Generator is to be used, only one column needs to be completed. Please be sure the information in the "Totals" column is correct and reflects the total number of Generator units to be installed.
A	Generator/Inverter Manufacturer	Enter the brand name of the Generator.
B	Generator/Inverter Model	Enter the model name or number assigned by the manufacturer of the Generator.
C	Generator/Inverter Software Version	If this Generator's control and or protective functions are dependent on a "software" program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.
D	Is the Generator Certified by a Nationally Recognized Testing Laboratory (NRTL) according to Rates Policy and Procedure 11-01?	Answer "Yes" only if the Generator manufacturer can or has provided certification data. See SMUD's Rates Policy and Procedure 11-01 for additional information regarding Generator certification.
E	Generator Design	Please indicate the design of each Generator. Designate "Inverter" anytime an inverter is used as the interface between the Generator and the electric system regardless of the primary power production/storage device used.
F	Gross Nameplate Rating (kVA)	This is the capacity value normally supplied by the manufacturer and stamped on the Generator's "nameplate". This value is not required where the manufacturer provides only a "kW" rating. However, where both kVA and kW values are available, please indicate both.
G	Gross Nameplate Rating (kW)	This is the capacity value normally supplied by the manufacturer and stamped on the Generator's "nameplate". This value is not required where the manufacturer provides only a "kVA" rating. However, where both kVA and kW values are available, please indicate both.
H	Net Nameplate Rating (kW)	This capacity value is determined by subtracting the "Auxiliary" or "Station Service" loads used to operate the Generator or Generating Facility. Applicants are not required to supply this value but, if it is not supplied, applicable Standby Charges may be based on the higher "gross" values.
I	Operating Voltage	This value should be the voltage rating designated by the manufacturer and used in this installation. Please indicate phase-to-phase voltages for 3-phase installations. See SMUD's Rates Policy and Procedure 11-01 for additional information.
J	Power Factor Rating	This value should be the nominal power factor rating designated by the manufacturer for the Generator. See SMUD's Rates Policy and Procedure 11-01 for additional information.

SMUD GENERATING FACILITY INTERCONNECTION APPLICATION

Instructions to Part 4 - Generating the Generator - Continued

K	Power Factor Adjustment Range	Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values. See SMUD's Rates Policy and Procedure 11-01 for additional information.
L	Wiring Configuration	Please indicate whether the Generator is a single-phase or three-phase device. See SMUD's Rates Policy for additional information.
M	3-Phase Winding Configuration	For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.
N	Neutral Grounding	Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected. If the grounding method used at this facility is not listed, please attach additional descriptive information.
O	<i>For Synchronous Generators Only:</i>	If the Generator is of a "synchronous" design, please provide the synchronous reactance, transient reactance, and subtransient reactance values supplied by the manufacturer. This information is necessary to determine the short circuit contribution of the Generator and as data to be input in load flow and short circuit computer models of SMUD's Distribution System. If the Generator's Gross Nameplate Capacity is 10 MW or greater, SMUD may request additional data to better model the nature and behavior of the Generator with relation to its Distribution System.
P	<i>For Induction Generators Only:</i>	If the Generator is of an "induction" design, please provide the "locked rotor current" value supplied by the manufacturer. If this value is not available, the stator resistance, stator leakage reactance, rotor resistance, rotor leakage reactance values supplied by the manufacturer may be used to determine the locked rotor current. If the Generator's Gross Nameplate Capacity is 10 MW or greater, SMUD may request additional data to better model the nature and behavior of the Generator with relation to its Distribution System.
Q	Short Circuit Current Produced by Generator	Please indicate the current each Generator can supply to a three-phase fault across its output terminals. For single phase Generators, please supply the phase-to-phase fault current.
R	<i>For Generators that are Started as a "Motor" Only:</i> 1. In-Rush Current 2. Host Customer's Service Entrance Panel (Main Panel) Continuous Current Rating	This information is needed only for Generators that are started by "motoring" the generator. Refer to SMUD's Rates Policy and Procedure 11-01 for significance and additional information. If this question was answered in Part 3, question C of this Application, it need not be answered here.

SMUD GENERATING FACILITY INTERCONNECTION APPLICATION

Instructions to Part 3 - Registering the Generator - Continued

S Prime Mover Type	Please indicate the type and fuel used as the "prime mover" or source of energy for the Generator. 1 = Internal Combustion Engine – Natural Gas/Propane Fueled 2 = Internal Combustion Engine – Diesel Fueled 3 = Internal Combustion Engine - Other Fuel 4 = Microturbine (< 250 kW) – Natural Gas/Propane Fueled 5 = Microturbine – Other Fuel 6 = Combustion Turbine (> 250 kW) Natural Gas/Propane Fueled 7 = Combustion Turbine - Other Fuel 8 = Steam Turbine 9 = Photovoltaic Panels 10 = Solar-thermal engine 11 = Fuel Cell– Natural Gas/Propane Fueled 12 = Fuel Cell– Other Fuel 13 = Hydroelectric Turbine 14 = Wind Turbine
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SMUD Fees for Selected Services

Reference	Category	Description of Charges	Fee
Rule and Regulation 6	Credit and Bill Delinquency	Dishonored Payment	\$18.00
		Field Service Fee for Disconnect Notice	\$15.00
		On-Line Check Fee Per Transaction	\$2.00
Rule and Regulation 10	Unauthorized Use	Penalty for Verified Energy Theft	\$200.00
	Damaged Meter Equipment	Replacement of Damaged Meter	\$45.00
Rule and Regulation 11	Restoration of Service	Reconnection During Business Hours	\$25.00
		Reconnection After Business Hours	\$45.00
		Crew Charge per Field Call	\$100.00
Rule and Regulation 13	Temporary Installation and Removal of Service	Overhead Service	\$150.00
		Underground Service	

All fees will be reviewed annually and re-set where required to conform to current SMUD average costs for providing the services.

SMUD Credit and Meter Testing Deposits

Reference	Condition	Required Deposit
Rule and Regulation 6 Credit	Establishing new service with good credit standing	None
	New or existing service with record of bankruptcy or delinquent payments	<i>The greater of the following</i> ¹ : A. \$150.00 ² , or B. Twice the highest estimated monthly bill, or C. Twice the highest actual customer bill.
Rule and Regulation 17 Meter Testing	When the customer request for meter testing is within six months of its installation, or within six months of a previously requested test. For all other customer requests for meter tests	\$38.00 ³ None

Notes:

1. Refer to Rule and Regulation 6, Section H for terms on deposit retention and interest.
2. This value is set annually at twice the average monthly bill for the residential customer class, based on the preceding three years and rounded to the nearest \$10.00.
3. The deposit will be returned to the customer if the meter test finds the register is more than 2% fast or slow under conditions of normal operation.

Fees, Credits and Deposits

Special Meter Data Services

Category	Description of Charges	Application	Fee
Interval Metering Device	Installation of interval metering device Maintenance and replacement fee	One-time charge per install ¹ Monthly charge per device	\$150.00 \$21.00
Telecommunication Fees	Data Management fee ² Special metering equipment ³ Dedicated phone line service for data transmission ⁴	Monthly charge per device Total cost x fixed monthly percent	\$5.00 1.29%
Energy Tracking Software Service	Enerlink Energy Profiler Online™	Per month per phone line Monthly software lease Monthly software lease	\$13.00 \$150.00 \$25.00
Campus Billing Option ⁵	Metering Charge ⁶	Per month per total meters less one, by the following service voltages: Secondary < 4 kilo-Volts (kV) Secondary > 4 kV Primary @ 12 kV Primary @ 21 kV Transmission @ 69 kV	\$10.00 \$61.00 \$79.00 \$105.00 \$624.00

Notes

- This charge will be waived for a device if the meter or end-use of interest is already equipped with SMUD-installed interval metering equipment connected to a phone line.
- This charge only applies to devices used for the Energy Profiler Online service.
- Non-standard equipment and devices, identified by SMUD field staff as required in some circumstances.
- This is an optional SMUD service. The customer can choose to pay their own phone bills.
- This option is available to commercial customers for consolidating multiple accounts, located on a contiguous site, onto a single SMUD bill.
- Program participants must also pay for all relevant metering and telecommunication charges.