

Return to: Energy Branch
Room 2011

E-4**

PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

EVALUATION & COMPLIANCE DIVISION
Energy Branch

RESOLUTION E-2080
April 16, 1986

RESOLUTION

ORDER AUTHORIZING PACIFIC GAS AND ELECTRIC COMPANY (PG&E) TO REVISE SCHEDULE NO. A-21 - MEDIUM GENERAL TIME-OF-USE SERVICE, SCHEDULE NO. A-22 - LARGE GENERAL TIME-OF-USE SERVICE, AND TO IMPLEMENT FOUR NEW TIME-OF-USE SCHEDULES TO BE CONSISTENT WITH THE REQUIREMENTS OF SENATE BILL 1148

BACKGROUND

By Advice Letter 1098-E, filed December 27, 1985 Pacific Gas and Electric Company (PG&E) requests authorization to revise Schedule A-21 - Medium General Time-of-Use Service, Schedule No. A-22 - Large General Time-of-Use Service, and to implement four new time of use schedules to be consistent with the requirements of Senate Bill 1148.

Advice Letter 1098-E is filed in compliance with Section 743 of the California Public Utilities Code; that statute was established by Senate Bill 1148 and was signed into law on October 1, 1985. Section 743 requires every electrical corporation in California that serves a steel producer, frozen food processor, or other "heavy-industry" customer (as defined by the electrical corporation) to file special rates applicable to those customers on or before January 2, 1986. Section 216 of the Public Utilities Code defines an electrical corporation as a "public utility". This Commission is required to approve tariffs in compliance with the legislation by July 1, 1986.

In Section 743, steel producers are defined as California producers (in 1981 or after) of at least 75,000 tons of rolled or finished steel annually with an electric demand of at least 4,000 kilowatts at one plant location; frozen food processors are all customers classified under Standard Industrial Classifications 2037 and 2038, whatever their electric demand. PG&E proposes to define "heavy-industry" customers as all accounts with maximum monthly demands of at least 500 kilowatts (customers

currently served on Schedules A-21, A-22, or A-18). Thus, all steel producers and frozen food processors with demands of at least 500 kilowatts are also heavy-industry customers.

Section 743 contains a number of criteria that heavy-industry rates must meet. The rates must:

- (1) Not increase rates for other classes of customers;
- (2) Be below the system average rate;
- (3) Consider "specific service requirements of individual customers, including...reliability, interruptibility, quantity of use, and requirements of voltage;"
- (4) Provide incentive to achieve conservation, improvements in efficiency, and time-of-day load shifting;
- (5) Allow "implementation at the option of the customer"; and
- (6) Allow the "benefits from any cost savings" to accrue to customers taking service under the new rates.

In accordance with Senate Bill 1148 PG&E requests that the tariffs in the above advice letter filing be made effective on or before July 1, 1986. However, PG&E desires approval of the filing at least 60 days before the effective date in order to develop billing and customer-service procedures, to inform its representatives and eligible customers, and to purchase and install the equipment necessary to implement these tariffs in an orderly fashion. Moreover, because the agricultural growing season typically begins before July, PG&E requests that consideration be given to approving proposed Schedules PA-4A and PA-4B - Small and Large Agricultural Time-of-Use Service, by April 1, 1986.

POSITION OF PARTIES

Comments were received by the Public Staff Division (PSD). Their comments are summarized below:

PSD states that:

"The Public Staff Division has extensively reviewed Pacific Gas and Electric Company's Advice Letter Filing No. 1098-E. This advice letter was filed on December 27, 1985, in compliance with the requirements of Section 743 of the Public Utilities Code, established in law by Senate Bill 1148. The advice letter

proposes changes and new service options for PG&E's current A-21 and A-22 schedules, adds several new time-of-use schedules (A-6, A-11, PA-4A and PA-4B), and supersedes three schedules (A-18, AS-18 and AS-23). The Public Staff is only now commenting on these proposals because the advice letter is quite comprehensive. Furthermore, it incorporates complex changes in form to the company's tariffs that were almost simultaneously proposed in PG&E's application for a general rate increase. The Public Staff, therefore, has analyzed the proposed changes in greater depth as a part of its development of rate design proposals in PG&E's general rate case".

"The Public Staff recognizes that the company's advice letter complies with Public Utilities Code Section 743, which requires the development of service options for "heavy industrial" electric customers, including steel producers and frozen food processors. Optional rates are to consider 'specific service requirements of individual customers, including...reliability, interruptibility, quantity of use, and requirements of voltage'. The rates are to provide incentives to achieve conservation, improvements in efficiency, and time-of-day load shifting while allowing 'benefit from any cost savings' to accrue to customers taking service under the new rates. While these rates are to be below the system average rate, they are not to increase rates for other classes of customers".

"The Public Staff Division believes that PG&E's rate proposal is an interesting one in the context of its general rate case; however, the proposal is too comprehensive and far reaching for adoption by Commission resolution. For example, the filing would create large customer charges for the A-22 schedule where none existed before, would substantially increase demand charges or certain rate schedules, and would substantially redefine time-of-use periods". Many of the protests and comments that the Commission has received from the University of California, SKS Die Casting and Machining, Inc., California Steel Producers Group, USS POSCO Industries, California Cast Metals Association, Vulcan Steel Foundry Company, California Farm Bureau Federation, Hercules Properties, Inc., California League of Food Processors, and the Law Firm of Downey, Brand, Seymour and Rohwer have addressed these concerns. These customers face significant changes to their rate schedules without the hearing process normally incorporated into the general rate case. It should be noted that many of these affected customers are not steel producers, whose rates are directly governed by Public Utilities Code Sections 742 and 743.

The Public Staff Division proposes to modify the tariffs submitted with PG&E's Advice Letter so that they still respond to the requirements of Public Utilities Code Section 743 without raising the substantive issues discussed above. PSD has had informal discussions with company representatives regarding this matter. PG&E stipulates to the rates contained in the new set of proposed tariff sheets shown as Attachment A to this Resolution.

Copies of PSD's "Comments of the Public Staff Division on Pacific Gas and Electric Company Advice Letter No. 1098-E" have been served on all parties to PG&E's general rate case, the service list attached to the original advice letter filing, and to parties who have submitted protests or comments on Advice Letter No. 1098-E. One letter of protest was received from USS Posco Industries reiterating their original concerns in their first letter of protest dated February 10, 1986.

As part of PSD's proposed modifications to PG&E's Advice Letter Filing 1098-E, PSD recommends that the Commission close Schedule A-18 - Time-Metered Interruptible Service, Schedule PA-2 - Time-Metered Varying Agricultural Power and Schedule PA-3 - Experimental Agricultural Time-of-Use to new customers.

FINDINGS

1. PG&E stipulates to the rates contained in the new set of proposed rates attached to this resolution.
2. PSD recommends that the Commission close Schedule A-18, Schedule PA-2 and Schedule PA-3 to all new customers.
3. The implementation of a heavy-industrial tariff under Section 743 of the Public Utilities Code supersedes any tariff fixed or rate implemented under Section 742 of said Code. Therefore, PG&E's currently effective steel producers tariff Schedules AS-18 and AS-23 shall be withdrawn by this Resolution and shall be superseded by the tariffs filed under Advice Letter 1098-E.
4. Schedules A-21, Medium General Time-of-Use Service and A-22, Large General Time-of-Use Service have been revised to be consistent with Senate Bill 1148. Schedules A-6, Small Time-of-Use Service; A-11, Medium Time-of-Use Service; PA-4A, Small Agricultural Time-of-Use Service; and PA-4B, Large Agricultural Time-of-Use Service were developed to be consistent with Senate Bill 1148. It is the intent of Senate Bill 1148 that the electrical system savings in the long run shall accrue to the industrial customers served under this rate. However, to the extent that there is any revenue shortfall resulting from the implementation of these schedules, that is greater than the corresponding reduction in expenses occurring as customers shift their load, the revenue shortfall shall not be spread to other classes of customers in subsequent ECAC, ERAM, AER or other general rate adjustment proceedings.
5. The attached tariffs filed under Advice Letter 1098-E fully comply with the intent of Senate Bill 1148 and Section 743 of the Public Utilities Code.
6. The attached tariff schedules shall become effective on May 1, 1986.
7. Public notification of this filing has been made by mailing copies to other utilities, governmental agencies, and to all interested parties who requested such notification. The Commission staff has received a number of protests in this matter.

A number of protests that the Commission had received addressed concerns that this filing would create large customer charges for the A-22 Schedule where none existed before, would substantially increase demand charges for certain rate schedules, and would substantially redefine time-of-use periods. PSD has addressed the concerns of the protestants and has incorporated their changes in the new tariffs attached to this Resolution.

8. The staff of the Energy Branch of the Evaluation and Compliance Division has reviewed this filing and recommends its approval; however, at this time to afford the potential customers the opportunity to obtain service under these schedules during the forthcoming Spring and Summer months these rates should be further scrutinized in PG&E's general rate case Application No. 85-12-050.

THEREFORE:

1. Pacific Gas and Electric Company is authorized by Section 454 of the Public Utilities Code and Section X.A. of General Order 96-A to place the above advice letter into effect on May 1, 1986.

2. Existing steel producers Schedules AS-18 and AS-23 shall be withdrawn by this Resolution effective 60 days from its adoption and shall be superseded by the adopted tariffs which are attached to this Resolution.

3. PG&E shall include new language to the Applicability portion of Schedules A-18 - Time-Metered Interruptible Service, PA-2 - Time-Varying Agricultural Power and PA-3 - Experimental Agricultural Time-of-Use which closes service to all new customers.

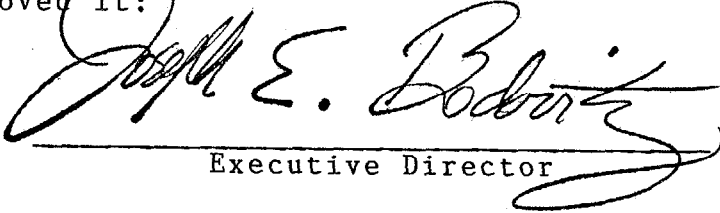
4. The above Advice Letter 1098-E and the accompanying tariff sheets to this Resolution shall be marked to show that they were authorized for filing by Commission Resolution E-2080; however, further opportunity to review these schedules and provide as appropriate recommendations will be afforded to interested parties in the current PG&E general rate case Application No. 85-12-050.

5. To the extent that there is any revenue shortfall resulting from the implementation of Schedules A-21, A-22, A-6, A-11, PA-4A, and PA-4B, that is greater than the corresponding reduction in expenses occurring as customers shift their loads, the revenue shortfall shall not be spread to other classes of customers in subsequent ECAC, ERAM, AER or other general rate adjustment proceedings.

6. Consideration of the withdrawal of "Steel Producer" Schedules AS-18 and AS-23, as required by Senate Bill 1148 and Public Utilities Code Section 743 will be deferred until our May 7, 1986 Commission Meeting, after Public Staff Division and Pacific Gas and Electric Company have an opportunity to respond to protests from these parties.

7. PG&E shall file with this Commission within five days of the effective date of this Resolution the tariff sheets attached hereto which will become effective on May 1, 1986. This Resolution is effective today.

I certify that this Resolution was adopted by the Public Utilities Commission at its regular meeting on April 16, 1986. The following Commissioners approved it:


Executive Director

DONALD VIAL
President
VICTOR CALVO
PRISCILLA C. GREW
FREDERICK R. DUDA
Commissioners

SCHEDULE A-21 -- MEDIUM GENERAL TIME-OF-USE SERVICE

(T)

APPLICABILITY: This schedule is applicable to polyphase alternating current service for all existing customers whose maximum demand in any time period was 500 kilowatts or greater for three consecutive months and to new customers whose monthly maximum demand is expected to be 500 kilowatts or greater. New customers may, at their option, elect to be served under any other applicable schedule until their monthly maximum demand in any time period is 500 kilowatts or greater for three consecutive months. Any customer served under this schedule whose monthly maximum demand in any time period has fallen below 500 kilowatts for any 12 consecutive months may, at its option, continue to receive service under this schedule or under any other applicable schedule. This schedule is not applicable to service for which Schedule A-22 is applicable.

TERRITORY: The entire territory served.

RATES:

CURTAILABLE CUSTOMER CHARGE..... \$190
INTERRUPTIBLE CUSTOMER CHARGE (per month) \$200

SERVICE RELIABILITY OPTION	Maximum Demand Charge kw/mo.	ENERGY CHARGE (per kWh) ^{1/}						Periods A & B Incre- mental Off- Peak ^{3/}
		PERIOD A			PERIOD B			
		Peak	Partial Peak	Off- Peak	Peak	Partial Peak	Off- Peak	
Firm	\$1.70	\$.13220	\$.07806	\$.06562	\$.10759	\$.08277	\$.07404	
Curtaillable ^{2/}								
Option A	1.50	.11545	.06817	.05730	.09396	.07228	.06466	
Option B	1.00	.11339	.06695	.05628	.09228	.07099	.06350	
Option C	.85	.11263	.06650	.05590	.09166	.07051	.06308	
Interruptible ^{2/}								
Option A	.40	.10397	.06139	.05161	.08462	.06510	.05823	.03800
Option B	.25	.09663	.05705	.04796	.07864	.06050	.05412	.03800
Option C	.00	.09632	.05688	.04781	.07839	.06031	.05395	.03800

SPECIAL CONDITIONS:

1. TIME PERIODS:

On-Peak, partial-peak, and off-peak shall be defined as follows:

Period A (meter readings from May 1 through September 30):

On-Peak	12:30 p.m. to 6:30 p.m.	Monday through Friday, except holidays.
Partial-Peak	8:30 a.m. to 12:30 p.m.	Monday through Friday, except holidays.
	6:30 p.m. to 10:30 p.m.	Monday through Friday, except holidays.
	8:30 a.m. to 10:30 p.m.	Saturday, except holidays.
Off-Peak	10:30 p.m. to 8:30 a.m.	Monday through Saturday, except holidays.
	All day	Sundays and holidays.

Period B (meter readings from October 1 through April 30):

On-Peak	4:30 p.m. to 8:30 p.m.	Monday through Friday, except holidays.
Partial-Peak	8:30 a.m. to 4:30 p.m.	Monday through Friday, except holidays.
	8:30 p.m. to 10:30 p.m.	Monday through Friday, except holidays.
	8:30 a.m. to 10:30 p.m.	Saturday, except holidays.
Off-Peak	10:30 p.m. to 8:30 a.m.	Monday through Saturday, except holidays.
	All day	Sundays and holidays.

Holidays: The holidays specified in this schedule include New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, and Christmas Day, as said days in specified in Public Law 90-363 (U.S.C.A. Section 6103).

^{1/}The Energy Charge does not include possible power factor adjustment. The base rate, adjustment rate, and other components of the energy charge can be found in Section K of the Preliminary Statement.

^{2/}Non-firm service reliability options are described in Special Condition 9.

^{3/}Incremental Off-Peak Use is defined in Special Condition 11 and is applicable to the interruptible options only.

(T)

SCHEDULE A-21 -- MEDIUM GENERAL TIME-OF-USE SERVICE (Cont'd.)

(T)

SPECIAL CONDITIONS: (Continued)

When billing includes use in both Period A and Period B, no proration will be made where meter readings are taken within one work day (Monday through Friday, inclusive) of either May 1 or October 1 of any year. In such cases, the billing will be based on the rates and charges of the time period that contains the predominant number of days in the billing period.

2. **MAXIMUM DEMAND:** The maximum demand in any time period will be maximum average power taken during any 30-minute interval in the time period, but not less than the diversified resistance welder load computed in accordance with Rule 2. However, in cases where the use of energy is intermittent or subject to violent fluctuations, a 5-minute or a 15-minute interval may be used.

3. **VOLTAGE ADJUSTMENT:** The above charges are applicable without adjustment for voltage when (a) delivery is made at less than 2 kV, or (b) when delivery is made by means of Utility-owned transformers at a distribution voltage other than a standard primary distribution voltage, or (c) when delivery is made at a voltage that requires more than one stage of transformation from transmission voltage. When delivery is made at the standard primary distribution voltage at 2 kV or above available in the area from the Utility's distribution line, or where the Utility has elected to supply service at a standard primary distribution voltage from a transmission line for its operating convenience, from Utility-owned transformers on the customer's property, the charges calculated on the above base rates for any month will be reduced by \$0.50 per kW of maximum demand in the month. When delivery is made from an existing available transmission line (60 kV and above) without Utility-owned transformation, such charges will be reduced by \$1.00 per kW of maximum demand in the month. Where additional facilities are installed at the customer's request or convenience, such facilities may be installed pursuant to Section 1 of Rule 2.

4. **POWER FACTOR ADJUSTMENT:** The monthly charge, excluding that portion attributed to the adjustment rate, will be decreased or increased, respectively, by 0.1 percent for each 1 percent that the average power factor of the customer's load in the month was greater or less than 85 percent. The average power factor will be computed (to the nearest whole per cent) from the ratio of lagging kilovolt-ampere-hours to kilowatt-hours consumed in the month.

5. **FACILITY CHARGE:** When the Utility installs new or additional facilities to provide regular electric service under this schedule, the customer shall pay any nonrefundable charges and perform any obligations that may be required under the Utility's applicable line extension or service connection rules.

- a. **ADDITIONAL CHARGE:** In addition, a Facilities Charge and monthly ownership charge may apply. The ownership charge will be based on the Facilities Charge for special facilities as described in Section 1 of Rule 2, and the Facilities Charge shall be the amount by which the estimated installed cost of the above facilities exceeds the base annual revenue (see below) to be derived by the Utility from the customer's projected electric load.
- b. **BASE ANNUAL REVENUE:** Base annual revenue is the total 12-month revenue excluding that portion attributed to the adjustment rate.
- c. **DISCONTINUANCE OF USE:** Where the Utility's estimated installed cost of the above facilities does not exceed the base annual revenue, upon discontinuance of the use of such facilities, the customer shall pay the Utility, on demand, its net installation and removal cost for the facilities. However, if electric service from the facilities has been used in a bona fide manner for a period of 36 consecutive months, the customer's obligation will be reduced at the rate of 1-2/3 percent for each month of service in excess of the first 12 months. Where the Utility's estimated installed cost of the above facilities exceeds the base annual revenue, upon discontinuance of the use of such facilities the customer shall pay the Utility, on demand, its net installation and removal cost for such facilities without regard to duration of use. Any Facilities Charge paid by the customer shall be applied as a credit toward the net installation and removal costs.
- d. **SPECIAL FACILITIES:** Where the customer requests special facilities which are in addition to, or in substitution for, or otherwise cause the Utility to incur additional costs above those for regular service facilities which the Utility would normally install, and the Utility determines that it is able to provide such special facilities, such facilities will be provided in accordance with Section 1 of Rule 2. (T)

(Continued)

SCHEDULE A-21 -- LARGE GENERAL TIME-OF-USE SERVICE (Cont'd.)

(T)

SPECIAL CONDITIONS: (Continued)

6. **CHARGES FOR TRANSFORMER LOSSES:** Service under this schedule may, at the Utility's option, be metered at a voltage other than the Utility's delivery voltage. When this occurs, the meter readings for kilowatt-hours, lagging kilovolt-ampere-hours, and kilowatt demands during each billing period will be adjusted upward by the amount specified in Section D.3.c of Electric Rule 2 for transformer losses for each stage of transformation from the Utility's transmission facilities.

7. **CONTRACT:** A contract will be required for a period of 3 years when service is first rendered under this schedule and then for subsequent periods of one year thereafter, continuing until cancelled by either party by written notice one year in advance of the end of the initial period or any subsequent period. A new contract will be required for any change in Service Reliability Option. However, if a customer requests to change non-firm service to firm or curtailable service, up to three years written notice may be required, depending upon the availability of the requested service at the time of such request, as determined solely by the Utility.

8. **VISUAL DISPLAY METERING:** Upon written request by the customer, the Utility will, within 180 days, provide and install visual display metering equipment near the present meter location to operate in parallel with the metering equipment used for billing purposes. The customer shall provide the required space and associated wiring for such installation in accordance with Rule 16.

9. **SERVICE RELIABILITY OPTIONS:** Customers served under this schedule who are able to reduce their demands by at least 500 kilowatts when additional capacity is needed by the Utility may elect to receive non-firm service. Customers who can completely interrupt their service in accordance with (c) and (d) below may take interruptible service; customers who can curtail only a portion of their demand, pursuant to (d) below, may take curtailable service.

a. **COMBINATION SERVICE:**

The Utility shall supply one meter set for each class of service per premises. Firm service to a premise receiving curtailable service may be measured through the same meter.

Interruptible service shall be separately metered and billed. The customer shall, at its expense, arrange its wiring such that interruptible service can be provided and metered at a single point. Any additional facilities required for a combination of interruptible and other service shall be provided as special facilities in accordance with Section 1 of Rule 2.

b. **FIRM SERVICE LEVEL:**

Customers receiving curtailable service must designate a Firm Service Level at least 500 kilowatts lower than their monthly average peak demand for each of the previous twelve billing periods. (Customers who have received service from the Utility for less than 12 months shall designate a Firm Service Level acceptable to the Utility.)

The Firm Service Level for interruptible service shall be zero.

The reduced demand charges for curtailable service shall be applied to the difference between the customer's average demand in the corresponding time period minus its Firm Service Level (but not less than zero). The demand charges for firm service shall be applied to the maximum demand less the above difference.

The reduced energy charges for curtailable service shall be applied to (a-b) where (a) is the number of kilowatt-hours used in the time period and (b) is the product of the Firm Service Level and the number of hours in the time period.

If the customer's average peak demand exceeds its Firm Service Level by less than 500 kilowatts for three consecutive months, the customer shall designate a new Firm Service Level at least 500 kilowatts lower than its monthly average peak demand for each of the previous 12 months. Customers may decrease their Firm Service Level effective with the beginning of any billing period on at least 30 days written notice. Upon written notice given between January 1 and February 1 of each year, curtailable-service customers may increase their Firm Service Level, provided that the load subject to curtailment is not less than 500 kW. This adjustment will be effective on the customer's first regular meter reading date on or after February 15 of that year.

(T)

(Continued)

SCHEDULE A-21 -- MEDIUM GENERAL TIME-OF-USE SERVICE (Cont'd.)

(T)

SPECIAL CONDITIONS: (Continued)

If the customer's average peak demand exceeds its Firm Service Level by less than 500 kilowatts for three consecutive months, the customer shall designate a new Firm Service Level at least 500 kilowatts lower than its monthly average peak demand for each of the previous 12 months. Customers may decrease their Firm Service Level effective with the beginning of any billing period on at least 30 days written notice. Upon written notice given between January 1 and February 1 of each year, curtailable-service customers may increase their Firm Service Level, provided that the load subject to curtailment is not less than 500 kW. This adjustment will be effective on the customer's first regular meter reading date on or after February 15 of that year.

- c. **AUTOMATIC INTERRUPTION:** Interruptible service shall be subject to automatic interruption. The Utility shall install, own, and maintain a digital underfrequency relay (or relays) with adjustable contacts set to close at 59.75 hertz (with a delay of six cycles) and the associated relay facilities necessary (in the sole opinion of the Utility) to interrupt electric power automatically if the frequency on the Utility's system drops to 59.75 hertz or below. If more than one underfrequency relay is required, it shall be provided as a special facility in accordance with Section 1 of Rule 2.

In addition to (or in lieu of) automatic interruption of electric power at or below 59.75 hertz, the Utility may require that electric power be interrupted automatically in the event of a reduction in voltage or other operating conditions as needed.

- d. **DEMAND REDUCTION BY CUSTOMER:** All electric power in excess of the Firm Service Level shall be subject to demand reduction by the customer upon notice from the Utility prior to statewide emergencies or when, in the Utility's sole judgment, a system condition exists or may exist which will impair the ability of the Utility to meet the demands of its other customers. The customer, upon notice from the Utility, shall reduce its demand for electric power in the manner and to the extent specified by the Utility.

During periods when demand reduction has been requested by the Utility, the customer shall receive the following bill credit per occurrence for each kilowatt of demand reduction below the Firm Service Level:

Option A	\$2.90 per kW
Option B	3.75 per kW
Option C	4.75 per kW

- e. **SERVICE RESUMPTION:** After any interruption or curtailment, whether automatic or by customer, the customer shall not resume use of interrupted or curtailed power except by permission from the Utility.
- f. **SERVICE OPTIONS:** Interruptible or curtailable service is available under one of the following service options:

	<u>Minimum Prior Notification</u>	<u>Maximum Interruption or Curtailment Length (hours)</u>	<u>Maximum Number of Interruptions Number of Curtailments (per year)</u>
Option A	1 hour	6	8
Option B	30 minutes	6	15
Option C	10 minutes	6	40

- g. **EXCESS DEMAND:** Excess demand is the amount by which the average demand during the interruption or curtailment exceeds the Firm Service Level. (T)
- h. **PENALTY FOR NON-COMPLIANCE:** If, at any time, a customer fails to reduce demand as specified by the Utility, it shall, in addition to all other charges, pay an amount equal to the following amounts per kilowatt of Excess Demand during the interruption or curtailment.

SCHEDULE A-21 -- MEDIUM GENERAL TIME-OF-USE SERVICE (Cont'd.)

(T)

SPECIAL CONDITIONS: (Continued)

	<u>Penalty Per Kilowatt Per Interruption or Curtailment</u>
Option A	\$2.90
Option B	3.75
Option C	4.75

The penalty per kilowatt shall be adjusted each January 1 to equal the effective discount per kilowatt per interruption or curtailment for the year ending the previous September 1.

- i. EMERGENCY DEMAND REDUCTION: During periods of emergency on the Utility's system, the customer may be requested to reduce its electric demand on less than the Minimum Prior Notification. The customer may be requested to reduce its demand within 10 minutes. The customer will be requested to use its best efforts to reduce demand within the required time. Penalties will not be applied to requests for emergency demand reduction within less notice time than the Minimum Prior Notification Period.
- j. COMMUNICATIONS: The customer shall provide, in accordance with the Utility's specifications and at the customer's sole expense, exclusive communication channels to the Utility's designated Control Center for the purpose of alarming, telemetering, and signaling. The Utility shall have the right to inspect and test communication channels upon reasonable notice to the customer.

(Continued)

SCHEDULE A-22 -- LARGE GENERAL TIME-OF-USE SERVICE

(T)

APPLICABILITY: This schedule is applicable to polyphase alternating current service for all existing customers whose maximum demand in any time period was 1,000 kilowatts or greater for three consecutive months and to new customers whose monthly maximum demand is expected to be 1,000 kilowatts or greater. New customers may, at their option, elect to be served under any other applicable schedule until their monthly maximum demand in any time period is 1,000 kilowatts or greater for three consecutive months. Any customer served under this schedule whose monthly maximum demand in any time period has fallen below 1,000 kilowatts for any 12 consecutive months may, at its option, continue to receive service under this schedule or under any other applicable schedule.

TERRITORY: The entire territory served.

RATES:

CURTAILABLE SERVICE CHARGE..... \$190
 INTERRUPTIBLE CUSTOMER CHARGE \$200

SERVICE RELIABILITY OPTION	Maximum Demand Charge kw/mo.	ENERGY CHARGE (per kWh) ^{1/}						Periods A & B Incre- mental Off- Peak ^{3/}
		PERIOD A			PERIOD B			
		Peak	Partial Peak	Off- Peak	Peak	Partial Peak	Off- Peak	
Firm	\$1.70	\$.11288	\$.09255	\$.06423	\$.10810	\$.08316	\$.06950	
Curtailable ^{2/}								
Option A	1.50	.09871	.08093	.05617	.09453	.07272	.06077	
Option B	1.00	.09776	.08016	.05563	.09362	.07202	.06019	
Option C	.85	.09740	.07986	.05542	.09328	.07176	.05997	
Interruptible ^{2/}								
Option A	.40	.08144	.06677	.04634	.07799	.06000	.05014	.03800
Option B	.25	.07950	.06518	.04524	.07613	.05857	.04895	.03800
Option C	.00	.07942	.06512	.04519	.07606	.05851	.04890	.03800

SPECIAL CONDITIONS:

1. TIME PERIODS:

On-Peak, partial-peak, and off-peak shall be defined as follows:

Period A (meter readings from May 1 through September 30):

On-Peak	12:30 p.m. to 6:30 p.m.	Monday through Friday, except holidays.
Partial-Peak	8:30 a.m. to 12:30 p.m.	Monday through Friday, except holidays.
	6:30 p.m. to 10:30 p.m.	Monday through Friday, except holidays.
	8:30 a.m. to 10:30 p.m.	Saturday, except holidays.
Off-Peak	10:30 p.m. to 8:30 a.m.	Monday through Saturday, except holidays.
	All day	Sundays and holidays.

Period B (meter readings from October 1 through April 30):

On-Peak	4:30 p.m. to 8:30 p.m.	Monday through Friday, except holidays.
Partial-Peak	8:30 a.m. to 4:30 p.m.	Monday through Friday, except holidays.
	8:30 p.m. to 10:30 p.m.	Monday through Friday, except holidays.
	8:30 a.m. to 10:30 p.m.	Saturday, except holidays.
Off-Peak	10:30 p.m. to 8:30 a.m.	Monday through Saturday, except holidays.
	All day	Sundays and holidays.

Holidays: The holidays specified in this schedule include New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, and Christmas Day, as said days in specified in Public Law 90-363 (U.S.C.A. Section 6103).

^{1/} The Energy Charge does not include possible power factor adjustment. The base rate, adjustment rate, and other components of the energy charge can be found in Section K of the Preliminary Statement. (T)

^{2/} Non-firm service reliability options are described in Special Condition 9.

^{3/} Incremental off-peak use is defined in Special Condition 10 and is applicable to the interruptible options only.

SCHEDULE A-22 -- LARGE GENERAL TIME-OF-USE SERVICE (Cont'd.)

(T)

SPECIAL CONDITIONS: (Continued)

When billing includes use in both Period A and Period B, no proration will be made where meter readings are taken within one work day (Monday through Friday, inclusive) of either May 1 or October 1 of any year. In such cases, the billing will be based on the rates and charges of the time period that contains the predominant number of days in the billing period.

2. **MAXIMUM DEMAND:** The maximum demand in any time period will be maximum average power taken during any 30-minute interval in the time period, but not less than the diversified resistance welder load computed in accordance with Rule 2; provided, that in cases where the use of energy is intermittent or subject to violent fluctuations, either a 5-minute or a 15-minute interval may be used.

3. **VOLTAGE ADJUSTMENT:** The above charges are applicable without adjustment for voltage when (a) delivery is made at less than 2 kV, or (b) when delivery is made by means of Utility-owned transformers at a distribution voltage other than a standard primary distribution voltage, or (c) when delivery is made at a voltage that requires more than one stage of transformation from transmission voltage. When delivery is made at the standard primary distribution voltage at 2 kV or above available in the area from the Utility's distribution line, or where the Utility has elected to supply service at a standard primary distribution voltage from a transmission line, for its operating convenience, from Utility-owned transformers on the customer's property, the charges calculated on the above base rates for any month will be reduced by \$0.50 per kW of maximum demand in the month. When delivery is made from an existing available transmission line (60 kV and above) without Utility-owned transformation, such charges will be reduced by \$1.00 per kW of maximum demand in the month. Where additional facilities are installed at the customer's request or convenience, such facilities may be installed pursuant to Section 1 of Rule 2.

4. **POWER FACTOR ADJUSTMENT:** The monthly charge, excluding that portion attributed to the adjustment rate, will be decreased or increased, respectively, by 0.1 percent for each 1 percent that the average power factor of the customer's load in the month was greater or less than 85 percent. The average power factor will be computed (to the nearest whole per cent) from the ratio of lagging kilovolt-ampere-hours to kilowatt-hours consumed in the month.

5. **FACILITY CHARGE:** When the Utility installs new or additional facilities to provide regular electric service under this schedule, the customer shall pay any nonrefundable charges and perform any obligations that may be required under the Utility's applicable line extension or service connection rules.

- a. **ADDITIONAL CHARGE:** In addition, a Facilities Charge and monthly ownership charge may apply. The ownership charge will be based on the Facilities Charge as described for special facilities in Section 1 of Rule 2 and the Facilities Charge shall be the amount by which the estimated installed cost of the above facilities exceeds the base annual revenue (see below) to be derived from the customer's projected electric load.
- b. **BASE ANNUAL REVENUE:** Base annual revenue is the total 12-month revenue excluding that portion attributed to the adjustment rate.
- c. **DISCONTINUANCE OF USE:** Where the Utility's estimated installed cost of the above facilities does not exceed the base annual revenue, upon discontinuance of the use of such facilities, the customer shall pay the Utility, on demand, its net installation and removal cost for such facilities, except that if electric service from such facilities has been used in a bona fide manner for a period of 36 consecutive months, the customer's obligation will be reduced at the rate of 1-2/3 percent for each month of service in excess of the first 12 months. Where the Utility's estimated installed cost of the above facilities exceeds the base annual revenue, upon discontinuance of the use of such facilities the customer shall pay the Utility, on demand, its net installation and removal cost for such facilities without regard to duration of use. Any Facilities Charge paid by the customer shall be applied as a credit toward the net installation and removal costs.
- d. **SPECIAL FACILITIES:** Where the customer requests special facilities which are in addition to, or in substitution for, or otherwise cause the Utility to incur additional costs above those for regular service facilities which the Utility would normally install, and the Utility determines that it is able to provide such special facilities, such facilities will be provided in accordance with Section 1 of Rule 2. (T)

(Continued)

SCHEDULE A-22 -- LARGE GENERAL TIME-OF-USE SERVICE (Cont'd.)

(T)

SPECIAL CONDITIONS: (Continued)

6. **CHARGES FOR TRANSFORMER LOSSES:** Service under this schedule may, at the Utility's option, be metered at a voltage other than the Utility's delivery voltage. When this occurs, the meter readings for kilowatt-hours, lagging kilovolt-ampere-hours, and kilowatt demands during each billing period will be adjusted upward by the amount specified in Section D.3.c of Electric Rule 2 for transformer losses for each stage of transformation from the Utility's transmission facilities.

7. **CONTRACT:** A contract will be required for a period of 3 years when service is first rendered under this schedule and then for subsequent periods of one year thereafter, continuing until cancelled by either party by written notice one year in advance of the end of the initial period or any subsequent period. A new contract will be required for any change in Service Reliability Option. However, if a customer requests to change non-firm service to firm or curtailable service, up to three years written notice may be required, depending upon the availability of the requested service at the time of such request, as determined solely by the Utility.

8. **VISUAL DISPLAY METERING:** Upon written request by the customer, the Utility will, within 180 days, provide and install visual display metering equipment near the present meter location to operate in parallel with the metering equipment used for billing purposes. The customer shall provide the required space and associated wiring for such installation in accordance with Rule 16.

9. **SERVICE RELIABILITY OPTIONS:** Customers served under this schedule who are able to reduce their demands by at least 500 kilowatts when additional capacity is needed by the Utility may elect to receive non-firm service. Customers who can completely interrupt their service in accordance with (c) and (d) below may take interruptible service; customers who can curtail only a portion of their demand, pursuant to (d) below, may take curtailable service.

a. **COMBINATION SERVICE:**

The Utility shall supply one meter set for each class of service per premises. Firm service to a premise receiving curtailable service may be measured through the same meter.

Interruptible service shall be separately metered and billed. The customer shall, at its expense, arrange its wiring such that interruptible service can be provided and metered at a single point. Any additional facilities required for a combination of interruptible and other service shall be provided as special facilities in accordance with Section 1 of Rule 2.

b. **FIRM SERVICE LEVEL:**

Customers receiving curtailable service must designate a Firm Service Level at least 500 kilowatts lower than their monthly average peak demand for each of the previous twelve billing periods. (Customers who have received service from the Utility for less than 12 months shall designate a Firm Service Level acceptable to the Utility.)

The Firm Service Level for interruptible service shall be zero.

The reduced demand charges for curtailable service shall be applied to the difference between the customer's average demand in the corresponding time period minus its Firm Service Level (but not less than zero). The demand charges for firm service shall be applied to the maximum demand less the above difference.

The reduced energy charges for curtailable service shall be applied to (a-b) where (a) is the number of kilowatt-hours used in the time period and (b) is the product of the Firm Service Level and the number of hours in the time period.

If the customer's average peak demand exceeds its Firm Service Level by less than 500 kilowatts for three consecutive months, the customer shall designate a new Firm Service Level at least 500 kilowatts lower than its monthly average peak demand for each of the previous 12 months. Customers may decrease their Firm Service Level effective with the beginning of any billing period on at least 30 days written notice. Upon written notice given between January 1 and February 1 of each year, curtailable-service customers may increase their Firm Service Level, provided that the load subject to curtailment is not less than 500 kW. This adjustment will be effective on the customer's first regular meter reading date on or after February 15 of that year.

(T)

(Continued)

SCHEDULE A-22 -- LARGE TIME-OF-USE GENERAL SERVICE (Cont'd.)

(T)

SPECIAL CONDITIONS: (Continued)

- c. **AUTOMATIC INTERRUPTION:** Interruptible service shall be subject to automatic interruption. The Utility shall install, own, and maintain a digital underfrequency relay (or relays) with adjustable contacts set to close at 59.75 hertz (with a delay of six cycles) and the associated relay facilities necessary (in the sole opinion of the Utility) to interrupt electric power automatically if the frequency on the Utility's system drops to 59.75 hertz or below. If more than one underfrequency relay is required, it shall be provided as a special facility in accordance with Section 1 of Rule 2.

In addition to (or in lieu of) automatic interruption of electric power at or below 59.75 hertz, the Utility may require that electric power be interrupted automatically in the event of a reduction in voltage or other operating conditions as needed.

- d. **DEMAND REDUCTION BY CUSTOMER:** All electric power in excess of the Firm Service Level shall be subject to demand reduction by the customer upon notice from the Utility prior to statewide emergencies or when, in the Utility's sole judgment, a system condition exists or may exist which will impair the ability of the Utility to meet the demands of its other customers. The customer, upon notice from the Utility, shall reduce its demand for electric power in the manner and to the extent specified by the Utility.

During periods when demand reduction has been requested by the Utility, the customer shall receive the following bill credit per occurrence for each kilowatt that the average demand is below the Firm Service Level:

Option A	\$5.00 per kW
Option B	6.50 per kW
Option C	8.25 per kW

- e. **SERVICE RESUMPTION:** After any interruption or curtailment, whether automatic or by customer, the customer shall not resume use of interrupted or curtailed power except by permission from the Utility.
- f. **SERVICE OPTIONS:** Interruptible or curtailable service is available under one of the following service options:

	<u>Minimum Prior Notification</u>	<u>Maximum Interruption or Curtailment Length (hours)</u>	<u>Maximum Number of Interruptions Number of Curtailments (per year)</u>
Option A	1 hour	6	8
Option B	30 minutes	6	15
Option C	10 minutes	6	40

- g. **EXCESS DEMAND:** Excess demand is the amount by which the average demand during the interruption or curtailment exceeds the Firm Service Level.
- h. **PENALTY FOR NON-COMPLIANCE:** If, at any time, a customer fails to reduce demand as specified by the Utility, it shall, in addition to all other charges, pay an amount equal to the following amounts per kilowatt of Excess Demand during the interruption or curtailment.

Penalty Per Kilowatt Per Interruption or Curtailment

Option A	\$ 5.00
Option B	6.50
Option C	8.25

The penalty per kilowatt shall be adjusted each January 1 to equal the effective discount per kilowatt per interruption or curtailment for the year ending the previous September 1.

(T)
(Continued)

SCHEDULE A-22 -- LARGE GENERAL TIME-OF-USE SERVICE (Cont'd.)

(T)

SPECIAL CONDITIONS: (Continued)

- i. **EMERGENCY DEMAND REDUCTION:** During periods of emergency on the Utility's system, the customer may be requested to reduce its electric demand on less than the Minimum Prior Notification. The customer may be requested to reduce its demand within 10 minutes. The customer will be requested to use its best efforts to reduce demand within the required time. Penalties will not be applied to requests for emergency demand reduction within less notice time than the Minimum Prior Notification Period.
 - j. **COMMUNICATIONS:** The customer shall provide, in accordance with the Utility's specifications and at the customer's sole expense, exclusive communication channels to the Utility's designated Control Center for the purpose of alarming, telemetering, and signaling. The Utility shall have the right to inspect and test communication channels upon reasonable notice to the customer.
10. **INCREMENTAL OFF-PEAK USE:** All incremental off-peak use in excess of 100,000 kWh shall be billed at the incremental off-peak rate and may not exceed total off-peak use in a billing month. Incremental off-peak use is defined as follows:
- (a) **First Year:** Off-peak energy use in excess of such use during the corresponding billing month of the previous year, adjusted by the ratio of off-peak hours for the two billing months. To determine off-peak energy use for a billing period prior to the effective date of this schedule, partial-peak use shall be added to off-peak use.
 - (b) **Second through Fifth Years:** (a), plus 70 percent of incremental off-peak use during the corresponding billing month of the previous year. (Incremental off-peak use is reduced to zero in the fifth year following each initial load increase.)

Unless extended by the California Public Utilities Commission, this Special Condition shall be closed to new loads as of August 31, 1990.

(T)

SCHEDULE A-6 -- SMALL TIME-OF-USE SERVICE

(N)

APPLICABILITY: This voluntary schedule is applicable to single-phase or polyphase alternating current service, or to a combination. This schedule is not available for service for which Schedule A-21 or A-22 is applicable, nor to single-phase service for which a baseline allowance is available, nor to residential service for which a residential schedule is applicable. Service under this schedule is provided at the sole option of the Utility based upon the suitability of service and the availability of metering equipment.

TERRITORY: The entire territory served.

RATES:

METER CHARGE (per meter per month) \$7.03

ENERGY CHARGE (per kWh):	<u>PERIOD A</u>	<u>PERIOD B</u>
On-Peak	\$.25007	\$.24325
Partial-Peak	\$.08000	\$.08000
Off-Peak	\$.06000	\$.06000

SPECIAL CONDITIONS:

1. TIME PERIODS:

On-Peak, partial-peak, and off-peak shall be defined as follows:

Period A (meter readings from May 1 through September 30):

On-Peak	12:30 p.m. to 6:30 p.m.	Monday through Friday, except holidays.
Partial-Peak	8:30 a.m. to 12:30 p.m.	Monday through Friday, except holidays.
	6:30 p.m. to 10:30 p.m.	Monday through Friday, except holidays.
	8:30 a.m. to 10:30 p.m.	Saturday, except holidays.
Off-Peak	10:30 p.m. to 8:30 a.m.	Monday through Saturday, except holidays.
	All day	Sundays and holidays.

Period B (meter readings from October 1 through April 30):

On-Peak	4:30 p.m. to 8:30 p.m.	Monday through Friday, except holidays.
Partial-Peak	8:30 a.m. to 4:30 p.m.	Monday through Friday, except holidays.
	8:30 p.m. to 10:30 p.m.	Monday through Friday, except holidays.
	8:30 a.m. to 10:30 p.m.	Saturday, except holidays.
Off-Peak	10:30 p.m. to 8:30 a.m.	Monday through Saturday, except holidays.
	All day	Sundays and holidays.

Holidays: The holidays specified in this schedule include New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, and Christmas Day, as said days in specified in Public Law 90-363 (U.S.C.A. Section 6103).

2. **Contract:** For customers who use service for only part of the year, this schedule is applicable only on an annual contract. (N)

SCHEDULE A-11 -- MEDIUM TIME-OF-USE SERVICE

(N)

APPLICABILITY: This voluntary schedule is applicable to polyphase alternating current service to customers whose monthly maximum demand does not exceed 500 kW in any time period for any three consecutive months. Service under this schedule is provided at the sole option of the Utility based upon suitability of service and the availability of metering equipment.

TERRITORY: The entire territory served.

RATES:

METER CHARGE (per meter per month) \$ 7.24

DEMAND CHARGE (per kW of maximum demand per month) \$ 1.70

*ENERGY CHARGE (per kWh):	<u>PERIOD A</u>	<u>PERIOD B</u>
On-Peak	\$.25159	\$.18322
Partial-Peak	\$.07000	\$.07000
Off-Peak	\$.05000	\$.05000

MINIMUM CHARGE: \$750 per account per billing month.

SPECIAL CONDITIONS:

1. TIME PERIODS:

On-Peak, partial-peak, and off-peak shall be defined as follows:

Period A (meter readings from May 1 through September 30):

On-Peak	12:30 p.m. to 6:30 p.m.	Monday through Friday, except holidays.
Partial-Peak	8:30 a.m. to 12:30 p.m.	Monday through Friday, except holidays.
	6:30 p.m. to 10:30 p.m.	Monday through Friday, except holidays.
	8:30 a.m. to 10:30 p.m.	Saturday, except holidays.
Off-Peak	10:30 p.m. to 8:30 a.m.	Monday through Saturday, except holidays.
	All day	Sundays and holidays.

Period B (meter readings from October 1 through April 30):

On-Peak	4:30 p.m. to 8:30 p.m.	Monday through Friday, except holidays.
Partial-Peak	8:30 a.m. to 4:30 p.m.	Monday through Friday, except holidays.
	8:30 p.m. to 10:30 p.m.	Monday through Friday, except holidays.
	8:30 a.m. to 10:30 p.m.	Saturday, except holidays.
Off-Peak	10:30 p.m. to 8:30 a.m.	Monday through Saturday, except holidays.
	All day	Sundays and holidays.

Holidays: The holidays specified in this schedule include New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, and Christmas Day, as said days in specified in Public Law 90-363 (U.S.C.A. Section 6103).

When billing includes use in both Period A and Period B, no proration of charges between Period A and Period B will be made where meter readings are taken within one work day (Monday through Friday inclusive) of either May 1 or October 1 of any year. In such cases the billing will be based on the rates and charges of either Period A and Period B, whichever contains the largest number of days in the billing period.

2. **MAXIMUM DEMAND:** The maximum demand in any time period will be maximum average power taken during any 15-minute interval in the time period, but not less than the diversified resistance welder load computed in accordance with Rule 2. However, when the recorded monthly maximum demand has exceeded 400 kW for three consecutive months, and thereafter until it has fallen below 300 kW for twelve consecutive months, a 30-minute interval will be used. In cases where the use of energy is intermittent or subject to violent fluctuations, a 5-minute or a 15-minute interval may be used.

*The Energy Charge does not include possible power factor adjustment. The base rate, adjustment rate, and other components of the energy charge can be found in Section K of the Preliminary Statement.

(N)

(Continued)

SPECIAL CONDITIONS (Continued)

3. **VOLTAGE ADJUSTMENT:** The above charges are applicable without adjustment for voltage when (a) delivery is made at less than 2 kV, or (b) when delivery is made by means of Utility-owned transformers at a distribution voltage other than a standard primary distribution voltage, or (c) when delivery is made at a voltage that requires more than one stage of transformation from transmission voltage. When delivery is made at the standard primary distribution voltage at 2 kV or above available in the area from the Utility's distribution line, or where the Utility has elected to supply service at a standard primary distribution voltage from a transmission line, for its operating convenience, from Utility-owned transformers on the customer's property, the charges calculated on the above base rates for any month will be reduced by \$0.50 per kW of maximum demand in the month. When delivery is made from an existing available transmission line (60 kV and above) without Utility-owned transformation, such charges will be reduced by \$1.00 per kW of maximum demand in the month. Where additional facilities are installed at the customer's request or convenience, such facilities may be installed pursuant to Section 1 of Rule 2.

4. **POWER FACTOR:** When the billing demand has exceeded 400 kW for three consecutive months and thereafter until it has fallen below 300 kW for twelve consecutive months, bills will be adjusted for weighted monthly average power factor as follows: the base-rate portion of the monthly charge, comprising the Meter Charge, Demand Charge, and the base rate part of the Energy Charge (including the voltage adjustment, if applicable) will be decreased or increased, respectively, by 0.1% for each 1% that the average power factor of customer's load in the month was greater or less than 85%. The average power factor to be computed (to the nearest whole percent) from the ratio of lagging kilovolt ampere hours to kilowatthours consumed in the month.

5. For customers who use service for only part of the year, this schedule is applicable only on an annual contract.

(N)

SCHEDULE PA-4A -- SMALL AGRICULTURAL TIME-OF-USE SERVICE

(N)

APPLICABILITY: This schedule is applicable to customers to whom Schedule PA-1A would be applicable and who have a connected load not greater than 35 hp or kW. Service under this schedule is provided at the sole option of the Utility. This schedule is not applicable to customers to which Schedule A-21 or A-22 is applicable. Applicability will be determined by the Utility.

TERRITORY: The entire territory served.

RATES:

METER CHARGE (per meter per month)	\$6.50	
DEMAND CHARGE (per kW or hp of connected load)	\$0.60	
ENERGY CHARGE (per kWh):		
	<u>PERIOD A</u>	<u>PERIOD B</u>
PEAK	\$0.22785	\$0.20032
OFF-PEAK	\$0.04900	\$0.04900

SPECIAL CONDITIONS:

1. TIME PERIODS:

	<u>PERIOD A</u> (May 1 - September 30)	<u>PERIOD B</u> (October 1 - April 30)
PEAK	12:30 p.m. - 6:30 p.m. Monday - Friday	4:30 p.m. - 8:30 p.m. Monday - Friday
OFF-PEAK	All other hours	All other hours

When billing includes use in both Period A and Period B, no proration of charges between Period A and Period B will be made where meter readings are taken within one work day (Monday through Friday inclusive) of either May 1 or October 1 of any year. In such cases, the billing will be based on the rates and charges of either Period A or Period B, whichever contains the largest number of days in the billing period.

Holidays: The holidays specified in this schedule include New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, and Christmas Day, as said days in specified in Public Law 90-363 (U.S.C.A. Section 6103).

2. **CONTRACT:** Electric service supplied under this schedule shall be in accordance with a contract for an initial term of one year, beginning on the first regular monthly meter reading date after service is commenced. This contract will be automatically renewed annually. Any customer resuming service within twelve months after discontinuing service will be required to pay all charges that would have been billed if service had not been discontinued.
3. **CONNECTED LOAD:** Connected load for the purpose of this schedule of is the sum of the rated capacities, determined in accordance with Rule 2, of all equipment that is served through one metering point and that may be operated at the same time. In no case will charges be based on less than two horsepower/kilowatts for single-phase service nor less than three horsepower/kilowatts for three-phase service.
 - a. **ADDITIONAL CHARGE:** In addition, a Facilities Charge and monthly ownership charge may apply. The ownership charge will be based on the Facilities Charge for special facilities as described in Section 1 of Rule 2 and the Facilities Charge shall be the amount by which the estimated installed cost of the above facilities exceeds the base annual revenue (see below) to be derived by the Utility from the customer's projected electric load.
 - b. **BASE ANNUAL REVENUE:** Base annual revenue is the total 12-month revenue excluding that portion attributed to the adjustment rate. (N)
4. **FACILITY CHARGE:** When the Utility installs new or additional facilities to provide regular electric service under this schedule, the customer shall pay any nonrefundable charges and perform any obligations that may be required under the Utility's applicable line extension or service connection rules.

(Continued)

SCHEDULE PA-4A -- SMALL AGRICULTURAL TIME-OF-USE SERVICE (Cont'd.)

(N)

4. FACILITY CHARGE: (Cont'd.)

- c. DISCONTINUANCE OF USE: Where the Utility's estimated installed cost of the above facilities does not exceed the base annual revenue, upon discontinuance of the use of such facilities, the customer shall pay the Utility, on demand, its net installation and removal cost for the facilities. However, if electric service from the facilities has been used in a bona fide manner for a period of 36 consecutive months, the customer's obligation will be reduced at the rate of 1-2/3 percent for each month of service in excess of the first 12 months. Where the Utility's estimated installed cost of the above facilities exceeds the base annual revenue, upon discontinuance of the use of such facilities the customer shall pay the Utility, on demand, its net installation and removal cost for such facilities without regard to duration of use. Any Facilities Charge paid by the customer shall be applied as a credit toward the net installation and removal costs.
- d. SPECIAL FACILITIES: Where the customer requests special facilities which are in addition to, or in substitution for, or otherwise cause the Utility to incur additional costs above those for regular service facilities which the Utility would normally install, and the Utility determines that it is able to provide such special facilities, such facilities will be provided in accordance with Section 1 of Rule 2.

- 5. CHANGES IN CONNECTED LOAD OR BILLING DEMAND: Billing adjustments will be made for connected load changes and for permanent decreases that take place during the contract year. It shall be the customer's responsibility to notify the Utility of changes in connected load and of permanent changes in operating conditions which will result in lower maximum demands.

No adjustment will be made for a temporary reduction in connected load or billing demand. If load is reconnected within 12 months after it is disconnected, charges will be recomputed on the basis that no reduction in load had taken place.

6. INTERRUPTIBLE SERVICE:

(a) SERVICE OPTIONS: Service under this special condition is subject to equipment availability. Under this option, the customer shall receive credits for interruptions signalled by the Utility through activation of a remote-controlled switch installed on the customer's pump. The provisions of this condition are available under one of the following three options:

	<u>Maximum Number of Consecutive Interruptions</u>	<u>Maximum Number of Interruptions</u>	<u>Maximum Interruption Length</u>	<u>PARTICIPATION CREDIT (Per kW of Interruptible Load)</u>	<u>PER-SIGNAL CREDIT (Per kW of Interruptible Load)</u>
OPTION A	2 days	2 per week, 20 per year	4 hours	\$0.20 per month	\$0.40 per signal
OPTION B	1 day	2 per week, 20 per year	4 hours	\$0.16 per month	\$0.32 per signal
OPTION C	2 days	2 per week, 20 per year	6 hours	\$0.21 per month	\$0.53 per signal

(b) INTERRUPTIBLE LOAD: The amount of interruptible load will be determined by the Utility based on billing demand as measured by the Utility's demand meter (if applicable) or on the nameplate rating of the customer's pump. If billing demand or nameplate rating is not available, or if more than one discrete load is served by the account, the amount of interruptible load will be determined by the Utility using test or other available data.

(c) CONTROL PERIOD: Control will be accomplished on a limited number of weekdays between the hours of 10:00 a.m. and 8:00 p.m. during the period commencing May 1 and terminating September 30 of each year.

(d) BILLING REDUCTION: The customer will receive a participation credit each month. This credit is intended to compensate the customer for making the pump available for interruption by the Utility. In addition to the participation credit, the customer will receive a per-signal credit each time the Utility signals the remote-controlled switch to shut the pump(s) off. However, the total bill for service shall not be less than the Energy Cost Adjustment.

(Continued)

SCHEDULE PA-4A -- SMALL AGRICULTURAL TIME-OF-USE SERVICE (Cont'd.)

(N)

7. INTERRUPTIBLE SERVICE: (Cont'd.)

(e) PENALTY FOR NON-COMPLIANCE: The customer shall be provided with the means to override the remote-controlled switch and operate the pump during periods of interruption. Use of the pump during the interruption period will be measured by the Utility and a penalty of \$0.30 per kilowatt-hour will be assessed in addition to customary charges per kWh. (N)

(f) END-OF-YEAR BONUS: The Utility shall pay the customer a bonus at the end of the calendar year when the override feature has not been used. The bonus shall be equal to 40 percent of the total participation and per-signal credits earned.

(g) EMERGENCY INTERRUPTION: During periods of emergency on the Utility's system, customer's pump may be interrupted in a manner not consistent with those conditions described under Options A and B above. Customers will be requested to use their best efforts to accomplish the emergency interruptions. No penalties will be applied when interruptions exceed the applicable conditions. However, if emergency interruptions are initiated that are consistent with the applicable conditions, then penalties shall be determined as designated under "Penalty for Non-compliance."

(h) CONTRACT: Electric service under this Special Condition shall be supplied in accordance with a contract authorized by the Commission. Such contract will be in effect until cancelled by either party by written notice. Such contract may also be cancelled by PGandE at its sole option in the event of excessive non-compliance by customer, as determined solely by the Utility. (N)

SCHEDULE PA-4B -- LARGE AGRICULTURAL TIME-OF-USE SERVICE

(N)

APPLICABILITY: This schedule is applicable to customers to whom Schedule PA-1B would be applicable and who have a connected load greater than 35 hp or kW. Service under this schedule is provided at the sole option of the Utility. This schedule is not applicable to customers to which Schedule A-21 or A-22 is applicable. Applicability will be determined by the Utility.

TERRITORY: The entire territory served.

RATES:

METER CHARGE (per meter, per month)	\$6.79		
DEMAND CHARGE (per kW of billing demand, per month)			
MAXIMUM ON-PEAK	\$0.80		
CONNECTED LOAD	\$0.60		
ENERGY CHARGE (per kWh):		PERIOD A	PERIOD B
PEAK		\$3.5356	\$2.8824
PARTIAL-PEAK		\$0.6300	\$0.6300
OFF-PEAK		\$0.4300	\$0.4300

SPECIAL CONDITIONS:

1. TIME PERIODS:

On-Peak, partial-peak, and off-peak shall be defined as follows:

Period A (meter readings from May 1 through September 30):

On-Peak	12:30 p.m. to 6:30 p.m.	Monday through Friday, except holidays.
Partial-Peak	8:30 a.m. to 12:30 p.m.	Monday through Friday, except holidays.
	6:30 p.m. to 10:30 p.m.	Monday through Friday, except holidays.
	8:30 a.m. to 10:30 p.m.	Saturday, except holidays.
Off-Peak	10:30 p.m. to 8:30 a.m.	Monday through Saturday, except holidays.
	All day	Sundays and holidays.

Period B (meter readings from October 1 through April 30):

On-Peak	4:30 p.m. to 8:30 p.m.	Monday through Friday, except holidays.
Partial-Peak	8:30 a.m. to 4:30 p.m.	Monday through Friday, except holidays.
	8:30 p.m. to 10:30 p.m.	Monday through Friday, except holidays.
	8:30 a.m. to 10:30 p.m.	Saturday, except holidays.
Off-Peak	10:30 p.m. to 8:30 a.m.	Monday through Saturday, except holidays.
	All day	Sundays and holidays.

When billing includes use in both Period A and Period B, no proration of charges between Period A and Period B will be made where meter readings are taken within one work day (Monday through Friday inclusive) of either May 1 or October 1 of any year. In such cases, the billing will be based on the rates and charges of either Period A or Period B, whichever contains the largest number of days in this billing period.

Holidays: The holidays specified in this schedule include New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, and Christmas Day, as said days in specified in Public Law 90-363 (U.S.C.A. Section 6103).

2. **CONTRACT:** Electric service supplied under this schedule shall be in accordance with a contract for an initial term of one year, beginning on the first regular monthly meter reading date after service is commenced. This contract will be automatically renewed annually. Any customer resuming service within 12 months after discontinuing service will be required to pay all charges that would have been billed if service had not been discontinued.

3. **CONNECTED LOAD:** Connected load for the purpose of this schedule is the sum of the rated capacities, determined in accordance with Rule 2, of all equipment that is served through one metering point and that may be operated at the same time. In no case will charges be based on less than two horsepower/kilowatts for single-phase service nor less than three horsepower/ kilowatts for three-phase service.

(Continued)

SCHEDULE PA-4B -- LARGE AGRICULTURAL TIME-OF-USE SERVICE
(Continued)

(N)

4. **MAXIMUM DEMAND:** The maximum demand in any monthly billing period will be the maximum average power, expressed in kilowatts, taken during any 15-minute interval during the on-peak period in the month, but not less than the diversified resistance welder load computed in accordance with Rule 2. Where the use of energy is intermittent or subject to abnormal fluctuation, a 5-minute interval may be used.

5. **BILLING DEMAND:** The billing demand used in computing charges will be the highest maximum demand created by the installation in the 12-month period ending with the current month, except that when the connected load is permanently reduced and the Utility is so advised, the maximum demands created before such permanent reduction will be ignored. Billing demand will be computed to the nearest whole kilowatt. Charges will not be based on a billing demand in kilowatts of less than 75% of the nameplate rating in horsepower/kilowatts of the two largest motors/devices connected. Where the connected load is 35 horsepower/kilowatts or less the Utility may, at its option, use the demand determined by test as the billing demand for billing purposes in lieu of installing a demand meter. (N)

6. **CHANGES IN CONNECTED LOAD OR BILLING DEMAND:** Billing adjustments will be made for connected load or billing demand changes and for permanent decreases that take place during the contract year. It shall be the customer's responsibility to notify the Utility of changes in connected load and of permanent changes in operating conditions which will result in lower maximum demands.

No adjustment will be made for a temporary reduction in connected load or billing demand. If load is reconnected within 12 months after it is disconnected, charges will be recomputed on the basis that no reduction in load had taken place.

7. **FACILITY CHARGE:** When the Utility installs new or additional facilities to provide regular electric service under this schedule, the customer shall pay any nonrefundable charges and perform any obligations that may be required under the Utility's applicable line extension or service connection rules.

- a. **ADDITIONAL CHARGE:** In addition, a Facilities Charge and monthly ownership charge may apply. The ownership charge will be based on the Facilities Charge for special facilities as described in Section 1 of Rule 2, and the Facilities Charge shall be the amount by which the estimated installed cost of the above facilities exceeds the base annual revenue (see below) to be derived by the Utility from the customer's projected electric load.
- b. **BASE ANNUAL REVENUE:** Base annual revenue is the total 12-month revenue excluding that portion attributed to the adjustment rate.
- c. **DISCONTINUANCE OF USE:** Where the Utility's estimated installed cost of the above facilities does not exceed the base annual revenue, upon discontinuance of the use of such facilities, the customer shall pay the Utility, on demand, its net installation and removal cost for the facilities. However, if electric service from the facilities has been used in a bona fide manner for a period of 36 consecutive months, the customer's obligation will be reduced at the rate of 1-2/3 percent for each month of service in excess of the first 12 months. Where the Utility's estimated installed cost of the above facilities exceeds the base annual revenue, upon discontinuance of the use of such facilities the customer shall pay the Utility, on demand, its net installation and removal cost for such facilities without regard to duration of use. Any Facilities Charge paid by the customer shall be applied as a credit toward the net installation and removal costs.
- d. **SPECIAL FACILITIES:** Where the customer requests special facilities which are in addition to, or in substitution for, or otherwise cause the Utility to incur additional costs above those for regular service facilities which the Utility would normally install, and the Utility determines that it is able to provide such special facilities, such facilities will be provided in accordance with Section 1 of Rule 2.

(Continued)

8. **VOLTAGE ADJUSTMENT:** The above charges are applicable without adjustment for voltage when (a) delivery is made at less than 2 kV, or (b) when delivery is made by means of Utility-owned transformers at a distribution voltage other than a standard primary distribution voltage, or (c) when delivery is made at a voltage that requires more than one stage of transformation from transmission voltage. When delivery is made at the standard primary distribution voltage at 2 kV or above available in the area from the Utility's distribution line, or where the Utility has elected to supply service at a standard primary distribution voltage from a transmission line, for its operating convenience, from Utility-owned transformers on the customer's property, the charges calculated on the above base rates for any month will be reduced by \$1.00 per kW of maximum demand in the month. When delivery is made from an existing available transmission line (60 kV and above) without Utility-owned transformation, such charges will be reduced by \$2.00 per kW of maximum demand in the month. Where additional facilities are installed at the customer's request or convenience, such facilities may be installed pursuant to Section 1 of Rule 2. (N)

9. **INTERRUPTIBLE SERVICE:**

(a) **SERVICE OPTIONS:** Service under this special condition is subject to equipment availability. Under this option, the customer shall receive credits for interruptions signalled by the Utility through activation of a remote-controlled switch installed on the customer's pump. The provisions of this condition are available under one of the following three options:

	Maximum Number of Consecutive Interruptions	Maximum Number of Interruptions	Maximum Interruption Length	PARTICIPATION CREDIT (Per kW of Interruptible Load)	PER-SIGNAL CREDIT (Per kW of Interruptible Load)
OPTION A	2 days	2 per week, 20 per year	4 hours	\$0.20 per month	\$0.40 per signal
OPTION B	1 day	2 per week, 20 per year	4 hours	\$0.16 per month	\$0.32 per signal
OPTION C	2 days	2 per week, 20 per year	6 hours	\$0.21 per month	\$0.53 per signal

(b) **INTERRUPTIBLE LOAD:** The amount of interruptible load will be determined by the Utility based on billing demand as measured by the Utility's demand meter (if applicable) or on the nameplate rating of the customer's pump. If billing demand or nameplate rating is not available, or if more than one discrete load is served by the account, the amount of interruptible load will be determined by the Utility using test or other available data.

(c) **CONTROL PERIOD:** Control will be accomplished on a limited number of weekdays between the hours of 10:00 a.m. and 8:00 p.m. during the period commencing May 1 and terminating September 30 of each year.

(d) **BILLING REDUCTION:** The customer will receive a participation credit each month. This credit is intended to compensate the customer for making the pump available for interruption by the Utility. In addition to the participation credit, the customer will receive a per-signal credit each time the Utility signals the remote-controlled switch to shut the pump(s) off. However, the total bill for service shall not be less than the Energy Cost Adjustment.

(e) **PENALTY FOR NON-COMPLIANCE:** The customer shall be provided with the means to override the remote-controlled switch and operate the pump during periods of interruption. Use of the pump during the interruption period will be measured by the Utility and a penalty of \$0.30 per kilowatt-hour will be assessed in addition to customary charges per kWh.

(f) **END-OF-YEAR BONUS:** The Utility shall pay the customer a bonus at the end of the calendar year when the override feature has not been used. The bonus shall be equal to 40 percent of the total participation and per-signal credits earned.

(g) **EMERGENCY INTERRUPTION:** During periods of emergency on the Utility's system, customer's pump may be interrupted in a manner not consistent with those conditions described under Options A and B above. Customers will be requested to use their best efforts to accomplish the emergency interruptions. No penalties will be applied when interruptions exceed the applicable conditions. However, if emergency interruptions are initiated that are consistent with the conditions of Options A and B, then penalties shall be determined as designated under "Penalty for Non-compliance."

(h) **CONTRACT:** Electric service under this Special Condition shall be supplied in accordance with a contract authorized by the Commission. Such contract will be in effect until cancelled by either party by written notice. Such contract may also be cancelled by PGandE at its sole option in the event of excessive non-compliance by customer, as determined solely by the Utility. (N)