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11	POWER PURCHASE AGREEMENT
12	FOR
13	LONG-TERM ENERGY AND CAPACITY
14	BETWEEN
15	VALLEY POWER ASSOCIATES
16	AND
17	PACIFIC GAS AND ELECTRIC COMPANY
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LONG-TERM ENERGY AND CAPACITY POWER PURCHASE AGREEMENT CONTENTS Article Page QUALIFYING STATUS COMMITMENT OF PARTIES PURCHASE OF POWER ENERGY PRICE CAPACITY ELECTION AND CAPACITY PRICE LOSS ADJUSTMENT FACTORS CURTAILMENT RETROACTIVE APPLICATION OF CPUC ORDERS NOTICES DESIGNATED SWITCHING CENTER 11 TERMS AND CONDITIONS 12 TERM OF AGREEMENT Appendix A: GENERAL TERMS AND CONDITIONS Appendix B: ENERGY PAYMENT OPTIONS 3 Appendix C: CURTAILMENT OPTIONS Appendix D: AS-DELIVERED CAPACITY Appendix E: FIRM CAPACITY Appendix F: INTERCONNECTION

LONG-TERM ENERGY AND CAPACITY POWER PURCHASE AGREEMENT

BETWEEN

VALLEY POWER ASSOCIATES

AND

PACIFIC GAS AND ELECTRIC COMPANY

VALLEY POWER ASSOCIATES ("Seller"), and PACIFIC GAS AND ELECTRIC COMPANY ("PGandE"), referred to collectively as "Parties" and individually as "Party", agree as follows:

ARTICLE 1 QUALIFYING STATUS

Seller warrants that, at the date of first power deliveries from Seller's <u>Facility</u> and during the <u>term of agreement</u>, its <u>Facility</u> shall meet the qualifying facility requirements established as of the effective date of this Agreement by the Federal Energy Regulatory Commission's rules (18 Code of Federal Regulations 292) implementing the Public Utility Regulatory Policies Act of 1978 (16 U.S.C.A. 796, et seq.).

Underlining identifies those terms which are defined in Section A-1 of Appendix A.

ARTICLE 2 COMMITMENT OF PARTIES

any reasons whatsoever.

The prices to be paid Seller for energy and/or capacity delivered pursuant to this Agreement have wholly or partly been fixed at the time of execution. Actual avoided costs at the time of energy and/or capacity deliveries may be substantially above or below the prices fixed in this Agreement. Therefore, the Parties expressly commit to the prices fixed in this Agreement for the applicable period of performance and shall not seek to or have a right to renegotiate such prices for any reason. As part of its consideration for the benefit of fixing part or all of the energy and/or capacity prices under this Agreement, Seller waives any and all rights to judicial or other relief from its obligations and/or prices set forth in Appendices B, D, and E, or modification of any other term or provision for

This Agreement contains certain provisions which set forth methods of calculating damages to be paid to PGandE in the event Seller fails to fulfill certain performance obligations. The inclusion of such provisions is not intended to create any express or implied right in Seller to terminate this Agreement prior to the expiration of the term of agreement. Termination of this Agreement by Seller prior to its expiration date shall constitute a breach of this Agreement and the damages expressly set forth in this

Agreement shall not constitute PGandE's sole remedy for such breach.

ARTICLE 3 PURCHASE OF POWER

- (a) Seller shall sell and deliver and PGandE shall purchase and accept delivery of capacity and energy at the voltage level of 60 kV.
- (b) Seller shall provide capacity and energy from its fifty-four thousand nine hundred (54,900 kW the nameplate rating of the generators) <u>Facility</u> located at Cottonwood, California.
- (c) The <u>scheduled operation</u> <u>date</u> of the <u>Facility</u> is July 1987. At the end of each calendar quarter Seller shall give written notice to PGandE of any change in the <u>scheduled</u> operation <u>date</u>.
- (d) To avoid exceeding the physical limitations of the interconnection facilities, Seller shall limit the Facility's actual rate of delivery into the PGandE system to ¹ kW.

The appropriate number will be inserted upon completion of an interconnection study to be done by PGandE in its accustomed manner of making such studies to determine the number to be inserted.

1	(e) The primary energy source for the <u>Facility</u> is			
2	biomass.			
3				
4	(f) If Seller does not begin construction of its			
5	Facility by July 1, 1986, PGandE may reallocate the existing			
6	capacity on PGandE's transmission and/or distribution system			
7	which would have been used to accommodate Seller's power			
8	deliveries to other uses. In the event of such			
9	reallocation, Seller shall pay PGandE for the cost of any			
10	upgrades or additions to PGandE's system necessary to			
11	accommodate the output from the Facility. Such additional			
12	facilities shall be installed, owned and maintained in			
13	accordance with the applicable PGandE tariff.			
14				
15	(g) The transformer loss adjustment factor is $_$ 1.			
16				
17	ARTICLE 4 ENERGY PRICE			
18				
19	PGandE shall pay Seller for its <u>net energy output</u> 2			
20	under the energy payment option checked below3:			
21				
22	X Energy Payment Option 1 - Forecasted Energy Prices			
23	1 If Seller chooses to have meters placed on Seller's side of the			
24	transformer, an estimated transformer loss adjustment factor of 2 percent, unless the Parties agree otherwise, will be applied. This			
2 5	estimated transformer loss figure will be adjusted to a measurement of actual transformer losses performed at Seller's request and			
26	expense.			
27	Insert either "net energy output" or "surplus energy output" to show the energy sale option selected by Seller.			
28	3 Energy Payment Option 2 is not available to oil or gas-fired cogenerators.			

During the <u>fixed price period</u>, Seller shall be paid for energy delivered at prices equal to 100 percent of the prices set forth in Table B-1, Appendix B, plus 0 percent of PGandE's <u>full short-run avoided</u> operating costs.

For the remaining years of the term of agreement, Seller shall be paid for energy delivered at prices equal to PGandE's full short-run avoided operating costs.

If Seller's Facility is not an oil or gas-fired cogeneration facility, Seller may convert from Energy Payment Option 1 to Energy Payment Option 2 and be subject to the conditions therein, provided that Seller shall not change the percentage of energy prices to be based on PGandE's full short-run avoided operating costs. Such conversion must be made at least 90 days prior to the date of initial energy deliveries and must written notice with in accordance made by be Section A-17, Appendix A.

Energy Payment Option 2 - Levelized Energy Prices

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During the fixed price period, Seller shall be paid for energy delivered at prices equal to 1 percent of the levelized energy prices set forth in Table B-2, Appendix B for the year in energy deliveries begin which and term οf agreement, plus ______2 percent of PGandE's <u>full</u> short-run avoided operating costs. During the fixed price period, Seller shall be subject to the conditions and terms set forth in Appendix B, Energy Payment Option 2.

For the remaining years of the term of agreement, Seller shall be paid for energy delivered at prices equal to PGandE's <u>full short-run</u> avoided operating costs.

Seller may convert from Energy Payment Option 2 to Energy Payment Option 1, provided that Seller shall not change the percentage of energy prices to be based on PGandE's <u>full short-run avoided operating costs</u>. Such conversion must be made at least 90 days prior to the date of initial energy deliveries and must be made by written notice in accordance with Section A-17, Appendix A.

Insert either 20, 40, 60, 80, or 100, at Seller's option.

Insert the difference between 100 and the percentage selected under footnote 1 above.

Specified by Seller. Must be December 31, 1998 or prior.

1	After, Seller shall be paid for				
2	energy delivered at prices equal to PGandE's full				
3	short-run avoided operating costs.				
4					
5	ARTICLE 5 CAPACITY ELECTION AND CAPACITY PRICE				
6					
7	Seller may elect to deliver either firm capacity or				
8	as-delivered capacity, and Seller's election is indicated				
9	below. PGandE's prices for firm capacity and as-delivered				
10	capacity are derived from PGandE's full avoided costs as				
11	approved by the CPUC.				
12					
13	X Firm capacity - 49,900 kW for 30 years from the				
14	firm capacity availability date with payment determined				
15	in accordance with Appendix E. Except for hydro-				
16	electric facilities, PGandE shall pay Seller for				
17	capacity delivered in excess of firm capacity on an				
18	as-delivered capacity basis in accordance with				
19	As-Delivered Capacity Payment Option 2 set forth in				
20	Appendix D.				
21					
22	OR				
2 3					
24	As-delivered capacity with payment determined in				
25	accordance with As-Delivered Capacity Payment Option				
26	set forth in Appendix D.				
27					
28					

ARTICLE 6 LOSS ADJUSTMENT FACTORS

Capacity Loss Adjustment Factors shall be as shown in Appendix D and Appendix E, dependent upon Seller's capacity election set forth in Article 5 of this Agreement.

Energy Loss Adjustment Factors shall be considered as unity for all energy payments related to Energy Payment Options 1 and 2 set forth in Appendix B for the entire <u>fixed price period</u> of this Agreement, except for the percentage of payments that Seller elected in Article 4 to have calculated based on PGandE's <u>full short-run avoided operating costs</u>. Energy Loss Adjustment Factors for all payments related to PGandE's <u>full short-run avoided operating costs</u> are subject to CPUC rulings for the entire <u>term of agreement</u>.

ARTICLE 7 CURTAILMENT

Seller has two options regarding possible curtailment by PGandE of Seller's deliveries, and Seller's selection is indicated below:

____ Curtailment Option A - Hydro Spill and Negative Avoided

Cost

X Curtailment Option B - Adjusted Price Period

The two options are described in Appendix C.

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ARTICLE 8 RETROACTIVE APPLICATION OF CPUC ORDERS

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Pursuant to Ordering Paragraph 1(f) of <u>CPUC</u> Decision No. 83-09-054 (September 7, 1983), after the effective date of the <u>CPUC</u>'s Application 82-03-26 decision relating to line loss factors, Seller has the option to retain the relevant terms of this Agreement or have the results of that decision incorporated into this Agreement. To retain the terms herein, Seller shall provide written notice to PGandE within 30 days after the effective date of the relevant <u>CPUC</u> decision on Application 82-03-26. Failure to provide such notice will result in the amendment of this Agreement to comply with that decision.

As soon as practicable following the issuance of a decision in Application 82-03-26, PGandE shall notify Seller of the effective date thereof and its results.

ARTICLE 9 NOTICES

All written notices shall be directed as follows:

To PGandE:

Pacific Gas and Electric Company

Attention: Vice President - Electric Operations

77 Beale Street

San Francisco, CA 94106

To Seller:

Valley Power Associates

2222 Martin Street Irvine, CA 92715

Attention:

cc:

Zobrist, Vienna & McCullough

515 S. Figueroa St.

9th Floor

Los Angeles, CA 90071

1	ARTICLE 10 DESIGNATED SWITCHING CENTER
2	
3	The <u>designated PGandE</u> <u>switching</u> <u>center</u> shall be, unless
4	changed by PGandE:
5	Cottonwood Substation Trefoil Lane
6	Cottonwood, CA 96022 (916) 347-3019
7	(910) 347-3019
8	ARTICLE 11 TERMS AND CONDITIONS
9	
10	This Agreement includes the following appendices which
11	are attached and incorporated by reference:
12	Appendix A - GENERAL TERMS AND CONDITIONS
13	Appendix B - ENERGY PAYMENT OPTIONS
14	Appendix C - CURTAILMENT OPTIONS
15	Appendix D - AS-DELIVERED CAPACITY
16	Appendix E - FIRM CAPACITY
17	Appendix F - INTERCONNECTION
18	
19	ARTICLE 12 TERM OF AGREEMENT
20	
21	This Agreement shall be binding upon execution and
22	remain in effect thereafter for thirty (30) years from the
23	firm capacity availability date; provided, however, that it
24	shall terminate if energy deliveries do not start within
25	five years of the execution date.
26	

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their duly authorized representatives and it is effective as of the last date set forth below.

VALLEY	POWER	ASSOC:	IATES,	a
VALLEY Califor	nia L	imited	Partne	rsh j p

Vice President -

TITLE: Planning and Research

PACIFIC GAS AND ELECTRIC COMPANY

Executive Vice President, Valley Power Corporation,

TITLE: General Partner

DATE SIGNED:

DATE SIGNED: 10-12-

Short Schoot 18

Jah 10-22-84

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4		~~~~~
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6		
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9	A-2	CONSTRUCTION
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12	A-5	ADJUSTMENTS OF PAYMENTS
13	A-6	ACCESS TO RECORDS AND PGandE DATA
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APPENDIX A

GENERAL TERMS AND CONDITIONS

A-1 **DEFINITIONS**

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Whenever used in this Agreement, appendices, and attachments hereto, the following terms shall have the following meanings:

Adjusted firm capacity price - The \$/kW-year purchase price for firm capacity from Table E-2, Appendix E for the period of Seller's actual performance.

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As-delivered capacity - Capacity delivered to PGandE in excess of firm capacity or in lieu of a firm capacity commitment.

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CPUC - The Public Utilities Commission of the State of California.

Current firm capacity price - The \$/kW-year capacity price from PGandE's firm capacity price schedule effective at the time PGandE derates the firm capacity pursuant to Section E-4(b), Appendix E or Seller terminates performance under this Agreement, for a term equal to the period from

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the date of deration or termination to the end of the term of agreement.

Designated PGandE switching center - That switching in installation identified center or other PGandE Article 10.

Facility - That generation apparatus described in Article 3 and all associated equipment owned or leased, maintained, and operated by Seller.

Firm capacity - That capacity, if any, identified as firm in Article 5 except as otherwise changed as provided herein.

Firm capacity availability date - The day following the day during which all features and equipment of the Facility are demonstrated to PGandE's satisfaction to be capable of operating simultaneously to deliver firm capacity continuously into PGandE's system as provided in this Agreement.

Firm capacity price - The price for firm capacity applicable for the firm capacity availability date and the number of years of firm capacity delivery from the firm capacity price schedule, Table E-2, Appendix E.

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Firm capacity price schedule - The periodically published schedule of the \$/kW-year prices that PGandE offers to pay for firm capacity. See Table E-2, Appendix E.

Fixed price period - The period during which forecasted or levelized energy prices, and/or forecasted as-delivered capacity prices, are in effect; defined as the first five years of the term of agreement if the term of agreement is 15 or 16 years; the first six years of the term of agreement is 17, 18, or 19 years; or the first ten years of the term of agreement if the term of agreement if the term of agreement if

Forced outage - Any outage resulting from a design defect, inadequate construction, operator error or a breakdown of the mechanical or electrical equipment that fully or partially curtails the electrical output of the Facility.

Full short-run avoided operating costs - CPUC-approved costs which are the basis of PGandE's published energy prices. PGandE's current energy price calculation is shown in Table B-5, Appendix B. PGandE's published off-peak hours' prices shall be adjusted, as appropriate, if Seller has selected Curtailment Option B.

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Interconnection facilities - All means required and apparatus installed to interconnect and deliver power from the Facility to the PGandE system including, but not limited transformation, switching, metering, connection, to. communications, and safety equipment, such as equipment required to protect (1) the PGandE system and its customers from faults occurring at the Facility, and (2) the Facility from faults occurring on the PGandE system or on the systems of others to which the PGandE system is directly or Interconnection facilities indirectly connected. include any necessary additions and reinforcements by PGandE the system required as a result of the PGandE to interconnection of the Facility to the PGandE system.

Net energy output - The Facility's gross output in kilowatt-hours less station use and transformation and transmission losses to the point of delivery into the PGandE system. Where PGandE agrees that it is impractical to connect the station use on the generator side of the power purchase meter, PGandE may, at its option, apply a station load adjustment.

Prudent electrical practices - Those practices, methods, and equipment, as changed from time to time, that are commonly used in prudent electrical engineering and

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operations to design and operate electric equipment lawfully and with safety, dependability, efficiency, and economy.

Scheduled operation date - The day specified in Article 3(c) when the <u>Facility</u> is, by Seller's estimate, expected to produce energy that will be available for delivery to PGandE.

Special facilities - Those additions and reinforcements to the PGandE system which are needed to accommodate the maximum delivery of energy and capacity from the Facility as provided in this Agreement and those parts of the interconnection facilities which are owned and maintained by PGandE at Seller's request, including metering and data processing equipment. All special facilities shall be owned, operated, and maintained pursuant to PGandE's electric Rule No. 21, which is attached hereto.

Station use - Energy used to operate the Facility's auxiliary equipment. The auxiliary equipment includes, but is not limited to, forced and induced draft fans, cooling towers, boiler feed pumps, lubricating oil systems, plant lighting, fuel handling systems, control systems, and sump pumps.

<u>Surplus energy output</u> - The <u>Facility's</u> gross output, in kilowatt-hours, less <u>station use</u>, and any other use by

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Seller, and transformation and transmission losses to the point of delivery into the PGandE system.

<u>Term of agreement</u> - The number of years this Agreement will remain in effect as provided in Article 12.

<u>Voltage level</u> - The voltage at which the <u>Facility</u> interconnects with the PGandE system, measured at the point of delivery.

A-2 CONSTRUCTION

A-2.1 Land Rights

Seller hereby grants to PGandE all necessary rights of way and easements, including adequate and continuing access rights on property of Seller, to install, operate, maintain, replace, and remove the special facilities. Seller agrees to execute such other grants, deeds, or documents as PGandE may require to enable it to record such rights of way and easements. If any part of PGandE's equipment is to be installed on property owned by other than Seller, Seller shall, at its own cost and expense, obtain from the owners thereof all necessary rights of way and easements, in a form satisfactory to PGandE, for the construction, operation, maintenance, and replacement of PGandE's equipment upon such property. If Seller is unable

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to obtain such rights of way and easements, Seller shall reimburse PGandE for all costs incurred by PGandE in obtaining them. PGandE shall at all times have the right of ingress to and egress from the <u>Facility</u> at all reasonable hours for any purposes reasonably connected with this Agreement or the exercise of any and all rights secured to PGandE by law or its tariff schedules.

A-2.2 Design, Construction, Ownership, and Maintenance

Seller shall design, construct, install, own or lease, operate, and maintain all interconnection facilities, except special facilities, to the point of interconnection with the PGandE system as required for PGandE to receive capacity and energy from the Facility. The Facility and interconnection facilities shall meet all requirements of applicable codes and all standards of prudent electrical practices and shall be maintained in a safe and prudent manner. A description of the interconnection facilities for which Seller solely responsible is set forth in is Appendix F, or if the interconnection requirements have not yet been determined at the time of the execution of this Agreement, the description of such facilities will be appended to this Agreement at the time such determination is made.

(b) Seller shall submit to PGandE the design and all specifications for the interconnection <u>facilities</u> (except

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(c) In the event it is necessary for PGandE to install interconnection facilities for the purposes of this Agreement, they shall be installed as special facilities.

special facilities) and, at PGandE's option, the Facility,

for review and written acceptance prior to their release for

PGandE

writing of the outcome of PGandE's review of the design and

specifications for Seller's interconnection facilities (and

the Facility, if requested) within 30 days of the receipt of

of the

interconnection facilities (and the Facility, if requested).

specifications for the interconnection facilities (and the

written notification. PGandE's review and acceptance of the

confirming or endorsing the design and specifications or as

shall not, by reason of such review or lack of review, be

responsible for strength, details of design, adequacy, or

capacity of equipment built pursuant to such design and

specifications, nor shall PGandE's acceptance be deemed to

change the interconnection facilities as may be reasonably

required by PGandE to meet changing requirements of the

warranting their safety, durability, or reliability.

be an endorsement of any of such equipment.

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(d) Upon the request of Seller, PGandE shall provide a binding estimate for the installation of interconnection facilities by PGandE.

A-2.3 Meter Installation

(a) PGandE shall specify, provide, install, own, operate, and maintain as special facilities all metering and data processing equipment for the registration and recording of energy and other related parameters which are required for the reporting of data to PGandE and for computing the payment due Seller from PGandE.

- Seller shall provide, construct, install, own or lease, and maintain at Seller's expense all that is reasonably required to accommodate the metering and data processing equipment, such as, but not limited to, metalclad switchgear, switchboards, cubicles, metering panels, and equipment enclosures, conduits, rack structures, mounting pads.
- (c) PGandE shall permit meters to be fixed on PGandE's side of the transformer. If meters are placed on PGandE's side of the transformer, service will be provided at the available primary voltage and no transformer loss adjustment will be made. If Seller chooses to have meters placed on Seller's side of the transformer, an estimated

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transformer loss adjustment factor of 2 percent, unless the Parties agree otherwise, will be applied.

A-3 OPERATION

A-3.1 Inspection and Approval

Seller shall not operate the Facility in parallel authorized **PGandE** with until an PGandE's system representative has inspected the interconnection facilities, and PGandE has given written approval to begin parallel be unreasonably approval shall not operation. Such Seller shall notify PGandE of the Facility's withheld. start-up date at least 45 days prior to such date. shall inspect the interconnection facilities within 30 days of the receipt of such notice. If parallel operation is not authorized by PGandE, PGandE shall notify Seller in writing inspection of the reason within five days after authorization for parallel operation was withheld.

A-3.2 Facility Operation and Maintenance

Seller shall operate and maintain its <u>Facility</u> according to <u>prudent electrical practices</u>, applicable laws, orders, rules, and tariffs and shall provide such reactive power support as may be reasonably required by PGandE to maintain system voltage level and power factor. Seller shall operate the <u>Facility</u> at the power factors or voltage

levels prescribed by PGandE's system dispatcher or designated representative. If Seller fails to provide reactive power support, PGandE may do so at Seller's expense.

A-3.3 Point of Delivery

Seller shall deliver the energy at the point where Seller's electrical conductors (or those of Seller's agent) contact PGandE's system as it shall exist whenever the deliveries are being made or at such other point or points as the Parties may agree in writing. The initial point of delivery of Seller's power to the PGandE system is set forth in Appendix F.

A-3.4 Operating Communications

- (a) Seller shall maintain operating communications with the <u>designated PGandE switching center</u>. The operating communications shall include, but not be limited to, system paralleling or separation, scheduled and unscheduled shutdowns, equipment clearances, levels of operating voltage or power factors and daily capacity and generation reports.
- (b) Seller shall keep a daily operations log for each generating unit which shall include information on unit availability, maintenance outages, circuit breaker trip operations requiring a manual reset, and any significant events related to the operation of the <u>Facility</u>.

(c) If Seller makes deliveries greater than one megawatt, Seller shall measure and register on a graphic recording device power in kW and voltage in kV at a location within the Facility agreed to by both Parties.

(d) If Seller makes deliveries greater than one and up to and including ten megawatts, Seller shall report to the <u>designated PGandE switching center</u>, twice a day at agreed upon times for the current day's operation, the hourly readings in kW of capacity delivered and the energy in kWh delivered since the last report.

(e) If Seller makes deliveries of greater than ten megawatts, Seller shall telemeter the delivered capacity and energy information, including real power in kW, reactive power in kVAR, and energy in kWh to a switching center selected by PGandE. PGandE may also require Seller to telemeter transmission kW, kVAR, and kV data depending on the number of generators and transmission configuration. Seller shall provide and maintain the data circuits required for telemetering. When telemetering is inoperative, Seller shall report daily the capacity delivered each hour and the energy delivered each day to the <u>designated PGandE switching center</u>.

(a) All meters used to provide data for the computation of the payments due Seller from PGandE shall be sealed, and the seals shall be broken only by PGandE when the meters are to be inspected, tested, or adjusted.

(b) PGandE shall inspect and test all meters upon their installation and annually thereafter. At Seller's request and expense, PGandE shall inspect or test a meter more frequently. PGandE shall give reasonable notice to Seller of the time when any inspection or test shall take place, and Seller may have representatives present at the test or inspection. If a meter is found to be inaccurate or defective, PGandE shall adjust, repair, or replace it at its expense in order to provide accurate metering.

A-3.6 Adjustments to Meter Measurements

If a meter fails to register, or if the measurement made by a meter during a test varies by more than two percent from the measurement made by the standard meter used in the test, an adjustment shall be made correcting all measurements made by the inaccurate meter for -- (1) the actual period during which inaccurate measurements were made, if the period can be determined, or if not, (2) the period immediately preceding the test of the meter equal to one-half the time from the date of the last previous test of

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meter, provided that the period covered by the the correction shall not exceed six months.

PAYMENT A-4

PGandE shall mail to Seller not later than 30 days after the end of each monthly billing period (1) a statement showing the energy and capacity delivered to PGandE during on-peak, partial-peak, and off-peak periods during monthly billing period, (2) PGandE's computation of the amount due Seller, and (3) PGandE's check in payment of said Except as provided in Section A-5, if within 30 amount. days of receipt of the statement Seller does not make a report in writing to PGandE of an error, Seller shall be deemed to have waived any error in PGandE's statement, computation, and payment, and they shall be considered correct and complete.

A-5 ADJUSTMENTS OF PAYMENTS

In the event adjustments to payments are required as inaccurate meters, PGandE shall result of use measurements described in Section A-3.6 to corrected recompute the amount due from PGandE to Seller for the capacity and energy delivered under this Agreement during the period of inaccuracy. The resulting additional payment to Seller or refund to PGandE shall be made within 30 days of notification of the owing Party of the amount due.

A-6 ACCESS TO RECORDS AND PGandE DATA

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Each Party, after giving reasonable written notice to the other Party, shall have the right of access to all metering and related records including operations logs of the <u>Facility</u>. Data filed by PGandE with the <u>CPUC</u> pursuant to <u>CPUC</u> orders governing the purchase of power from qualifying facilities shall be provided to Seller upon request; provided that Seller shall reimburse PGandE for the costs it incurs to respond to such request.

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A-7 INTERRUPTION OF DELIVERIES

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PGandE shall not be obligated to accept or pay for and may require Seller to interrupt or reduce deliveries of energy (1) when necessary in order to construct, install, maintain, repair, replace, remove, investigate, or inspect any of its equipment or any part of its system, or (2) if it determines that interruption or reduction is necessary because of PGandE system emergencies, forced outages, force majeure, or compliance with prudent electrical practices; provided that PGandE shall not interrupt deliveries pursuant to this section in order to take advantage, purchases, of less expensive energy elsewhere. Whenever possible, PGandE shall give Seller reasonable notice of the possibility that interruption or reduction of deliveries may be required.

(a) The term force majeure as used herein means unforeseeable causes, other than <u>forced outages</u>, beyond the reasonable control of and without the fault or negligence of the Party claiming force majeure including, but not limited to, acts of God, labor disputes, sudden actions of the elements, actions by federal, state, and municipal agencies, and actions of legislative, judicial, or regulatory agencies which conflict with the terms of this Agreement.

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(b) If either Party because of force majeure is rendered wholly or partly unable to perform its obligations under this Agreement, that Party shall be excused from whatever performance is affected by the force majeure to the extent so affected provided that:

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- (1) the non-performing Party, within two weeks after the occurrence of the force majeure, gives the other Party written notice describing the particulars of the occurrence,
- (2) the suspension of performance is of no greater scope and of no longer duration than is required by the force majeure,
- (3) the non-performing Party uses its best efforts to remedy its inability to perform (this subsection shall not require the settlement of any strike, walkout, lockout or other labor dispute on

terms which, in the sole judgment of the Party involved in the dispute, are contrary to its interest. It is understood and agreed that the settlement of strikes, walkouts, lockouts or other labor disputes shall be at the sole discretion of the Party having the difficulty),

- (4) when the non-performing Party is able to resume performance of its obligations under this Agreement, that Party shall give the other Party written notice to that effect, and
- (5) capacity payments during such periods of force majeure on Seller's part shall be governed by Section E-2(c), Appendix E.

(c) In the event a Party is unable to perform due to legislative, judicial, or regulatory agency action, this Agreement shall be renegotiated to comply with the legal change which caused the non-performance.

A-9 INDEMNITY

Each Party as indemnitor shall save harmless and indemnify the other Party and the directors, officers, and employees of such other Party against and from any and all loss and liability for injuries to persons including employees of either Party, and property damages including property of either Party resulting from or arising out of (1) the engineering, design, construction, maintenance, or

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operation of, or (2) the making of replacements, additions, betterments to, the indemnitor's facilities. harmless provision shall apply indemnity and save notwithstanding the active or passive negligence of the Neither Party shall be indemnified hereunder indemnitee. for its liability or loss resulting from its sole negligence or willful misconduct. The indemnitor shall, on the other Party's request, defend any suit asserting a claim covered by this indemnity and shall pay all costs, including reasonable attorney fees, that may be incurred by the other Party in enforcing this indemnity.

A-10 LIABILITY; DEDICATION

- Nothing in this Agreement shall create any duty to, any standard of care with reference to, or any liability to any person not a Party to it. Neither Party shall be liable to the other Party for consequential damages.
- (b) Each Party shall be responsible for protecting its facilities from possible damage by reason of electrical disturbances or faults caused by the operation, operation, or nonoperation of the other Party's facilities, and such other Party shall not be liable for any such damages so caused.
- No undertaking by one Party to the other under any provision of this Agreement shall constitute the

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dedication of that Party's system or any portion thereof to the other Party or to the public or affect the status of PGandE as an independent public utility corporation or Seller as an independent individual or entity and not a public utility.

A-11 SEVERAL OBLIGATIONS

Except where specifically stated in this Agreement to be otherwise, the duties, obligations, and liabilities of the Parties are intended to be several and not joint or collective. Nothing contained in this Agreement shall ever be construed to create an association, trust, partnership, or joint venture or impose a trust or partnership duty, obligation, or liability on or with regard to either Party. Each Party shall be liable individually and severally for its own obligations under this Agreement.

A-12 NON-WAIVER

Failure to enforce any right or obligation by either Party with respect to any matter arising in connection with this Agreement shall not constitute a waiver as to that matter or any other matter.

A-13 ASSIGNMENT

Neither Party shall voluntarily assign its rights nor delegate its duties under this Agreement, or any part of such rights or duties, without the written consent of the other Party, except in connection with the lease, sale, or merger of a substantial portion of its properties. Any such assignment or delegation made without such written consent shall be null and void. Consent for assignment shall not be withheld unreasonably. Such assignment shall include, unless otherwise specified therein, all of Seller's rights to any refunds which might become due under this Agreement.

A-14 CAPTIONS

All indexes, titles, subject headings, section titles, and similar items are provided for the purpose of reference and convenience and are not intended to affect the meaning of the contents or scope of this Agreement.

A-15 CHOICE OF LAWS

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This Agreement shall be interpreted in accordance with the laws of the State of California, excluding any choice of law rules which may direct the application of the laws of another jurisdiction.

A-16 GOVERNMENTAL JURISDICTION AND AUTHORIZATION

Seller shall obtain any governmental authorizations and permits required for the construction and operation of the <u>Facility</u>. Seller shall reimburse PGandE for any and all losses, damages, claims, penalties, or liability it incurs as a result of Seller's failure to obtain or maintain such authorizations and permits.

A-17 NOTICES

Any notice, demand, or request required or permitted to be given by either Party to the other, and any instrument required or permitted to be tendered or delivered by either Party to the other, shall be in writing (except as provided in Section E-3) and so given, tendered, or delivered, as the case may be, by depositing the same in any United States Post Office with postage prepaid for transmission by certified mail, return receipt requested, addressed to the Party, or personally delivered to the Party, at the address in Article 9 of this Agreement. Changes in such designation may be made by notice similarly given.

A-18.1 General Liability Coverage

damage as the result of any one occurrence.

(a) Seller shall maintain during the performance hereof, General Liability Insurance¹ of not less than \$1,000,000 if the <u>Facility</u> is over 100 kW, \$500,000 if the <u>Facility</u> is over 20 kW to 100 kW, and \$100,000 if the <u>Facility</u> is 20 kW or below of combined single limit or equivalent for bodily injury, personal injury, and property

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(b) General Liability Insurance shall include coverage for Premises-Operations, Owners and Contractors Protective, Products/Completed Operations Hazard, Explosion, Collapse, Underground, Contractual Liability, and Broad Form Property Damage including Completed Operations.

(c) Such insurance, by endorsement to the policy(ies), shall include PGandE as an additional insured if the <u>Facility</u> is over 100 kW insofar as work performed by Seller for PGandE is concerned, shall contain a severability of interest clause, shall provide that PGandE shall not by reason of its inclusion as an additional insured incur

Governmental agencies which have an established record of self-insurance may provide the required coverage through self-insurance.

liability to the insurance carrier for payment of premium for such insurance, and shall provide for 30-days' written notice to PGandE prior to cancellation, termination, alteration, or material change of such insurance.

A-18.2 Additional Insurance Provisions

- (a) Evidence of coverage described above in Section A-18.1 shall state that coverage provided is primary and is not excess to or contributing with any insurance or self-insurance maintained by PGandE.
- (b) PGandE shall have the right to inspect or obtain a copy of the original policy(ies) of insurance.
- (c) Seller shall furnish the required certificates¹ and endorsements to PGandE prior to commencing operation.
- (d) All insurance certificates¹, endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted to the following:

PACIFIC GAS AND ELECTRIC COMPANY Attention: Manager - Insurance Department 77 Beale Street, Room E280 San Francisco, CA 94106

A governmental agency qualifying to maintain self-insurance should provide a statement of self-insurance.

APPENDIX B

ENERGY PAYMENT OPTIONS

Energy Payment Option 1 - Forecasted Energy Prices

Pursuant to Article 4, the energy payment calculation for Seller's energy deliveries during each year of the <u>fixed</u> <u>price period</u> shall include the appropriate prices for such year in Table B-1, multiplied by the percentage Seller has specified in Article 4. If Seller has selected Curtailment Option B in Article 7, the forecasted off-peak hours' energy prices listed in Table B-1 shall be adjusted upward by 7.7% for Period A and 9.6% for Period B.

TABLE B-1
Forecasted Energy Price Schedule

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5	Year of							
ျ	Energy						Weighted Annual	
6	Deliv-	On Deale	Partial-Peak	Off-Pook	On-Ponk		Off-Peak	
୍ଧ	eries	Un-Peak	Partial-reak	OII-Feak	OII-reak	rai ciai i cak	OII ICAK	Average
7	1983	5.36	5.12	4.94	5.44	5.31	5.19	5.18
'	į.						5.48	5.47
اه	1984	5.66	5.40	5.22	5.74	5.61		
8	1985	5.75	5.48	5.30	5.83	5.69	5.56	5.55
9	1986	5.99	5.72	5.52	6.08	5.94	5.80	5.79
Ϋ́Ι	ł					6.32	6.17	6.16
10	1987	6.38	6.08	5.88	6.47			
10	1988	6.94	6.62	6.39	7.03	6.87	6.71	6.70
11	1989	7.60	7.25	7.00	7.70	7.53	7.35	7.34
	E .			7.48	8.23	8.04	7.85	7.84
12	1990	8.12	7.74					
14	1991	8.64	8.24	7.96	8.75	8.56	8.35	8.34
13	1992	9.33	8.90	8.60	9.46	9.24	9.02	9.01
ا ``	1993	10.10	9.63	9.30	10.23	10.00	9.76	9.75
14	+							10.54
14	1994	10.91	10.41	10.06	11.06	10.81	10.55	10.54
15	1995	11.79	11.25	10.87	11.96	11.68	11.40	11.39
•	1					12.56	12.25	12.24
10	1996	12.67	12.09	11.68	12.85			
16	1997	13.61	12.98	12.54	13.79	13.48	13.15	13.14
1	1							

^{*} These prices are differentiated by the time periods as defined in Table B-4.

Energy Payment Option 2 - Levelized Energy Prices

Pursuant to Article 4, the energy payment calculation for Seller's energy deliveries during the <u>fixed price period</u> shall include the appropriate prices set forth in Table B-2 for the year in which energy deliveries begin and <u>term of agreement</u>, multiplied by the percentage Seller has specified in Article 4. If Seller has selected Curtailment Option B in Article 7, the levelized off-peak hours' energy prices listed in Table B-2 shall be adjusted upward by 7.7% for Period A and 9.6% for Period B. The discount specified in (c)(vi) below, if applicable, will be applied to the energy payments during the fixed price period.

During the <u>fixed price period</u>, Seller shall be subject to the following conditions and terms:

(a) Minimum Damages

The Parties agree that the levelized energy prices which PGandE pays Seller for the energy which Seller delivers to PGandE is based on the agreed value to PGandE of Seller's energy deliveries during the entire fixed price period. In the event PGandE does not receive such full performance by reason of a termination, Seller shall pay PGandE an amount based on the difference between the net present values, at the

time of termination, of the payments Seller would receive at the forecasted energy prices in Table B-1 and the payments Seller would receive at the levelized energy prices, for the remaining years of the <u>fixed price period</u>. This amount shall be calculated by assuming that Seller continued to generate for the remaining years of the <u>fixed price period</u> at a level equal to the average annual energy generation during the period of performance, and by applying the weighted annual average levelized price applicable to Seller's <u>Facility</u> and the weighted annual average forecasted energy prices in Table B-1 for the remaining years of the <u>fixed price period</u>. The following formula shall be used to make this calculation:

$$P = \sum_{n=1}^{Y} \frac{(F_n)(A)(W)}{(1.15)^n} - \sum_{n=1}^{Y} \frac{(L)(A)(W)}{(1.15)^n}$$

where:

P = amount due PGandE.

Y = number of years remaining in the <u>fixed price</u>
<u>period</u>.

 F_n = weighted annual average forecasted energy price in the $n\frac{th}{}$ year after the breach, failure to perform, or expiration of security, as shown in Table B-1 for the corresponding calendar year.

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- L = weighted annual average levelized energy price applicable to Seller's Facility.
- A = average annual energy generation by Seller during the period of performance.
- n = summation index; refers to the $n\frac{th}{}$ year following termination.
- w = percent of Seller's energy payments based on the levelized energy prices, as specified in Article 4.

(b) Performance Requirements

Seller shall operate and maintain the Facility in accordance with prudent electrical practices in order to maximize the likelihood that the Facility's output as delivered to PGandE during the part of the fixed price period when the levelized price is below the forecasted price ("last part") shall equal or exceed 70% of the Facility's output during the part of the fixed price period when the levelized price is above the forecasted price ("first part"). In the event that the Facility's output during any year or series of years in the last part of the fixed price period is less than 70% of the average annual production during the first part of the fixed price period, PGandE may, at its discretion (taking into consideration events occurring during such year or series of years such as curtailment by PGandE, Seller's choice not to operate

during adjusted price periods, or scheduled maintenance including major overhauls, and the probability that Seller's future performance will be adequate), either request payment from Seller or immediately draw on the security posted, up to the amount equal to $P \times \frac{A-B}{A}, \text{ where:}$

P and A are as defined in Section (a) above.

3 = Seller's average annual energy generation during the year or series of years in which the 70% performance requirement was not met.

PGandE shall not request payment from Seller or draw on the security posted if the <u>Facility's</u> output during the last part of the <u>fixed price period</u> falls below 70% of the average annual energy generation during the first part of the <u>fixed price period</u> solely because of force majeure as defined in Section A-8, Appendix A or a lack of or limited availability of the primary energy resource of the <u>Facility</u>, if such energy resource is wind, water, or sunlight.

(c) Security

(1) As security for amounts which Seller may be obligated to pay PGandE pursuant to Sections (a) and (b) above, Seller shall provide and maintain one or more of the following in an amount as

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described in Section (c)(2) below.

- (i) irrevocable bank letter of credit An delivered to and in favor of PGandE with terms acceptable to PGandE.
- (ii) A payment bond providing for payment to PGandE in the event of any failure to meet the performance requirements set forth in Section (b) above or breach of this Agreement Such bond shall be issued by a by Seller. surety company acceptable to PGandE and shall have terms acceptable to PGandE.
- (iii) Fully paid up, noncancellable Project Failure Insurance made payable to PGandE with terms of such policy(ies) acceptable to PGandE.
- A performance bond providing for payment to (iv) PGandE in the event of any failure to meet the performance requirements set forth in Section (b) above or breach of this Agreement Such bond shall be issued by a by Seller. surety company acceptable to PGandE and shall have terms acceptable to PGandE.
 - A corporate guarantee of payment to PGandE (v) which PGandE deems, in its sole discretion,

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to provide at least the same quality of security as subsections (i) through (iv) above.

- (vi) Other forms of security which PGandE does not deem to be equivalent security to those listed in subsections (i) through (v) above, and which PGandE, in its sole discretion, deems adequate. Such other forms of security may include, for example, a corporate guarantee or a lien, mortgage or deed of trust on the <u>Facility</u> or land upon which it is located. A 1.5% discount will be applied against the levelized energy price portion of PGandE's payments to Seller during the <u>fixed</u> <u>price</u> <u>period</u> if this type of security is provided.
- (2) (i) Commencing 90 days prior to the scheduled and continuing until operation date December 1 of the following calendar year, security as described in Section (c)(1) above shall be in place in an amount calculated in accordance with the formula set forth in Section (a) above, assuming Seller delivered energy through the end of the following calendar year then terminated this and Agreement. For purposes of determining the

required amount of security, it shall be assumed that Seller's deliveries through the end of the following calendar year would equal R x C x H, where:

- R = nameplate rating, in kW, of the Facility.
- C = estimated capacity factor of the
 Facility, which shall be
 established by mutual agreement of
 the Parties at the time of
 execution of this Agreement.
- H = number of hours from the scheduled
 operation date through the end of
 the following calendar year.
- (ii) In the second calendar year of operation and each year thereafter until the end of the fixed price period, from December 1 through December 1 of the following year, security shall be in place in an amount calculated by the formula set forth in Section (a) above assuming Seller continued to deliver energy in each month through the end of following calendar year, at a level equal to the average monthly energy deliveries to and then terminated this Agreement. date,

grice period as specified above. Any security with a fixed expiration date must be renewed by Seller prior to that date. If such security is not renewed at least 30 days prior to its expiration, PGandE may, at its discretion, either request payment from Seller or immediately draw on the security posted, up to the amount calculated in accordance with the formula set forth in Section (a) above.

If, at any time during the fixed price period, (4)PGandE believes Seller is in material breach of this Agreement, PGandE shall so notify Seller in writing and Seller must remedy such breach within a reasonable period of time. If Seller does not so remedy, PGandE may, at its discretion, either request payment from Seller or immediately draw to the amount upon the security posted, up calculated in accordance with the formula set forth in Section (a) above, provided that if during Seller's period to remedy, Seller disputes PGandE's conclusion that Seller is in material and PGandE elects to draw upon the breach. security, the amount drawn upon by PGandE shall be deposited in an interest earning escrow account and held in such account until the dispute is resolved in accordance with Section (c)(5) below.

(5) Upon the written request of either Party, any controversy or dispute between concerning Section (c)(4) above shall be subject to arbitration in accordance with the provisions Arbitration Act, California of the Sections 1280-1294.2 of the California Code of Civil Procedure except as provided otherwise in this section. Either Party may demand arbitration by first giving written notice of the existence of a dispute and then within 30 days of such notices giving a second written notice of the demand for. arbitration.

Within ten days after receipt of the demand for arbitration, each Party shall appoint one person, who shall not be an employee of either Party, to hear and determine the dispute. After both arbitrators have been appointed, they shall within five (5) days select a third arbitrator.

The arbitration hearing shall take place in San Francisco, California, within 30 days of the appointment of the arbitrators, at such time and place as they select. The arbitrators shall give written notice of the time of the hearing to both Parties at least ten days prior to the hearing. The arbitrators shall not be authorized to alter, extend, or modify the terms of this Agreement. At

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the hearing, each Party shall submit a proposed written decision, and any relevant evidence may be presented. The decision of the arbitrators must consist of selection of one of the two proposed decisions, in its entirety.

decision of any two arbitrators shall be The binding and conclusive as to disputes relating to Section (c)(4) only. Upon determining the matter, arbitrators shall promptly execute the acknowledge their decision and deliver a copy to each Party. A judgment confirming the award may superior court having be rendered by any jurisdiction. Each Party shall bear its own arbitration costs and expenses, including the cost of the arbitrator it selected, and the costs and expenses of the third arbitrator shall be divided equally between both Parties, except as provided otherwise elsewhere in this Agreement.

Pending resolution of any controversy or dispute hereunder, performance by each Party shall continue so as to maintain the status quo prior to notice of such controversy or dispute. Resolution of the controversy or dispute shall include payment of any interest accrued in the escrow account.

1	TABLE B-2							
2	Levelized Energy Price Schedule							
3	For a <u>te</u>	For a term of agreement of 15-16 years:						
4	Year in Which							
5	Energy Deliv-		Levelize	ed Energy	Prices*	. ¢/kWh		Weighted
	eries		Period A			Period B		Annual
6	<u>Begin</u>	On-Peak	Partial-Peak	Off-Peak	On-Peak	Partial-Peak	Off-Peak	Average
7	1983	5.76	5.50	5.31	5.85	5.71	5.58	5.57
8	1984	6.06	5.78	5.58	6.14	6.00	5.86	5.85
0	1985	6.41	6.11	5.91	6.50	6.35	6.20	6.19
9	1986	6.85	6.54	6.32	6.95	6.79	6.63	6.62
	1987	7.37	7.03	6.79	7.47	7.30	7.13	7.12
10	1988	7.96	7.60	7.34	8.07	7.89	7.70	7.69
11	For a <u>ter</u>	m of agr	reement of 17	-19 years	:			
12	Year in							
	Which							
13	Energy							
اب	Deliv-			ed Energy	Prices*			Weighted
14							Annual	
1	· ·	- - •		1	2 2 1		0.C.C. D. 1	
15	Begin	On-Peak	Partial-Peak	Off-Peak	On-Peak	Partial-Peak	Off-Peak	
15						Partial-Peak		Average
15 16	1983 1984	On-Peak 5.90 6.23	Partial-Peak 5.63 5.95	Off-Peak 5.44 5.74	<u>On-Peak</u> 5.98 6.32		Off-Peak 5.71 6.03	
16	1983	5.90	5.63	5.44	5.98	Partial-Peak 5.84	5.71	Average 5.70
	1983 1984 1985	5.90 6.23 6.60	5.63 5.95 6.30	5.44 5.74 6.08	5.98 6.32 6.69	Partial-Peak 5.84 6.18 6.53	5.71 6.03 6.38	5.70 6.02 6.37
16 17	1983 1984 1985	5.90 6.23 6.60	5.63 5.95 6.30	5.44 5.74 6.08	5.98 6.32 6.69 7.16	Partial-Peak 5.84 6.18 6.53 7.00	5.71 6.03 6.38 6.83	5.70 6.02 6.37 6.82
16	1983 1984 1985 1986 1987	5.90 6.23 6.60 7.06 7.60	5.63 5.95 6.30 6.73 7.25	5.44 5.74 6.08 6.51 7.00	5.98 6.32 6.69 7.16 7.70	Partial-Peak 5.84 6.18 6.53 7.00 7.53	5.71 6.03 6.38 6.83 7.35	5.70 6.02 6.37 6.82 7.34
16 17 18	1983 1984 1985	5.90 6.23 6.60	5.63 5.95 6.30	5.44 5.74 6.08	5.98 6.32 6.69 7.16	Partial-Peak 5.84 6.18 6.53 7.00	5.71 6.03 6.38 6.83	5.70 6.02 6.37 6.82
16 17	1983 1984 1985 1986 1987 1988	5.90 6.23 6.60 7.06 7.60 8.21	5.63 5.95 6.30 6.73 7.25 7.83	5.44 5.74 6.08 6.51 7.00 7.57	5.98 6.32 6.69 7.16 7.70 8.32	Partial-Peak 5.84 6.18 6.53 7.00 7.53	5.71 6.03 6.38 6.83 7.35	5.70 6.02 6.37 6.82 7.34
16 17 18	1983 1984 1985 1986 1987 1988	5.90 6.23 6.60 7.06 7.60 8.21	5.63 5.95 6.30 6.73 7.25	5.44 5.74 6.08 6.51 7.00 7.57	5.98 6.32 6.69 7.16 7.70 8.32	Partial-Peak 5.84 6.18 6.53 7.00 7.53	5.71 6.03 6.38 6.83 7.35	5.70 6.02 6.37 6.82 7.34
16 17 18 19 20	1983 1984 1985 1986 1987 1988 For a <u>ter</u>	5.90 6.23 6.60 7.06 7.60 8.21	5.63 5.95 6.30 6.73 7.25 7.83	5.44 5.74 6.08 6.51 7.00 7.57	5.98 6.32 6.69 7.16 7.70 8.32	Partial-Peak 5.84 6.18 6.53 7.00 7.53	5.71 6.03 6.38 6.83 7.35	5.70 6.02 6.37 6.82 7.34
16 17 18 19	1983 1984 1985 1986 1987 1988 For a ter Year in Which	5.90 6.23 6.60 7.06 7.60 8.21	5.63 5.95 6.30 6.73 7.25 7.83	5.44 5.74 6.08 6.51 7.00 7.57	5.98 6.32 6.69 7.16 7.70 8.32	Partial-Peak 5.84 6.18 6.53 7.00 7.53	5.71 6.03 6.38 6.83 7.35	5.70 6.02 6.37 6.82 7.34
16 17 18 19 20 21	1983 1984 1985 1986 1987 1988 For a <u>ter</u> Year in Which Energy	5.90 6.23 6.60 7.06 7.60 8.21	5.63 5.95 6.30 6.73 7.25 7.83	5.44 5.74 6.08 6.51 7.00 7.57	5.98 6.32 6.69 7.16 7.70 8.32	Partial-Peak 5.84 6.18 6.53 7.00 7.53 8.13	5.71 6.03 6.38 6.83 7.35	5.70 6.02 6.37 6.82 7.34 7.93
16 17 18 19 20	1983 1984 1985 1986 1987 1988 For a <u>ter</u> Year in Which Energy Deliv-	5.90 6.23 6.60 7.06 7.60 8.21	5.63 5.95 6.30 6.73 7.25 7.83 Peement of 20-	5.44 5.74 6.08 6.51 7.00 7.57	5.98 6.32 6.69 7.16 7.70 8.32	Partial-Peak 5.84 6.18 6.53 7.00 7.53 8.13	5.71 6.03 6.38 6.83 7.35	5.70 6.02 6.37 6.82 7.34
16 17 18 19 20 21	1983 1984 1985 1986 1987 1988 For a <u>ter</u> Year in Which Energy	5.90 6.23 6.60 7.06 7.60 8.21	5.63 5.95 6.30 6.73 7.25 7.83 reement of 20-	5.44 5.74 6.08 6.51 7.00 7.57 -30 years:	5.98 6.32 6.69 7.16 7.70 8.32	Partial-Peak 5.84 6.18 6.53 7.00 7.53 8.13	5.71 6.03 6.38 6.83 7.35 7.94	5.70 6.02 6.37 6.82 7.34 7.93 Weighted Annual
16 17 18 19 20 21 22	1983 1984 1985 1986 1987 1988 For a ter Year in Which Energy Deliveries	5.90 6.23 6.60 7.06 7.60 8.21 m of agr	5.63 5.95 6.30 6.73 7.25 7.83 Peement of 20- Levelize Period A Partial-Peak	5.44 5.74 6.08 6.51 7.00 7.57 -30 years:	5.98 6.32 6.69 7.16 7.70 8.32	Partial-Peak 5.84 6.18 6.53 7.00 7.53 8.13	5.71 6.03 6.38 6.83 7.35 7.94	5.70 6.02 6.37 6.82 7.34 7.93 Weighted Annual
16 17 18 19 20 21 22 23 24	1983 1984 1985 1986 1987 1988 For a ter Year in Which Energy Deliveries Begin	5.90 6.23 6.60 7.06 7.60 8.21	5.63 5.95 6.30 6.73 7.25 7.83 reement of 20-	5.44 5.74 6.08 6.51 7.00 7.57 -30 years:	5.98 6.32 6.69 7.16 7.70 8.32 Prices*	7.84 6.18 6.53 7.00 7.53 8.13 8.13	5.71 6.03 6.38 6.83 7.35 7.94	5.70 6.02 6.37 6.82 7.34 7.93 Weighted Annual Average
16 17 18 19 20 21 22 23	1983 1984 1985 1986 1987 1988 For a ter Year in Which Energy Deliv- eries Begin	5.90 6.23 6.60 7.06 7.60 8.21 m of agr	5.63 5.95 6.30 6.73 7.25 7.83 Peement of 20- Levelize Period A Partial-Peak	5.44 5.74 6.08 6.51 7.00 7.57 -30 years:	5.98 6.32 6.69 7.16 7.70 8.32 Prices*	Partial-Peak 5.84 6.18 6.53 7.00 7.53 8.13 / ¢/kWh Period B Partial-Peak 6.43	5.71 6.03 6.38 6.83 7.35 7.94 Off-Peak	5.70 6.02 6.37 6.82 7.34 7.93 Weighted Annual Average 6.27
16 17 18 19 20 21 22 23 24 25	1983 1984 1985 1986 1987 1988 For a ter Year in Which Energy Deliv- eries Begin 1983 1984 1985	5.90 6.23 6.60 7.06 7.60 8.21 m of agr On-Peak 6.49 6.90 7.34	5.63 5.95 6.30 6.73 7.25 7.83 Peement of 20- Levelize Period A Partial-Peak 6.20 6.58 7.00	5.44 5.74 6.08 6.51 7.00 7.57 -30 years: ed Energy Off-Peak 5.98 6.35 6.76	5.98 6.32 6.69 7.16 7.70 8.32 Prices* On-Peak 6.58 6.99 7.44	Partial-Peak 5.84 6.18 6.53 7.00 7.53 8.13 / k/kWh Period B Partial-Peak 6.43 6.83 7.27	5.71 6.03 6.38 6.83 7.35 7.94 0ff-Peak 6.28 6.67 7.10	5.70 6.02 6.37 6.82 7.34 7.93 Weighted Annual Average 6.27 6.66 7.09
16 17 18 19 20 21 22 23 24	1983 1984 1985 1986 1987 1988 For a ter Year in Which Energy Deliv- eries Begin 1983 1984 1985	5.90 6.23 6.60 7.06 7.60 8.21 m of agr On-Peak 6.49 6.90 7.34 7.88	5.63 5.95 6.30 6.73 7.25 7.83 reement of 20- Levelize Period A Partial-Peak 6.20 6.58 7.00 7.51	5.44 5.74 6.08 6.51 7.00 7.57 -30 years: ed Energy Off-Peak 5.98 6.35 6.76 7.26	5.98 6.32 6.69 7.16 7.70 8.32 Prices*, On-Peak 6.58 6.99 7.44 7.99	Partial-Peak 5.84 6.18 6.53 7.00 7.53 8.13 / ¢/kWh Period B Partial-Peak 6.43 6.83 7.27 7.81	5.71 6.03 6.38 6.83 7.35 7.94 0ff-Peak 6.28 6.67 7.10 7.62	5.70 6.02 6.37 6.82 7.34 7.93 Weighted Annual Average 6.27 6.66 7.09 7.61
16 17 18 19 20 21 22 23 24 25	1983 1984 1985 1986 1987 1988 For a ter Year in Which Energy Deliv- eries Begin 1983 1984 1985	5.90 6.23 6.60 7.06 7.60 8.21 m of agr On-Peak 6.49 6.90 7.34	5.63 5.95 6.30 6.73 7.25 7.83 Peement of 20- Levelize Period A Partial-Peak 6.20 6.58 7.00	5.44 5.74 6.08 6.51 7.00 7.57 -30 years: ed Energy Off-Peak 5.98 6.35 6.76	5.98 6.32 6.69 7.16 7.70 8.32 Prices* On-Peak 6.58 6.99 7.44	Partial-Peak 5.84 6.18 6.53 7.00 7.53 8.13 / k/kWh Period B Partial-Peak 6.43 6.83 7.27	5.71 6.03 6.38 6.83 7.35 7.94 0ff-Peak 6.28 6.67 7.10	5.70 6.02 6.37 6.82 7.34 7.93 Weighted Annual Average 6.27 6.66 7.09

^{28 *} These prices are differentiated by the time periods as defined in Table B-4. B-13

Energy Payment Option 3 - Incremental Energy Rate

During the period specified in Article 4, annual adjustments to Seller's energy payments shall be made as described below.

At the end of each calendar year, the Derived Incremental Energy Rate (with units expressed in Btu/kWh) will be calculated as follows:

Derived Incremental Energy Rate (DIER) = $\frac{B}{A \times C}$ where:

- A = the total kWh delivered by Seller during the calendar year, excluding any kWh delivered when Seller was asked to curtail deliveries under Curtailment Option A or when Seller was asked to take adjusted prices under Curtailment Option B.
- B = the total dollars paid for the energy described for A above.
- C = the weighted average price paid during the calendar year by PGandE's Electric Department for oil and natural gas for PGandE's fossil steam plants, expressed in \$/Btu on a gas Btu basis.

If the DIER is between the upper and lower Incremental Energy Rate Bounds specified for that year in Table B-3 for the curtailment option selected by Seller, no additional payment is due either Party.

If the DIER is below the lower Incremental Energy Rate Bound, PGandE shall pay Seller an amount calculated as follows:

where:

 P_S = additional payment due Seller.

DIER = Derived Incremental Energy Rate.

PGandE shall add this payment to the first payment made to Seller following the calculation.

If the DIER is above the upper Incremental Energy Rate Bound, Seller shall pay PGandE an amount calculated as follows:

where:

 P_{R} = amount due PGandE.

DIER = Derived Incremental Energy Rate.

This amount shall be deducted from the first payment made to Seller following the calculation. If there is any remaining amount due PGandE, PGandE may, at its option, invoice Seller with such payment due within 30 days or deduct this amount from future payments due Seller.

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TABLE B-3

Forecasted Incremental Energy Rates and Incremental Energy Rate Bounds

Curtailment Option A:

		Incremental		
	Forecasted Incremental Energy	Energy Rate Band Width from	Upper Incremental Energy Rate Bound,	Lower Incremental Energy Rate Bound,
	Rates,	Article 4,	Btu/kWh	Btu/kWh
	Btu/kWh	Btu/kWh	[column (a)	[column (a)
Year	(a)	<u>(b)</u>	plus column (b)]	<pre>minus column(b)]</pre>
1984	9,000			
1985	9,050			Andrew Control of the
1986	8,840			
1987	8,850			
1988	8,960			
	-,			Wilderson 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19
1989	8,820			
1990	8,540		***************************************	
1991	8,540			
		•		
1992	8,540			
1993	8,540	<u> </u>		(************************************
1994	8,540	W110000110011001001001001001001001001001	**************************************	Martin and the control of the contro
1995	8,540			
1996	8,540		· · · · · · · · · · · · · · · · · · ·	
1997	8,540			
1001	0,540			
1998	8,540			
	•			

TABLE B-3 (continued)

Curtailment Option B:

<u>Year</u>	Forecasted Incremental Energy Rates, Btu/kWh (a)	Incremental Energy Rate Band Width from Article 4, Btu/kWh (b)	Upper Incremental Energy Rate Bound, Btu/kWh [column (a) plus column (b)]	Lower Incremental Energy Rate Bound, Btu/kWh [column (a) minus column(b)]
1984	9,440			
1985	9,500			
1986	9,280			
1987	9,290		***************************************	
1988	9,400			
1989	9,270			
1990	8,970			
1991	8,970			**************************************

1992	8,970			
1993	8,970			
1994	8,970			
1995	8,970			
1996	8,970			
1997	8,970			
1998	8,970	-		***************************************

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1		TABLE B-4 ¹ Time Periods	:	
2		20110		
3	·	Monday through Friday ²	Saturdays ²	Sundays and
4		Filday	<u> saturuays</u>	<u> Holidays</u>
5	Seasonal Period A (May 1 through September 30)			
6	On-Peak	12:30 p.m.		
7		to 6:30 p.m.		
8	Partial-Peak	8:30 a.m. to	8:30 a.m. to	
9		12:30 p.m.	10:30 p.m.	
10		6:30 p.m. to		
11		10:30 p.m.		
12	Off-Peak	10:30 p.m. to	10:30 p.m. to	All Day
13		8:30 a.m.	8:30 a.m.	
14	Seasonal Period B			
15	(October 1 through April 30)			
16	On-Peak	4:30 p.m. to		
17		8:30 p.m.		
18	Partial-Peak	8:30 p.m. to	8:30 a.m. to	
10		10:30 p.m.	10:30 p.m.	
19		8:30 a.m. to		
20		4:30 p.m.		
21	Off-Peak	10:30 p.m.	10:30 p.m.	All Day
22		to	to	
		8:30 a.m.	8:30 a.m.	
23	1 This table is subject to	ahanaa ta saas	ما المائد الم	a le
24	This table is subject to partial-peak, and off-pe			

This table is subject to change to accord with the on-peak, partial-peak, and off-peak periods as defined in PGandE's own rate schedules for the sale of electricity to its large industrial customers.

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Except the following holidays: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day, as specified in Public Law 90-363 (5 U.S.C.A. Section 6103(a)).

TABLE B-5

ENERGY PRICES

Energy Prices Effective May 1 - July 31, 1984

The energy purchase price calculations which will apply to energy deliveries determined from meter readings taken during May, June and July 1984 are as follows:

	(a) Incremental	(b)	(c) Revenue Requirement for Cash	(d) Energy Purchase Price ⁴
Time Period	Energy Rate ¹ (Btu/kWh)	Cost of Energy ² (\$/10 ⁵ Btu)	Working Capital ³ (\$/kWh)	$(d) = [(a) \times (b)] + (c)$ (\$/kWh)
May 1 - July 31 (Period A)				
Time of Delivery Basis:				
On-Peak Partial-Peak Off-Peak	13,674 12,665 10,119	5.4152 5.4152 5.4152	0.00041 0.00038 0.00033	0.07446 0.06896 0.05513
Seasonal Average (Period A)	11,538	5.4152	0.00036	0.06284

Incremental energy rates (Btu/kWh) for Seasonal Period A are derived from the marginal energy costs (including variable operating and maintenance expense) adopted by the CPUC in Decision No. 83-12-068 (page 339). They are based upon natural gas as the incremental fuel and weighted average hydroelectric power conditions.

Cost of natural gas under PGandE Gas Schedule No. G-55 effective April 18, 1984 per Advice No. 1261-G.

Revenue Requirement for Cash Working Capital as prescribed by the CPUC in Decision No. 83-12-068.

Energy Purchase Price = (Incremental Energy Rate x Cost of Energy) + Revenue Requirement for Cash Working Capital. The energy purchase price excludes the applicable energy line loss adjustment factors. However, as ordered by Ordering Paragraph No. 12(j) of CPUC Decision No. 82-12-120, this figure is currently 1.0 for transmission and primary distribution loss adjustments and is equal to marginal cost line loss adjustment factors for the secondary distribution voltage level. These factors may be changed by the CPUC in the future. The currently applicable energy loss adjustment factors are shown in Table B-6.

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TABLE B-6 Energy Loss Adjustment Factors¹

	Transmission	Primary <u>Distribution</u>	Secondary Distribution
Seasonal Period A (May 1 through September 30)			
On-Peak Partial-Peak Off-Peak	1.0 1.0 1.0	1.0 1.0 1.0	1.0148 1.0131 1.0093
Seasonal Period B (October 1 through April 30)			
On-Peak Partial-Peak Off-Peak	1.0 1.0 1.0	1.0 1.0 1.0	1.0128 1.0119 1.0087

The applicable energy loss adjustment factors may be revised pursuant to orders of the $\underline{\text{CPUC}}$.

APPENDIX C

CURTAILMENT OPTIONS

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Seller has two options regarding curtailment of energy deliveries and Seller has made its selection in Article 7. The two options are as follows:

CURTAILMENT OPTION A - HYDRO SPILL AND
NEGATIVE AVOIDED COST

(a) In anticipation of a period of hydro spill conditions, as defined by the <u>CPUC</u>, PGandE may notify Seller that any purchases of energy from Seller during such period shall be at hydro savings prices quoted by PGandE. If Seller delivers energy to PGandE during any such period, Seller shall be paid hydro savings prices for those deliveries in lieu of prices which would otherwise be applicable. The hydro savings prices shall be calculated by PGandE using the following formula:

$$\frac{AQF - S}{AQF} \times PP \qquad (\ge 0)$$

where:

AQF = Energy, in kWh, projected to be available during hydro spill conditions from all qualifying facilities under agreements containing hydro savings price provisions.

S = Potential energy, in kWh, from PGandE hydro
facilities which will be spilled if all AQF
is delivered to PGandE.

PP = Prices published by PGandE for purchases during other than hydro spill conditions.

PGandE shall give Seller notice of general periods when hydro spill conditions are anticipated, and shall give Seller as much advance notice as practical of any specific hydro spill period and the hydro savings price which will be applicable during such period.

- (b) PGandE shall not be obligated to accept or pay for and may require Seller with a Facility with a nameplate rating of one megawatt or greater to interrupt or reduce deliveries of energy during periods when PGandE would incur negative avoided costs (as defined by the CPUC) due to continued acceptance of energy deliveries under this Agreement. Whenever possible, PGandE shall give Seller reasonable notice of the possibility that interruption or reduction of deliveries may be required.
- (c) Before interrupting or reducing deliveries under subsection (b), above, and before invoking hydro savings prices under subsection (a), above, PGandE shall take reasonable steps to make economy sales of the surplus energy giving rise to the condition. If such economy sales are made, while the surplus energy condition exists Seller shall

be paid at the economy sales price obtained by PGandE in lieu of the otherwise applicable prices.

and simultaneously purchasing its electrical needs from PGandE and Seller elects not to sell energy to PGandE at the hydro savings price pursuant to subsection (a) or when PGandE curtails deliveries of energy pursuant to subsection (b), Seller shall not use such energy to meet its electrical needs but shall continue to purchase all its electrical needs from PGandE. If Seller is selling surplus energy output to PGandE, subsections (a) or (b) shall only apply to the surplus energy output being delivered to PGandE, and Seller can continue to internally use that generation it has retained for its own use.

CURTAILMENT OPTION B - ADJUSTED PRICE PERIOD

(a) In each calendar year, the price which PGandE is obligated to pay Seller for energy deliveries during 1,000 off-peak hours (as defined in Table B-4, Appendix B) may be adjusted to a price equal to, but not in excess of, PGandE's available alternative source. This adjusted price shall be effective under any of the following conditions:

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(i) when PGandE's energy source at the margin is not a PGandE oil- or gas-fueled plant, and PGandE

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can replace Seller's energy with energy from this source at a cost less than the price paid to Seller;

- (ii) when PGandE would incur negative avoided costs (as defined by the <u>CPUC</u>) due to continued acceptance of energy deliveries under this Agreement; or
- (iii) when PGandE is experiencing minimum system operations.

During any of the conditions described above the adjusted price may be zero.

- (b) Whenever possible, PGandE shall give Seller reasonable notice of any price adjustment for energy deliveries and its probable duration.
- (c) If Seller is selling net energy output to PGandE and simultaneously purchasing its electrical needs from PGandE and Seller elects not to sell energy to PGandE at the adjusted price, Seller shall not use such energy to meet its electrical needs but shall continue to purchase all its electrical needs from PGandE.
- (d) After Seller receives notice of the probable duration of the period during which the adjusted price will be paid, Seller may elect to perform maintenance during such

period and so inform the PGandE employee in charge at the designated PGandE switching center prior to the time when the adjusted price period is expected to begin. If Seller makes such election, the number of off-peak hours of probable duration quoted in PGandE's notice to Seller shall be applied to the 1,000-hour calendar year limitation set forth in this section. After an election to do maintenance, if Seller makes any deliveries of energy during the quoted probable duration period, Seller shall be paid the adjusted price quoted in its notice from PGandE without regard to any subsequent changes on the PGandE system which may alter the adjusted price or shorten the actual duration of the condition.

APPENDIX D

AS-DELIVERED CAPACITY

D-1 AS-DELIVERED CAPACITY PAYMENT OPTIONS

Seller has two options for as-delivered capacity payments and Seller has made its selection in Article 5. The two options are as follows:

AS-DELIVERED CAPACITY PAYMENT OPTION 1

PGandE shall pay Seller for as-delivered capacity at prices authorized from time to time by the CPUC. The as-delivered capacity prices in effect on the date of execution are calculated as shown in Exhibit D-1.

AS-DELIVERED CAPACITY PAYMENT OPTION 2

During the fixed price period, the as-delivered capacity prices will be calculated in accordance with Exhibit D-1 and the forecasted shortage costs in Table D-2.

For the remaining years of the term of agreement, PGandE shall pay Seller for as-delivered capacity at the

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higher of:

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(i) prices authorized from time to time by the CPUC;

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(ii) the as-delivered capacity prices that were paid Seller in the last year of the fixed price period; or

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the as-delivered capacity prices in effect in (iii) the first year following the end of the fixed price period, provided that the annualized shortage cost from which these prices are derived does not exceed the annualized value

of a gas turbine.

D-2 AS-DELIVERED CAPACITY IN EXCESS OF FIRM CAPACITY

The amount of capacity delivered in excess of firm capacity will be considered as-delivered capacity. This as-delivered capacity is based on the total kilowatt-hours delivered each month during all on-peak, partial-peak and hours excluding any energy associated with off-peak generation levels equal to or less than the firm capacity.

Seller has the two options listed in Section D-1 for payment for such as-delivered capacity. Seller has made its selection in Article 5.

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As defined by the \underline{CPUC} .

The <u>as-delivered capacity</u> price (in cents per kW-hr) for power delivered by the <u>Facility</u> is the product of three factors:

- (a) The shortage cost in each year the <u>Facility</u> is operating. Currently, this shortage cost is \$156 per kW-year.
- (b) A capacity loss adjustment factor which provides for the effect of the deliveries on PGandE's transmission and distribution losses based on the Seller's interconnection voltage level. The applicable capacity loss adjustment factors for non-remote¹ Facilities are presented in Table D-1(a). Capacity loss adjustment factors for remote Facilities shall be calculated individually.
- (c) An allocation factor which accounts for the different values of <u>as-delivered capacity</u> in different time periods and converts dollars per kW-year to cents per kWh. The current allocation factors are presented in Table D-1(b). The time periods to which they apply are shown in Table B-4, Appendix B. The allocation factors are subject to change from time to time.

TABLE D-1(a)

Capacity Loss Adjustment Factors for Non-Remote¹ Facilities

Voltage Level	Loss Adjustment Factor
Transmission	.989
Primary Distribution	.991
Secondary Distribution	.991

If the <u>Facility</u> is remote, the capacity loss adjustment factor is ______2.

TABLE D-1(b)

Allocation Factors for As-Delivered Capacity³

	On-Peak (Ø-yr/\$-hr)	Partial-Peak (¢-yr/\$-hr)	Off-Peak (¢-yr/\$-hr)
Seasonal Period A	.10835	.02055	.00002
Seasonal Period B	.00896	.00109	.00001

As defined by the <u>CPUC</u>. The capacity loss adjustment factors for remote Facilities are determined individually.

$$\frac{\cancel{e}/kWh}{\$/kW-yr} = \frac{\cancel{e}/kW-hr}{\$/kW-yr} = \frac{\cancel{e}-yr}{\$-hr}$$

The allocation factors were prescribed by the <u>CPUC</u> in Decision No. 83-12-068 and are subject to change from time to time.

The Seller requests and PGandE consents that this factor will be determined individually upon completion of a capacity loss adjustment factor study by PGandE.

The units for the allocation factor, $\not e$ -yr/\$-hr, are derived from the conversion of \$/kW-yr into $\not e$ /kWh as follows:

TABLE D-2 Forecasted Shortage Cost Schedule

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6	<u>Year</u>	Forecast Shortage Cost, \$/kW-Yr
7	1983	70
8	1984 1985	76 81
9	1986	88
10	1987 1988	95 102
11	1989	110
12	1990 1991	118 126
13	1992	135
14	1993 1994	144 154
15	1995	164
16	1996 1997	176 188
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2		APPENDIX E	
3		FIRM CAPACITY	
4		CONTENTS	
5			
6	<u>Section</u>		Page
7	E=1	GENERAL	E-2
8	E-2	PERFORMANCE REQUIREMENTS	E-2
9	E-3	SCHEDULED MAINTENANCE	E-4
10	E-4	ADJUSTMENTS TO FIRM CAPACITY	E-5
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12	E-6	MINIMUM DAMAGES	E-12
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APPENDIX E

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E-1 GENERAL

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This Appendix E establishes conditions and prices under which PGandE shall pay for firm capacity.

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PGandE's obligation to pay for firm capacity shall begin on the firm capacity availability date. capacity price shall be subject to adjustment as provided for in this Appendix E.

The firm capacity prices in Table E-2 are applicable for deliveries of firm capacity beginning after December 30, 1982.

E-2 PERFORMANCE REQUIREMENTS

To receive full capacity payments, (a) the firm capacity shall be delivered for all of the on-peak hours in the peak months on the PGandE system, which are presently the months of June, July, and August, subject to a 20 in percent allowance for forced outages any month. Compliance with this provision shall be based on the Facility's total on-peak deliveries for each of the peak

On-peak, partial-peak, and off-peak hours are defined in Table B-4, Appendix B.

months exclude and shall generation levels greater than the firm capacity.

any energy associated with

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(b) Ιf Seller is prevented from meeting the performance requirements because of a forced outage on the PGandE system, a PGandE curtailment of Seller's deliveries, or a condition set forth in Section A-7, Appendix A, PGandE shall continue capacity payments. Firm capacity payments will be calculated in the same manner used for scheduled maintenance outages.

- (c) Ιf Seller is prevented from meeting the performance requirements because of force majeure, PGandE shall continue capacity payments for ninety days from the occurrence of the force majeure. Thereafter, Seller shall be deemed to have failed to have met the performance requirements. Firm capacity payments will be calculated in the same manner used for scheduled maintenance outages.
- (d) Ιf Seller is prevented from meeting the performance requirements because of exteme dry year conditions, PGandE shall continue capacity payments. Extreme dry year conditions are drier than those used to establish firm capacity pursuant to Section E-8. Seller shall warrant to PGandE that the Facility is a hydroelectric facility and that such conditions are the sole cause of Seller's inability to meet its firm capacity obligations.

- (e) If Seller is prevented from meeting the performance requirements for reasons other than those described above in Sections E-2(b), (c), or (d):
 - (1) Seller shall receive the reduced <u>firm</u> <u>capacity</u> payments as provided in Section E-5 for a probationary period not to exceed 15 months, or as otherwise agreed to by the Parties.
 - (2) If, at the end of the probationary period Seller has not demonstrated that the <u>Facility</u> can meet the performance requirements, PGandE may derate the <u>firm</u> capacity pursuant to Section E-4(b).

E-3 SCHEDULED MAINTENANCE

Outage periods for scheduled maintenance shall not exceed 840 hours (35 days) per generator in any 12-month period. This allowance may be used in increments of an hour or longer on a consecutive or nonconsecutive basis. Seller may accumulate unused maintenance hours from one 12-month period to another up to a maximum of 1,080 hours (45 days) per generator. This accrued time must be used consecutively and only for major overhauls. Seller shall provide PGandE with the following advance notices: 24 hours for scheduled outages less than one day, one week for a scheduled outage of one day or more (except for major overhauls), and six months for a major overhaul. Seller shall not schedule major overhauls during the peak months (presently June, July and August). Seller shall make reasonable efforts to

schedule or reschedule routine maintenance outside the peak months, and in no event shall outages for scheduled maintenance exceed 30 peak hours during the peak months. Seller shall confirm in writing to PGandE pursuant to Article 9, within 24 hours of the original notice, all notices Seller gives personally or by telephone for scheduled maintenance.

If Seller has selected Curtailment Option B, off-peak hours of maintenance performed pursuant to Section (d) of Curtailment Option B, Appendix C shall not be deducted from Seller's scheduled maintenance allowances set forth above.

E-4 ADJUSTMENTS TO FIRM CAPACITY

- (a) Seller may increase the <u>firm capacity</u> with the approval of PGandE and receive payment for the additional capacity thereafter in accordance with the applicable capacity purchase price published by PGandE at the time the increase is first delivered to PGandE.
- (b) Seller may reduce the <u>firm capacity</u> at any time prior to the <u>firm capacity availability date</u> by giving written notice thereof to PGandE. PGandE may derate the <u>firm capacity</u> in accordance with Section E-2(e) as a result of appropriate data showing Seller has failed to meet the performance requirements of Section E-2.

E-5 FIRM CAPACITY PAYMENTS

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 The method for calculation of <u>firm</u> <u>capacity</u> payments is shown below. As used below in this section, month refers to a calendar month.

The monthly payment for <u>firm capacity</u> will be the product of the Period Price Factor (PPF), the Monthly Delivered Capacity (MDC), the appropriate capacity loss adjustment factor from Table E-1 based on the <u>Facility's</u> interconnection voltage, and the appropriate performance bonus factor, if any, from Table E-3, plus any allowable payment for outages due to scheduled maintenance. The <u>firm capacity price</u> shall be applied to meter readings taken during the separate times and periods as illustrated in Table B-4, Appendix B.

The PPF is determined by multiplying the <u>firm capacity</u> price by the following Allocation Factors¹:

	Allocation Factor	x	<u>Firm</u> Capacity Price	=	PPF (\$/kW-month)
Seasonal Period A	.18540				
Seasonal Period B	.01043				

These allocation factors were prescribed by the <u>CPUC</u> in Decision No. 83-12-068. All allocation factors are subject to change by PGandE based on PGandE's marginal capacity cost allocation, as determined in general rate case proceedings before the <u>CPUC</u>. Seasonal Periods A and B are defined in Table B-4, Appendix B.

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The MDC is determined in the following manner:

(1) Determine the Performance Factor (P), which is defined as the lesser of 1.0 or the following quantity:

$$P = \frac{A}{C \times (B-S) \times (0.8*)}$$
 (\leq 1.0)

Where:

- A = Total kilowatt-hours delivered during all on-peak and partial-peak hours excluding any energy associated with generation levels greater than the firm capacity.
- C = Firm capacity in kilowatts.
- B = Total on-peak and partial-peak hours during the month.
- S = Total on-peak and partial-peak hours during the month <u>Facility</u> is out of service on scheduled maintenance.
- (2) Determine the Monthly Capacity Factor (MCF), which is computed using the following expression:

$$MCF = P \times (1.0 - \frac{M}{D})$$

Where:

- M = The number of hours during the month <u>Facility</u> is out of service on scheduled maintenance.
- D = The number of hours in the month.

^{* 0.8} reflects a 20% allowance for forced outage.

(3) Determine the MDC by multiplying the MCF by C: MDC (kilowatts) = MCF x C

The monthly payment for <u>firm capacity</u> is then determined by multiplying the PPF by the MDC, by the appropriate capacity loss adjustment factor presented from Table E-1, and by the appropriate performance bonus factor, if any, from Table E-3.

monthly payment = PPF x MDC x capacity loss x performance for $\underline{\text{firm capacity}}$ = PPF x MDC x adjustment factor x bonus factor

Furthermore, the payment for a month in which there is an outage for scheduled maintenance shall also include an amount equal to the product of the average hourly firm capacity payment for the most recent month in the same type of Seasonal Period (i.e., Seasonal Period A or Seasonal Period B) during which deliveries were made times the number of hours of outage for scheduled maintenance in the current month. Firm capacity payments will continue during the outage periods for scheduled maintenance provided that the provisions of Section E-3 are met.

During a probationary period Seller's monthly payment for <u>firm capacity</u> shall be determined by substituting for the <u>firm capacity</u>, the capacity at which

Total monthly payment divided by the total number of hours in the monthly billing period.

Seller would have met the performance requirements. In the event that during the probationary period Seller does not meet the performance requirements at whatever firm capacity was established for the previous month, Seller's monthly firm capacity shall be determined payment for substituting the firm capacity at which Seller would have met the performance requirements. The performance bonus factor shall not be applied during probationary periods.

TABLE E-1

If the Facility is non-remote¹ the firm capacity loss adjustment factors are as follows:

Voltage Level	Loss Adjustment Fact
Transmission	.989
Primary Distribution	.991
Secondary Distribution	.991

If the $\underline{\text{Facility}}$ is remote the $\underline{\text{firm}}$ $\underline{\text{capacity}}$ loss adjustment factor is

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As defined by the CPUC.

Determined individually.

TABLE E-2

Firm Capacity Price Schedule

(Levelized \$/kW-year)

Firm
Capacity
Avail-
ability
Date

Number of Years of Firm Capacity Delivery

(Year)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	20	25	30
1982	65	68	70	72	75	77	79	81	84	86	88	90	91	93	95	103	109	113
1983	70	73	75	78	80	83	85	88	90	92	94	96	98	100	102	110	117	122
						r												
1984	76	78	81	84	86	89	92	94	97	99	101	103	106	108	110	118	125	130
1985	81	84	87	90	93	96	99	101	104	106	109	111	113	115	118	127	134	140
1986	88	91	94	97	100	103	106	109	112	114	117	119	122	124	126	136	144	150
1987	95	98	101	105	108	111	114	117	120	123	125	128	130	133	135	146	154	160

TABLE E-3

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Performance Bonus Factor

The following shall be the performance bonus factors applicable to the calculation of the monthly payments for firm capacity delivered by the Facility after it has demonstrated a firm capacity factor in excess of 85%.

Ι	DEMONSTRA!	ľED			
FIRM	CAPACITY	FACTOR	PERFORMANCE		
	(%)		BONUS FACTOR		
	85		1.000		
	90	1.059			
	95		1.118		
	100		1.176		

After the <u>Facility</u> has delivered power during the span of all of the peak months on the PGandE system (presently June, July, and August) in any year (span),

(i) the <u>firm capacity</u> factor for each such month shall be calculated in the following manner:

FIRM CAPACITY FACTOR (%) =
$$\frac{F}{(N-W) \times Q} \times 100$$

Where:

F = Total kilowatt-hours delivered by Seller in any peak month during all on-peak hours excluding any energy associated with generation levels greater than the <u>firm capacity</u>.

1 = Total on-peak hours during the month. 2 W = Total on-peak hours during the peak month that the 3 of service Facility is out maintenance. 4 = Firm capacity in kilowatts. 5 6 (ii) the arithmetic average of the above firm capacity 7 8 factors shall be determined for that span, 9 (iii) the average of the above arithmetic average firm 10 capacity factors for the most recent span(s), not to exceed 11 5, shall be calculated and shall become the Demonstrated 12 Firm Capacity Factor. 13 14 To calculate the performance bonus factor for a 15 Demonstrated Firm Capacity Factor not shown in Table E-3 use 16 the following formula: 17 18 Performance Bonus Factor = Demonstrated Firm Capacity Factor (%) 19 20 E-6 MINIMUM DAMAGES 21 22 In the event the firm capacity is derated or **2**3 Seller terminates this Agreement, the quantity by which the 24 firm capacity is derated or the firm capacity shall be used 25

on

scheduled

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Section (d).

to calculate the payments due PGandE in accordance with

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(b) Seller shall be invoiced by PGandE for all amounts due under this section. Payment shall be due within 30 days of the date of invoice.

(c) If Seller does not make payments pursuant to Section (b), PGandE shall have the right to offset any amounts due it against any present or future payments due Seller.

(d) Seller shall pay to PGandE:

the difference (i) an amount equal to between (a) the firm capacity payments already paid by PGandE, based on the original term of agreement and (b) the total firm capacity payments which PGandE would have paid based on the period of Seller's actual performance using the adjusted firm capacity price. Additionally, Seller shall pay interest, compounded monthly from the date the excess capacity payment was made until the date Seller repays PGandE, on all overpayments, at the published Federal Reserve Board three months' Prime Commercial Paper rate; plus

(ii) a sum equal to the amount by which the firm capacity is being terminated or derated times the difference between the current firm capacity price on the date of termination or deration for a

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term equal to the balance of the <u>term of agreement</u> and the <u>firm capacity price</u>, multiplied by the appropriate factor shown in Table E-5 below. In the event that the <u>current firm capacity price</u> is less than the <u>firm capacity price</u>, no payment under this subsection (ii) shall be due either Party.

TABLE E-5

Amount of Firm Capacity
Terminated or Derated Factor 1,000 kW or under 0.25 1,000 kW through 10,000 kW 0.75 over 10,000 kW through 25,000 kW 1.00 25,000 kW through 50,000 kW 3.00 over over 50,000 kW through 100,000 kW 4.00 over 100,000 kW 5.00

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2		APPENDIX F	
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F-1 INTERCONNECTION TARIFFS

See Rule No. 21--Nonutility-Owned Parallel Generation (attached).

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F-2 POINT OF DELIVERY LOCATION SKETCH

The Seller requests and PGandE consents, that the location sketch not be made at the time of executing the Agreement because the Seller, recognizing that the information is not yet available to make a definitive determination of the sketch to be inserted here, shall request PGandE to perform an interconnection study to be done in its accustomed manner of making such studies to determine the sketch to be inserted.

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F-3 INTERCONNECTION FACILITIES FOR WHICH SELLER IS RESPONSIBLE

The Seller requests and PGandE consents, that this listing of facilities not be filled in at the time of executing the Agreement because the Seller, recognizing that the information is not yet available to make a definitive determination of the listing of the facilities inserted here, shall request PGandE to perform an interconnection study to be done in its accustomed manner of making such studies to determine the listing of facilities to be inserted.

Revised Cal. P.U.C. Sheet No. 8616-E Cancelling Original Cal. P.U.C. Sheet No. 7693-E

RULE NO. 21 -- NONUTILITY-OWNED PARALLEL GENERATION

This describes the minimum operation, metering and interconnection requirements for any generating source or sources paralleled with the Utility's electric system. Such source or sources may include, but are not limited to, hydroelectric generators, wind-turbine generators, steam or gas driven turbine generators and photovoltaic systems.

GENERAL

- The type of interconnection and voltage available at any location and the Utility's specific interconnection requirements shall be determined by inquiry at the Utility's local office.
- The Utility's distribution and transmission lines which are an integral part of its overall system are distinguished by the voltages at which they are operated. Distribution lines are operated at voltages below 60 kv and transmission lines are operated at voltages 60 kv and higher.
- The Power Producer (Producer) shall ascertain and be responsible for compliance with the requirements of all governmental authorities having jurisdiction.
- The Producer shall sign the Utility's written form of power purchase agreement or parallel operation agreement before connecting or operating a generating source in parallel with the Utility's system.
- The Producer shall be fully responsible for the costs of designing, installing, owning, operating and maintaining all interconnection facilities defined in Section B.1.
- The Producer shall submit to the Utility, for the Utility's review and written acceptance, equipment specifications and detailed plans for the installation of all interconnection facilities to be furnished by the Producer prior to their purchase or installation. The Utility's review and written acceptance of the Producer's equipment specifications and detailed plans shall not be construed as confirming or endorsing the Producer's design or as warranting the equipment's safety, durability or reliability. The Utility shall not, by reason of such review or lack of review, be responsible for strength, details of design adequacy, or capacity of equipment built pursuant to such specifications, nor shall the Utility acceptance be deemed an endorsement of any such equipment. endorsement of any such equipment.
- 7. No generating source shall be operated in parallel with the Utility's system until the interconnection facilities have been inspected by the Utility and the Utility has provided written approval to the Producer.
- Only duly authorized employees of the Utility are allowed to connect Producer-installed interconnection facilities to, or disconnect the same from, the Utility's overhead or underground lines.

INTERCONNECTION FACILITIES В.

- CENERAL: Interconnection facilities are all means required, and apparatus installed, to interconnect the Producer's generation with the Utility's system. Where the Producer desires to sell power to the Utility, interconnection facilities are also all means required, and apparatus installed, to enable the Utility to receive power deliveries from the Producer. Interconnection facilities may include, but are not limited to:
 - connection, transformation, switching, metering, communications, control, protective and safety equipment; and
 - any necessary additions to and reinforcements of the Utility's system by the Utility.

METERING 2.

A Producer desiring to sell power to the Utility shall provide, install, own and maintain all facilities necessary to accommodate metering equipment specified by the Utility. Such metering equipment may include meters, telemetering (applicable where deliveries to the Utility exceed 10 MW) and other recording and communications devices as may be required for the reporting of power delivery data to the Utility. Except as provided for in Section 8.2.b following, the Utility shall provide, install, own and maintain all metering equipment as special facilities in accordance with Section F. special facilities in accordance with Section F. (Continued)

1025-E Advice Letter No. Decision No. 83-10-093

Issued By W. M. Gallavan Vice-President Rates and Economic Analysis

RULE NO. 21 -- NONUTILITY-OWNED PARALLEL CENERATION (Cont'd.)

INTERCONNECTION FACILITIES (continued)

MELEKING

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- recorder where applicable. Such metering equipment, its installation and maintenance shall all be in conformance with the Utility's specifications. The Producer may at its option provide, install, own and maintain current and potential transformers rated above 600 volts and a non-revenue type graphic • 9
- separately recorded. The Utility's meters shall be equipped with detents to prevent reverse registration so that power deliveries to and from the Producer's equipment can be
- CONTROL, PROTECTION AND SAFETY EQUIPMENT .ε
- provide for control, protective and safety equipment to:
 (1) sense and properly react to failure and malfunction on the Utility's system; and reliable parallel operation of the Producer's generation. These requirements CENERAL: The Utility has established functional requirements essential for safe

sesist the Utility in maintaining its system integrity and reliability; and protect the safety of the public and the Utility's personnel.

CENERATOR SIZE

Listed below are the various devices and features generally required by the Utility as a prerequisite to parallel operation of the Producer's generation:

CONTROL, PROTECTION AND SAFETY EQUIPMENT CENERAL REQUIREMENTS •q

X X X X X X X X X X X X	X X X X X X X TeuneM	X X X X X Z feuneH	X X X X X Z CenneM	X X - X - - - feunsM	X X - X - feunsH	Dedicated Iransformer Device Interconnection Disconnect Device Cenerator Circuit Breaker Over-voltage Protection Under-Voyer-frequency Protection Cround Fault Protection Cround Fault Protection Over-current gelay wivoltage Restraint Synchronizing
X	X	X	X	X	•	Sammolianal betrothed
1,000 km	1 000 KM	#00 KM	100 KM	40 KM	reez 10 km ou	Device or Feature

.7 noitoed with Section F. the Producer's option and request, the Utility will provide, install, own and in sintent disconnect device on the Utility's system as special facilities in DISCONNECT DEVICE: The Producer shall provide, install, own and maintain the interconnection disconnect device required by Section 8.3.b at a location readily accessible to the Utility. Such device shall normally be located near the Utility is meter or meters for sole operation by the Utility. The interconnection disconnect device and its precise location shall be specified by the Utility. At disconnects only the Utility will provide, install, own and the Producer's option and request, the Utility will provide, install, own and

vecarion requirements are apecified in the ucrity's current operating, metering and adulpment protection publications, as revised from time to time by the Utility will furnish its Producer upon request, For a particular generator application, the Utility will furnish its specific control, protective and safety requirements to the Producer after the exact location specific control, protective and safety requirements to the Producer after the exact location of the generator has been established. Detailed requirements are specified in the Utility's current operating, metering and equipment

Sints is a transformer interconnected with no other Producers and serving no other Utility customers. Although the dedicated transformer is not a requirement for generators rated 10 km or less, its installation is recommended by the Utility.

(Continued) .dnamqiupa noidenotası This is a requirement for synchronous and other types of generators with stand-alone capability, for all such generators, the Utility will also require the installation of "reclose blocking" features on its system to block certain operations of the Utility's automatic line

Resolution No. Effective June 20, 1984 Date Filed May 21, 1984 Rates and Economic Analysis Vice-President W. M. Gellavan YE beuzzi

Decision No. 83-10-093

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Advice Letter No.

	Original	Cal.	P.U.C.	Sheet	No.	8618-E
Cancelling		Cal.	P.U.C.	Sheet	No.	

RULE NO. 21 -- NONUTILITY-OWNED PARALLEL GENERATION (Contid.)

- INTERCONNECTION FACILITIES (continued) В.
 - UTILITY SYSTEM ADDITIONS AND REINFORCEMENTS
 - Except as provided for in Section B.5, all additions to and reinforcements of the Utility's system necessary to interconnect with and receive power deliveries from the Producer's generation will be provided, installed, owned and maintained by the Utility as special facilities in accordance with Section F. Such additions and original sections the section of a section of the section of t and reinforcements may include the installation of a Utility distribution or transmission line extension or the increase of capacity in the Utility's existing distribution or transmission lines. The Utility shall determine whether any such distribution or projections of the stall include the increase of additional constitutions. additions or reinforcements shall include an increment of additional capacity for the Utility's use in furnishing service to its customers. If so, then the costs of providing, installing, owning and maintaining such additional capacity shall be home by the Heilitz and/or its contents. be borne by the Utility and/or its customers in accordance with the Utility's applicable tariffs on file with and authorized by the California Public Utilities Commission (Commission).
 - The Producer shall advance to the Utility its estimated costs of performing a preliminary or detailed engineering study as may be reasonably required to identify any Producer related Utility system additions and reinforcements. Where such preliminary or detailed engineering study involves analysis of the Utility's transmission lines (60 kv and higher), the Utility shall complete its study transmission to the unit of the complete its study within twelve calendar months of receiving all necessary plans and specifications within the products. from the Producer.
 - PRODUCER-INSTALLED UTILITY-OWNED LINE EXTENSIONS: The Producer may at its option provide and install an extension of the Utility's distribution or transmission lines where required to complete the Producer's interconnection with the Utility. Such where required to complete the Producer's interconnection with the Utility. Such extension shall be installed by contractors approved by the Utility and in accordance with its design and specifications. The Producer shall pay the Utility its estimated costs of design, administration and inspection as may be reasonably required to assure such extension is installed in compliance with the Utility's requirements. Upon final such extension and acceptance by the Utility, the Producer shall transfer ownership of the line extension to the Utility where thereafter it shall be owned and maintained as line extension to the Utility where thereafter it shall be owned and maintained as special facilities in accordance with Section F. This provision does not preclude the Producer from installing, owning and maintaining a distribution or transmission line extension as part of its other Producer-owned interconnection facilities.
 - COSTS OF FUTURE UTILITY SYSTEM ALTERATIONS: The Producer shall be responsible for the costs of only those future Utility system alterations which are directly related to the Producer's presence or necessary to maintain the Producer's interconnection in accordance with the Utility's applicable operating, metering and equipment publication in effect when the Producer and the Utility entered into a written form of power purphase agreement. Alterations made at the Producer's expenses shall encodification purchase agreement. Alterations made at the Producer's expense shall specifically exclude increases of existing line capacity necessary to accommodate the other Producers or Utility customers. Such alterations may, however, include relocation or undergrounding of the Utility's distribution or transmission lines as may be ordered by a governmental authority having jurisdiction.
 - ALLOCATION OF THE UTILITY'S EXISTING LINE CAPACITY: For two or more Producers seeking to use an existing line, a first come, first served approach shall be used. The first Producer to request an interconnection shall have the right to use the existing line and shall incur no obligation for costs associated with future line upgrades needed to accommodate other Producers or customers. The Utility's power purchase agreement shall specify the date by which the Producer must begin construction. If that date passes and construction has not commenced, the Producer shall be given 30 days to passes and construction has not commenced, the Producer shall be given 30 days to correct the deficiency after receiving a reminder from the Utility that the construction start-up date has passed. If construction has not commenced after the 30-day corrective period, the Utility shall have the right to withdraw its commitment to the first Producer and offer the right to interconnect on the existing line to the next Producer in order. If two Producers establish the right of first-in-time simultaneously, the two Producers shall share the costs of any additional line ungrade simultaneously, the two Producers shall share the costs of any additional line upgrade necessary to facilitate their cumulative capacity requirements. Costs shall be shared based on the relative proportion of capacity each Producer will add to the line.

(Continued)

Advice Letter No. 1025-E **Decision No.** 83-10-093_

Issued By W. M. Gallavan Vice-President

RULE NO. 21 -- NONUTILITY-OWNED PARALLEL GENERATION (Cont'd.)

ELECTRIC SERVICE FROM THE UTILITY: If the Producer requires regular, supplemental, interruptible or standby service from the Utility, the Producer shall enter into separate contractual arrangements with the Utility in accordance with the Utility's applicable electric tariffs on file with and authorized by the Commission.

OPERATION D.

- PREPARALLEL INSPECTION: In accordance with Section A.7, the Utility will inspect the Producer's interconnection facilities prior to providing it with written authorization to commence parallel operation. Such inspection shall determine whether or not the Producer has installed certain control, protective and safety equipment to the Utility's specifications. Where the Producer's generation has a rated output in excess of 100 km, the Producer shall pay the Utility its estimated costs of performing the inspection.
- JURISDICTION OF THE UTILITY'S SYSTEM DISPATCHER: The Producer's generation while operating in parallel with the Utility's system is at all times under the jurisdiction of the Utility's system dispatcher. The system dispatcher shall normally delegate such control to the Utility's designated switching center.
- COMMUNICATIONS: The Producer shall maintain telephone service from the local telephone company to the location of the Producer's generation. In the event such location is remote or unattended, telephone service shall be provided to the nearest building normally occupied by the Producer's generator operator. The Utility and the Producer shall maintain operating communications through the Utility's designated switching center.
- GENERATOR LOG: The Producer shall at all times keep and maintain a detailed generator operations log. Such log shall include, but not be limited to, information on unit availability, maintenance outages, circuit breaker trip operations requiring manual reset and unusual events. The Utility shall have the right to review the Producer's 4.
- REPORTING ABNORMAL CONDITIONS: The Utility shall advise the Producer of abnormal conditions which the Utility has reason to believe could affect the Utility's operating conditions or procedures. The Producer shall keep the Utility similarly informed.
- POWER FACTOR: The Producer shall furnish reactive power as may be reasonably required 6. by the Utility.
 - The Utility reserves the right to specify that generators with power factor ine utility reserves the right to specify that generators with power factor control capability, including synchronous generators, be capable of operating continuously at any power factor between 95 percent leading (absorbing vars) and 90 percent lagging (producing vars) at any voltage level within ± 5.0 percent of rated voltage. For other types of generators with no inherent power factor control capability, the Utility reserves the right to specify the installation of capacitors by the Producer to correct generator output to near 95 percent leading power factor. The Utility may also require the installation of switched power factor. The Utility may also require the installation of switched capacitors on its system to produce reactive support equivalent to that provided

capacitors on its system to produce reactive support equivalent to that provided by operating a synchronous generator of the same size between 95 percent leading by operating a synchronous generator of the same size between 95 percent leading and 90 percent legging power factor.

Where either the Producer or the Utility determines that it is not practical for the Producer to furnish the Utility's required level of reactive power or when the Producer to furnish the Utility's required level of reactive power or when the Utility specifies switched capacitors in its system pursuant to Section D.6.a, the Utility will provide, install, own and maintain the necessary devices on its system in accordance with Section F.

INTERFERENCE WITH SERVICE AND COMMUNICATION FACILITIES E.

CEMERAL: The Utility reserves the right to refuse to connect to any new equipment or to remain connected to any existing equipment of a size or character that may be detrimental to the Utility's operations or service to its customers.

(Continued)

1025-E Advice Letter No. Decision No. 83-10-093

Issued By W. M. Gallavan Vice-President

e and Economic Analysis

Cancelling original Cal. P.U.C. Sheet No. 8620-E Cancelling original Cal. P.U.C. Sheet No. 7696-E

RULE NO. 21 -- NONUTILITY-OWNED PARALLEL GENERATION (Cont'd.)

- E. INTERFERENCE WITH SERVICE AND COMMUNICATION FACILITIES (continued)
 - 2. The Producer shall not operate equipment that superimposes upon the Utility's system a voltage or current which causes interference with the Utility's operations, service to the Utility's customers or interference to communication facilities. If the Producer causes service interference to others, the Producer must diligently pursue and take corrective action at the Producer's expense after being given notice and reasonable corrective action at the Producer's expense after being given notice and reasonable corrective action at the Producer's equipment causing the interference without restriction or or continues to operate the equipment causing the interference without restriction or limit, the Utility may, without liability, disconnect the Producer's equipment from the Utility's system until a suitable permanent solution provided by the Producer is operational at the Producer's expense.

F. SPECIAL FACILITIES

- Where the Producer requests the Utility to furnish interconnection facilities or where
 it is necessary to make additions to or reinforcements of the Utility's system and the
 Utility agrees to do so, such facilities shall be deemed to be special facilities and
 the costs thereof shall be borne by the Producer, including such continuing ownership
 costs as may be applicable.
- 2. Special facilities are (a) those facilities installed at the Producer's request which the Utility does not normally furnish under its tariff schedules, or (b) a prorata portion of existing facilities requested by the Producer, allocated for the sole use of such Producer, which would not normally be allocated for such sole use. Unless of such Producer, which would not normally be allocated for such sole use. Unless otherwise provided by the Utility's filed tariff schedules, special facilities will be installed, owned and maintained or allocated by the Utility as an accommodation to the Producer only if acceptable for operation by the Utility and the reliability of service to the Utility's customers is not impaired.
- 3. Special Facilities will be furnished under the terms and conditions of the Utility's "Agreement for Installation or Allocation of Special Facilities for Parallel Operation of Nonutility-owned Generation and/or Electrical Standby Service" (Form 79-280, effective June 1984) and its Appendix A, "Detail of Special Facilities Charges" (Form 79-702, effective June 1984). Prior to the Producer signing such an agreement, the Utility shall provide the Producer with a breakdown of special facilities costs in the Utility shall provide the Producer with a breakdown of special facilities costs in a form having detail sufficient for the information to be reasonably understood by the Producer. The special facilities agreement will include, but is not limited to, a binding quotation of charges to the Producer and the following general terms and conditions:
 - a. Where facilities are installed by the Utility for the Producer's use as special facilities, the Producer shall advance to the Utility its estimated installed cost of the special facilities. The amount advanced is subject to the monthly ownership charge applicable to customer-financed special facilities as set forth in Section i of the Utility's Rule No. 2.
 - b. At the Producer's option, and where such Producer's generation is a qualifying facility and the Producer has established credit worthiness to the Utility's satisfaction, the Utility shall finance those special facilities it deems to be removable and reusable equipment. Such equipment shall include, but not be limited to, transformation, disconnection and metering equipment.
 - c. Existing facilities allocated for the Producer's use as special facilities and removable and reusable equipment financed by the Utility in accordance with Section F.3.b are subject to the monthly ownership charge applicable to Utility-financed special facilities as set forth in Section 1 of Rule 2.

(Continued)

Advice t	_etter	No.	1025-E
Decision	No.	83-	10-093

A qualifying facility is one which meets the requirements established by the Federal Energy Regulatory Commission's rules (18 Code of Federal Regulations 292) implementing the Public Utility Regulatory Policies Act of 1978 (16 U.S.C.A. 796, et seq.).

Pacific Gas and Electric Company San Francisco, California

	Original	Cal.	P.U.C.	Sheet	No.	8621-E
Cancelling			P.U.C.			

RULE NO. 21 -- NONUTILITY-OWNED PARALLEL GENERATION (Cont'd.)

- F. SPECIAL FACILITIES (continued)
 - d. Where the Producer elects to install and deed to the Utility an extension of the Utility's distribution or transmission lines for use as special facilities in accordance with Section B.5, the Utility's estimate of the installed cost of such extension shall be subject to the monthly ownership charge applicable to customer-financed special facilities as set forth in Section I of the Rule No. 2.
 - 4. Where payment or collection of continuing monthly ownership charges is not practicable, the Producer shall be required to make an equivalent one-time payment in lieu of such monthly charges.
 - 5. Costs of special facilities borne by the Producer may be subject to downward adjustment when such special facilities are used to furnish permanent service to a customer of the Utility. This adjustment will be based upon the extension allowance or other such customer allowance which the Utility would have utilized under its then applicable tariffs if the special facilities did not otherwise exist. In no event shall such adjustment exceed the original installed cost of that portion of the special facilities used to serve a new customer. An adjustment, where applicable, will consist of a refund applied to the Producer's initial payment for special facilities and/or a corresponding reduction of the ownership charge.
- G. EXCEPTIONAL CASES: Where the application of this rule appears impractical or unjust, the Producer may refer the matter to the Commission for special ruling or for the approval of special conditions.
- H. INCORPORATION INTO POWER PURCHASE ACREEMENTS: Pursuant to Decision No. 83-10-093, if in accordance with Section A.4 the Producer enters into a written form of power purchase agreement with Utility, a copy of the Rule No. 21 in effect on the date of execution will be appended to, and incorporated by reference into, such power purchase agreement. The Rule appended to such power purchase agreement shall then be applicable for the term of the Producer's power purchase agreement with the Utility. Subsequent revisions to this rule shall not be incorporated into the rule appended to such power purchase agreement.

Advice Letter No. 1025-E Decision No. 83-10-093

Issued By
W. M. Gallavan
Vice-President
Rates and Economic Analysis