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9	PACIFIC GAS AND ELECTRIC COMPANY
10	STANDARD OFFER #4
11	POWER PURCHASE AGREEMENT
12	FOR
13	LONG-TERM ENERGY AND CAPACITY
14	
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18	·
19	<u>seller</u> : Mega Renewables, Inc.
20	Project Name: Clover Leaf
21	Size: 200 kW
22	Energy Source: Hydro
2 3	Log No.: 13H020 /3H0/2
24	4

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APRIL 1985

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<u>Article</u>

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STANDARD OFFER #4:

LONG-TERM ENERGY AND CAPACITY

POWER PURCHASE AGREEMENT

CONTENTS

		7
QUALIFYING	STATUS	J
• •	OF PARTIES	4

2	COMMITMENT OF PARTIES	
3	PURCHASE OF POWER	
4	ENERGY PRICE	(

I		
5	CAPACITY ELECTION AND CAPACITY PRICE	1(
_	LOSS ADJUSTMENT FACTORS	1:
0	HODD INDOOR -	

		13
9	NOTICES	
8	REIRONOTIVE THE	12
0	RETROACTIVE APPLICATION OF CPUC ORDERS	12
7	CURTAILMENT	

0	DESIGNATED SWITCHING CENTER	13
. •	TERMS AND CONDITIONS	13
	TERM OF AGREEMENT	14

x ibne	Α:	GENERAL	TERMS	AND	CONDITIONS

Appendix	В:	ENERGY	PAYMENT	OPTIONS
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Appendix	C:	CURTAILMENT	OPTIONS
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Appendix D: AS	-DELIVERED	CAPACITY
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Appendix	E:	FIRM	CAPACITY
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Page

LONG-TERM ENERGY AND CAPACITY POWER PURCHASE AGREEMENT BETWEEN

MEGA RENEWABLES, INC.

AND

PACIFIC GAS AND ELECTRIC COMPANY

MEGA RENEWABLES, INC. ("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

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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 Therefore, the Parties expressly commit to the Agreement. prices fixed in this Agreement for the applicable period of performance and shall not seek to or have a right to As part of its renegotiate such prices for any reason. 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 any reasons whatsoever.

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 12 kV.
- (b) Seller shall provide capacity and energy from its 200 kW Facility located at Clover Creek, Shasta County.
- January 21, 1985. At the end of each calendar quarter Seller shall give written notice to PGandE of any change in the scheduled operation date.
- (d) To avoid exceeding the physical limitations of the <u>interconnection</u> <u>facilities</u>, Seller shall limit the <u>Facility's</u> actual rate of delivery into the PGandE system to 250 kW.
- (e) The primary energy source for the <u>Facility</u> is hydroelectric.

To be determined upon execution of the $\underline{Special}$ $\underline{Facilities}$ Agreement for the $\underline{Facility}$.

	(f) If Seller does not begin construction of its
1	
2	Facility by November 1983, Politice may 194111
3	existing capacity on PGandE's transmission and/or
4	distribution system which would have been used to
5	accommodate Seller's power deliveries to other uses. In the
6	event of such reallocation, Seller shall pay PGandE for the
7	cost of any upgrades or additions to PGandE's system
8	necessary to accommodate the output from the Facility. Such
9	additional facilities shall be installed, owned and
10	maintained in accordance with the applicable PGandE tariff.
11	
12	(g) The transformer loss adjustment factor is $___^1$.
13	
14	ARTICLE 4 ENERGY PRICE
15	2
1 6	
17	under the energy payment option checked below3:
18	
19	X Energy Payment Option 1 - Forecasted Energy Prices
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2	I If Seller chooses to have meters placed on Seller's side of the
2	transformer, an estimated transformer loss day and applied. This
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expense.

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Insert either "net energy output" or "surplus energy output" to show the energy sale option selected by Seller.

Energy Payment Option 2 is not available to oil or gas-fired 3 cogenerators.

paid for energy delivered at prices equal to percent of the prices set forth in Table B-1, Appendix B, plus percent of PGandE's full short-run avoided operating costs.

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For the remaining years of the <u>term of agreement</u>, Seller shall be paid for energy delivered at prices equal to PGandE's <u>full short-run</u> 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 Such conversion must be made at least 90 days costs. prior to the date of initial energy deliveries and must accordance with written notice in made by be Section A-17, Appendix A.

X Energy Payment Option 2 - Levelized Energy Prices

Insert either 0, 20, 40, 60, 80, or 100, at Seller's option. If Seller's <u>Facility</u> is an oil or gas-fired cogeneration facility, either 0 or 20 must be inserted.

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

During the <u>fixed price period</u>, Seller shall be paid for energy delivered at prices equal to _____1 2 percent of the levelized energy prices set forth in 3 Table B-2, Appendix B for the year in which energy 4 deliveries begin and term of agreement, plus 5 percent of PGandE's full short-run avoided operating 6 costs. During the fixed price period, Seller shall be 7 subject to the conditions and terms set forth in 8 Appendix B, Energy Payment Option 2. 9 10 For the remaining years of the term of agreement, 11 Seller shall be paid for energy delivered at prices 12 equal to PGandE's full short-run avoided operating 13 costs. 14 15

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Appendix A.

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 full short-run avoided operating costs. conversion must be made at least 90 days prior to the date of initial energy deliveries and must be made by Section A-17, in accordance with written notice

Insert either 20, 40, 60, 80, or 100, at Seller's option. 1

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

Ш	
$oldsymbol{1} igg igg $	Energy Payment Option 3 - Incremental Energy Rate
2	
3	Beginning with the date of initial energy
4	deliveries and continuing until1, Seller
5	shall be paid monthly for energy delivered at prices
6	equal to PGandE's <u>full</u> short-run avoided operating
7	costs, provided that adjustments shall be made annually
8	to the extent set forth in Appendix B, Energy Payment
9	Option 3.
10	The Incremental Energy Rate Band Widths specified
11	by Seller in Table I below shall be used in determining
12	
13	the annual adjustment, if any.
14	
15	
16	<u>Table I</u>
17	Year Incremental Energy Rate Band Widths (must be multiples of 100 or zero)
18	
19	1984 1985 ————————————————————————————————————
20	1986
	1988
21	1990
22	2 1991 1992 —————
2	3 1993 1994 ———————————————————————————————————
2	1995 ————
2	1996 1997 —————
2	1998
2	to too an enter
2	Specified by Seller. Must be December 31, 1998 or prior.

S.O. #4 May 7, 1984 9

_____, Seller shall be paid for 1 After energy delivered at prices equal to PGandE's full 2 short-run avoided operating costs. 3 4 ARTICLE 5 CAPACITY ELECTION AND CAPACITY PRICE 5 6 Seller may elect to deliver either firm capacity or 7 as-delivered capacity, and Seller's election is indicated 8 below. PGandE's prices for firm capacity and as-delivered 9 capacity are derived from PGandE's full avoided costs as 10 approved by the CPUC. 11 12 Firm capacity - ____ kW for ___ years from the 13 firm capacity availability date with payment determined 14 in accordance with Appendix E. Except for hydro-**1**5 electric facilities, PGandE shall pay Seller for 16 capacity delivered in excess of firm capacity on an 17 in accordance basis capacity as-delivered 18 As-Delivered Capacity Payment Option _____ set forth 19 20 in Appendix D. 21 OR 22 23 As-delivered capacity with payment determined in 24 Х accordance with As-Delivered Capacity Payment Option 2 25 set forth in Appendix D. 26

> S.O. #4 May 7, 1984

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ARTICLE 6 LOSS ADJUSTMENT FACTORS

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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 <u>CPUC</u> 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:

- X Curtailment Option A Hydro Spill and Negative Avoided
 Cost
- Curtailment Option B Adjusted Price Period

The two options are described in Appendix C.

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

1	To Seller: Mega Hydro, Inc. 2576 Hartnell Avenue
2	Redding, CA 96002 (916) 222-1414
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4	ARTICLE 10 DESIGNATED SWITCHING CENTER
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6	The <u>designated PGandE</u> <u>switching center</u> shall be, unless
7	changed by PGandE:
8	Cottonwood Substation Trefoil Lane, Cottonwood (916) 347-3019
10	
11	ARTICLE 11 TERMS AND CONDITIONS
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13	This Agreement includes the following appendices which
14	are attached and incorporated by reference:
15	Appendix A - GENERAL TERMS AND CONDITIONS
16	Appendix B - ENERGY PAYMENT OPTIONS
17	Appendix C - CURTAILMENT OPTIONS
18	Appendix D - AS-DELIVERED CAPACITY
19	Appendix E - FIRM CAPACITY
20	Appendix F - INTERCONNECTION
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ARTICLE 12 TERM OF AGREEMENT

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This Agreement shall be binding upon execution and remain in effect thereafter for 30 years¹ from the date of initial energy deliveries²; provided, however, that it shall terminate if energy deliveries do not start within five years of the execution date.

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.

MEGA RENEWABLES, INC.

RICHARD L. BEAN

TITLE: Director of Engineering

DATE SIGNED: 4-15-85

PACIFIC GAS AND ELECTRIC COMPANY

Ε.

BY:

TITLE: Chief Generation

Planning Engineer

DATE SIGNED:

The minimum contract term is 15 years and the maximum contract term is 30 years.

Insert "<u>firm capacity availability date</u>" if Seller has elected to deliver <u>firm capacity</u> or "date of initial energy deliveries" if Seller has elected to deliver <u>as-delivered capacity</u>.

1 APPENDIX A 2 GENERAL TERMS AND CONDITIONS 3 CONTENTS 4 5 6 Section 7 DEFINITIONS A-1 8 CONSTRUCTION A-2 9 OPERATION A-3 10 PAYMENT A-4ADJUSTMENTS OF PAYMENTS 11 A-5 ACCESS TO RECORDS AND PGandE DATA 12 A-6 INTERRUPTION OF DELIVERIES 13 A-7 FORCE MAJEURE 14 A-8 15 INDEMNITY A-9 LIABILITY; DEDICATION 16 A-10 SEVERAL OBLIGATIONS 17 A-11 NON-WAIVER 18 A-12 ASSIGNMENT 19 A-13 20 CAPTIONS A-14 CHOICE OF LAWS 21 A-15 GOVERNMENTAL JURISDICTION AND 22 A-16 AUTHORIZATION 23 NOTICES A-17 24 INSURANCE A-18 **2**5 26 27

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s.O. #4 May 7, 1984

Page

A-2

A-7

A-11

A-14

A-15

A-15

A-16

A-16

A-18

A-19

A-20

A-20

A-20

A-21

A-21

A-21

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APPENDIX A

GENERAL TERMS AND CONDITIONS

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A-1 DEFINITIONS

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.

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

<u>CPUC</u> - 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

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

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

Facility - That generation apparatus described in Article 3 and all associated equipment owned, 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.

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.

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 of agreement if the term of agreement if years; or the first ten years of 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

published off-peak hours' prices shall be adjusted.

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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 switching, transformation, connection, 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 facilities Interconnection connected. indirectly include any necessary additions and reinforcements by PGandE result of the PGandE system required a 25 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 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.

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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 Facility 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.

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

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

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

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

A-2 CONSTRUCTION

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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, facilities. and remove the special replace, Seller agrees to execute such other grants, deeds, maintain, 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, construction, operation, maintenance, and replacement of PGandE's equipment upon such property. If Seller is unable

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Construction, Ownership, and Maintenance A-2.2 Design,

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(a) Seller shall design, construct, install, own, 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 is solely set forth in Appendix F, responsible interconnection requirements have not yet been determined at is 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.

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Seller shall submit to PGandE the design and all specifications for the interconnection facilities (except (b) special facilities) and, at PGandE's option, the Facility,

for review and written acceptance prior to their release for PGandE shall notify Seller construction purposes. 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 5 the specifications of all and design 6 interconnection facilities (and the Facility, if requested). 7 the in **PGandE** perceived Ъy flaws Any 8 specifications for the interconnection facilities (and the 9 if requested) will be described in PGandE's 10 written notification. PGandE's review and acceptance of the 11 be construed shall not design and specifications 12 confirming or endorsing the design and specifications or as 13 warranting their safety, durability, or reliability. PGandE shall not, by reason of such review or lack of review, be 14 responsible for strength, details of design, adequacy, or 15 16 capacity of equipment built pursuant to such design and 17 specifications, nor shall PGandE's acceptance be deemed to 18 be an endorsement of any of such equipment. Seller shall 19 change the interconnection facilities as may be reasonably 20 required by PGandE to meet changing requirements of the 21 PGandE system. 22

> 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.

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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 <u>special facilities</u> 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.
 - (b) Seller shall provide, construct, install, own, and maintain at Seller's expense all that is required to accommodate the metering and data processing equipment, such as, but not limited to, metal-clad switchgear, switchboards, cubicles, metering panels, enclosures, conduits, rack structures, and equipment 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 primary loss adjustment factor of 2 percent, unless the parties agree otherwise, will be applied.

A-3 OPERATION

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A-3.1 Inspection and Approval

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

A-3.2 Facility Operation and Maintenance

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

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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

- with the <u>designated PGandE</u> <u>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 Facility.
 - (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

in kWh delivered since the last report.

(d) If Seller makes deliveries greater than one and

If Seller makes deliveries of greater than ten

up to and including ten megawatts, Seller shall report to

the designated PGandE switching center, twice a day at

agreed upon times for the current day's operation, the

hourly readings in kW of capacity delivered and the energy

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 designated PGandE switching

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A-3.5 Meter Testing and Inspection

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(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.

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A-13 S.O. #4 May 7, 1984

(b) PGandE shall inspect and test all meters upon their installation and annually thereafter. request and expense, PGandE shall inspect or test a meter PGandE shall give reasonable notice to more frequently. 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 provided that the period covered by the meter. correction shall not exceed six months.

PAYMENT A-4

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PGandE shall mail to Seller not later than 30 days after the end of each monthly billing period (1) a statemen A - 14

ADJUSTMENTS OF PAYMENTS A-5

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

ACCESS TO RECORDS AND PGandE DATA A-6

Each Party, after giving reasonable written notice to the other Party, shall have the right of access to all A-15

metering and related records including operations logs of the Facility. Data filed by PGandE with the CPUC pursuant orders governing the purchase of power 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.

INTERRUPTION OF DELIVERIES A-7

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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 this section in order to take advantage, make 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.

FORCE MAJEURE A-8

The term force majeure as used herein means unforeseeable causes, other than forced outages, beyond the s.o. #4

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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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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,

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(2) the suspension of performance is of no greater scope and of no longer duration than is required by the force majeure,

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(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 in the sole judgment of the Party terms which,

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dispute, are contrary to its the involved in

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is understood and agreed that the settlement of strikes, walkouts, lockouts or other It interest.

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s.o. #4

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.

INDEMNITY A-9

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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 operation of, or (2) the making of replacements, additions, to, the indemnitor's facilities. This or betterments apply provision shall harmless save and indemnity notwithstanding the active or passive negligence of the s.o. #4 A-18

May 7, 1984

LIABILITY; DEDICATION A-10

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- 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, faulty operation, or nonoperation of the other Party's facilities, and such other Party shall not be liable for any such damages so caused.
 - (c) No undertaking by one Party to the other under any provision of this Agreement shall constitute the dedication of that Party's system or any portion thereof to the other Party or to the public or affect the status of an independent public utility corporation or an independent individual or entity and not a as PGandE A-19

s.O. #4 May 7, 1984

public utility.

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SEVERAL OBLIGATIONS A-11

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.

NON-WAIVER A-12

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.

ASSIGNMENT A-13

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 sale or merger of a substantial portion of its properties. Any such

A-20

May 7, 1984

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

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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

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 INSURANCE

A-18.1 General Liability Coverage

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(a) Seller shall maintain during the performance hereof, General Liability Insurance of not less than \$1,000,000 if the Facility is over 100 kW, \$500,000 if the Facility is over 20 kW to 100 kW, and \$100,000 if the Facility is 20 kW or below of combined single limit or equivalent for bodily injury, personal injury, and property damage as the result of any one occurrence.

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

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the endorsement to by insurance, (c) Such policy(ies), shall include PGandE as an additional insured if the Facility 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 liability to the insurance carrier for payment of premium for such insurance, and shall provide for 30-days' written to cancellation, termination, PGandE prior notice to alteration, or material change of such insurance.

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A-18.2 Additional Insurance Provisions

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(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.

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(b) PGandE shall have the right to inspect or obtain a copy of the original policy(ies) of insurance.

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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> price period 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.

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s.O. #4 May 7, 1984

TABLE B-1
Forecasted Energy Price Schedule

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11		FOLECAS					
Year of Energy Deliv- eries	On-Peak		off-Peak	On-Peak	*, ¢/kWh Period B Partial-Peak 5.31	5.19	Weighted Annual Average 5.18 5.47
7 1983	5.36 5.66	5.12 5.40	4.94 5.22 5.30	5.44 5.74 5.83	5.61 5.69	5.48 5.56	5.55
8 1985 9 1986	5.75 5.99	5.48 5.72 6.08	5.52 5.88	6.08 6.47	5.94 6.32 6.87	5.80 6.17 6.71	5.79 6.16 6.70
1988	6.38 6.94 7.60	6.62 7.25	6.39 7.00 7.48	7.03 7.70 8.23	7.53 8.04	7.35 7.85 8.35	7.34 7.84 8.34
11 1989 1990 12 1991	8.12 8.64	7.74 8.24	7.96	8.75 9.46	9.24	9.02 9.76	9.01 9.75
13 1992 1993	9.33 10.10 10.91	8.90 9.63 10.41	8.60 9.30 10.06	10.23 11.06	10.00 10.81	10.55	10.54
14 1994 15 1995 1996	11.79	11.25 12.09	10.87 11.68 12.54	12.85	12.50	12.25 13.15	12.24
16 1997	63	12.98	26.57	-			

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 2 for Seller's energy deliveries during the fixed price period 3 shall include the appropriate prices set forth in Table B-2 4 for the year in which energy deliveries begin and term of 5 agreement, multiplied by the percentage Seller has specified 6 in Article 4. If Seller has selected Curtailment Option B 7 in Article 7, the levelized off-peak hours' energy prices 8 listed in Table B-2 shall be adjusted upward by 7.7% for 9 Period A and 9.6% for Period B. The discount specified in 10 (c)(vi) below, if applicable, will be applied to the energy

payments during the fixed price period.

During the fixed price period, 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 In the event PGandE does not fixed price period. reason performance by full such receive termination, Seller shall pay PGandE an amount based on the difference between the net present values, at the

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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> period.

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

(b) Performance Requirements

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Seller shall operate and maintain the Facility 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 3 request payment from Seller or immediately draw on the 4 security posted, up to the amount equal to 5 P x $\frac{A-B}{A}$, where: 6 7 8

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

B = 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 Facility's output during the last part of the fixed price period falls below 70% of the average annual energy generation during the first part of the fixed price period 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 Facility, if such energy resource is wind, water, or sunlight.

security (c)

As security for amounts which Seller may be (1)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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May 7, 1984

- (i) An irrevocable bank letter of credit 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 by Seller. Such bond shall be issued by a 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.
 - (iv) A performance 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 by Seller. Such bond shall be issued by a surety company acceptable to PGandE and shall have terms acceptable to PGandE.
 - (v) A corporate guarantee of payment to PGandE which PGandE deems, in its sole discretion,

B-7 S.O. #4 May 7, 1984

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

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(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 a corporate example, include, for guarantee or a lien, mortgage or deed of trust on the Facility 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 fixed price period if this type of security is provided.

(i) Commencing 90 days prior to the scheduled until continuing (2) and date December 1 of the following calendar year, operation 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 end of the following energy through the then terminated thi and year calendar Agreement. For purposes of determining th

B-8 S.O. #4 May 7, 1984

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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 <u>scheduled</u>
 <u>operation date</u> through the end of
 the following calendar year.
- 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 the following calendar year, at a level equal to the average monthly energy deliveries to date, and then terminated this Agreement.

price 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 the amount upon the security posted, to $\mathbf{u}\mathbf{p}$ 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 draw upon the and PGandE elects to 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.

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Upon the written request of either Party, Parties (5) the between dispute OI controversy concerning Section (c)(4) above shall be subject to arbitration in accordance with the provisions Sections California Arbitration Act, 1280-1294.2 of the California Code of civil Procedure except as provided otherwise in this Either Party may demand arbitration by section. first giving written notice of the existence of a dispute and then within 30 days of such notice 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 After both the dispute. and determine arbitrators have been appointed, they shall within five (5) days select a third arbitrator.

arbitration hearing shall take place 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 B-11

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.

The decision of any two arbitrators shall binding and conclusive as to disputes relating to Section (c)(4) only. Upon determining the matter, arbitrators shall promptly execute acknowledge their decision and deliver a copy to each Party. A judgment confirming the award may having court superior any by rendered Each Party shall bear its own jurisdiction. 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.

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TABLE B-2

,				TABLE	B-2 rice Sche	dule		
1			Levelized F	energy r	ITCE Device]
2		~ of acreen	ent of 15-16	years:				Ì
	For a tell	n Di agreen						1
3	Year in							
4	Which						•	Weighted
7	Energy		Levelized	Energy	Prices*,	¢/kWh		Annual
5	Deliv-		Period A			Period B	Off-Peak	Average_
	eries Begin_	On-Peak Pa	rtial-Peak O	ff-Peak	On-Peak	Partial-Peak		
6	<u> </u>			5.31	5.85	5.71	5.58	5.57
7	1983	5.76	5.50	5.58	6.14	6.00	5.86	5.85 6.19
•	1984	6.06	5.78 6.11	5.91	6.50	6.35	6.20	6.19
8	1985	6.41	6.11	•••			6.63	6.62
_	3006	6.85	6.54	6.32	6.95	6.79 7.30	7.13	7.12
9	1986	7.37	7.03	6.79	7.47	7.89	7.70	7.69
	1000	7.96	7.60	7.34	8.07	7.09	•	
10	111 -			10 ***				
11	For a te	rm of agree	ement of 17-	12 Acuts				
1 1								
12	Year in							
	Which				.	- # / ሁ ህ ከ		Weighted
13	B Energy Deliv-		Levelize	d Energ	y Prices*	Period B		Annual
_	11		Period A	OSS Don	k On-Peak	Partial-Pea	k Off-Peak	Average
1	Begin	On-Peak P	artial-Peak	<u>UII-Fea</u>	<u>N</u> 011 1 0 1			5.70
1	11 —		5.63	5.44	5.98	5.84	5.71 6.03	6.02
	1790	5.90	5.95	5.74	6.32	6.18	6.38	6.37
1	6 1984	6.23 6.60	6.30	6.08	6.69	6.53	0.50	• • •
	1905	6.00	• • • • • • • • • • • • • • • • • • • •		- 11	7.00	6.83	6.82
1	7 1986	7.06	6.73	6.51	7.16		7.35	7.34
_	1007	7.60	7.25	7.00	7.70 8.32		7.94	7.93
1	1988	8.21	7.83	7.57	0.52			
•	P 3	•		-30 vea	rs:			
	For a 1	term of agr	eement of 20	, 55 }				
2	20 Year in	n						
	21 Which							Weighted
•	Energy		Teveli:	zed Ener	gy Price	s*, ¢/kWh Period B		Annual
	22 Deliv-		Period A			Period B	ak Off-Pe	ak Average
	eries	On-Peak	Partial-Pea	k Off-Pe	ak On-Pe	Period B ak Partial-Pe		
	23 Begin						6.20	0.21
	1983	6.49	6.20	5.98 6.3			6.67	
	24 1984	6.90	6.58	6.7		_	7.10	7.09
	25 1985	7.34	7.00	0.7	- , , -		2 (2	7.61
	11	7 88	7.51	7.2	6 7.9	7.81	7.62 8.21	- 00
	1 1006	, 55	, ,			· 1 M (3.1	∵.	

Which Energy Deliv-			ed Energy	Prices*,	¢/kWh Period B		Weight Annua
eries	- Post	Period A Partial-Peak	Off-Peak	On-Peak		Off-Peak	Averag
Begin	6.49	6.20	5. 9 8	6.58	6.43 6.83	6.28 6.67	6.27 6.66
1983 1984 1985	6.90 7.34	6.58 7.00	6.35 6.76	6.99 7.44	7.27	7.10	7.09
	7.88	7.51	7.26 7.82	7.99 8.61	7.81 8.41	7.62 8.21	7,63 8,29 8,8
1986 1987 1988	8.49 9.16	8.10 8.74	8.44	9.29	9.08 time perio	8.86	

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

B-13

S.O. #4 S.O. #4 May 7, 1984

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 1 the curtailment option selected by Seller, no additional 2 3 payment is due either Party. 4 If the DIER is below the lower Incremental Energy Rate 5 Bound, PGandE shall pay Seller an amount calculated as 6 follows: 8 (Lower Incremental - DIER)(A)(C) Energy Rate Bound 9 10 11 where: additional payment due Seller. 12 Derived Incremental Energy Rate. DIER = 13 14 PGandE shall add this payment to the first payment made to 15 Seller following the calculation. 16 17 If the DIER is above the upper Incremental Energy Rate 18 Bound, Seller shall pay PGandE an amount calculated as 19 20 follows: 21 (DIER - Upper Incremental)(A)(C) Energy Rate Bound 22 23 where: 24 amount due PGandE. Derived Incremental Energy Rate. **2**5 DIER = 26 27

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.

Curtailment Option A:

6 7 8 9	<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)]
10		2 200			
11	1984 1985	9,0 00 9,0 50			
12	1986	8,840			
13	1987 1988	8,8 50 8,9 60			
14	1989	8,820			
15	1990 1991	8,540 8,540			
16	1992	8,540			
17	1992	8,540 8,540			
18	11	8,540			
19	1996	8,540			
	1 7321	8,540		 _	
20	1998	8,540			•
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s.o. #4 May 7, 1984

TABLE B-3 (continued)

Curtailment	Option	B :
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- 11	00				
4 5 6 7		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)]
8	Year	(a)			·
9 10	1984 1985	9,44 0 9,5 00			
11	1986 1987	9,280 9,290 9,400			
13	1989	9,270 8,970 8,970			
1	5 1992 1993	8,970 8,970			
1	7 1995 1996	8,970 8,970			
	18 1997 19 1998				
,	20				

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s.O. #4 May 7, 1984

1		TABLE B-4 ¹ Time Periods			
3		Monday through Friday ²	Saturdays ²	Sundays and Holidays	
5	Seasonal Period A (May 1 through September 30)			,	
ال		12:30 p.m.			
6∭	On-Peak	to 6:30 p.m.			
7		6:20 h.m.			
1	a neek	8:30 a.m.	8:30 a.m. to	•	
8	Partial-Peak	to	10:30 p.m.		
		12:30 p.m. 6:30 p.m.		•	
9		to			-
10		10:30 P.m.			
11		10:30 p.m.	10:30 p.m.	All Day	
11	Off-Peak	10:30 p.z	to		
12	-	8:30 a.m.	8:30 a.m.		
•					
13					
14	Seasonal Period B (October 1 through April 3	0)			
15		4:30 p.m.			
•	On-Peak	to			
16		8:30 p.m.			
		8:30 p.m.	8:30 a.m.		
17	Partial-Peak	to	to 10:30 p.m.		
18		10:30 p.m.	10:50 Pian		
1		8:30 a.m. to	•		
19		4:30 p.m.			
2 0			10:30 p.m.	All Day	
20		10:30 p.m.	to		
21	Off-Peak	to 8:30 a.m.	0 20 a m		
•••		8:30 E.m.	•		
2 2			s with the	on-peak,	
23	1 This table is subject partial-peak, and control for the	ct to change to	accord with the	GandE's own rate	:
	1 This table is subject to the partial-peak, and control to the pa	off-peak periods	ity to its large	industrial	
24	schedules 10.				
2	_ {} customers.			1 de etable	
	11	ng holidays: Ne	oce Day, Labor Da	y, Veteran's Da	у,
2	Oli pirthday, Memora	Talled the Di	AV. ES SPECTO	in Public	
_	HEADENIVING DOLL	c & Section 61	03(a)).		
2	Law 90-363 (5 U.S.	C.A. Double			
2	28		s O. #	4	
•		B-19	May 7	1984	
	11				

TABLE B-5

ENERGY PRICES

Energy Prices Effective May 1 - July 31, 1985

The energy purchase price calculations which will apply to energy deliveries determined from meter readings taken during May, June, and July 1985 are as follows:

meter readings taken	during May, June, (a)	(b)	(c) Revenue Requirement	(d) Energy Purchase Price ⁴
Time Period	Incremental Energy Rate ¹ (Btu/kWh)	Cost of Energy ² (\$/10 ⁶ Btu)	for Cash Working Capital ³ (\$/kWh)	$(d) = [(a) \times (b)] + (c)$ (\$/kWh)
May 1 - July 31 (Period A)				
Time of Delivery Basis: On-Peak	12,168	5.2445 5.2445	0.00041 0.00038	0.06423 0.06000 0.04978
Partial-Peak Off-Peak	11,369 9,429	5.2445	0.00033 0.00036	0.05551
Seasonal Average (Period A)	10,515	5.2445		riod B are derived from

Incremental energy rates (Btu/kWh) for Seasonal Period A and Seasonal Period B 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. The incremental energy rates in column (a) include the Helms Pumped Storage Facility and Diablo Canyon Unit 1. If Diablo Canyon Unit 1 does not become commercially operative May 1, the incremental energy rates in column (a) will not apply and instead the incremental energy rates, and the resulting energy prices, shown in this footnote will apply until Diablo Canyon Unit 1 is commercially operative.

remental Energy Rate (Btu/kWh)	Energy Purchase Price (\$/kWh)
14,086 13,382 10,499	0.07428 0.07056 0.05539
12,031	0.06346
	14,086 13,382 10,499

- 2 Cost of natural gas under PGandE Gas Schedule No. G-55 effective May 1, 1985.
- 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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Energy L	oss Adjustment	Factors	
~	Transmission	Primary Distribution	Secondary Distribution
Seasonal Period A (May 1 through September 30) On-Peak Partial-Peak Off-Peak	1.0	1.0	1.0148
	1.0	1.0	1.0131
	1.0	1.0	1.0093
Seasonal Period B (October 1 through April 30) On-Peak Partial-Peak Off-Peak	1.0	1.0	1.0128
	1.0	1.0	1.0119
	1.0	1.0	1.0087

6 The applicable energy loss adjustment factors may be revised pursuant to orders of the CPUC.

s.O. #4 May 7, 1984 B-21

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APPENDIX C

CURTAILMENT OPTIONS

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 CPUC, 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:

$$\frac{AQF - S}{AQF} \times PP$$

where:

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

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- 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:
 - (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;

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

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

- Seller give shall PGandE possible, (b) Whenever any price adjustment for energy reasonable notice οf deliveries and its probable duration.
- 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 C-4

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. 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 condition. 3

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APPENDIX D

AS-DELIVERED CAPACITY

D-1 AS-DELIVERED CAPACITY PAYMENT OPTIONS

Seller has two options for <u>as-delivered capacity</u> 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 <u>as-delivered capacity</u> at prices authorized from time to time by the <u>CPUC</u>. The <u>as-delivered capacity</u> prices in effect on the date of execution are calculated as shown in Exhibit D-1.

AS-DELIVERED CAPACITY PAYMENT OPTION (2)

During the <u>fixed price period</u>, the <u>as-delivered</u> 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

D-1

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higher of: 1 prices authorized from time to time by the 2 (i) 3 CPUC; 4 the <u>as-delivered</u> capacity prices that were 5 paid Seller in the last year of the fixed (ii) 6 7 price period; or 8 the as-delivered capacity prices in effect in 9 the first year following the end of the fixed (iii) 10 price period, provided that the annualized 11 shortage cost from which these prices are 12 derived does not exceed the annualized value 13 14 of a gas turbine. 15 D-2 AS-DELIVERED CAPACITY IN EXCESS OF FIRM CAPACITY 16 17 The amount of capacity delivered in excess of firm 18 capacity will be considered as-delivered capacity. 19 as-delivered capacity is based on the total kilowatt-hours 20 delivered each month during all on-peak, partial-peak and 21 associated with 22 hours excluding any energy generation levels equal to or less than the firm capacity. off-peak 23 24 Seller has the two options listed in Section D-1 for 25 payment for such as-delivered capacity. Seller has made its 26 27 selection in Article 5.

EXHIBIT D-1

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The as-delivered capacity 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 \$60 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.

As defined by the CPUC.

TABLE D-1(a)

Capacity Loss Adjustment Factors for Non-Remote¹ Facilities

	Voltage Level	Loss Adjustment Factor
	Transmission	.9 89
	Primary Distribution	.991
,	Secondary Distribution	.991

If the Facility is remote, the capacity loss adjustment .. factor is ____

TABLE D-1(b)

Allocation Factors for As-Delivered Capacity3

	On-Peak (¢-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 CPUC. The capacity loss adjustment factors for remote Facilities are determined individually.

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

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

To be determined upon completion of the detailed interconnection study for the Facility.

Determined individually.

The units for the allocation factor, f-yr/\$-hr, are derived from the conversion of \$/kW-yr into \$/kWh as follows:

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	TABLE D-2	
3	Forecasted Si	hortage Cost Schedule
5	•••	Forecast Shortage Cost, \$/kW-Yr
6	Year	70
	1983	76
7	1984	81
8	1985	88
	1986	95
9	1987	102
10	1988	
10	1989	110
11	1990	118 126
	1991	120
12		135
••	1992	144
13	1993	154
14	1994	164
11	1995	176
15	1996	188
	1997	
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APPENDIX E 2 FIRM CAPACITY 3 CONTENTS 4 5 Section 6 GENERAL 7 E-1 PERFORMANCE REQUIREMENTS E-28 SCHEDULED MAINTENANCE E-3 9 ADJUSTMENTS TO FIRM CAPACITY E-4 10 FIRM CAPACITY PAYMENTS E-5 11 DETERMINATION OF NATURAL FLOW DATA 12 E-6 THEORETICAL OPERATION STUDY E-7 13 DETERMINATION OF AVERAGE DRY YEAR CAPACITY RATINGS E-8 14 INFORMATION REQUIREMENTS 15 E-9 ILLUSTRATIVE EXAMPLE 16 E-10 17 MINIMUM DAMAGES E-11 18 19 **2**0 21 22 23 24 25 26

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Page

E-2

E-2

E-4

E-5

E-6

E-12

E-13

E-15

E-15

E-16

E-19

APPENDIX E

FIRM CAPACITY

E-1 GENERAL

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

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

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

E-2 PERFORMANCE REQUIREMENTS

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 percent allowance for forced outages in 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. E-2 S.O. #4
May 7, 1984

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- (b) If 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) If 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 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) If 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 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.

- firm reduced the receive shall Seller capacity payments as provided in Section E-5 for a probationary period not to exceed 15 months, or otherwise agreed to by the Parties.
- If, at the end of the probationary period Seller has not demonstrated that the Facility can meet the performance requirements, PGandE may derate the firm capacity pursuant to Section E-4(b).

SCHEDULED MAINTENANCE E-3

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Outage periods for scheduled maintenance shall not exceed 840 hours (35 days) in any 12-month period. allowance may be used in increments of an hour or longer on nonconsecutive basis. accumulate unused maintenance hours from one 12-month period OI to another up to a maximum of 1,080 hours (45 days). accrued time must be used consecutively and only for major Seller shall provide PGandE with the following advance notices: 24 hours for scheduled outages less than overhauls. one day, one week for a scheduled outage of one day or more (except for major overhauls), and six months for a major Seller shall not schedule major overhauls during overhaul. the peak months (presently June, July and August). shall make reasonable efforts to schedule or reschedule s.o. #4 E-4

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 firm capacity at any time prior to the firm capacity availability date by giving written notice thereof to PGandE. PGandE may derate the firm capacity 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.

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E-5 FIRM CAPACITY PAYMENTS

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The method for calculation of <u>firm 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	×	Firm 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.

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:

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= Total kilowatt-hours delivered during all on-peak energy and partial-peak hours excluding any 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 Facility 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 Facility is out of service on scheduled maintenance.

= The number of hours in the month.

S.O. #4 May 7, 1984 E-7

^{0.8} reflects a 20% allowance for forced outage. 27

The monthly payment for firm capacity 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 firm capacity = PPF x MDC x adjustment factor 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</u> <u>capacity</u> shall be <u>determined</u> by substituting for the <u>firm</u> <u>capacity</u>, the <u>capacity</u> at which

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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 payment for firm capacity shall be determined by 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 <u>Facility</u> is non-remote¹ the <u>firm capacity</u> loss adjustment factors are as follows:

a1	Loss Adjustment Factor
Voltage Level	.9 89
Transmission	.991
Primary Distribution Secondary Distribution	.991

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

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¹ As defined by the CPUC.

² Determined individually.

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%.

DEMONSTRATED FIRM CAPACITY FACTOR (%)	PERFORMANCE BONUS FACTOR
85 90 95	1.000 1.059 1.118 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:

= 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>.

E-11 S.O. #4 May 7, 1984

1 2	<pre>N = Total on-peak hours during the month. W = Total on-peak hours during the peak month that the</pre>
3	Facility is out of service on maintenance.
5	Q = Firm capacity in kilowatts.
7	(ii) the arithmetic average of the above firm capacity factors shall be determined for that span,
9	of the above arithmetic average firm
10 11 12	capacity factors for the most recent span(s), not to exceed 5, shall be calculated and shall become the Demonstrated
13	Firm Capacity Factor.
15	To calculate did P Demonstrated Firm Capacity Factor not shown in Table E-3 use the following formula:
16 17 18	Performance Bonus Factor = Demonstrated Firm Capacity Factor (%) 85%
19 2 0	
21 22	SECTIONS E-6 THROUGH E-10 SHALL APPLY ONLY TO HYDROELECTRIC
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24 25	A THE TOTAL OF NATURAL FLOW DATA
2:	il he based on a person
_	Natural flow data shall be be not

E-12

S.O. #4 May 7, 1984

In the event Seller demonstrates that a natural flow data base of at least 50 years would be dry periods. unreasonably burdensome, PGandE shall accept a shorter period of record with a corresponding reduction in the averaging basis set forth in Section E-8. determine the natural flow data by month by using one of the following methods:

Method 1

If stream flow records are available from a recognized gauging station on the water course being developed in the general vicinity of the project, Seller may use the data from them directly.

Method 2

If directly applicable flow records are not available, based on Seller may develop theoretical natural flows for the closest correlation with available flow data adjacent and similar area which has a recognized gauging station using generally accepted hydrologic estimating methods.

THEORETICAL OPERATION STUDY E-7

Based on the monthly natural flow data developed under Section E-6 a theoretical operation study shall be prepared May 7, 1984

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by Seller. Such a study shall identify the monthly capacity rating in kW and the monthly energy production in kWh for each month of each year. The study shall take into account all relevant operating constraints, limitations, and requirements including but not limited to --

- (1) Release requirements for support of fish life and any other operating constraints imposed on the project;
- (2) Operating characteristics of the proposed equipment of the <u>Facility</u> such as efficiencies, minimum and maximum operating levels, project control procedures, etc.;
- (3) The design characteristics of project facilities such as head losses in penstocks, valves, tailwater elevation levels, etc.; and
- (4) Release requirements for purposes other than power generation such as irrigation, domestic water supply, etc.

The theoretical operation study for each month shall assume an even distribution of generation throughout the month unless Seller can demonstrate that the Facility has water storage characteristics. For the study to show monthly capacity ratings, the Facility shall be capable of operating during all on-peak hours in the peak months on the PGandE system, which are presently the months of June, July, and August. If the project does not have this capability throughout each such month, the capacity rating in that month of that year shall be set at zero for purposes of this theoretical operation study.

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Based on the results of the theoretical operation study developed under Section E-7, the average dry year capacity rating shall be established for each month. The average dry year shall be based on the average of the five years of the shown in the theoretical generation as lowest annual lowest annual of years Once such generation are identified, the monthly capacity rating is operation determined for each month by averaging the capacity ratings from each month of those years. The firm capacity shown in Article 5 shall not exceed the lowest average dry year monthly capacity ratings for the peak months on the PGandE system, which are presently the months of June, July, and August.

INFORMATION REQUIREMENTS E-9

provide the following information Seller shall

- PGandE for its review: (1) A summary of the average dry year capacity ratings based on the theoretical operation study as provided in Table E-4;
 - (2) A topographic project map which shows the location of all aspects of the Facility and locations of stream gauging stations used to determine natural flow data;
 - A discussion of all major factors relevant to project operation;

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- (4) A discussion of the methods and procedures used to establish the natural flow data. This discussion shall be in sufficient detail for PGandE to determine that the methods are consistent with those outlined in Section E-6 and are consistent with generally accepted engineering practices; and
 - (5) Upon specific written request by PGandE, Seller's theoretical operation study.

E-10 ILLUSTRATIVE EXAMPLE

- flows These flows natural (1) Determine developed based on historic stream gauging records and are compiled by month, for a long-term period (normally at least periods which which covers dry more) historically occurred in the 1920's and 30's and more recently in 1976 and 77. In all but unusual situations this will require application of hydrological engineering methods to records that are available, primarily from the USGS publication "Water Resources Data for California".
 - (2) Perform theoretical operation study Using the natural flow data compiled under (1) above a theoretical operation study is prepared which determines, for each month of each year, energy generation (kWh) and capacity rating This study is performed based on the Facility's and operating capabilities, constraints, (kW). should take into account all factors relevant to project design, s.o. #4

operation. Generally such a study is done by computer which routes the natural flows through project features, considering additions and withdrawals from storage, spill past the project, releases for support of fish life, etc., to determine flow available for generation. Then the generation and capacity amounts are computed based on equipment performance, efficiencies, etc.

After the theoretical project operation study is complete the five years in which the annual generation (kWh) would have been the lowest are identified. Then for each month, the capacity rating (kW) is averaged for the five years to arrive at a monthly average capacity rating. The firm capacity is then set by the Seller based on the monthly average dry year capacity ratings and the performance requirements of this appendix. An example project is shown in the attached completed Table E-4.

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Project: New Creek 1

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Water Source: West Fork New Creek

Mode of Operation: Run of the river

Type of Turbine: Francis Design Flow: 100 cfs Design Head: 150 feet

Operating Characteristics1:

	Flow (cfs)	Head (Reet) Net	Output (kW)	Effici Turbine	Generator
Normal Operation	100	160	150	1,120	90	98
Maximum Operation	110	160	148	1,150	85	98
Minimum Operation	30	160	155	290	7 5	98

Average Dry Year Operation - Based on the average of the following lowest generation years: 1930, 1932, 1934, 1949, 1977.

ae a.h	Energy Generation (kWh)	Capacity Output (kW)	Percent of Total Hours Operated
Month January February March April May June July August September October November December	855,000 753,000 818,000 727,000 699,000 612,000 484,000 305,000 245,000 148,800 468,000 595,000	1,150 1,120 1,100 1,010 940 850 650 410 340 200 650 800	100 100 100 100 100 100 100 100 100

Maximum firm capacity: 410 kW

¹ If Facility has a variable head, operating curves should be provided.

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(a) In the event the <u>firm capacity</u> is derated or Seller terminates this Agreement, the quantity by which the <u>firm capacity</u> is derated or the <u>firm capacity</u> shall be used to calculate the payments due PGandE in accordance with Section (d).

- (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:

(i) an amount equal to the difference 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 term equal to the balance of the term of agreement and the firm capacity price, multiplied by the appropriate factor shown in Table E-5 below. In the event that the current firm capacity price is less than the firm capacity price, 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
over 1,000 kW through 10,000 kW	0.75
over 10,000 kW through 25,000 kW	1.00
over 25,000 kW through 50,000 kW	3.00
over 50,000 kW through 100,000 kW	4.00
over 100,000 kW	5.00

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1		APPENDIX F	
2		INTERCONNECTION	
3			
4		CONTENTS	
5			Page
6	Section	INTERCONNECTION TARIFFS	F-2
7	F-1	POINT OF DELIVERY LOCATION SKETCH	F-3
8	F-2		F-4
9	F-3	SELLER IS RESPONSIBLE	-
10			
11			
12			
13			
14			
15			
16			
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2 0			
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2 2	•		
. 23	3		
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2	6		
2	27	•	
•	28	F-1). #4 , 7. 1984

F-1 INTERCONNECTION TARIFFS

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(The applicable tariffs in effect at the time of execution of this Agreement shall be attached.)

s.O. #4 May 7, 1984

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BULE NO. 21 -- MONUTILITY-DINED PARALLEL CENERATION

This describes the minimum operation, matering 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.

CENERAL

- The type of interconnection and voltage evallable at any lecation and the Utility's apecific 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 everall 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 ky 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 perallel 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, dwning, 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 werranting the equipment's safety, durability or reliability. The Utility shall not, by resson of such review or lack of review, be responsible for strength, details of design adequacy, or deparity of equipment built pursuant to such specifications, nor shall the Utility acceptance be desced an endorsement of any such acuisment. endorsement of any such equipment.
- 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 allewed to connect Producer-installed interconnection facilities to, or disconnect the same from, the Mtility's everhead or underground lines.

INTERCOMECTION FACILITIES 8.

- GENERAL: 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 (astalled, to enable the Utility to receive power deliveries from the Producer. Interconnection facilities may include, but are not limited to:
 - connection, transformation, switching, matering, communications, control,
 - protective and sefety equipment; and environments of the Utility's system by the Utility. b.

A Producer desiring to sell power to the Utility shall provide, install, own and seintain all facilities necessary to accommodate matering equipment specified by the Utility. Such matering equipment may include maters, telemetering (applicable where deliveries to the Utility exceed 10 MM) and other recording and communications devices as may be required for the reporting of gover delivery data to the Utility. Except as provided for in Section 8.2.5 following, the Utility shall provide, install, own and maintain all matering equipment as special facilities in accordance with Section F. (Continu METERING 2. (1) (Continued)

1023-E Advice Letter No. Decision No. 83-10-093

Resued By W. M. Gallavan Vice-President Rates and Economic Analysis Date Filed MAY 2 1 1984 Effective Jun 2 U 854 Resolution No.

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		سيسو	BULE NO. 21 NONUTILITY-INNED PARALLEL GENERATION (Cont'd.)	(T)
₿.	\$167	ERCON	NECTION FACILITIES (continued)	
	2.	MET	ERINC	€N)
		b.	The Producer may at its aption provide, install, own and maintain current and potential transformers rated above 600 volts and a mon-revenue type graphic recorder where applicable. Such matering equipment, its installation and maintenance shall all be in conformance with the Utility's apocifications.	(n)

- The Utility's meters shall be equipped with detents to prevent reverse registration so that power deliveries to end from the Producer's equipment can be separately recorded.
- CONTROL, PROTECTION AND SAFETY EQUIPMENT
 - GENERAL: The Utility has established functional requirements easential for safe and reliable parallel operation of the Producer's generation. These requirements provide for control, protective and safety equipment to:
 (1) sense and properly react to feilure and malfunction on the Utility's system;
 (2) assist the Utility in maintaining its system integrity and reliability; and
 (3) protect the safety of the public and the Utility's personnel.
 - Listed below are the various devices and features generally required by the Utility as a prerequisite to perallel operation of the Producer's generation:

CONTROL, PROTECTION AND SAFETY EQUIPMENT GENERAL REQUIREMENTS GENERATOR SIZE ID am or 11 km to 40 km 100 km 400 km 1,000 km 1,000 km Less Device or Feature Dedicated Transformer² I × Interconnection Disconnect Bevice X X Concretor Circuit Breaker X Over-voltage Protection Under-voltage Protection Under/Over-frequency Protection X Ground Fault Protection 1 X Over-current galay m/Veltage Restraint Synchronizing Automatic Hanual feunual) Manua? Menual Henue? Power Factor or Woltage Regulation

DISCONNECT DEVICE: The Producer shall provide, install, own and maintain the interconnection disconnect device required by Section 8.3.5 at a location readily accessible to the Utility. Such device shall normally be located near the Utility's meter or meters for sale operation by the Utility. The interconnection disconnect device and its precise location shall be specified by the Utility. At the Producer's option and request, the Utility will provide, install, own and maintain the disconnect device on the Utility's system as special facilities in accordance with Section F. accordance with Section F.

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

Detailed requirements are specified in the Utility's surrent operating, metering and equipment protection publications, as revised from time to time by the Utility and available to the Producer upon request. For a particular generator application, the Utility will furnish its specific mentral, protective and sefety requirements to the Producer after the exact location appetific mentral, protective and sefety requirements to the Producer after the exact location of the generator has been agreed upon and the interconnection voltage level has been established.

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

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 **(T)** (Continued) restoration equipment.

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BULE NO. 21 -- MONITILITY-DIRHED PARALLEL GENERATION (Cont'd.)

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- INTERCONNECTION FACILITIES (continued)
 - UTILITY SYSTEM ADDITIONS AND REINFORCEDENTS
 - Except as provised for in Section 8.5, all additions to and reinforcements of the (N) Except as provided for in Section 3.3, all additions to see reinforcements of the Utility's system accessary to interconnect with and receive power deliveries from the Producer's generation will be provided, installed, comed and maintained by the Utility as special facilities in accordance with Section F. Such additions 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 additions or reinforcements shall include an increment of additional capacity for the Utility's and the formation and the capacity for the Utility's and the formation and the capacity for the Utility's and the formation and the capacity for the Utility's and the formation and the capacity for the Utility's and the formation and the capacity for the Utility's and the formation and the capacity for the Utility's and the formation and the capacity for the Utility's and the formation and the capacity for the Utility's and the formation and the capacity for the Utility's and the Company of the Utility's access to the capacity for the Utility's access to the Company of the Utility's access to the Utility's acc the Utility's use in furnishing service to its customers. If so, then the costs of providing, installing, suming and meintaining such additional capacity shall 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).
 - b. 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 atudy within twolve salendar menths of receiving all secessary plans and specifications free the Producer.
 - S. PRODUCER-INSTALLED UTILITY-DUNED LINE EXTENSIONS: The Producer may at its aption provide and install an extension of the Utility's distribution or transmission lines 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 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 mosts of design, administration and inspection as may be reasonably requirements. Upon final nucle extension is installed in compliance with the Utility's requirements. Upon final inspection and acceptance by the Utility, the Producer shall be sweet and maintained as increasing to the Utility where thereafter it shall be sweet and maintained as special facilities in accordance with Section F. This provision does not proclude the Producer from installing, sweing and maintaining a distribution or transmission line extension as part of its other Producer-sweet interconnection facilities.
 - COSTS OF PUTURE UTILITY SYSTEM ALTERATIONS: The Producer shell be responsible for the 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 mecassary to maintain the Producer's interconnection in eccerdance with the Utility's applicable operating, metering and equipment publication of effect when the Producer and the Utility entered (act a written form of power quechase agreement. Alterations made at the Producer's expense shall specifically exclude increases of existing line especity necessary to accommodate the other Producers or Utility estamors. Such alterations may, however, include relocation or Producers or Utility's distribution or transmission lines as may be ordered undergrounding of the Utility's distribution or transmission lines as may be ordered by a governmental authority having jurisdiction.
 - 7. ALLOCATION OF THE UTILITY'S EXISTING LINE CAPACITY: For two or more Producers seeking to use an existing line, a first sense, 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 so obligation for costs associated with future line upgrades needed to eccompdate other Producers or austoners. The Utility's power purchase agreement eccomodate other Producers or sustaners. 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 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 after the right to interconnect on the existing line to the mext 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 upgrade necessary to facilitate their cumulative sapacity 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. <u>#3-10-093</u>

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BULE NO. 21 -- MONUTILITY-DWHED PARALLEL CENERATION (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 Stillty's applicable electric sariffs on file with and authorized by the Commission.

D. SPERATION

- 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. Shere the Producer's generation has a rated output in excess of 100 km, the Producer shall pay the Utility its estimated coats of performing the inspection.
- 2. JURISDICTION OF THE UTILITY'S SYSTEM DISPATCHER: The Producer's generation while operating in perallal with the Utility's system is at all times under the jurisdiction of the Utility's system dispatcher. The system dispatcher shall mormally delegate such central to the Utility's designated emitching center.
- 3. COMMICATIONS: The Producer shall maintain delephone service from the local telephone company to the location of the Producer's generation. In the event such location is reacte or unattended, telephone service shall be provided to the mearest building mermally occupied by the Producer's generator operator. The Utility and the Producer shall maintain operating communications through the Utility's designated exitching center.
- 4. GENERATOR LDC: 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, direuit breaker trip operations requiring manual reset and unusual events. The Utility shall have the right to review the Producer's log.
- S. REPORTING ASHORMAL 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.
- FOWER FACTOR: The Preducer shall furnish reactive power as may be reasonably required (D) by the Utility.
 - The 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 35 percent leading (absorbing vers) and 50 percent lagging (producing vars) at any voltage level within a 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 mear 35 percent leading power factor. The Utility may also require the installation of switched capacitors on its system to produce reactive support equivalent to that provided by operating a synchronous generator of the same size between 35 percent leading and 30 percent lagging power factor.

 Where either the Producer or the Utility determines that it is not practical for

a. 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 Utility specifies switched capacitors in its system pursuant to Section D.S.e, the Utility will provide, install, own and meintain the necessary devices on its system in accordance with Section F.

E. INTERFERENCE WITH SERVICE AND CONFUNICATION FACILITIES

 GENERAL: 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 auctomers.

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

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

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BULE NO. 21 - MONUTILITY-DINNED PARALLEL CENERATION (CONT. d.)

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- E. WITERFERENCE WITH SERVICE AND COMMUNICATION FACILITIES (continued)
 - 2. The Producer shall not operate equipment that superimposes open 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 time to do so by the Utility. If the Producer does not take timely corrective action, 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

- 3. 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 expensity costs as may be applicable.
- 2. Special facilities are (a) these 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 otherwise provided by the Utility's filed tariff achedules, special facilities will be installed, numed 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 oustoners 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 Monutility-comed 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 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 most of the special facilities. The amount advanced is subject to the monthly expership charge applicable to customer-financed special facilities as set forth in Section I of the Utility's Bule No. 2.
 - a. At the Preducer's option, and where such Producer's generation is a qualifying facility and the Producer has established aredit worthiness to the Utility's actisfaction, the Utility shall finance those special facilities it does to be removable and rousable equipment. Such equipment shall include, but not be limited to, transformation, disconnection and metering equipment.
 - Existing facilities ellecated 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 exmership charge applicable to Utility-financed special facilities as set forth in Section 1 of Bule 2.

A qualifying facility is one which mosts 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 1878 (16 U.S.C.A. 796, et aeq.).

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Advice	Letter	No.	1025-E
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fesued By W. M. Gallavan Vice-President Rates and Economic Analysis

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Pacific Gas and Electric Company San Francisco, California

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BULE NO. 21 -- MONUTILITY-DENED PARALLEL CENERATION (Cont'd.)

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F. SPECIAL FACILITIES (continued)

d. Where the Producer elects to Install and deed to the Utility on extension of the Utility's distribution or transmission lines for use as special facilities in accordance with Section 8.5, 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 1 of the Rule No. 2.

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- 4. Where payment or collection of continuing monthly concratip charges is not practicable, the Producer shall be required to make an equivalent one-time payment in lieu of such monthly charges.
- S. 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 sustance 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 cumerahip 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 ACREDIENTS: 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.

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W. M. Gallevan
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To be determined upon execution of the Special Facilities Agreement for the Facility.

F-3 INTERCONNECTION FACILITIES FOR WHICH SELLER IS RESPONSIBLE

To be determined upon execution of the Special Facilities Agreement for the Facility.