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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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2			STANDARD OFF	ER #4:		
3		LC	NG-TERM ENERGY	AND CAPACITY		
4			POWER PURCHASE	AGREEMENT		
5						
6			CONTENT	S		
7						
8	Article					Page
9	1	QUALIFY	ING STATUS			3
10	2	COMMITMI	ENT OF PARTIES			4
11	3	PURCHASI	E OF POWER			5
12	4	ENERGY 1	PRICE			6
13	5	CAPACITY	ELECTION AND C	APACITY PRICE		10
14	6	LOSS ADJ	JUSTMENT FACTORS			11
15	7	CURTAIL	IENT			11
16	8	RETROAC	TIVE APPLICATION	OF CPUC ORDERS		12
17	9	NOTICES				12
18	10	DESIGNA	FED SWITCHING CE	NTER	e iz tin	13
19	11	TERMS A	D CONDITIONS			13
20	12	TERM OF	AGREEMENT			14
21						
22	Appendix	A: GEI	NERAL TERMS AND	CONDITIONS		
2 3	Appendix	B: EN	ERGY PAYMENT OPT	IONS		
24	Appendix	c: cui	RTAILMENT OPTION	S		
2 5	· Appendix	D: AS	-DELIVERED CAPAC	ITY		
26	Appendix	E: FII	RM CAPACITY			
27	Appendix	F: IN	TERCONNECTION			
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S.O. #4 May 7, 1984

)	LONG-TERM ENERGY AND CAPACITY
2	POWER PURCHASE AGREEMENT
3	BETWEEN
4	WINEAGLE DEVIDOPORS
5	AND
6	PACIFIC GAS AND ELECTRIC COMPANY
7	
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9	David and be
10	Developers WINEAGLE A, a California limited partnership ("Seller"),
11	and PACIFIC GAS AND ELECTRIC COMPANY ("PGandE"), referred to
12	collectively as "Parties" and individually as "Party", agree
13	as follows:
14	
15	ARTICLE 1 QUALIFYING STATUS
16	
17	Seller warrants that, at the date of first power
18	deliveries from Seller's Facility ¹ and during the <u>term of</u>
19	agreement, its Facility shall meet the qualifying facility
2 0	requirements established as of the effective date of this
21	Agreement by the Federal Energy Regulatory Commission's
22	rules (18 Code of Federal Regulations 292) implementing the
2 3	Public Utility Regulatory Policies Act of 1978 (16 U.S.C.A.
24	796, et seg.).
25	
26	
27	1 Underlining identifies those terms which are defined in Section A-1 of Appendix A.
28	
	3 S.O. #4 May 7 1984

ARTICLE 2 . COMMITMENT OF PARTIES

The prices to be paid Seller for energy and/or capacity 3 delivered pursuant to this Agreement have wholly or partly 4 been fixed at the time of execution. Actual avoided costs 5 at the time of energy and/or capacity deliveries may be 6 substantially above or below the prices fixed in this 7 Therefore, the Parties expressly commit to the Agreement. 8 prices fixed in this Agreement for the applicable period of 9 performance and shall not seek to or have a right to 10 renegotiate such prices for any reason. As part of its. 11 consideration for the benefit of fixing part or all of the 12 energy and/or capacity prices under this Agreement, Seller 13 waives any and all rights to judicial or other relief from 14 its obligations and/or prices set forth in Appendices B, D, .15 and E, or modification of any other term or provision for 16 any reasons whatsoever. 17

This Agreement contains certain provisions which set forth methods of calculating damages to be paid to PGandE in $\mathbf{20}$ fulfill certain performance the event Seller fails to The inclusion of such provisions is not obligations. 22intended to create any express or implied right in Seller to 23 terminate this Agreement prior to the expiration of the term of agreement. Termination of this Agreement by Seller prior 25to its expiration date shall constitute a breach of this 26 Agreement and the damages expressly set forth in this 27

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S.O. #4 May 7, 1984

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Agreement shall not constitute PGandE's sole remedy for such 1 breach. 2 3 ARTICLE 3 PURCHASE OF POWER 4 5 Seller shall sell and deliver and PGandE shall (a) 6 purchase and accept delivery of capacity and energy at the 7 voltage level of 60 kV. 8 9 (b) Seller shall provide capacity and energy from its 10 kW 700 [Nameplate rating of generator(s)] 11 one and one half miles w/o Wendell, California, Facility located 12 in the service area of CPNational 13 14 (c) The scheduled operation date of the Facility is 15 . At the end of each calendar quarter February 15, 1985 16[Date] Seller shall give written notice to PGandE of any change in 17 the scheduled operation date. 18 19 (d) To avoid exceeding the physical limitations of the 20 limit the Seller shall facilities, interconnection 21Facility's actual rate of delivery into the PGandE system to 22 _____ kw. 1/ 23 $\mathbf{24}$ The primary energy source for the Facility is (e) 25 geothermal $\mathbf{26}$ 1/ To be provided upon completion of the interconnection studies by 27 PGandE and CPNational conducted at Seller's expense. $\mathbf{28}$ S.O. #4 5 May 7, 1984

If Seller does not begin construction of its 1 (f) PGandE may reallocate the Facility by January 1, 1985 2 [Date] transmission and/or PGandE's capacity on 3 existing been used to would have which distribution system 4 accommodate Seller's power deliveries to other uses. In the 5 event of such reallocation, Seller shall pay PGandE for the 6 additions to PGandE's system cost of any upgrades or 7 necessary to accommodate the output from the Facility. Such 8 installed, owned and shall be facilities additional 9 maintained in accordance with the applicable PGandE tariff. 10 11 The transformer loss adjustment factor is to be 12 (g) provided upon completion of the interconnection studies by PGandE and 13 CPNational conducted at Seller's expense. ARTICLE 4 ENERGY PRICE 14 15 2 PGandE shall pay Seller for its net energy output 16 under the energy payment option checked below³: 17 18 Energy Payment Option 1 - Forecasted Energy Prices 19 Х 20 During the fixed price period, Seller shall be 2122If Seller chooses to have meters placed on Seller's side of the transformer, an estimated transformer loss adjustment factor of 2 23percent, unless the Parties agree otherwise, will be applied. This estimated transformer loss figure will be adjusted to a measurement $\mathbf{24}$ of actual transformer losses performed at Seller's request and 25 expense. Insert either "net energy output" or "surplus energy output" to 2 26show the energy sale option selected by Seller. 27Energy Payment Option 2 is not available to oil or gas-fired 3 28cogenerators. S.O. #4 6 May 7, 1984

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paid for energy delivered at prices equal to 100^{-1} percent of the prices set forth in Table B-1, Appendix B, plus 0^{-2} percent of PGandE's <u>full short-run</u> avoided operating costs.

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 avoided operating</u> costs.

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

Energy Payment Option 2 - Levelized Energy Prices

During the fixed price period, Seller shall be

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

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footnote 1 above.

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May 7, 1984

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

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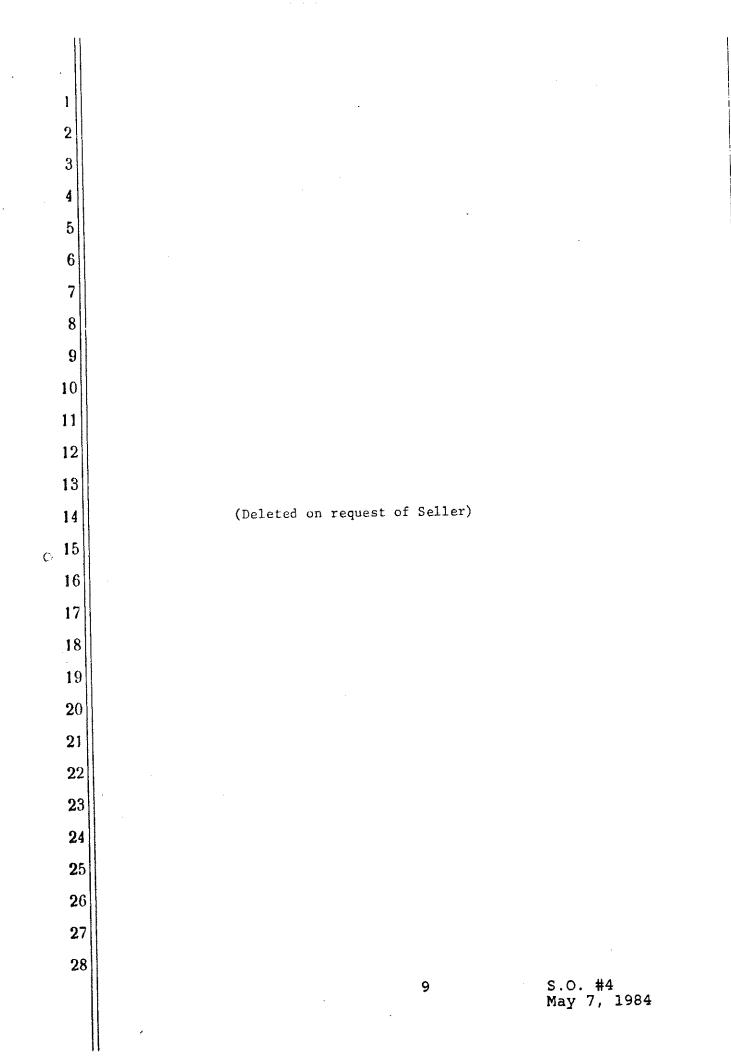
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For the remaining years of the term of agreement, Seller shall be paid for energy delivered at prices equal to PGandE's full short-run avoided operating costs.

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. Such 18 conversion must be made at least 90 days prior to the 19 date of initial energy deliveries and must be made by **2**0 Section A-17, in accordance with written notice 21 Appendix A. **2**2

Insert either 20, 40, 60, 80, or 100, at Seller's option. **2**6 1 Insert the difference between 100 and the percentage selected under 27 2 footnote 1 above. 28 s.o. #4

May 7, 1984



(Deleted on request of Seller) ARTICLE 5 CAPACITY ELECTION AND CAPACITY PRICE Seller may elect to deliver either firm capacity or as-delivered capacity, and Seller's election is indicated below. PGandE's prices for firm capacity and as-delivered capacity are derived from PGandE's full avoided costs as approved by the CPUC. Firm capacity - 690 kW for 30 years from the Х firm capacity availability date with payment determined in accordance with Appendix E. Except for hydro-electric facilities, PGandE shall pay Seller for capacity delivered in excess of firm capacity on an as-delivered capacity basis in accordance with As-Delivered Capacity Payment Option 2 set forth in Appendix D. (Deleted on request of Seller) 6 S.O. #4 May 7, 1984

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</u> <u>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: <u>X</u> Curtailment Option A - Hydro Spill and Negative Avoided Cost Curtailment Option B - Adjusted Price Period

The two options are described in Appendix C.

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ARTICLE 8 RETROACTIVE APPLICATION OF CPUC ORDERS

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2 Pursuant to Ordering Paragraph 1(f) of CPUC Decision 3 No. 83-09-054 (September 7, 1983), after the effective date 4 of the CPUC's Application 82-03-26 decision relating to line 5 loss factors, Seller has the option to retain the relevant 6 terms of this Agreement or have the results of that decision 7 incorporated into this Agreement. To retain the terms 8 herein, Seller shall provide written notice to PGandE within 9 30 days after the effective date of the relevant CPUC 10 decision on Application 82-03-26. Failure to provide such 11 notice will result in the amendment of this Agreement to 12 comply with that decision. 13 14 As soon as practicable following the issuance of a 15 decision in Application 82-03-26, PGandE shall notify Seller 16 of the effective date thereof and its results. 17 18 ARTICLE 9 NOTICES 19 **2**0 All written notices shall be directed as follows: 21 Pacific Gas and Electric Company To PGandE: 22Vice President -Attention: Electric Operations $\mathbf{23}$ 77 Beale Street San Francisco, CA 94106 $\mathbf{24}$ 25 $\mathbf{26}$ 2728 12 S.O. #4 May 7, 1984

	To Seller: WINEAGLE A
1 2	c/o Carson Development
2	P. O. Box 2590
	Sacramento, CA 95812
- 4	
5 6	
	ARTICLE 10 DESIGNATED SWITCHING CENTER
7	
8	The <u>designated</u> <u>PGandE</u> <u>switching</u> <u>center</u> shall be, unless
9	changed by PGandE:
10	Caribou Substation (Name)
11	Caribou, CA
12	(Location)
13	(916) 283-1013 (Phone number)
14	
15	ARTICLE 11 TERMS AND CONDITIONS
16	
17	This Agreement includes the following appendices which
18	are attached and incorporated by reference:
19	Appendix A - GENERAL TERMS AND CONDITIONS
20	Appendix B - ENERGY PAYMENT OPTIONS
21	Appendix C - CURTAILMENT OPTIONS
2 2	Appendix D = KS-DEDIVERED CHEROFT
2 3	Appendix E FIRM CHINCITI
24	Appendix F = INIERCOMMETION
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	May 7, 1984

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1	ARTICLE 12 TERM OF AGREEMENT
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3	This Agreement shall be binding upon execution and
4	remain in effect thereafter for <u>30</u> years ¹ from the
5	firm capacity availability date 2; provided, however, that it shall
6	terminate if energy deliveries do not start within five
7	years of the execution date.
8	
9	IN WITNESS WHEREOF, the Parties hereto have caused this
10	Agreement to be executed by their duly authorized repre-
11	sentatives and it is effective as of the last date set forth
12	below. DEUROPERS
13	WINEAGLE A a California limited PACIFIC GAS AND ELECTRIC COMPANY partnership
14	CARSON DEVELOPMENT:
'15	BY: Johan alte Which
	Johan OttoBY:
16	TITLE: PRESIDENT (Type Name)
17	DATE SIGNED: 10-25-84 TITLE: Manager, Commercial Departmen
18	
19	BY: Aulp Edwardes DATE SIGNED: 10/29/84
2 0	Philip Edwardes (Type Name)
2 1	TITLE: RESIDENT
2 2	DATE SIGNED: 25th October 1984
2 3	1 The minimum contract term is 15 years and the maximum contract term
24	is 30 years.
2 5	" 2 Insert "firm capacity availability date" if Seller has elected to deliver firm capacity or "date of initial energy deliveries" if
2 6	
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	14 S.O. #4
	May 7, 1984
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2		APPENDIX A	
3		GENERAL TERMS AND CONDITIONS	
4		CONTENTS	
5			
6	Section		Page
7	A-1	DEFINITIONS	A-2
8	A-2	CONSTRUCTION	A-7
9	A-3	OPERATION	A-11
10	A-4	PAYMENT	A-14
11	A-5	ADJUSTMENTS OF PAYMENTS	A-15
12	A-6	ACCESS TO RECORDS AND PGandE DATA	A-15
13	A-7	INTERRUPTION OF DELIVERIES	A-16
14	A-8	FORCE MAJEURE	A-16
15	A-9	INDEMNITY	A-18
16	A-10	LIABILITY; DEDICATION	A-19
17	A-11	SEVERAL OBLIGATIONS	A-20
18	A-12	NON-WAIVER	A-20
19	A-13	ASSIGNMENT	A-20
20	A-14	CAPTIONS	A-21
21	A-15	CHOICE OF LAWS	A-21
22 23	A-16	GOVERNMENTAL JURISDICTION AND AUTHORIZATION	A-21
24	A-17	NOTICES	A-22
2 5	A-18	INSURANCE	A-22
26			
27			
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		A-1 S.O. #4 May 7, 1984	1

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1	APPENDIX A
2	GENERAL TERMS AND CONDITIONS
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5	A-1 DEFINITIONS
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7	Whenever used in this Agreement, appendices, and
8	attachments hereto, the following terms shall have the
9	following meanings:
10	
11	Adjusted firm capacity price - The \$/kW-year purchase
12	price for <u>firm</u> <u>capacity</u> from Table E-2, Appendix E for the
13	period of Seller's actual performance.
14	
15	As-delivered capacity - Capacity delivered to PGandE
16	in excess of firm capacity or in lieu of a firm capacity
17	commitment.
18	
19	<u>CPUC</u> - The Public Utilities Commission of the State
20	of California.
21	
22	Current firm capacity price - The \$/kW-year capacity
2 3	price from PGandE's firm capacity price schedule effective
24	at the time PGandE derates the firm capacity pursuant to
2 5	Section E-4(b), Appendix E or Seller terminates performance
26	under this Agreement, for a term equal to the period from
27	· · ·
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	A-2 S.O. #4 May 7, 1984

the date of deration or termination to the end of the term 1 of agreement. 2 3 Designated PGandE switching center - That switching 4 identified installation in PGandE other center or 5 Article 10. 6 7 Facility - That generation apparatus described in 8 Article 3 and all associated equipment owned, maintained, 9 and operated by Seller. 10 11 Firm capacity - That capacity, if any, identified as 12 firm in Article 5 except as otherwise changed as provided 13 herein. 14 \cap 15 Firm capacity availability date - The day following 16 the day during which all features and equipment of the 17 Facility are demonstrated to PGandE's satisfaction to be 18 capable of operating simultaneously to deliver firm capacity 19 continuously into PGandE's system as provided in this $\mathbf{20}$ Agreement. 21 22 Firm capacity price - The price for firm capacity 23 applicable for the firm capacity availability date and the 24 number of years of firm capacity delivery from the firm 25 capacity price schedule, Table E-2, Appendix E. 2627 28

A-3

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.

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The period during which period price Fixed 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 if the term of agreement is 17, 18, or 19 years; or the first ten years of the term of agreement if the term of agreement is anywhere from 20 through 30 years.

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

operating costs avoided short-run Full which are the basis of PGandE's <u>CPUC</u>-approved costs published energy prices. PGandE's current energy price calculation is shown in Table B-5, Appendix B. PGandE's published off-peak hours' prices shall be adjusted, as appropriate, if Seller has selected Curtailment Option B. 25

A-4

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

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

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

A-5

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

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

additions and Those facilities Special 9 reinforcements to the PGandE system which are needed to 10 accommodate the maximum delivery of energy and capacity from 11 the Facility as provided in this Agreement and those parts 12 of the interconnection facilities which are owned and 13 maintained by PGandE at Seller's request, including metering 14 and data processing equipment. All special facilities shall 15 be owned, operated, and maintained pursuant to PGandE's 16 electric Rule No. 21, which is attached hereto. 17

Station use - Energy used to operate the Facility's 19 auxiliary equipment. The auxiliary equipment includes, but $\mathbf{20}$ is not limited to, forced and induced draft fans, cooling 21 towers, boiler feed pumps, lubricating oil systems, plant 22lighting, fuel handling systems, control systems, and sump 23 pumps. 24 25 26 (Deleted on request of Seller) 27 28S.O. #4 A-6

May 7, 1984

(Deleted on request of Seller) 1 2 * * * * * * * * * * * * 3 The number of years this Term of agreement -4 Agreement will remain in effect as provided in Article 12. 5 6 Voltage level - The voltage at which the Facility 7 interconnects with the PGandE system, measured at the point 8 of delivery. 9 10 CONSTRUCTION A-2 11 12 Land Rights A-2.1 13 14 Seller hereby grants to PGandE all necessary rights 15 of way and easements, including adequate and continuing 16 access rights on property of Seller, to install, operate, 17 and remove the special facilities. replace, 18 maintain, Seller agrees to execute such other grants, deeds, or 19 documents as PGandE may require to enable it to record such **2**0 If any part of PGandE's rights of way and easements. 21 equipment is to be installed on property owned by other than $\mathbf{22}$ Seller, Seller shall, at its own cost and expense, obtain $\mathbf{23}$ from the owners thereof all necessary rights of way and $\mathbf{24}$ easements, in a form satisfactory to PGandE, for the 25 construction, operation, maintenance, and replacement of 26 If Seller is unable PGandE's equipment upon such property. 27

> S.O. #4 May 7, 1984

A-7

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

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A-2.2 Design, Construction, Ownership, and Maintenance

Seller shall design, construct, install, own, (a) 11 operate, and maintain all interconnection facilities, except 12 special facilities, to the point of interconnection with the 13 CPNational system as required for PGandE to receive capacity and 14 The Facility and interconnection energy from the Facility. 15 facilities shall meet all requirements of applicable codes 16 and all standards of prudent electrical practices and shall 17 be maintained in a safe and prudent manner. A description 18 of the interconnection facilities for which Seller is solely 19 in Appendix F, if the or set forth responsible is **2**0 interconnection requirements have not yet been determined at 21 the time of the execution of this Agreement, the description 22of such facilities will be appended to this Agreement at the 23 time such determination is made. 24

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

for review and written acceptance prior to their release for 1 construction purposes. PGandE shall notify Seller in 2 writing of the outcome of PGandE's review of the design and 3 specifications for Seller's interconnection facilities (and 4 the Facility, if requested) within 30 days of the receipt of 5 specifications for the the design and all of the 6 interconnection facilities (and the Facility, if requested). 7 the design and PGandE in perceived by flaws 8 Any specifications for the interconnection facilities (and the 9 if requested) will be described in PGandE's Facility, 10 written notification. PGandE's review and acceptance of the 11 shall not be construed design and specifications as 12 confirming or endorsing the design and specifications or as 13 warranting their safety, durability, or reliability. PGandE 14 shall not, by reason of such review or lack of review be 15 responsible for strength, details of design, adequacy, or 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 $\mathbf{20}$ required by PGandE to meet changing requirements of the 21PGandE system. 22

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

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(d) Upon the request of Seller, PGandE shall provide 1 a binding estimate for the installation of interconnection 2 facilities by PGandE. 3 4 Meter Installation A-2.3 5 6 (a) PGandE shall specify, provide, install, own, 7 operate, and maintain as special facilities all metering and 8 data processing equipment for the registration and recording 9 of energy and other related parameters which are required 10for the reporting of data to PGandE and for computing the 11 payment due Seller from PGandE. 12 13 Seller shall provide, construct, install, own, (b) 14 and maintain at Seller's expense all that is required to 15 accommodate the metering and data processing equipment, such 16 as, but not limited to, metal-clad switchgear, switchboards, 17 metering panels, enclosures, conduits, rack cubicles, 18 structures, and equipment mounting pads. 19 20be fixed on shall permit meters to PGandE (c) 21 If meters are placed on PGandE's side of the transformer. **2**2 PGandE's side of the transformer, service will be provided 23at the available primary voltage and no transformer loss $\mathbf{24}$ adjustment will be made. If Seller chooses to have meters **2**5 placed on Seller's side of the transformer, an estimated 26 transformer loss adjustment factor of 2 percent, unless the 27 Parties agree otherwise, will be applied. $\mathbf{28}$

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S.O. #4 May 7, 1984

C.

A-3 OPERATION

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A-3.1 Inspection and Approval

Seller shall not operate the Facility in parallel 5 authorized PGandE until an PGandE's system 6 with representative has inspected the interconnection facilities, 7 and PGandE has given written approval to begin parallel 8 Seller shall notify PGandE of the Facility's 9 operation. start-up date at least 45 days prior to such date. PGandE 10 shall inspect the interconnection facilities within 30 days 11 of the receipt of such notice. If parallel operation is not 12 authorized by PGandE, PGandE shall notify Seller in writing 13 inspection of the reason after five days within 14 authorization for parallel operation was withheld. 15

17 A-3.2 Facility Operation and Maintenance

maintain its Facility and shall operate 19 Seller according to prudent electrical practices, applicable laws, 20 orders, rules, and tariffs and shall provide such reactive 21 power support as may be reasonably required by PGandE to 22maintain system voltage level and power factor. Seller 23 shall operate the Facility at the power factors or voltage $\mathbf{24}$ levels prescribed by PGandE's system dispatcher or desig-**2**5 nated representative. If Seller fails to provide reactive 26power support, PGandE may do so at Seller's expense. 27

> A-11 S.O. #4 May 7, 1984

A-3.3 Point of Delivery

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e.

2	Seller shall, by obtaining wheeling services from CPNational,
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4	deliver the energy at the point where the electrical conductors of CPNational
5	contact PGandE's system as it shall exist whenever the
6	deliveries are being made or at such other point or points
7	as the Parties may agree in writing. The initial point of
8	delivery of Seller's power to the PGandE system is set forth
9	in Appendix F.
10	
11	A-3.4 Operating Communications
12	
13	(a) Seller shall maintain operating communications
14	with the designated PGandE switching center. The operating
15	communications shall include, but not be limited to, system
16	paralleling or separation, scheduled and unscheduled
17	shutdowns, equipment clearances, levels of operating voltage
18	or power factors and daily capacity and generation reports.
19	
20	(b) Seller shall keep a daily operations log for
21	each generating unit which shall include information on unit
22	availability, maintenance outages, circuit breaker trip
23	operations requiring a manual reset, and any significant
24	events related to the operation of the Facility.
2 5	
2 6	(c) If Seller makes deliveries greater than one
20 27	megawatt, Seller shall measure and register on a graphic
28	recording device power in kW and voltage in kV at a location
20	A-12 S.O. #4 May 7, 1984

within the Facility agreed to by both Parties.

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

(e) If Seller makes deliveries of greater than ten 10 megawatts, Seller shall telemeter the delivered capacity and 11 energy information, including real power in kW, reactive 12 power in kVAR, and energy in kWh to a switching center 13 selected by PGandE. PGandE may also require Seller to 14 telemeter transmission kW, kVAR, and kV data depending on 15 the number of generators and transmission configuration. 16 Seller shall provide and maintain the data circuits required 17 for telemetering. When telemetering is inoperative, Seller 18 shall report daily the capacity delivered each hour and the 19 energy delivered each day to the designated PGandE switching 20 center. 21

A-3.5 Meter Testing and Inspection

the provide data for الم مصار مان م مناطق to meters used A11 (a) **2**5 computation of the payments due Seller from PGandE shall be 26 sealed, and the seals shall be broken only by PGandE when 27 the meters are to be inspected, tested, or adjusted. 28

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

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(b) PGandE shall inspect and test all meters upon 1 their installation and annually thereafter. At Seller's 2 request and expense, PGandE shall inspect or test a meter 3 PGandE shall give reasonable notice to more frequently. 4 Seller of the time when any inspection or test shall take 5 place, and Seller may have representatives present at the 6 test or inspection. If a meter is found to be inaccurate or 7 defective, PGandE shall adjust, repair, or replace it at its 8 expense in order to provide accurate metering. 9 10 A-3.6 Adjustments to Meter Measurements 11 12 If a meter fails to register, or if the measurement 13 made by a meter during a test varies by more than two 14 percent from the measurement made by the standard meter used C15 in the test, an adjustment shall be made correcting all 16 measurements made by the inaccurate meter for -- (1) the 17 actual period during which inaccurate measurements were 18 made, if the period can be determined, or if not, (2) the 19 period immediately preceding the test of the meter equal to 20one-half the time from the date of the last previous test of 21 the meter, provided that the period covered by the 22correction shall not exceed six months. 2324 PAYMENT A-4 25 2627

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

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A-14

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

ADJUSTMENTS OF PAYMENTS A-5

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payments are adjustments τo the event (a) In 14 required as a result of inaccurate meters, PGandE shall use 15 the corrected measurements described in Section A-3.6 to 16 recompute the amount due from PGandE to Seller for the 17 capacity and energy delivered under this Agreement during 18 the period of inaccuracy. 19

The additional payment to Seller or refund to (b) 21 PGandE shall be made within 30 days of notification of the 22 owing Party of the amount due. $\mathbf{23}$

ACCESS TO RECORDS AND PGande DATA A-6

Each Party, after giving reasonable written notice to 27 the other Party, shall have the right of access to all 28

A-15

s.o. #4 May 7, 1984 metering and related records including operations logs of the <u>Facility</u>. Data filed by PGandE with the <u>CPUC</u> pursuant to <u>CPUC</u> orders governing the purchase of power from qualifying facilities shall be provided to Seller upon request; provided that Seller shall reimburse PGandE for the costs it incurs to respond to such request.

A-7 INTERRUPTION OF DELIVERIES

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PGandE shall not be obligated to accept or pay for 10 and may require Seller to interrupt or reduce deliveries of 11 energy (1) when necessary in order to construct, install, 12 maintain, repair, replace, remove, investigate, or inspect 13 any of its equipment or any part of its system, or (2) if it 14 determines that interruption or reduction is necessary 15 because of PGandE system emergencies, forced outages, force 16 majeure, or compliance with prudent electrical practices; 17 provided that PGandE shall not interrupt deliveries pursuant 18 to this section in order to take advantage, make or 19 purchases, of less expensive energy elsewhere. Whenever 20 possible, PGandE shall give Seller reasonable notice of the 21 possibility that interruption or reduction of deliveries may 22 be required. 23

A-8 FORCE MAJEURE

(a) The term force majeure as used herein means unforeseeable causes, other than <u>forced outages</u>, beyond the

A-16

reasonable control of and without the fault or negligence of the Party claiming force majeure including, but not limited to, acts of God, labor disputes, sudden actions of the elements, actions by federal, state, and municipal agencies, and actions of legislative, judicial, or regulatory agencies which conflict with the terms of this Agreement.

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

(1) the non-performing Party, within two weeks
 after the occurrence of the force majeure, gives the
 other Party written notice describing the particulars
 of the occurrence,

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

(3) the non-performing Party uses its best 21 efforts to remedy its inability to perform (this 22 subsection shall not require the settlement of any 23 strike, walkout, lockout or other labor dispute on 24 in the sole judgment of the Party terms which, **2**5 dispute, are contrary to its involved in the $\mathbf{26}$ It is understood and agreed that the interest. 27 settlement of strikes, walkouts, lockouts or other $\mathbf{28}$

A-17

labor disputes shall be at the sole discretion of the ł Party having the difficulty), 2 (4) when the non-performing Party is able to 3 resume performance of its obligations under this 4 Agreement, that Party shall give the other Party 5 written notice to that effect, and 6 (5) capacity payments during such periods 7 of force majeure on Seller's part shall be governed by 8 Section E-2(c), Appendix E. 9 10 (c) In the event a Party is unable to perform due to 11 legislative, judicial, or regulatory agency action, this 12 Agreement shall be renegotiated to comply with the legal 13 change which caused the non-performance. 14 15 C. A-9 INDEMNITY 16 17 Each Party as indemnitor shall save harmless and 18 indemnify the other Party and the directors, officers, and 19 employees of such other Party against and from any and all 20and liability for injuries to persons including loss 21 employees of either Party, and property damages including 22 property of either Party resulting from or arising out of 23 (1) the engineering, design, construction, maintenance, or 24 operation of, or (2) the making of replacements, additions, **2**5 betterments to, the indemnitor's facilities. This or 26 indemnity and save harmless provision shall apply 27 notwithstanding the active or passive negligence of the 28

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indemnitee. Neither Party shall be indemnified hereunder for its liability or loss resulting from its sole negligence The indemnitor shall, on the other or willful misconduct. Party's request, defend any suit asserting a claim covered by this indemnity and shall pay all costs, including reasonable attorney fees, that may be incurred by the other Party in enforcing this indemnity.

LIABILITY; DEDICATION A-10

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(a) Nothing in this Agreement shall create any duty to, any standard of care with reference to, or any liability 12 to any person not a Party to it. Neither Party shall be 13 liable to the other Party for consequential damages. 14

Each Party shall be responsible for protecting (b) 16 its facilities from possible damage by reason of electrical 17 disturbances or faults caused by the operation, faulty 18 operation, or nonoperation of the other Party's facilities, 19 or the facilities of CPNational, and such other Party shall not be liable 20for any such damages so caused. 21

No undertaking by one Party to the other under (c) 23provision of this Agreement shall constitute the any $\mathbf{24}$ dedication of that Party's system or any portion thereof to **2**5 the other Party or to the public or affect the status of 26 an independent public utility corporation or PGandE as 27an independent individual or entity and not a Seller as 28

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S.O. #4 May 7, 1984 1.19

public utility.

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A-11 SEVERAL OBLIGATIONS

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

A-12 NON-WAIVER

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

A-13 ASSIGNMENT

Neither Party shall voluntarily assign its rights nor delegate its duties under this Agreement, or any part of such rights or duties, without the written consent of the other Party, except in connection with the sale or merger of a substantial portion of its properties. Any such

assignment or delegation made without such written consent 1 shall be null and void. Consent for assignment shall not be 2 withheld unreasonably. Such assignment shall include, 3 unless otherwise specified therein, all of Seller's rights 4 to any refunds which might become due under this Agreement. 5 6 CAPTIONS A-14 7 8 indexes, titles, subject headings, section All 9 titles, and similar items are provided for the purpose of 10 reference and convenience and are not intended to affect the 11 meaning of the contents or scope of this Agreement. 12 13 CHOICE OF LAWS A-15 14 \mathbf{C} 15 This Agreement shall be interpreted in accordance 16 with the laws of the State of California, excluding any 17 choice of law rules which may direct the application of the 18 laws of another jurisdiction. 19 **2**0 GOVERNMENTAL JURISDICTION AND AUTHORIZATION A-16 21 22Seller shall obtain any governmental authorizations 23 and permits required for the construction and operation of $\mathbf{24}$ the Facility. Seller shall reimburse PGandE for any and all 25losses, damages, claims, penalties, or liability it incurs 26as a result of Seller's failure to obtain or maintain such 27 authorizations and permits. $\mathbf{28}$ S.O. #4 A-21 May 7, 1984

1	A-17 NOTICES
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3	Any notice, demand, or request required or permitted
4	to be given by either Party to the other, and any instrument
5	required or permitted to be tendered or delivered by either
6	Party to the other, shall be in writing (except as provided
7	in Section E-3) and so given, tendered, or delivered, as the
8	case may be, by depositing the same in any United States
9	Post Office with postage prepaid for transmission by
10	certified mail, return receipt requested, addressed to the
11	Party, or personally delivered to the Party, at the address
12	in Article 9 of this Agreement. Changes in such designation
13	may be made by notice similarly given.
14	
15	A-18 INSURANCE
16	
17	A-18.1 General Liability Coverage
18	
19	(a) Seller shall maintain during the performance
20	hereof, General Liability Insurance ¹ of not less than
21	\$1,000,000 if the <u>Facility</u> is over 100 kW, \$500,000 if the
22	Facility is over 20 kW to 100 kW, and \$100,000 if the
23	Facility is 20 kW or below of combined single limit or
24	equivalent for bodily injury, personal injury, and property
2 5	damage as the result of any one occurrence.
26	
27 28	1 Governmental agencies which have an established record of self-insurance may provide the required coverage through self-insurance.
	A-22 S.O. #4 May 7, 1984

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

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the endorsement to insurance, by -Such (c) 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 notice to PGandE prior to cancellation, termination, 15 alteration, or material change of such insurance. 16

A-18.2 Additional Insurance Provisions

Evidence of coverage described above in Section (a) 20 A-18.1 shall state that coverage provided is primary and is 21to or contributing with any insurance or not excess 22 self-insurance maintained by PGandE. 23

PGandE shall have the right to inspect or obtain (b) 25a copy of the original policy(ies) of insurance. 26

A-23

s.o. #4 May 7, 1984

1	(c) Seller shall furnish the required certificates ¹
2	and endorsements to PGandE prior to commencing operation.
3	
4	(d) All insurance certificates ¹ , endorsements,
5	cancellations, terminations, alterations, and material
6	changes of such insurance shall be issued and submitted to
7	the following:
8	
9	PACIFIC GAS AND ELECTRIC COMPANY Attention: Manager - Insurance Department
10	77 Beale Street, Room E280 San Francisco, CA 94106
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26	A governmental agency qualifying to maintain self-insurance
27	A governmental agency qualifying to maintain self-insurance should provide a statement of self-insurance.
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	A-24 S.O. #4 May 7, 1984

APPENDIX B

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ENERGY PAYMENT OPTIONS

Energy Payment Option 1 - Forecasted Energy Prices

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

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S.O. #4 May 7, 1984 C_{r}

2				TAI	BLE B-1			
3	•		Foreca	sted Energ	gy Price	Schedule		
4		·						
5	Year of Energy		Foreca Period A	sted Ener	gy Prices	s [★] , ¢/kWh Period B		Weighted Annual
6	Deliv- eries	<u>On-Peak</u>	Partial-Peak	Off-Peak	On-Peak	Partial-Peak	Off-Peak	<u>Average</u>
7	1983 1984	5.36 5.66	5.12 5.40	4.94 5.22	5.44 5.74	5.31 5.61	5.19 5.48	5.18 5.47
8	1985	5.75	5.48	5.30	5.83	5.69	5.56	5.55
9	1986 1987	5.99 6.38	5.72 6.08	5.52 5.88	6.08 6.47	5.94 6.32	5.80 6.17	5.79 6.16
10	1988	6.94	6.62	6.39	7.03	6.87	6.71	6.70
11	1989 1990	7.60	7.25 7.74	7.00 7.48	7.70 8.23	7.53 8.04	7.35 7.85	7.34 7.84
12	1991	8.64	8.24	7.96	8.75	8.56	8.35	8.34
13	1992 1993	9.33 10.10	8,90 9,63	8.60 9.30	9.46 10.23	9.24 10.00	9.02 9.76	9.01 9.75
14	1994	10.91	10.41	10.06	11.06	10.81	10.55	10.54
15	1995 1996	11.79 ^{C;} 12.67	11.25 12.09	10.87 11.68	11.96 12.85	11.68 12.56	11.40 12.25	11.39 12.24
16	1997	13.61	12.98	12.54	13.79	13.48	13.15	13.14
17								
18								
19								
20	1							
21								
2 2								
2 3		hese pri	ces are dif	ferentiate	ed by th	ne time peri	ods as d	efined in
24	T.	able B-4.			-	-		
2 5								
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				B-2		S.O. #4 May 7;		
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Energy Payment Option 2 - Levelized Energy Prices

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

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

(a) Minimum Damages

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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. of а performance by reason full such receive termination, Seller shall pay PGandE an amount based on the difference between the net present values, at the

> S.O. #4 May 7, 1984

B-3

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</u> <u>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:

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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 nth year after the breach, failure to perform, or expiration of security, as shown in Table B-1 for the corresponding calendar year.

> S.O. #4 May 7, 1984

B-4

1	L = weighted annual average levelized energy
2	price applicable to Seller's Facility.
3	A = average annual energy generation by Seller
4	during the period of performance.
5	$n = summation index;$ refers to the $n^{\underline{th}}$ year
6	following termination.
7	W = percent of Seller's energy payments based on
8	the levelized energy prices, as specified in
9	Article 4.
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11	(b) Performance Requirements
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14	accordance with prudent electrical practices in order
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28	B-5 S.O. #4
	May 7, 1984

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

> P and A are as defined in Section (a) above. Seller's average annual energy generation

> B = 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.

(C) Security $\mathbf{23}$

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security for amounts which Seller may be (1)As obligated to pay PGandE pursuant to Sections (a) $\mathbf{26}$ and (b) above, Seller shall provide and maintain 27 one or more of the following in an amount as 28

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S.O. #4 May 7, 1984

described in Section (c)(2) below. 1 2 credit of bank letter irrevocable (i) An 3 delivered to and in favor of PGandE with 4 terms acceptable to PGandE. 5 6 A payment bond providing for payment to (ii) 7 PGandE in the event of any failure to meet 8 the performance requirements set forth in 9 Section (b) above or breach of this Agreement 10 by Seller. Such bond shall be issued by a 11 surety company acceptable to PGandE and shall 12 have terms acceptable to PGandE. 13 14 Fully paid up, noncancellable Project Failure (iii) 15 Insurance made payable to PGandE with terms 16 of such policy(ies) acceptable to PGandE. 17 18 A performance bond providing for payment to (iv) 19 PGandE in the event of any failure to meet 20 the performance requirements set forth in 21Section (b) above or breach of this Agreement $\mathbf{22}$ by Seller. Such bond shall be issued by a 23surety company acceptable to PGandE and shall 24 have terms acceptable to PGandE. **2**5 26 A corporate guarantee of payment to PGandE (v) 27which PGandE deems, in its sole discretion, $\mathbf{28}$ S.O. #4 B-7

May 7, 1984

to provide at least the same guality of 1 security as subsections (i) through (iv) 2 above. 3 4 (vi) Other forms of security which PGandE does not 5 deem to be equivalent security to those 6 listed in subsections (i) through (v) above, 7 and which PGandE, in its sole discretion, 8 deems adequate. Such other forms of security 9 include, for example, a corporate may 10guarantee or a lien, mortgage or deed of 11 trust on the Facility or land upon which it 12 is located. A 1.5% discount will be applied 13 against the levelized energy price portion of 14 PGandE's payments to Seller during the fixed 15 price period if this type of security is 16 provided. 17 18 (i) Commencing 90 days prior to the scheduled (2)19 continuing until date and operation 20 December 1 of the following calendar year, 21 security as described in Section (c)(1) above 22 shall be in place in an amount calculated in 23 accordance with the formula set forth in 24 Section (a) above, assuming Seller delivered **2**5 energy through the end of the following $\mathbf{26}$ then terminated this calendar year and 27Agreement. For purposes of determining the

> S.O. #4 May 7, 1984

B-8

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1	required amount of security, it shall be
2	assumed that Seller's deliveries through the
3	end of the following calendar year would
4	equal R x C x H, where:
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6	R = nameplate rating, in kW, of the
7	Facility.
8	C = estimated capacity factor of the
9	Facility, which shall be
10	established by mutual agreement of
11	the Parties at the time of
12	execution of this Agreement.
. 13	H = number of hours from the <u>scheduled</u>
14	operation date through the end of
15	the following calendar year.
16	
17	(ii) In the second calendar year of operation and
18	each year thereafter until the end of the
19	fixed price period, from December 1 through
20	December 1 of the following year, security
21	shall be in place in an amount calculated by
2 2	the formula set forth in Section (a) above
2 3	assuming Seller continued to deliver energy in each month through the end of the
24	in each month through the end of the following calendar year, at a level equal to
25	the average monthly energy deliveries to
26	date, and then terminated this Agreement.
27	Qale, and then commutee ento hypothement.
28	B-9 S.O. #4 May 7, 1984

Security must be maintained throughout the fixed (3) 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 its days prior to least 30 renewed at not expiration, PGandE may, at its discretion, either request payment from Seller or immediately draw on the security posted, up to the amount calculated accordance with the formula set forth in 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 upon the security posted, up amount the to 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 PGandE elects to draw upon the breach. and 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.

B-10

S.O. #4 May 7, 1984

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Upon the written request of either Party, any (5) between the Parties dispute controversy or concerning Section (c)(4) above shall be subject to arbitration in accordance with the provisions California Arbitration Act, Sections the of 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.

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

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

> S.O. #4 May 7, 1984

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.

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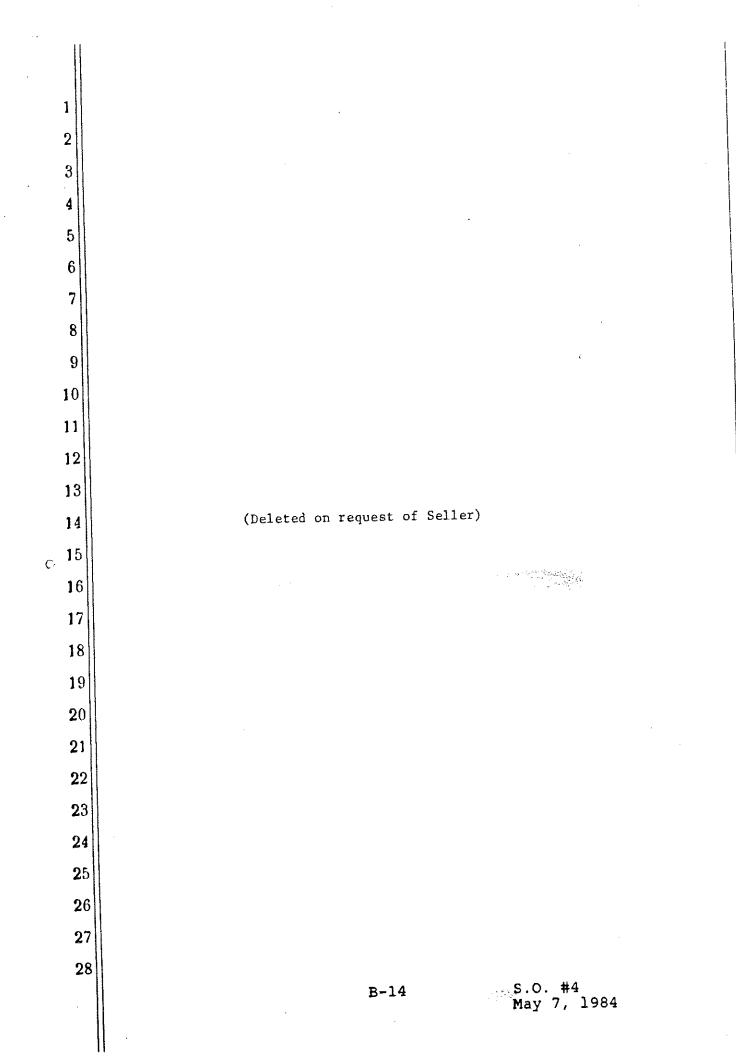
decision of any two arbitrators shall be The binding and conclusive as to disputes relating to Section (c)(4) only. Upon determining the matter, shall promptly execute and arbitrators the acknowledge their decision and deliver a copy to each Party. A judgment confirming the award may superior court having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

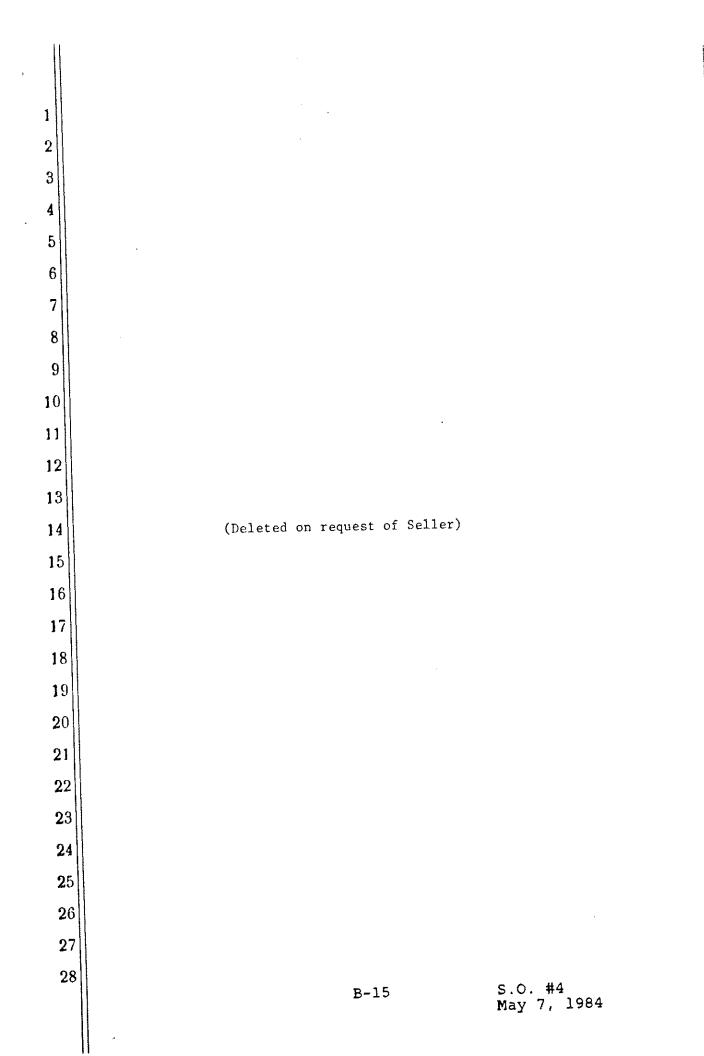
Pending resolution of any controversy or dispute by each Party shall performance hereunder, continue so as to maintain the status quo prior to notice of such controversy or dispute. Resolution the controversy or dispute shall include of 25 payment of any interest accrued in the escrow **2**6 account. 27

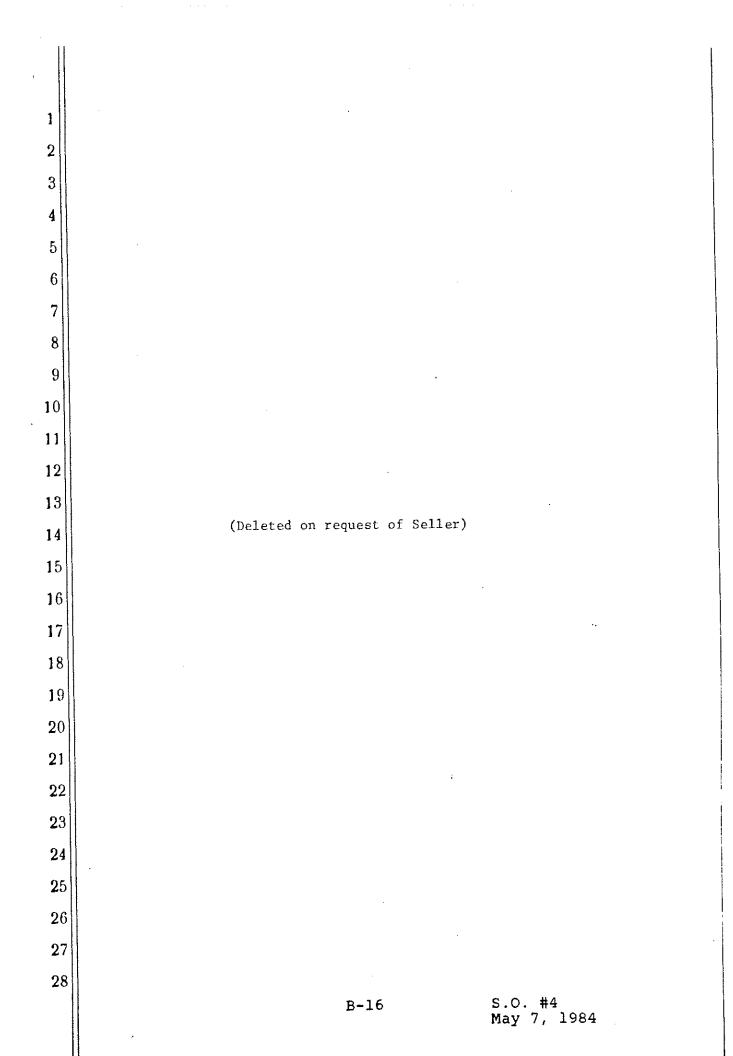
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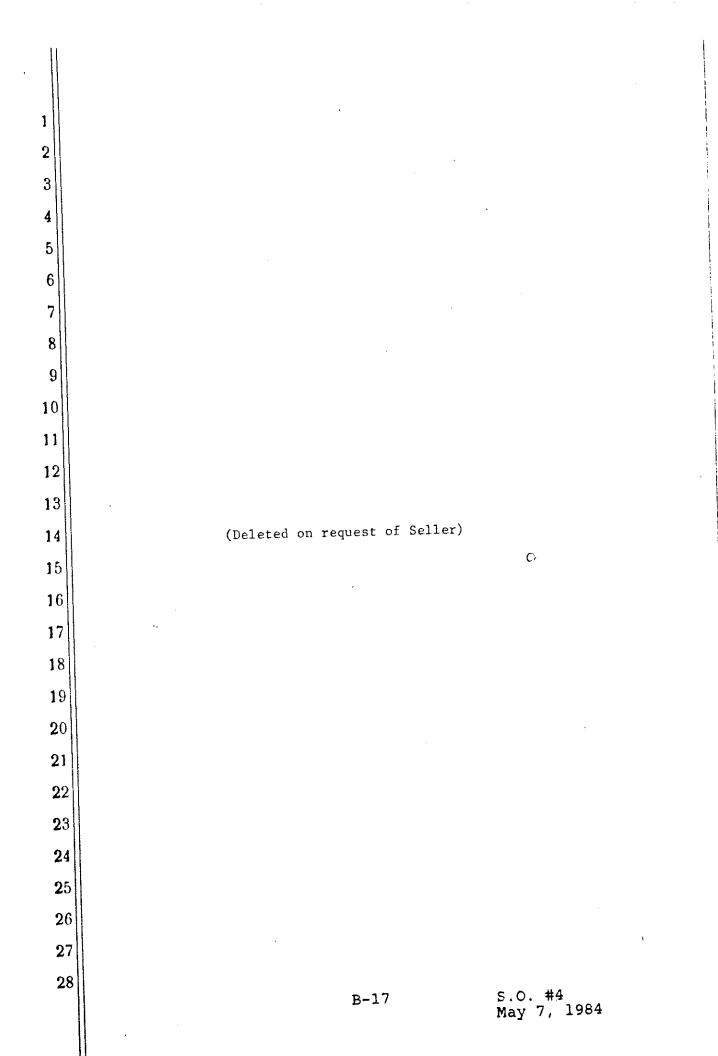
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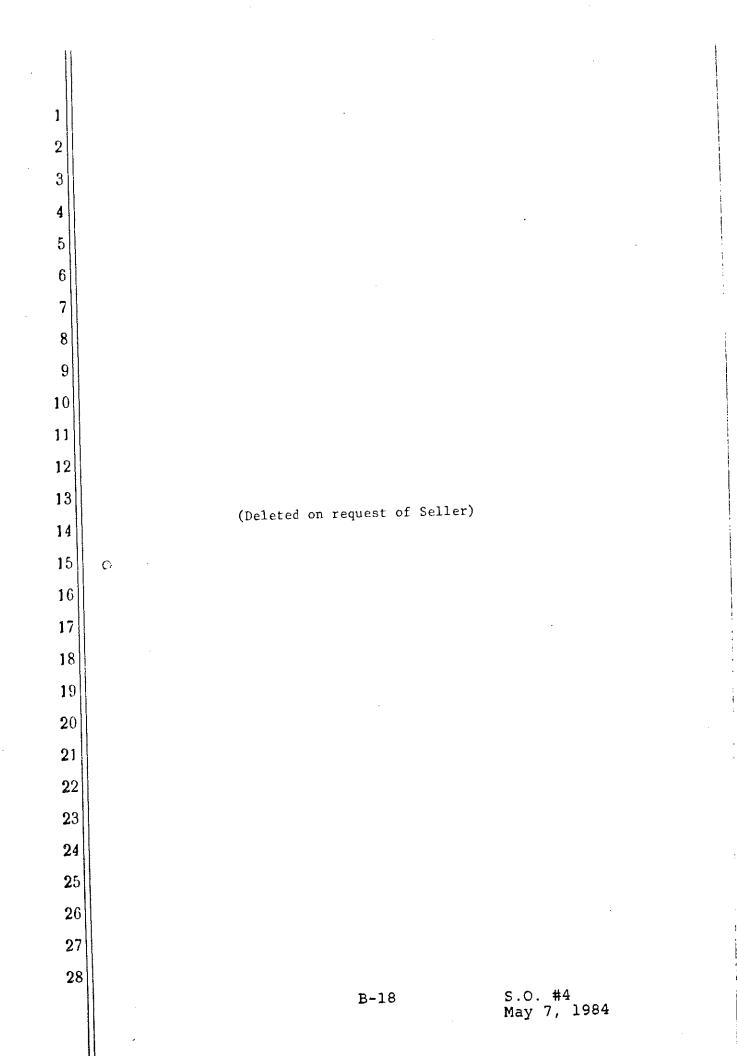
	I Š								
1									
					TABLE B-	2			
	1			Levelized	Energy Pri	ce Sched	lule		
	2	or a ter	m of agreeme	ent of 15-	16 years:				
	3								
		Year in Which							
	- 4 1	Energy		Torralize	d Energy Pi	rices*. (¢/kWh		Weighted
		Deliv- eries	P				Periou D	Off-Peak	Annual Average
	1	<u>Begin</u>	P On-Peak Par	tial-Peak	Off-Peak O	h-Peak P	artial-reak		
	-	1983	5.76	5.50	5.31	5.85	5.71 6.00	5.58 5.86	5.57 5.85
	7	1984	6.06	5.78	5.58	6.14 6.50	6.35	6.20	6.19
	8	1985	6.41	6.11	5.91	0.50			(()
		1986	6.85	6.54	6.32	6.95	6.79 7.30	6.63 7.13	6.62 7.12
	9	1987	7.37	7.03	6.79 7.34	7. 4 7 8.07	7.89	7.70	7.69
	10	1988	7.96	7.60		0.01			
	11	For a te	<u>rm of agreen</u>	nent of 17	-19 years:				
		Year in							
	12	Which			· ·				
	13	Energy		Loveli7	ed Energy H	rices*,	¢/kWh		Weighted
		Deliv- eries					υρχιρη κ	Off Deal	Annual
	14	Begin_	On-Peak Pa	rtial-Peak	Off-Peak (On-Peak	Partial-Peal	(UII-Pear	Average
	15		5.90	5.63	5.44	5.98	G 5.84	5.71	5.70
		1983 1984	6.23	5.95	5.74	6.32	6.18	6.03 6.38	6.02 6.37
	16	1985	6.60	6.30	6.08	6.69	6.53	0.50	
	17		7.06	6.73	6.51	7.16	7.00	6.83	6.82
		1986 1987	7.60	7.25	7.00	7.70	7.53	7.35 7.94	7.34 7.93
	18	1988	8.21	7.83	7.57	8.32	8.13	1.54	
	19	For a t	erm of agree	ement of 2	0-30 years:				
	20								
		Year in Which							
	21	Energy			zed Energy	Prices*	. €/kWh		Weighted
	22	Deliv-	4						Annual
	02	eries Begin_	On-Peak P	artial-Pea	k Off-Peak	On-Peak	Partial-Pea	ak <u>Off-Pea</u>	IK AVerage
	2 3	11		6.20	5.98	6.58	6.43	6.28	6.27
	24	1983 1984	6.49 6.90	6.58	6.35	6.99	6.83	6.67 7.10	6.66 7.09
	2 5	11 1005	7.34	7.00	6.76	7.44	7.27	1.10	
		11	7.88	7.51	7.26	7.99	7.81	7.62	7.61 8.20
	2 6	1986 1987	8.49	8.10	7.82	8.61	8.41 9.08	8.21 8.86	8.20 8.85
	27	11 1000	9.16	8.74	8.44	9.29	9.00	0.00	
			hese prices	and diff	Ferentiated	by the	time peri	ods as d	efined in
	28		hese prices able B-4.	are diff	B-13	-4	5.0. Ŧ	F4 .	
					U-10		May 7	1984	
		<u>{</u>]							











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	v			
5		TABLE B-4 ¹ Time Periods	i	
2		Monday	2	Sundays and
4		Friday ²	Saturdays ²	Holidays
5	Seasonal Period A (May 1 through Septembe	r 30)		
6	On-Peak	12:30 p.m. to		
7		6:30 p.m.		
8	Partial-Peak	8:30 a.m.	8:30 a.m. to	
9		to 12:30 p.m. 6:30 p.m.	10:30 p.m.	
10		to 10:30 p.m.		
11	Off-Peak	10:30 p.m.	10:30 p.m.	All Day
12		to 8:30 a.m.	to 8:30 a.m.	
13				
14	Seasonal Period B (October 1 through Apr	il 30)		
15	On-Peak	4:30 p.m.		
16		to 8:30 p.m.		
17	Partial-Peak	8:30 p.m.	8:30 a.m.	
18	ral clai i can	to 10:30 p.m.	to 10:30 p.m.	
19		8:30 a.m. to		
20		4:30 p.m.		
21	Off-Peak	10:30 p.m. to	10:30 p.m. to	All Day
22		8:30 a.m.	8:30 a.m.	
2 3		oject to change to ac	cord with the or	n-peak,
24		d off-peak periods as e sale of electricity	. Delluca tu toda	
25	customers.			
26		wing holidays: New M al Day, Independence		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
27	mbaskogiving Dav	al Day, Independence , and Christmas Day, S.C.A. Section 6103(a	as spectrice in	Public
28	Law 90~363 (5 U.	D.U.M. Dection oros(. , , -	
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	<i>у</i>			

TABLE B-5

ENERGY PRICES

Energy Prices Effective May 1 - July 31, 1984

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

	(a)	(b)	(c) Revenue Requirement	(d) Energy Purchase
Time Period	Incremental Energy Rate ¹ (Btu/kWh)	Cost of Energy ² (\$/10 [#] Btu)	for Cash Working Capital ³ (\$/kWh)	$\frac{(d) = [(a) \times (b)] + (c)}{(5/kWh)}$
May 1 - July 31 (Period A)				
Time of Delivery Basis:				
On-Peak	13,674	5,4152	0.00041	0.07446
Partial-Peak	12,665	5.4152	0.00038	0.06896
Off-Peak	10,119	5.4152	0.00033	0.05513
Seamonal Average (Period A)	11,538	5.4152	0.00036	0.06284

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

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

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3 Revenue Requirement for Cash Working Capital as prescribed by the <u>CPUC</u> 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 CFUC 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 CFUC in the future. The currently applicable energy loss adjustment factors are shown in Table C.

S.O, #4 May 7, 1984

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¢	1				
	1 2		TABLE B-6		
	3	Fneray Lo	ss Adjustment	Factors ¹	
	4			Primary.	Secondary
	5		Transmission	Distribution	Distribution
	6	Seasonal Period A (May 1 through September 30)			
	7	On-Peak	1.0 1.0	1.0 1.0	1.0148 1.0131
	8	Partial-Peak Off-Peak	1.0	1.0	1.0093
	9	Seasonal Period B (October 1 through April 30)			
	10	On-Peak	1.0	1.0	1.0128 1.0119
	11	Partial-Peak Off-Peak	1.0 1.0	1.0 1.0	1.0087
	12				
	13				
	14				
	15				с,
	16				
	17				
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	2 0				
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	2 3				
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	2 5				
	26				
	27 28	1 The applicable energy	loss adjustm he <u>CPUC</u> .	ment factors m	ay be revised
			B-21	S.O. #4 May 7, 19	984

1 APPENDIX C	
2 CURTAILMENT OPTIONS	
3	
4 Seller has two options regarding curtails	
5 deliveries and Seller has made its selection	in Article 7.
6 The two options are as follows:	
7	
8 CURTAILMENT OPTION A - HYDRO SPILL AND NEGATIVE AVOIDED 9	COST
10 (a) In anticipation of a period of	hydro spill
11 conditions, as defined by the <u>CPUC</u> , PGandE may	
12 that any purchases of energy from Seller duri	
13 shall be at hydro savings prices quoted b	
14 Seller delivers energy to PGandE during any	
15 Seller shall be paid hydro savings pric	
16 deliveries in lieu of prices which would	
17 applicable. The hydro savings prices shall be	e calculated by
18 PGandE using the following formula:	
19	
$\frac{AQF - S}{AQF} \times PP$	(≧0)
21	
22 where:	
23 AQF = Energy, in kWh, projected t	
24 during hydro spill condit:	
20 Qualitying 2000000	er agreements
26 containing hydro savings pr	ice provisions.
27	
28	
C-1 S.O. 4 May 7	* * , 1984

1	S = Potential energy, in kWh, from PGandE hydro
2	facilities which will be spilled if all AQF
3	is delivered to PGandE.
4	PP = Prices published by PGandE for purchases
5	during other than hydro spill conditions.
6	
7	PGandE shall give Seller notice of general periods when
8	hydro spill conditions are anticipated, and shall give
9	Seller as much advance notice as practical of any specific
10	hydro spill period and the hydro savings price which will be
11	applicable during such period.
12	
13	(b) PGandE shall not be obligated to accept or pay for
14	and may require Seller with a Facility with a nameplate
15	rating of one megawatt or greater to interrupt or reduce
16	deliveries of energy during periods when PGandE would incur
17	negative avoided costs (as defined by the <u>CPUC</u>) due to
18	continued acceptance of energy deliveries under this
19	Agreement. Whenever possible, PGandE shall give Seller
20	reasonable notice of the possibility that interruption or
21	reduction of deliveries may be required.
22	
23	(c) Before interrupting or reducing deliveries under
24	subsection (b), above, and before invoking hydro savings
2 5	prices under subsection (a), above, PGandE shall take
26	reasonable steps to make economy sales of the surplus energy
27	giving rise to the condition. If such economy sales are
28	made, while the surplus energy condition exists Seller shall

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S.O. #4 May 7, 1984

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

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If Seller is selling net energy output to PGandE 4 (d) and simultaneously purchasing its electrical needs from 5 PGandE and Seller elects not to sell energy to PGandE at the 6 hydro savings price pursuant to subsection (a) or when 7 PGandE curtails deliveries of energy pursuant to subsection 8 (b), Seller shall not use such energy to meet its electrical 9 needs but shall continue to purchase all its electrical 10 If Seller is selling surplus energy néeds from PGandE. 11 output to PGandE, subsections (a) or (b) shall only apply to 12 the surplus energy output being delivered to PGandE, and 13 Seller can continue to internally use that generation it has 14 retained for its own use. 15

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

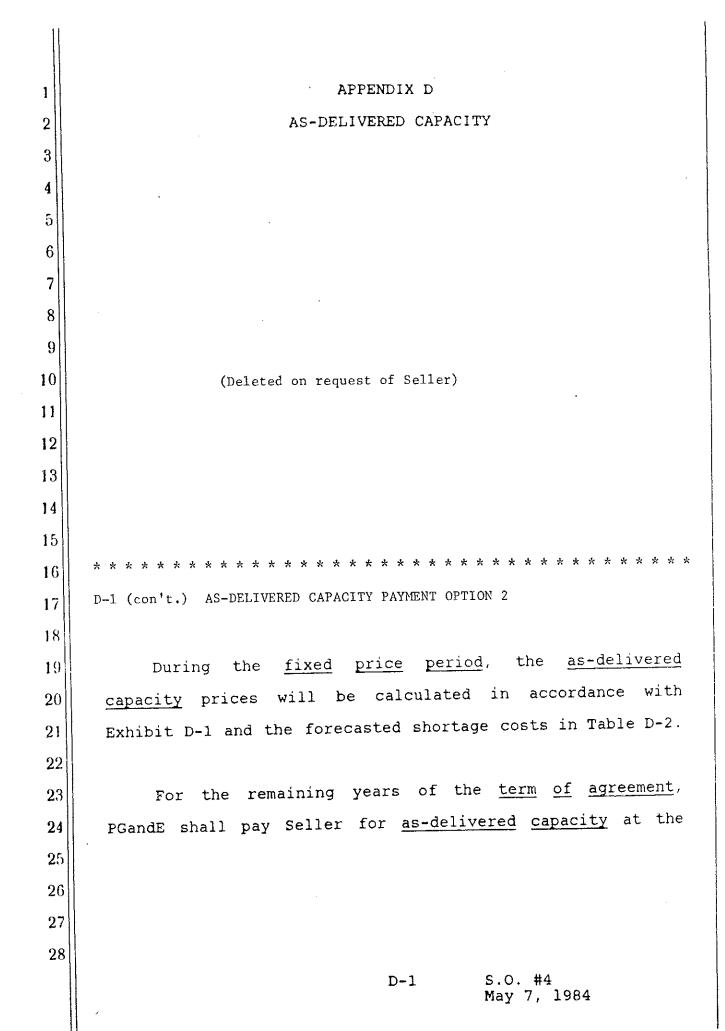
C-3

S.O. #4 May 7, 1984

replace Seller's energy with energy from this 1 can source at a cost less than the price paid to Seller; 2 3 when PGandE would incur negative avoided 4 (ii) defined by the CPUC) due to continued 5 (as costs acceptance of energy deliveries under this Agreement; 6 7 or 8 (iii) when PGandE is experiencing minimum system 9 10 operations. 11 During any of the conditions described above the 12 adjusted price may be zero. 13 14 shall give ^CSeller possible, PGandE (b) Whenever 15 any price adjustment for energy 16 reasonable notice of deliveries and its probable duration. 17 18 If Seller is selling net energy output to PGandE 19 (c) and simultaneously purchasing its electrical needs from **2**0 PGandE and Seller elects not to sell energy to PGandE at the 21 adjusted price, Seller shall not use such energy to meet its 22 electrical needs but shall continue to purchase all its 23 electrical needs from PGandE. 24 **2**5 (d) After Seller receives notice of the probable 26duration of the period during which the adjusted price will 27 be paid, Seller may elect to perform maintenance during such 28 C-4 S.O. #4

May 7, 1984

1	period and so inform the PGandE employee in charge at the
2	designated PGandE switching center prior to the time when
3	the adjusted price period is expected to begin. If Seller
4	makes such election, the number of off-peak hours of
5	probable duration quoted in PGandE's notice to Seller shall
6	be applied to the 1,000-hour calendar year limitation set
7	forth in this section. After an election to do maintenance,
8	if Seller makes any deliveries of energy during the quoted
9	probable duration period, Seller shall be paid the adjusted
10	price quoted in its notice from PGandE without regard to any
11	subsequent changes on the PGandE system which may alter the
12	adjusted price or shorten the actual duration of the
13	condition.
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	C-5 S.O. #4 May 7, 1984



1 higher of: 2 prices authorized from time to time by the 3 (i) 4 CPUC; 5 the as-delivered capacity prices that were 6 (ii) paid Seller in the last year of the fixed 7 price period; or 8 9 the as-delivered capacity prices in effect in 10 (iii) the first year following the end of the fixed 11 price period, provided that the annualized 12 shortage cost from which these prices are 13 derived does not exceed the annualized value 14 of a gas turbine. 15 16 AS-DELIVERED CAPACITY IN EXCESS OF FIRM CAPACITY 17 D-2 18 The amount of capacity delivered in excess of firm 19 capacity will be considered as-delivered capacity. This $\mathbf{20}$ as-delivered capacity is based on the total kilowatt-hours 21 delivered each month during all on-peak, partial-peak and 22 excluding any energy associated with 23 hours off-peak generation levels equal to or less than the firm capacity. 24 25 Seller has the two options listed in Section D-1 for 26 payment for such as-delivered capacity. Seller has made its 27 selection in Article 5. 28 S.O. #4 D-2

May 7, 1984

3 The as-delivered capacity price (in cents per kW-hr) 4 for power delivered by the Facility is the product of three 5 factors: 6 7 The shortage cost in each year the Facility (a) 8 Currently, this shortage cost is \$156 is operating. 9 per kW-year. 10 loss 11 adjustment (b) A capacity factor which 12 provides for the effect of the deliveries on PGandE's 13 transmission and distribution losses based on the 14 Seller's interconnection voltage level. The applicable 15 capacity loss adjustment factors for non-remote⁽⁾ 16 Facilities are presented in Table D-1(a). Capacity 17 loss adjustment factors for remote Facilities shall be 18 calculated individually. 19 20 (c) An allocation factor which accounts for the 21 different values of as-delivered capacity in different 22 time periods and converts dollars per kW-year to cents 231The current allocation factors are presented per kWh. 24 in Table D-1(b). The time periods to which they apply 25 are shown in Table B-4, Appendix B. The allocation $\mathbf{26}$ factors are subject to change from time to time. 27

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As defined by the <u>CPUC</u>.

D-3

S.O. #4 May 7, 1984

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2	TABLE D-1(a)
3	Capacity Loss Adjustment Factors
4	for Non-Remote ¹ Facilities
5	Voltage Level Loss Adjustment Factor
6	Transmission .989
7	Primary Distribution .991
8	Secondary Distribution .991
9	If the Facility is remote, the capacity loss adjustment
10	factor is to be provided upon completion of the interconnection studies
11	by PGandE and CPNational conducted at Seller's expense.
12	
13	TABLE D-1(b)
14	Allocation Factors for As-Delivered Capacity ³
15	(IOI AS-DELIVERED CAPACITY
16 17	$\frac{On-Peak}{(\not e-yr/\$-hr)} \frac{Partial-Peak}{(\not e-yr/\$-hr)} \frac{Off-Peak}{(\not e-yr/\$-hr)}$
18	Seasonal Period A .10835 .02055 .00002
19	Seasonal Period B .00896 .00109 .00001
20	
21	
2 2	1 As defined by the <u>CPUC</u> . The capacity loss adjustment factors for
2 3	remote Facilities are determined individually.
24	 Determined individually. 3 The units for the allocation factor, ¢-yr/\$-hr, are derived from
2 5	The units for the allocation factor, F-yr/5-m, are derived from the conversion of \$/kW-yr into \$/kWh as follows:
2 6	$\frac{\frac{\ell}{kWh}}{\frac{1}{5}/kW-yr} = \frac{\frac{\ell}{kW-hr}}{\frac{1}{5}/kW-yr} = \frac{\frac{\ell}{5}-yr}{\frac{1}{5}-hr}$
27 28	The allocation factors were prescribed by the <u>CPUC</u> in Decision No. 83-12-068 and are subject to change from time to time.
	D-4 S.O. #4 May 7, 1984

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1		TABLE D-2	
2		TABLE D-2	
3	Forecast	ted Shortage Cost S	chedule
4			
5	Veex	Forec	cast Shortage st, \$/kW-Yr
6	Year		70
7	1983 1984		76 81
8	1985		88
9	1986 1987 1988		95 102
10	1988		110
11	1989 1990 1991		118 126
12	1992		135
13	1993 1994		144 154
15	1995		164 176
16	1996 1997		188
17			
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28			S O #4
	X	D-5	S.O. #4 May 7, 1984

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2		APPENDIX E	
3		FIRM CAPACITY	
4			
5		CONTENTS	
6	Section		Page
7	E-1	GENERAL	E-2
8	E-2	PERFORMANCE REQUIREMENTS	E-2
9	E-3	SCHEDULED MAINTENANCE	E-4
10	E-4	ADJUSTMENTS TO FIRM CAPACITY	E-5
11	E- 5	FIRM CAPACITY PAYMENTS	E-6
12	E-6	DETERMINATION OF NATURAL FLOW DATA	E-12
13	E-7	THEORETICAL OPERATION STUDY	E-13
14	E-8	DETERMINATION OF AVERAGE DRY YEAR CAPACITY RATINGS	E-15
15	E-9	INFORMATION REQUIREMENTS	E-15
16	E-10	ILLUSTRATIVE EXAMPLE	E-16
17	E-11	MINIMUM DAMAGES	E-19
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		E-1 S.O. #4 May 7, 1984	

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1	APPENDIX E		
2	FIRM CAPACITY		
3			
4	E-1 GENERAL		
5			
6	This Appendix E establishes conditions and prices under		
7	which PGandE shall pay for firm capacity.		
8			
9	PGandE's obligation to pay for <u>firm</u> capacity shall		
10	begin on the firm capacity availability date. The firm		
11	capacity price shall be subject to adjustment as provided		
12	for in this Appendix E.		
13			
14	The firm capacity prices in Table E-2 are applicable		
15	for deliveries of <u>firm</u> capacity beginning after December 30, $^{ m O}$		
16	1982.		
17			
18	E-2 PERFORMANCE REQUIREMENTS		
19			
20	(a) To receive full capacity payments, the <u>firm</u>		
21	capacity shall be delivered for all of the on-peak hours ¹ in		
22	the peak months on the PGandE system, which are presently		
23	the months of June, July, and August, subject to a 20		
24	percent allowance for <u>forced</u> <u>outages</u> in any month.		
25	Compliance with this provision shall be based on the		
26	Facility's total on-peak deliveries for each of the peak		
27	· · · ·		
28	On-peak, partial-peak, and off-peak hours are defined in Table B-4, Appendix B. E-2 S.O. #4 May 7, 1984		

months and shall exclude any energy associated with generation levels greater than the <u>firm capacity</u>.

(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. <u>Firm capacity</u> payments will be calculated in the same manner used for scheduled maintenance outages.

meeting the from prevented Seller is (c) lf 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 Firm capacity payments will be calculated in requirements. same manner used for scheduled maintenance outages. the

(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 <u>firm</u> <u>capacity</u> pursuant to Section E-8. Seller shall warrant to PGandE that the <u>Facility</u> is a hydroelectric facility and that such conditions are the sole cause of Seller's inability to meet its <u>firm</u> <u>capacity</u> obligations.

E-3

S.O. #4 May 7, 1984

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(e) If Seller is prevented from meeting the performance requirements for reasons other than those described above in Sections E-2(b), (c), or (d):

(1) Seller shall receive the reduced <u>firm</u> <u>capacity</u> payments as provided in Section E-5 for a probationary period not to exceed 15 months, or as otherwise agreed to by the Parties.

(2) If, at the end of the probationary period Seller has not demonstrated that the <u>Facility</u> can meet the performance requirements, PGandE may derate the firm capacity pursuant to Section E-4(b).

E-3 SCHEDULED MAINTENANCE

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Outage periods for scheduled maintenance shall not 15 exceed 840 hours (35 days) in any 12-month period. This 16 allowance may be used in increments of an hour or longer on 17 nonconsecutive basis. Seller consecutive or may а 18 accumulate unused maintenance hours from one 12-month period 19 to another up to a maximum of 1,080 hours (45 days). This **2**0 accrued time must be used consecutively and only for major 21 Seller shall provide PGandE with the following overhauls. $\mathbf{22}$ advance notices: 24 hours for scheduled outages less than 23one day, one week for a scheduled outage of one day or more 24 (except for major overhauls), and six months for a major 25 Seller shall not schedule major overhauls during overhaul. $\mathbf{26}$ Seller the peak months (presently June, July and August). 27 shall make reasonable efforts to schedule or reschedule 28

> S.O. #4 May 7, 1984

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 8 hours of maintenance performed pursuant to Section (d) of 9 Curtailment Option B, Appendix C shall not be deducted from 10 Seller's scheduled maintenance allowances set forth above. 11

ADJUSTMENTS TO FIRM CAPACITY E-4 13

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Seller may increase the firm capacity with the (a) 15 approval of PGandE and receive payment for the additional 16 capacity thereafter in accordance with applicable the 17 capacity purchase price published by PGandE at the time the 18 increase is first delivered to PGandE. 19

Seller may reduce the firm capacity at any time (b) 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. $\mathbf{26}$

E-5

s.o. #4 May 7, 1984

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 firm capacity will be 7 the product of the Period Price Factor (PPF), the Monthly 8 Delivered Capacity (MDC), the appropriate capacity loss 9 adjustment factor from Table E-1 based on the Facility's 10 interconnection voltage, and the appropriate performance 11 bonus factor, if any, from Table E-3, plus any allowable 12 payment for outages due to scheduled maintenance. The firm 13 capacity price shall be applied to meter readings taken 14 during the separate times and periods as illustrated in 15 16Table B-4, Appendix B.

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

20		Allocation Factor	х	<u>Firm</u> Capacity Price	=	PPF (\$/kW-month)	
21		Allocution rubber				05.056	
22	Seasonal Period A	.18540		140		25.956	
23	Seasonal Period B	.01043		140		1.46	

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.

S.O. #4 May 7, 1984

The MDC is determined in the following manner: 1 (1) Determine the Performance Factor (P), which is 2 defined as the lesser of 1.0 or the following quantity: 3 4 $P = \frac{A}{C \times (B-S) \times (0.8^{*})}$ (≦ 1.0) 5 6 Where: 7 A = Total kilowatt-hours delivered during all on-peak 8 and partial-peak hours excluding any energy 9 associated with generation levels greater than the 10 firm capacity. 11 = Firm capacity in kilowatts. С 12 B = Total on-peak and partial-peak hours during the 13 month. 14 S = Total on-peak Cand partial-peak hours during the 15 month Facility is out of service on scheduled 16 maintenance. 17 18 (2) Determine the Monthly Capacity Factor (MCF), which 19 is computed using the following expression: 20 21 $MCF = P \times (1.0 - \frac{M}{D})$ 22 Where: **2**3 M = The number of hours during the month Facility is 24 out of service on scheduled maintenance. **2**5 D = The number of hours in the month. $\mathbf{26}$ 27 0.8 reflects a 20% allowance for forced outage. * 28 s.o. #4 E-7

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May 7, 1984

(3) Determine the MDC by multiplying the MCF by C: 1 (kilowatts) = MCF x C MDC 2 3 The monthly payment for firm capacity is then 4 determined by multiplying the PPF by the MDC, by the 5 appropriate capacity loss adjustment factor presented from 6 Table E-1, and by the appropriate performance bonus factor, 7 if any, from Table E-3. 8 9 performance capacity loss monthly payment х = PPF x MDC x bonus factor 10 adjustment factor for firm capacity 11 Furthermore, the payment for a month in which 12 there is an outage for scheduled maintenance shall also 13 include an amount equal to the product of the average hourly 14 firm capacity payment¹ for the most recent month in the same 15 type of Seasonal Period (i.e., Seasonal Period A or Seasonal 16 Period B) during which deliveries were made times the number 17 of hours of outage for scheduled maintenance in the current 18 Firm capacity payments will continue during the month. 19 outage periods for scheduled maintenance provided that the $\mathbf{20}$ provisions of Section E-3 are met. 21 22 a probationary period Seller's monthly During **2**3 determined by be capacity shall firm for payment 24 substituting for the firm capacity, the capacity at which 25 26Total monthly payment divided by the total number of hours in the $\mathbf{27}$ monthly billing period. $\mathbf{28}$ s.o. #4 E-8May 7, 1984

Seller would have met the performance requirements. In the 1 event that during the probationary period Seller does not 2 meet the performance requirements at whatever firm capacity 3 was established for the previous month, Seller's monthly 4 determined by be capacity shall firm for payment 5 substituting the firm capacity at which Seller would have 6 met the performance requirements. The performance bonus 7 factor shall not be applied during probationary periods. 8 9 10 TABLE E-1 11 12 If the Facility is non-remote¹ the firm capacity loss 13 adjustment factors are as follows: 14 15 Loss Adjustment Factor Voltage Level 16 .989 Transmission 17 .991 Primary Distribution 18 .991 Secondary Distribution 19 **2**0 If the Facility is remote the firm capacity loss adjustment 21 2 factor is 22 The above applicable firm capacity loss adjustment factor shall be **2**3 multiplied by such capacity loss adjustment factor with respect to losses 24 through the CPNational system as may from time to time be provided to 25 PGandE by CPNational. 26 As defined by the CPUC. 1 27Determined individually. 2 $\mathbf{28}$ S.O. #4 E-9 May 7, 1984

TABLE E-2

Firm Capacity Price Schedule

(Levelized \$/kW-year)

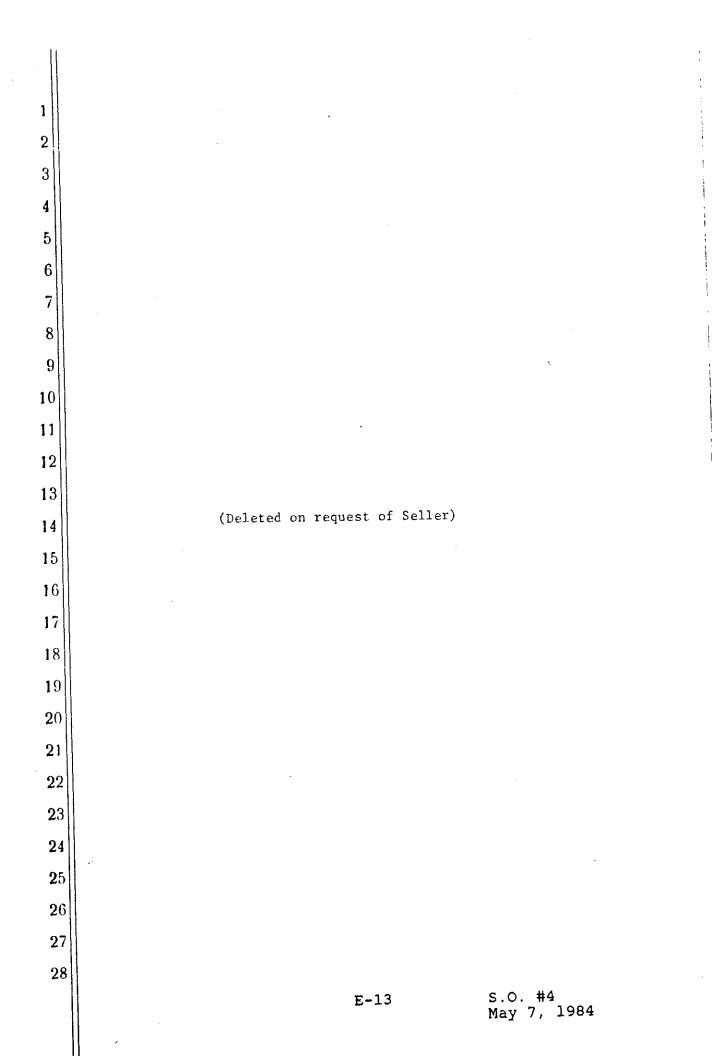
Firm Capacity Avail- ability Date						Numb	er of	Year	s of	Firm	Capac	<u>ity</u> D	elive	ry				
(Year)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	20	25	30
1982	65	68	70	72	75	77	79	81	84	86	88	90	91	93	95	103	109	113
1983	70	73	75	78	80	83	: 85	88	90	92	94	96	98	100	102	110	117	122
1984	76	78	81	84	86	89	92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

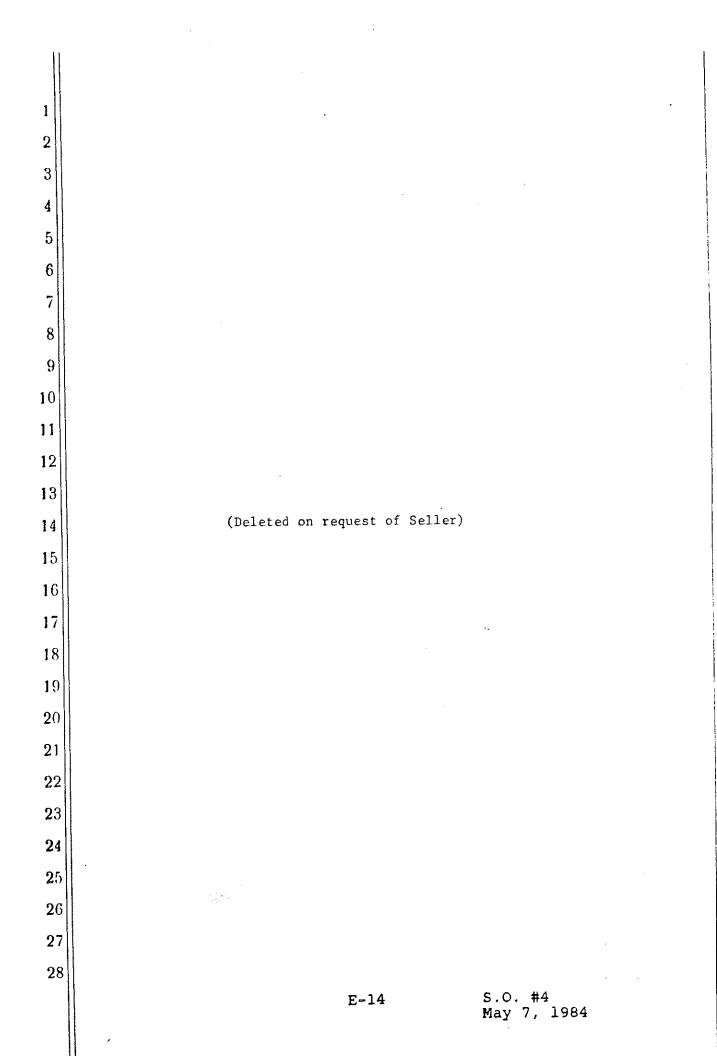
E-10

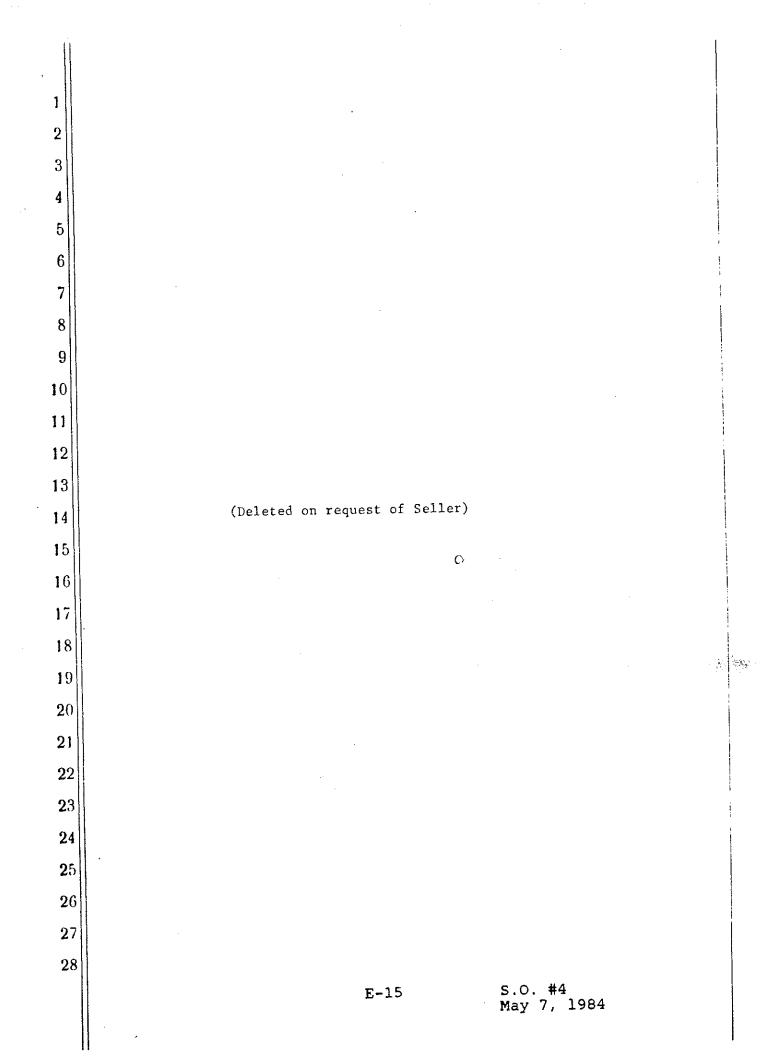
S.O. **#4** May 7, 1984

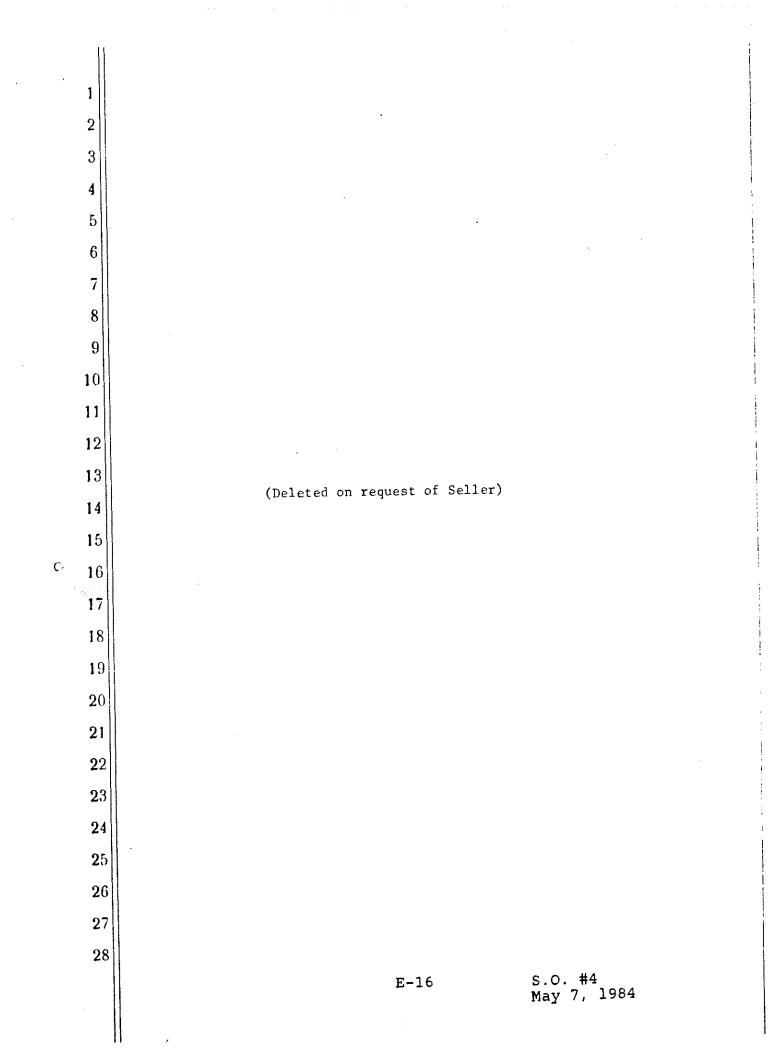
1	TABLE E-3
2	
3	Performance Bonus Factor
4	
5	The following shall be the performance bonus factors
6	applicable to the calculation of the monthly payments for
7	firm capacity delivered by the Facility after it has
8	demonstrated a firm capacity factor in excess of 85%.
9	
10	DEMONSTRATED FIRM CAPACITY FACTOR PERFORMANCE
11	(%) BONUS FACTOR
12	85 1.000 90 1.059
13	95 1.118 100 1.176
14	100 20201
15	After the Facility has delivered power during the span
16	of all of the peak months on the PGandE system (presently
17	June, July, and August) in any year (span),
18	
19	(i) the firm capacity factor for each such month shall
20	be calculated in the following manner:
21	
22	FIRM CAPACITY FACTOR (%) = $\frac{F}{(N-W) \times Q} \times 100$
23	
24	Where:
2 5	F = Total kilowatt-hours delivered by Seller in any peak month during all on-peak hours excluding any
26	energy associated with generation levels greater
27	
28	than the <u>firm</u> <u>capacity</u> . E-11 S.O. #4
	May 7, 1984

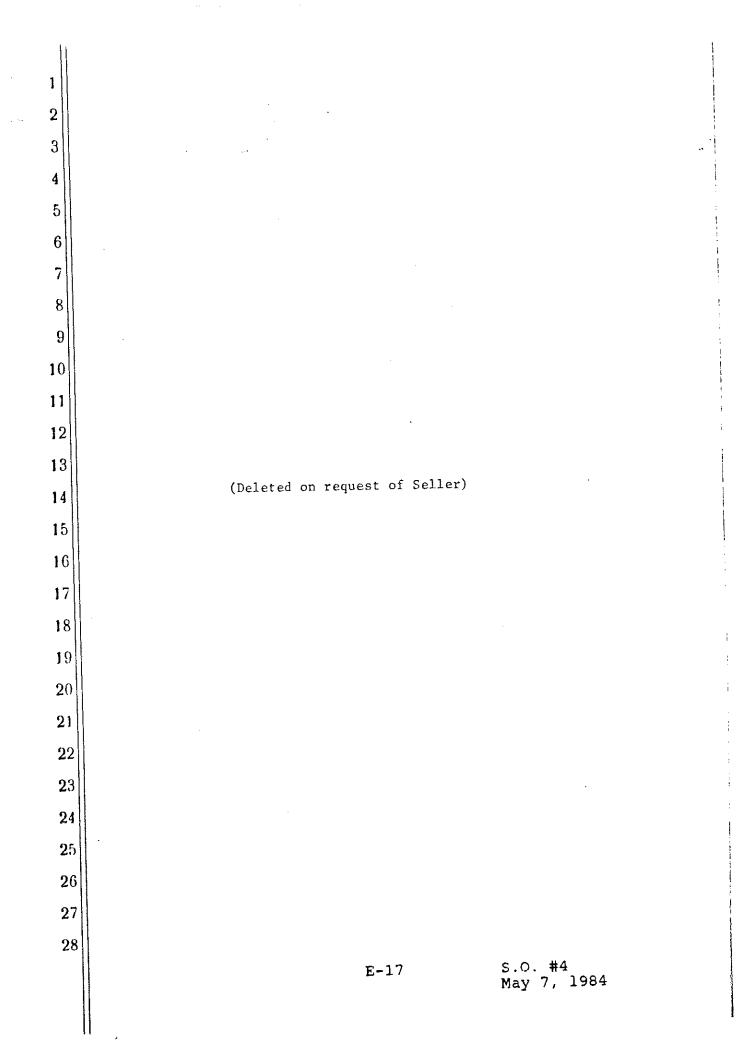
N = Total on-peak hours during the month. 1 W = Total on-peak hours during the peak month that the 2 scheduled of service on out 3 is Facility maintenance. 4 = Firm capacity in kilowatts. 5Q 6 (ii) the arithmetic average of the above firm capacity 7 factors shall be determined for that span, 8 9 (iii) the average of the above arithmetic average firm 10 capacity factors for the most recent span(s), not to exceed 11 5, shall be calculated and shall become the Demonstrated 12 13 Firm Capacity Factor. To calculate the performance bonus factor for a 14 Demonstrated Firm Capacity Factor not shown in Table E-3 use 15 the following formula: 16 17 Performance Bonus Factor = Demonstrated Firm Capacity Factor (%) 18 85% 19 $\mathbf{20}$ 21 * * * * * 22 2324 (Deleted on request of Seller) 252627 $\mathbf{28}$ s.o. #4 E-12 May 7, 1984

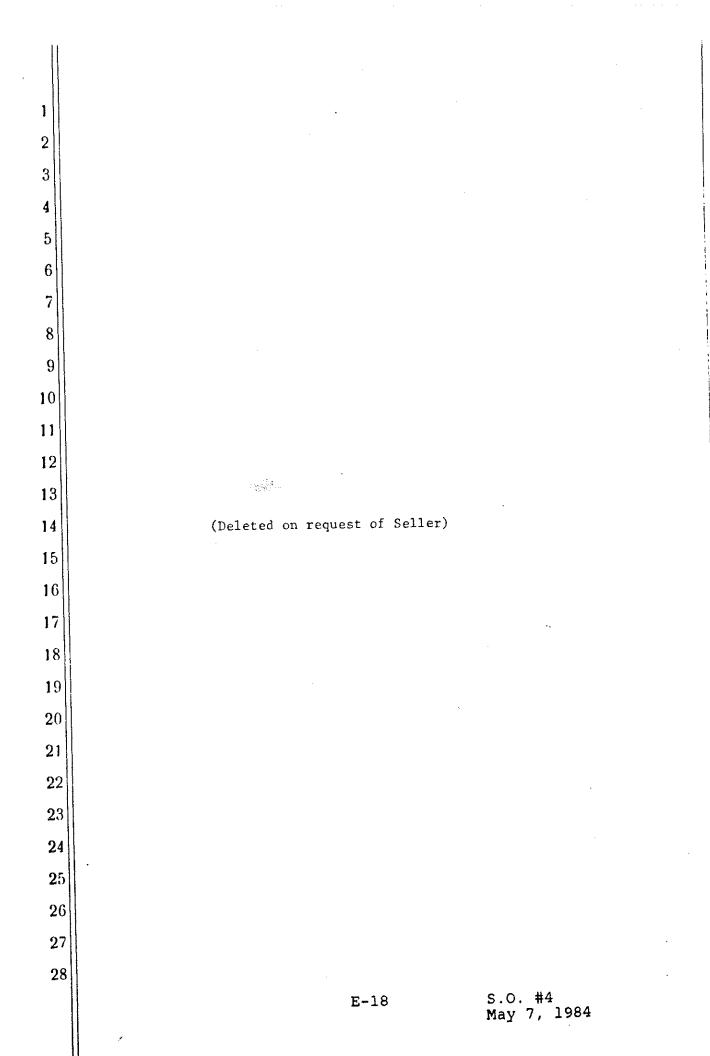












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E-11 MINIMUM DAMAGES

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2 3 In the event the firm capacity is derated or (a) Seller terminates this Agreement, the quantity by which the 4 firm capacity is derated or the firm capacity shall be used 5 to calculate the payments due PGandE in accordance with 6 7 Section (d). 8 (b) Seller shall be invoiced by PGandE for all amounts 9 due under this section. Payment shall be due within 30 days 10 11 of the date of invoice. 12 If Seller does not make payments pursuant to 13 (c) Section (b), PGandE shall have the right to offset any 14 amounts due it against any present or future payments due 15 16 Seller. 17 18 Seller shall pay to PGandE: (d) 19 difference

the 20 equal to amount (i) an between (a) the firm capacity payments already 21 paid by PGandE, based on the original term of 22 agreement and (b) the total firm capacity payments 23 which PGandE would have paid based on the period 24 of Seller's actual performance using the adjusted **2**5 firm capacity price. Additionally, Seller shall **2**6 pay interest, compounded monthly from the date the 27 excess capacity payment was made until the date 28

E-19

S.O. #4 May 7, 1984 Seller repays PGandE, on all overpayments, at the published Federal Reserve Board three months' Prime Commercial Paper rate; plus

 $\mathbf{5}$

(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

19	the set of Time Conscitu	
20	Amount of <u>Firm</u> <u>Capacity</u> <u>Terminated</u> or <u>Derated</u>	Factor
21	1,000 kW or under	0.25
22	over 1,000 kW through 10,000 kW	0.75
23	over 10,000 kW through 25,000 kW over 25,000 kW through 50,000 kW	1.00 3.00 4.00
24	over 50,000 kW through 100,000 kW over 100,000 kW	5.00
25		
26		
27		
28		
	E-20 S.O. #4 May 7, 1984	

1		APPENDIX F	
2	·		
3		INTERCONNECTION	
4		CONTENTS	
5			Paga
6	Section		<u>Page</u> F-2
7	F-1	INTERCONNECTION TARIFFS	F-3
8	F- 2	POINT OF DELIVERY LOCATION SKETCH	
9	F-3	INTERCONNECTION FACILITIES FOR WHI SELLER IS RESPONSIBLE	CH F-4
10			
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12			
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1	F-1	INTERCONNECTION TARIFFS
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3		(The applicable tariffs in effect at the time of
4		execution of this Agreement shall be attached.)
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25 26		
26 27		
27 28		
20		F-2 S.O. #4 May 7, 1984
		May 7, 1984

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1	F-2	POINT OF	DELIVE	RY	LOCATIC	N SK	ETC	CH		
2		The initia	l point	of	delivery	will	be	₩estwood	Meter	Station,
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1	F-3	INTERCONNECTION	FÀCILITIES	FOR	WHICH	SELLER	IS
. 2		RESPONSIBLE					
3		(To be completed upor	n execution of a	a Specia	l Facilit	ies	
4		Agreement.)					
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