

COUNCIL COMMUNICATION

TO: THE CITY COUNCIL
FROM: THE CITY MANAGER'S OFFICE

COUNCIL MEETING DATE:
AUGUST 2, 1989

SUBJECT: AGREEMENT BETWEEN PACIFIC GAS AND ELECTRIC COMPANY AND THE CITY OF LODI
PROVIDING FOR AN INTERCONNECTION POINT AT THE CITY OF LODI INDUSTRIAL
SUBSTATION, 5200 EAST SARGENT ROAD

RECOMMENDED ACTION: That the City Council authorize execution of the subject agreement.

BACKGROUND INFORMATION: The City entered into a "Letter of Intent for a New Interconnection Point" dated December 15, 1988 with PG&E which declared the intent of the parties to establish a new substation (Industrial Substation) to replace the existing interconnection point at Killelea Substation. This Letter of Intent called for a formal agreement document based upon the principles stated therein.

The subject Agreement represents the formal agreement of the parties. A substantial portion of the work proposed by PG&E has now been accomplished.

Funding for this approximately 5.5 million dollar project shall be obtained from retained earnings in the Rate Stabilization fund and the Electric Capital Outlay Fund as required.

A copy of the proposed agreement is on file in the City Clerk's office.


Henry J. Rice
Electric Utility Director

HJR:jj

CITY COUNCIL

JOHN R. (Randy) SNIDER, Mayor
DAVID M. HINCHMAN
Mayor Pro Tempore
EVELYN M. OLSON
JAMES W. PINKERTON, Jr.
FRED M. REID

CITY OF LODI

CITY HALL, 221 WEST PINE STREET
CALL BOX 3006
LODI, CALIFORNIA 95241-1910
(209) 334-5634
TELECOPIER : (209) 333.6795

THOMAS A. PETERSON
City Manager
ALICE M. REIMCHE
City Clerk
BOB McNATT
City Attorney

August 3, 1989

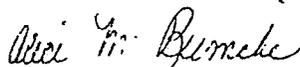
Mr. Garth Hall
Manager, Bulk Power Contracts
Pacific Gas and Electric Co.
77 Beale Street
San Francisco, CA 94106

SUBJECT: **New** Interconnection Point Agreement

Dear Mr. Hall:

Attached please find fully executed copy of the Agreement between Pacific Gas and Electric Company and the City of Lodi providing an interconnection point at the City of Lodi's industrial Substation which was approved by the Lodi City Council at its Regular Meeting of August 2, 1989.

Very truly yours,



Alice M. Reimche
City Clerk

ARM/jmr

cc: Henry J. Rice, Electric Utility Director
Robert H. Holm, Finance Director

Agreement

between

Pacific Gas and Electric Company

and the

City of Lodi

**Providing
an
Interconnection Point
at the
City of Lodi's
Industrial Substation**

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AGREEMENT
BETWEEN
PACIFIC GAS AND ELECTRIC COMPANY
AND THE
CITY OF LODI
PROVIDING AN INTERCONNECTION POINT
AT THE CITY OF LODI'S INDUSTRIAL SUBSTATION

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1 Redding, Roseville, Santa Clara, Ukiah, the Turlock Irrigation
2 District and by the Plumas-Sierra Rural Electric Cooperative, an
3 associate member.

4
5 D. PG&E and NCPA entered into an Interconnection Agreement
6 dated July 29, 1983 (Interconnection Agreement), by which PG&E
7 agreed to provide transmission service to each NCPA member. The
8 Interconnection Agreement provides that the point of
9 interconnection between the PG&E electric system and the Lodi
10 electric system would be at Lodi's Killelea Substation and that
11 electric capacity and energy transmitted to or from Lodi by PG&E
12 pursuant to the Interconnection Agreement would be delivered at
13 that point.

14
15 E. Electric capacity and energy are now delivered by PG&E at
16 the Killelea Substation over a single 60 kV circuit to Lodi's 60
17 kV bus. Because of load growth experienced by Lodi's electric
18 system, additional 60 kV bus capacity is now needed to relieve
19 the loading on that bus. Additional substation facilities,
20 transmission lines and transmission line modifications are needed
21 to enable PG&E to render safe and reliable transmission service
22 to Lodi under the terms of the Interconnection Agreement.

23
24 F. Lodi therefore proposes (a) to construct a new 60 kV
25 substation, the "Industrial Substation," (b) to construct or
26 cause to construct a new transmission tap line which will connect
27 PG&E's Lockeford-Lodi No. 2 transmission line to that substation,
28 (c) to make certain modifications to its existing 12 kV and 60

1 kV transmission lines, and (d) to pay for certain modifications
2 to PG&E's 60 kV transmission lines to accommodate the new
3 facilities.

4
5 **G.** PG&E is willing to enter into an agreement providing for the
6 new interconnection point to replace the existing interconnection
7 point and the other system modifications proposed by Lodi under
8 the terms and conditions herein set forth:

9
10 NOW, THEREFORE, the Parties hereto agree as follows:

11
12 **1. UPGRADES OF PG&E'S EXISTING 60 KV SYSTEM**

13 PG&E will at its expense construct, operate and maintain all
14 upgrades to its existing 60 kV transmission facilities needed to
15 **enable** it to render safe and reliable service to Lodi until
16 January 1, 2008.

17
18 1.1. PG&E will utilize Lodi's forecasts for Lodi's load
19 growth when developing or revising its plans for upgrades. A
20 copy of Lodi's latest forecast for its load **growth** until January
21 3, 2008 is attached hereto, marked "Exhibit A." **Lodi** shall
22 promptly notify PG&E of any changes in that forecast.

23
24 1.2. A description of the upgrades PG&E is now building
25 to satisfy the requirements of Section 1 of this Agreement and
26 an estimate of their costs is attached hereto, marked "Exhibit
27 B." PG&E will update Exhibit B upon completion of those
28 upgrades.

1
2 1.3. In order to insure and enhance the reliability of
3 its electric distribution system, Lodi reserves the right to
4 serve its load with resources internal to that electric
5 distribution system such as cogeneration facilities and
6 combustion turbines. Lodi shall include in the load growth
7 forecasts provided for in Section 1.1 of this Agreement its plans
8 for the development of such internal resources. PG&E shall not
9 charge Lodi any wheeling costs resulting from the operation of
10 such internal resources at times when these resources are
11 scheduled to serve internal load.
12

13 1.4. Lodi may at any time disconnect its electric system
14 from PG&E's electric system. If Lodi should so disconnect its
15 electric system prior to January 1, 2008, it will compensate PG&E
16 for the cost of the upgrades provided for in Section 1 of this
17 Agreement. The amount of such compensation shall be equal to
18 PG&E's actual cost of construction less; (a) depreciation from the
19 date of completion of the upgrades to the date of disconnection
20 calculated in the manner that the California Public Utilities
21 Commission calculates depreciation for ratemaking purposes and
22 (b) the salvage value of the upgrades as of the date of
23 disconnection. In addition, Lodi will reimburse PG&E for any
24 taxes assessed against PG&E as the result of PG&E's receipt of
25 the compensation provided pursuant to this Section.
26

27 1.5. PG&E shall remain connected to Lodi pursuant to this
28 Agreement provided that if either the NCPA Interconnection

1 Agreement and/or the WAPA 2948A agreement cease to be applicable,
2 PG&E shall be paid for services rendered to Lodi pursuant to a
3 filed tariff and/or an agreement to be negotiated and filed with
4 the FERC.

5
6 1.6. If Lodi disconnects its electric system from PG&E's
7 electric system pursuant to Section 1.4 of this Agreement, Lodi
8 may thereafter connect its electric system to the electric system
9 of any other entity. Lodi shall not remain electrically
10 connected to PG&E's electric system while Lodi is electrically
11 connected with the electric system of any other entity without
12 PG&E's advance written consent. Such consent shall not be
13 withheld unreasonably.

14
15 1.7. A description of future upgrades PG&E plans to build
16 to satisfy the requirements of Section 1 of this Agreement and
17 an estimate of their **costs** is attached hereto, marked "Exhibit
18 C". PG&E may change its plans from time to time to accommodate
19 changes in Lodi's load growth and current assumptions of both
20 parties. PG&E shall involve Lodi in PG&E's planning process and
21 will periodically update Exhibit C to reflect such plan changes.

22
23 1.8. If either Party should at any time conclude that
24 there is need for a study to determine whether the facilities
25 provided for in this Agreement are sufficient to enable PG&E to
26 render safe and reliable **service** to Lodi, it shall serve written
27 notice of its conclusion upon the other Party. If PG&E issues
28 or receives such written notice, it shall conduct such a study

1 id supply Lodi with a copy of that study. Lodi shall have the
2 ight to review and comment upon the draft of that study before
3 he study is made final.

4
5 **NEW PG&E SERVICE TO LODI'S INDUSTRIAL SUBSTATION**

6 PG&E will construct a new transmission tap line that will
7 onnect its Lockeford-Lodi No. 2 line to Lodi's new Industrial
8 ubstation and will make such modifications to its 60 kV system
9 s are made necessary by the new line. The new transmission tap
10 ine will be built according to PG&E construction standards for
11 L15 kV transmission lines. It shall be a wood pole line with
12 hree phase construction. PG&E will acquire the right-of-way
13 needed for the new transmission tap line. Lodi will compensate
14 PG&E for the cost of constructing the new transmission tap line
15 and the related modifications to PG&E's 60 kV system **and** for the
16 cost of acquiring the right-of-way needed for the new
17 transmission tap line. Lodi will own, operate and maintain the
18 new transmission tap line, including the right.-of-way on which
19 that line is located.

20
21 **2.1.** A description of the new transmission tap line and
22 of the related modifications referred to in this Section 2 and
23 an estimate of their costs is attached hereto, marked "Exhibit
24 D."

25
26 **2.2.** PG&E will submit its plans for the new transmissio:
27 tap line and for the modifications referred to in this Sectio
28 2 to Lodi for review as soon as those plans can be developed

1 PG&E shall not commence construction of the new transmission tap
2 line until Lodi has approved the plans for that line. Lodi shall
3 review the **plans** for the new line promptly and shall have the
4 right to modify those plans in any manner it deems appropriate;
5 provided, that the modifications shall comply with General **Order**
6 95 of the California Public Utilities Commission and be
7 consistent **with** Good Utility Practice. If Lodi does modify **the**
8 plans, PG&E shall construct the new transmission **tap** line on the
9 basis of the modified plans. PG&E shall design and construct the
10 new transmission tap line and the modifications referred to in
11 this Section 2 in accordance with Good Utility Practice as **that**
12 **term** is defined in this Agreement.

13
14 2.3. PG&E will acquire the right-of-way, **subject to its**
15 ability lawfully to do **so**, shown on Exhibit E, attached hereto,
16 and complete construction of the new transmission tap line and
17 **the** modifications referred to in this Section 2 on or before May
18 15, 1990, which is the date on which Lodi plans to complete
19 construction of the Industrial Substation so that it may be
20 placed in **service** on June 1, 1990.

21
22 2.4. Lodi shall pay PG&E, in accordance with Exhibit D,
23 advances of payments equal to PG&E's estimated quarterly costs
24 of designing and constructing the new transmission tap line.
25 Exhibit D shall contain a detailed breakdown of costs and a
26 payment schedule, both satisfactory to Lodi. Within 120 days
27 after completion of the construction, PG&E shall provide Lodi a
28 final accounting of cost associated with the new transmission tap

1 line and of the modifications referred to in this Section 2. A
2 subsequent adjustment for right-of-way may be made if such costs
3 are not known within 120 days of completion. Lodi shall have the
4 right to review the supporting documents upon which the costs are
5 determined up to two years after receipt of the final accounting.
6 If Lodi believes there are any errors in the determination of
7 such costs, Lodi shall pay the full amount of such costs and Lodi
8 and PG&E shall meet to review the supporting documents and agree
9 on the adjustments that may be appropriate.

10
11 2.5. PG&E shall acquire all right-of-way needed for the
12 construction of the new transmission tap line in accordance with
13 California Law, exercising the right of eminent domain if
14 necessary. PG&E shall not offer to, without approval from Lodi,
15 pay more for any portion of the needed right-of-way than the
16 amount determined by PG&E with Lodi's agreement to be the fair
17 market value of that portion of the right-of-way. PG&E shall
18 include, by assessors parcel number, its costs incurred in
19 acquiring the needed right-of-way in the statements it submits
20 to Lodi pursuant to Section 2.4.

21
22 2.6. Lodi agrees to provide PG&E with "joint pole use"
23 rights on the new transmission tap line referred to in this
24 Section 2 in the event PG&E needs to understring its own
25 distribution lines on the new transmission tap line; provided,
26 that PG&E shall not **serve** any electric load within Lodi's service
27 area except at Lodi's written request.
28

1 2.7. The Parties understand that the new transmission tap
2 line referred to in this Section 2 may need to be included in the
3 environmental review that Lodi conducts for its Industrial
4 Substation.

5
6 2.8. When construction of Lodi's Industrial Substation
7 and of the new transmission tap line and the system modifications
8 provided for in this Section 2 is complete and those facilities
9 are fully capable of being operated reliably and safely, the
10 Industrial Substation shall replace Lodi's Killelea Substation
11 as the point at which PG&E will supply Lodi with the services
12 provided for in the Interconnection Agreement, subject to the
13 acceptance for filing of an amendment of Exhibit A-4A of the
14 Interconnection Agreement by the Federal Energy Regulatory
15 Commission (FERC). PG&E shall promptly seek amendment of Exhibit
16 A-4A of the Interconnection Agreement to substitute Industrial
17 Substation for Lodi's Killelea Substation as the Substation
18 Delivery Point for Lodi designated in that exhibit. Not later
19 than 45 days after such amendment has been executed and delivered
20 by Northern California Power Agency (NCPA), but not later than
21 October 1, 1989, if NCPA does not execute the amendment, PG&E
22 shall file such amendment **for** acceptance by FERC. This change
23 of delivery point shall have no effect upon the determination of
24 transmission losses provided for in the Interconnection
25 Agreement.

26
27 2.9. Upon the payment by Lodi of all costs required by
28 this Agreement for the new transmission tap line and the

1 associated right-of-way, PG&E shall convey and assign its right,
2 title, and interest thereto to Lodi, by such recordable
3 instruments to which the Parties mutually agree, without any
4 further consideration.

5
6 **3. TERMINATION OF THE 60 KV TRANSMISSION LINES AT INDUSTRIAL**
7 **SUBSTATION**

8 PG&E's 60 kV Lodi-Lockeford No. '3 transmission line shall
9 be routed through, and the new transmission tap line referred to
10 in section 2 shall terminate on, structures owned by Lodi within
11 Lodi's new Industrial Substation. Lodi will install, own,
12 operate and maintain electric protection and relaying equipment
13 within that substation for all of those lines. The circuit
14 breakers connected with those lines at the Industrial Substation
15 will not be under PG&E's SCADA control.

16
17 **4. GENERAL PROVISIONS**

18
19 **4.1. Regulatory Authority**

20 This Agreement is subject to the jurisdiction of
21 those regulatory authorities having jurisdiction over the Parties
22 and this Agreement.

23 If it is determined that this Agreement must be
24 filed with the Federal Energy Regulatory Commission (FERC), PG&E
25 shall do so promptly after such determination, and shall
26 prosecute proceedings thereon diligently, and similarly to file
27 amendments, including revisions to the Exhibits, as they are
28 made. In such event, the Parties shall take all reasonable

1 action necessary to obtain approval by FERC of this Agreement in
2 its entirety and without change.

3 If this Agreement is filed with FERC, (1) PG&E shall
4 have all rights to seek unilateral rate changes as provided by
5 Section 205 of the Federal Power Act (FPA) and FERC rules and
6 regulations, and (2) Lodi shall have all rights to protest those
7 changes as provided by Sections 205 and 206 of the FPA and FERC
8 rules and regulations.

9
10
11 4.2. Effective Date And Term Of Agreement

12 This Agreement shall become effective on the date
13 it is fully executed by both Parties; provided, if it *is*
14 determined that this Agreement must be filed with FERC, PG&E's
15 obligations hereunder to perform services which are, or rates for
16 which are, subject to FERC jurisdiction, shall become effective
17 when this Agreement is permitted to **become** effective as a rate
18 schedule, and in such event the Parties shall urge FERC to adopt
19 an effective date as the date this Agreement was fully executed
20 by the Parties.

21 This Agreement shall remain effective until the
22 earlier of the date Lodi disconnects from PG&E as provided in
23 this Agreement or January 1, 2008.

24
25 4.3. Good Utility Practice

26 PG&E and Lodi shall carry out their obligations
27 under this Agreement in accordance with Good Utility Practice.
28 The term "Good Utility Practice," as used in this Agreement,

1 means those practices, methods and equipment, including levels
2 of reserves and provisions for contingencies, as modified from
3 time to time, that are at least as good as those commonly used
4 elsewhere in PG&E's service area to operate, reliably and safely,
5 electric power facilities to serve a utility's own customers
6 dependably and economically, with due regard for the conservation
7 of natural resources and the protection of the environment.

8
9 **4.4. Liability**

10
11 4.4.1. Nothing in this Agreement shall be
12 construed to create any duty to, any standard of care with
13 reference to, or any liability to any person not a Party.

14
15 4.4.2. A Party, its directors, Commissioners,
16 council members, officers, agents and employees, shall not be
17 liable to the other Party for damage to the system of such other
18 Party caused by an electric disturbance on the first Party's
19 system, or on the system of another, whether or not such electric
20 disturbance results from negligence of the first Party.

21
22 4.4.3. Except for its wilful action or with
23 respect to nonpayment of money due, neither Party shall be liable
24 to the other Party for any loss, damage, claim, cost, charge or
25 expense arising from performance or nonperformance under this
26 Agreement.

27
28 No Party shall be liable under this Agreement, for any special, indirect, incidental, consequential

1 or secondary damages, including, but not limited to, personal
2 injury or property damage, **loss of** use, loss of profits, loss of
3 revenues, replacement or disposal costs, debt service or rental
4 payments, power purchases, or contractual charges incurred by the
5 other Party or any third party.

6
7 **4.5. Indemnification**

8
9 4.5.1. Each Party as indemnitor shall **hold**
10 harmless and indemnify the other Party and the directors, council
11 members, officers, agents and employees of such other Party
12 against and from any and all **liability** for damages for **injuries**
13 to persons or damage to property, except as provided in
14 Subsection **4.4.2**, resulting from or arising out of the
15 engineering, design, construction, maintenance or operation of
16 or the making of replacements, additions or betterments to, the
17 indemnitor's facilities. None of the indemnity and hold harmless
18 provisions set forth in this paragraph shall apply to injuries
19 or damage arising from the sole negligence or willful misconduct
20 of the indemnitee, or the indemnitee's directors, commissioners,
21 council members, officers, employees, agents, or independent
22 contractors who are directly responsible to said indemnitee.

23
24 4.5.2. Each Party as indemnitor shall hold
25 harmless and indemnify the other Party and the directors,
26 commissioners, council members, officers, agents, employees and
27 independent contractors of such other Party from all claims by,
28 or liability to, any resale or ultimate consumer of the

1 indemnifying Party, for any loss, injury or damage occurring
2 within the boundaries o the service area of the indemnifying
3 Party resulting frcm an electric disturbance on such other
4 Party's system, whether or not such electric disturbance results
5 from negligence of such other Party. As used herein, the term
6 "ultimate consumer" means an electric customer to which **power** is
7 delivered for use and not for resale.

8
9 4.6. Uncontrollable Forces

10 Except as herein designated, neither Party shall be
11 liable to the other for failure to perform its obligations
12 hereunder, except for the obligation to make payment of money,
13 if such failure is due to strikes, lockouts, labor disturbances,
34 revocations of land rights, riots, war, acts of God, or the
15 public enemy, unavoidable accidents or other matters beyond
16 reasonable control of the Party so obligated, whether similar to
17 the matters herein enumerated or not. Nothing in this Agreement
18 shall require a Party to settle any strike or labor dispute or
19 to accept any term or condition of financing arrangements or
20 regulatory authority approvals which that Party deems
21 unreasonable or burdensome.

22
23 4.7. Time Is of Essence

24 The Parties agree that time is of the essence in
25 this Agreement.
26

1 4.8. Whole Agreement

2 This is the entire agreement between the Parties and
3 supersedes the Letter of Intent dated December 15, 1988, on the
4 subject of this Agreement.

5
6 4.9. No Warranty Provided

7 PG&E's work under this Agreement does not extend any
8 warranties or guarantees for such work, except that PG&E will
9 make provision to extend to Lodi third-party warranties **as**
10 provided in this Agreement. These provisions for warranties are
11 exclusive and are in lieu of all other warranties and remedies,
12 and all other rights and remedies at law or in equity, whether
13 statutory, express or implied, including, but not limited to,
14 warranties of merchantability or suitability or fitness for a
15 particular purpose or any other warranty of any **kind** or
16 description, and warranties arising from course of dealing or
17 usage of trade.

18
19 4.10. Third-Party Warranties

20 Promptly after completion of construction of the new
21 transmission tap line, PG&E shall assign to Lodi and Lodi shall
22 accept and have the benefit of the warranties of all
23 manufacturers, vendors and suppliers (third-party warranties),
24 and all patent, trademark and service mark rights, in connection
25 therewith. Such assignment(s) shall relieve PG&E of any further
26 obligation to Lodi for the items, materials or equipment covered
27 by those warranties. Lodi, upon such assignment(s), shall assume
28 any on-going obligations with regard to those third-party

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warranties.

4.11. Any notice, demand, information, report or request required, authorized or provided for in this Agreement shall be deemed properly given if delivered in person or sent by United States Mail, postage prepaid, to the persons specified below:

(a) To PG&E:

Vice President, Power Generation
Pacific Gas and Electric Company
77 Beale Street
San Francisco, California 94106

(b) To Lodi:

Electric Utility Director
City of Lodi
221 West Pine Street
Lodi, California 95240

Executed this 28th day of July, 1989.

CITY OF LODI

BY John R. Smith

Its _____ or _____

Attest: Marie M. Bismack
City Clerk

PACIFIC GAS AND ELECTRIC COMPANY

BY Robert D. Shyns
ITS VICE PRESIDENT - POWER GENERATION

and By John J. ...
Its Secretary

CITY OF LODI

ELECTRIC LOAD FORECAST (1989-2008)

Total for All Delivery Points

<u>Calendar</u> <u>Year</u>	<u>Maximum Yearly</u> <u>Demand</u> <u>(MW)</u>
1989	95.08
1990	97.35
1991	100.12
1992	102.95
1993	105.86
1994	108.86
1995	111.94
1996	115.12
1997	118.39
1998	121.76
1999	125.22
2000	128.79
2001	132.46
2002	136.23
2003	140.12
2004	144.13
2005	148.25
2006	152.49
2007	156.86
2008	161.35

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EXHIBIT B

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UPGRADES OF PG&E'S EXISTING 60 KV SYSTEM

Costs to Rebuild the Lockeford-Lodi No. 2 60 KV Line. This work is planned to be completed in 1989.

Approximate
cost
(± 30%,
1989 \$)

Category

Poles and Fixtures (Includes labor and material to replace approximately 100 poles and associated guys, crossarms, and other fixtures.)	\$135,000
Conductors and Devices (Includes labor and material to replace approximately 8 miles of 4/0 AL with 715.5 KCMIL AL conductor. Also included are insulators, switches, and associated devices. Note that this line is being over-installed to reduce insulator flashovers.)	702,000
Maintenance and Operating (Including switching, minor insulator replacements, resagging, and other work.)	15,000
Overhead Costs	<u>59,000</u>
± 30% Accuracy Net Cost =	<u>\$911,000</u>

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EXHIBIT C

Exhibit C

1. Costs to Rebuild the Lodi-Lodi Junction 60 kV Line. This work is planned to be done by mid-1990s.

Approximate
cost
(± 30%,
1989 \$)

Category

Poles and Fixtures (Includes labor and material to install and remove approximately 50 poles and associated guys, crossarms, and other fixtures.)	\$124,000
conductor and Devices (Includes labor and material to replace approximately 2.5 miles of 2/0 CU with 715.5 KCMIL AL conductor. Also included are insulators, switches, and associated devices. Note that this line is being overinsulated to reduce insulator flashovers.)	244,000
Maintenance and Operating (Including switching, minor insulator replacements, resagging and other work.)	11,000
Overhead Costs	25,000
± 30% Accuracy Net Cost =	\$404,000

2. Costs to Rebuild the Section of the Lockeford-Weber No. 1 60 kV Line from Lockeford Substation to Pole 2/1. This work is planned to be done in mid-1990s.

Approximate
cost
(± 30%,
1989 \$)

Category

Poles and Fixtures (Includes labor and material to replace approximately 51 poles and associated guys, crossarms, and other fixtures.)	\$ 34,000
Conductors and Devices (Includes labor and material to replace approximately 2.1 miles of 4/0 AL with 715.5 MCMIL AL conductor. Also included are Insulators, switches, and associated devices. Note that this line is being overinsulated to reduce insulator flashovers.)	167,000
Maintenance and Operating (Includes switching and miscellaneous minor maintenance work.)	1,000
Overhead Costs	16,000
± 30% Accuracy Net Cost =	<u>\$218,000</u>

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EXHIBIT D

NEW PG&E SERVICE TO INDUSTRIAL SUBSTATION

EXHIBIT D

NEW PG&E SERVICE TO INDUSTRIAL SUBSTATION

I. COST BREAKDOWN FOR NEW ADDITIONS AND MODIFICATIONS TO PG&E'S 60 KV SYSTEM

<u>COST CATEGORY</u>	<u>COST ESTIMATES (+/- 10%)</u>
LAND AND LAND RIGHTS	\$ 270000
TRANSMISSION	\$ 119000
DISTRIBUTION	\$ 5000
SUBSTATION	\$ 26000
ENGINEERING	\$ 0000
TRAVEL LABOR	\$ 3000
REMOVAL	\$ 3000
M&O (MISC.)	\$ 7000
ESCLATION	\$ 18000
OVERHEAD	\$ 51000

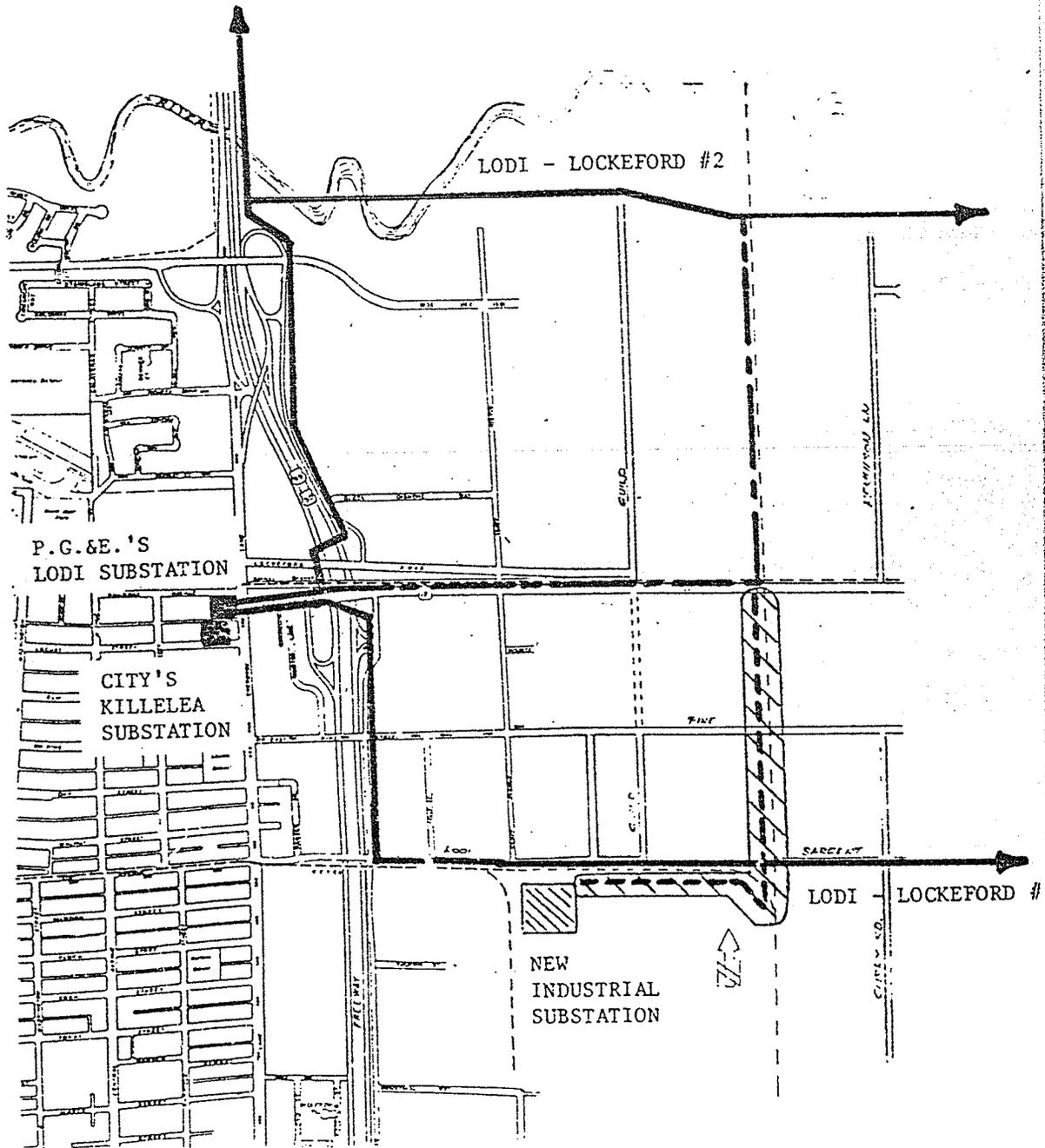
GROSS FINANCIAL COST	\$ 508000
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SALVAGE	\$ 3000

NET FINANCIAL COST	\$ 505000
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II. LODI'S QUARTERLY PAYMENT

<u>PAYMENT DATE</u>	<u>AMOUNT</u>	<u>MAJOR ACTIVITIES</u>
03/18/89	\$ 15,000 (PD)	FEASIBILITY STUDY
08/15/89	\$ 200,000	ENGINEER, ORDER LONG LEADTIME MATERIAL AND PROCURE LAND
11/15/89	\$ 150,000	ENGINEER. PROCURE LAND AND MATERIAL
02/15/90	\$ 140,000	CONSTRUCTION

EXHIBIT "E"



LEGEND :

-  EXISTING P.G.&E. 60 KV CIRCUIT
-  NEW BRANCH OF P.G.&E.'S LODI-LOCKEFORD #2, 60 KV CIRCUIT
-  NEW TRANSMISSION TAP LINE
-  AREA @ I SEN TRANSMISSION TAP LIKE RIGHT-OF-WAY