# DISTRICT ETIWANDA POWER PLANT CAPACITY AND ENERGY SALE CONTRACT

### BETWEEN

# THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

AND

PACIFIC GAS & ELECTRIC COMPANY

MWD AGREEMENT NO. 4273

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1	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
2	and
3	PACIFIC GAS & ELECTRIC COMPANY
4	
5	This Contract is entered into the 18th day of
6	January , 1994, between The Metropolitan Water District
7	of Southern California ("District"), a governmental entity
8	organized under the laws of the State of California, and Pacific
9	Gas and Electric Company ("PG&E"), a California corporation, for
10	the sale of Capacity and Energy generated at District's Etiwanda
11	Power Plant.
12	RECITALS
13	Whereas, pursuant to Sections 137 and 138 of the
14	Metropolitan Water District Act (Stats. 1969, Ch. 209, as
15	amended), District proposes to construct, operate and maintain
16	the Project for the purposes set forth therein including
17	providing, selling, and delivering hydroelectric power therefrom;
18	and
19	Whereas, PG&E desires to purchase the Capacity and
20	Energy generated at the Project; and
21	Whereas, District has executed the Interconnection
22	Agreement with Southern California Edison Company ("Edison") for
23	the engineering, design, procurement, construction, operation and
24	maintenance of Interconnection Facilities connecting the Project
25	with Edison's electrical system; and

- 1 Whereas, PG&E has made arrangements to enter into the
- 2 Generation Exchange Contract with the California Department of
- 3 Water Resources ("DWR") for the exchange of power generated by
- 4 the Project, which power shall be transmitted through the
- 5 electrical system of Edison; and
- 6 Whereas, PG&E and District have made arrangements to
- 7 enter into the Transmission Service Agreement with Edison for the
- 8 transmission of power generated at the Project; and
- 9 Whereas, District's obligation to use its water
- 10 distribution system to deliver water to its member public
- 11 agencies shall have priority over any entitlement granted herein
- 12 for PG&E's use of the Capacity and Energy generated at the
- 13 Project;
- Now, therefore, in consideration of the premises and
- 15 the mutual covenants contained herein, District and PG&E desire
- 16 to effect such sale of Capacity and Energy in accordance with the
- 17 terms and conditions provided herein.
- 18 AGREEMENT
- 19 1. DEFINITIONS.
- The following terms when initially capitalized and used
- 21 herein and in the Exhibits attached hereto, whether in singular
- 22 or plural, shall have the following meanings:
- 23 a. Authorized Representative: The representative of
- 24 a Party designated in accordance with Section 7 hereof.
- b. Capacity: Rate of delivery of Energy from the
- 26 Project expressed to the nearest megawatt (MW).

- 1 c. Commercial Operation Date: The first date
- 2 following the In-Service Date by which the Project has passed all
- 3 testing procedures and is placed into commercial operation as
- 4 confirmed by letter from District to PG&E at least one week in
- 5 advance. Said Commercial Operation Date at time of execution of
- 6 this Contract is estimated to be April 1, 1994.
- 7 d. Contract: This District Etiwanda Power Plant
- 8 Capacity and Energy Sale Contract, including Exhibits A, B and C
- 9 attached hereto, as it may be amended from time to time by mutual
- 10 agreement of District and PG&E. Any amendment must be in writing
- 11 and executed by both Parties.
- e. Energy: Electric energy generated at the Project
- 13 which is measured to the nearest megawatt-hour (MWH).
- f. Generation Exchange Contract: The District
- 15 Etiwanda Power Plant Generation Exchange Contract between PG&E
- 16 and DWR for exchange of the Capacity and Energy generated at the
- 17 Project, as such contract may be amended from time to time. Such
- 18 contract is hereby incorporated by reference as part of this
- 19 Contract.
- 20 g. Interconnection Agreement: The District Etiwanda
- 21 Power Plant Interconnection Facilities Agreement between
- 22 District and Edison for the engineering, design, procurement,
- 23 construction, operation and maintenance of Interconnection
- 24 Facilities connecting the Project with Edison's electrical
- 25 system, as such agreement may be amended from time to time. Such

- 1 agreement is hereby incorporated by reference as part of this
- 2 Contract.
- h. In-Service Date: The first date by which (1) the
- 4 Project begins generating power and (2) the Interconnection
- 5 Facilities are energized, as notified by letter from District to
- 6 PG&E at least one week in advance. The estimated In-Service Date
- 7 at the time of execution of this Contract is March 1, 1994.
- i. Interconnection Facilities: The equipment and
- 9 facilities required to form a connection of the Project with
- 10 Edison's electric system and through which District delivers
- 11 power to Edison for transmission to PG&E or to DWR on PG&E's
- 12 account.
- j. Operating Procedures: The Operating Procedures
- 14 implementing the scheduling and accounting procedures among
- 15 District, PG&E, Edison and DWR for the Project Capacity and
- 16 Energy, as such Operating Procedures may be amended from time to
- 17 time. Such Operating Procedures are hereby incorporated by
- 18 reference as part of this Contract.
- 19 k. Party: District or PG&E, or, when used in the
- 20 plural, District and PG&E.
- 21 l. Point of Interconnection: The point of connection
- 22 of the Project with Edison's electrical system located at the
- 23 high voltage bus bar of the switching station at the Project.
- 24 m. Project: District's Etiwanda Power Plant. Its
- 25 location is shown in Exhibit C attached hereto.

- n. Project Capacity and Energy: The capacity and
- 2 energy generated at the Project.
- o. Seasons:
- 4 (1) Spring: The period within a calendar year
- 5 consisting of the first day of April through the last day of
- 6 June.
- 7 (2) Non-Spring: The period within a calendar
- 8 year consisting of all days not specifically included in the
- 9 definition of Spring.
- 10 p. Time-of-day Periods:
- 11 (1) On-peak: For the first day of March through
- 12 the last day of October, 08:00 18:00, Monday through Friday,
- 13 excepting Holidays; for the first day of November through the
- 14 last day of February, 07:00 12:00 and 17:00 22:00, Monday
- 15 through Friday, excepting Holidays.
- 16 (2) Off-peak: All hours not specifically
- 17 included in the definition of On-peak.
- 18 (3) Holidays: Shall consist of New Year's Day,
- 19 President's Day, Memorial Day, Independence Day, Labor Day,
- 20 Veterans' Day, Thanksgiving Day and Christmas Day. When any
- 21 Holiday falls on a Sunday, the following Monday will be
- 22 recognized as an Off-Peak period. When a holiday falls on a
- 23 Saturday no recognition of an additional Off-Peak day shall be
- 24 made.
- 25 q. Transmission Service Agreement: The District
- 26 Etiwanda Power Plant Transmission Service Agreement between

- 1 PG&E, Edison and District governing transmission and related
- 2 services provided by Edison for the Project Capacity and Energy,
- 3 as such agreement may be amended from time to time. Such
- 4 agreement is hereby incorporated by reference as part of this
- 5 Contract.
- 6 2. EFFECTIVE DATE AND TERM OF THE CONTRACT.
- 7 a. This Contract shall become effective upon the
- 8 first date by which the In-Service Date is achieved and the
- 9 Generation Exchange Contract, the Interconnection Agreement, and
- 10 the Transmission Service Agreement are all in force and effect.
- 11 b. This Contract shall remain in full force and
- 12 effect for a period of not less than twenty (20) years, unless
- 13 terminated earlier pursuant to subsections 2.d. or 2.e. below or
- 14 subsection 8.b. If this Contract is not terminated within twenty
- 15 (20) years of its effective date, it subsequently may be
- 16 terminated by either Party upon six (6) months' prior notice to
- 17 the other.
- 18 c. Subsequent to the fifth year anniversary of the
- 19 effective date of this Contract, either Party may initiate
- 20 renegotiation of the Contract upon three (3) months' prior notice
- 21 to the other, if any of the following conditions has occurred:
- 22 (1) District may initiate renegotiation of the
- 23 Contract if it receives a verifiable offer to purchase the
- 24 Project Capacity and Energy, which offer is projected to exceed
- 25 by thirty percent (30%) or more of PG&E's then-current payments
- 26 to District for its sale of the Project Capacity and Energy.

- 1 PG&E shall be given reasonable access to all necessary records
- 2 and other pertinent material in the custody or control of
- 3 District for the purpose of auditing the basis for renegotiation
- 4 herein.
- 5 (2) PG&E may initiate renegotiation of the
- 6 Contract under one or more of the following conditions and shall
- 7 give District reasonable access to all necessary records and
- 8 other pertinent material in the custody or control of PG&E for
- 9 the purpose of auditing the basis for renegotiation herein:
- 10 (i) PG&E's total annual energy sales to its
- 11 commercial and industrial customers for the prior twelve months,
- 12 as shown in PG&E's Uniform Monthly Fuels and Operations Report
- 13 filed with the California Public Utilities Commission ("CPUC"),
- 14 or successor report or equivalent source of information, are less
- 15 than a benchmark of 43,000 gigawatt-hours.
- 16 (ii) PG&E's payments for the Project Capacity and
- 17 Energy are projected to exceed by thirty percent (30%) or more of
- 18 PG&E's then-projected value of an equivalent amount of Capacity
- 19 and Energy available from another source, measured against any
- 20 of, but not limited to, the following measures of PG&E's capacity
- 21 and energy value or avoided cost:
- 22 (a) Projected cost of any new generation
- 23 resource available for the remaining term and capable of a
- 24 capacity factor of at least seventy-five percent (75%) that PG&E
- 25 represents to be available to PG&E;

- 1 (b) Forecast of payments that PG&E
- 2 represents to be available from PG&E to a similar power facility
- 3 providing similar amounts of Project Capacity and Energy for the
- 4 remaining term of the Contract;
- 5 (c) The value of the Project Capacity and
- 6 Energy as determined using cost-effectiveness testing that PG&E
- 7 represents to be consistent with methods commonly used by PG&E;
- 8 or
- 9 (d) Power production marginal cost
- 10 projections for long-term capacity and energy provided by PG&E in
- 11 a General Rate Case at the CPUC, or successor proceeding.
- d. Either Party may terminate the Contract with three
- 13 (3) months' prior notice to the other if the conditions for
- 14 renegotiation of the Contract under subsection 2.c. are met and a
- 15 mutually agreeable amendment of this Contract is not executed
- 16 within a year of the commencement of renegotiation.
- e. The Parties will use good faith efforts to renew or
- 18 to replace the Generation Exchange Contract, the Interconnection
- 19 Agreement, or the Transmission Service Agreement if for any
- 20 reason any of these agreements terminates prior to the
- 21 termination of this Contract. If the Parties fail to renew or to
- 22 replace the above-referenced contract and/or agreements, then
- 23 this Contract will terminate on the date coinciding with the
- 24 earliest termination date of any of the referenced contract
- 25 and/or agreements.

- 1 3. DELIVERY, SCHEDULING AND ESTABLISHING DWR CONTROL
- 2 AREA.
- 3 a. District shall deliver Energy to the Point of
- 4 Interconnection for transmission by Edison and exchange with DWR
- 5 pursuant to the terms and conditions of the Transmission Service
- 6 Agreement and the Generation Exchange Contract, respectively.
- 7 Subject to the conditions specified in Section 6 hereof, District
- 8 shall dedicate to PG&E, and PG&E shall purchase from District,
- 9 all scheduled Project Capacity and Energy up to a maximum of 24
- 10 MW.
- 11 b. District shall schedule the Project Capacity and
- 12 Energy with DWR, Edison and PG&E pursuant to the Operating
- 13 Procedures.
- 14 c. District's schedules of Energy shall not exceed 24
- 15 MWH in any one hour.
- d. District represents that Exhibit A is a good
- 17 estimation of the typical output of the Project over the
- 18 long-run. Beginning in calendar year 1995, and each calendar
- 19 year thereafter, Exhibit A shall be subject to adjustment
- 20 annually based on historical generation from the Project as
- 21 follows: The Exhibit A values for each month in such year shall
- 22 be adjusted based on the ratio of: (1) the sum of the actual
- 23 Energy output for the Non-Spring months during the previous
- 24 calendar years of operation (not to exceed five (5) years) and
- 25 (2) the corresponding unadjusted sum of Non-Spring months from
- 26 the original Exhibit A; provided, however, that the ratio shall

- 1 not exceed one (1.0). This sequence shall continue until five
- 2 (5) years of historical data are available for such adjustment
- 3 and then the calculation for the adjustment shall be based on a
- 4 rolling five-years of historical data. In all cases, each such
- 5 adjusted number shall not exceed the original Exhibit A number
- 6 provided by District at the time of the Contract's execution.
- 7 e. District shall notify PG&E by January 31 of each
- 8 year, starting in 1995, of: (1) the actual generation from the
- 9 previous calendar years on a monthly basis; (2) the adjustment
- 10 calculation for that year, pursuant to Section 3.d; and (3) the
- 11 adjusted Exhibit A values to be used for billing purposes in the
- 12 Exhibit B calculation for that year. Additionally, District
- 13 shall provide PG&E with a ten (10) year forecast of Project
- 14 monthly generation solely for PG&E's planning purposes. Such
- 15 forecast shall be based upon the best information then available
- 16 to District; District's actual generation may vary from that
- 17 forecast.
- 18 f. PG&E's obligations under this Contract shall not
- 19 be affected by any schedule adjustments made pursuant to Sections
- 20 6.3 through 6.6 of the Generation Exchange Contract.
- g. In the event DWR wishes to establish its own
- 22 control area as that term is defined in the Generation Exchange
- 23 Contract, and dynamically schedule the Project Capacity and
- 24 Energy as contemplated in Section 10 of the Transmission Service
- 25 Agreement, PG&E shall consult with District on the negotiations
- 26 with DWR pursuant to Section 5.5 of the Generation Exchange

- 1 Contract. PG&E shall endeavor to negotiate with DWR all
- 2 obligations for regulating services, metering, and operations
- 3 similar to the provisions negotiated with Edison under the
- 4 Transmission Service Agreement.

### 5 4. OPERATION AND MAINTENANCE.

- 6 a. Subject to Section 6, District will make every
- 7 reasonable effort in District's judgment and in accordance with
- 8 prudent utility practice (1) to meet the estimates of power
- 9 generation provided in Exhibit A attached hereto and incorporated
- 10 herein, and (2) to maximize the delivery of power to the Point of
- 11 Interconnection during all Non-Spring On-peak hours.
- b. District will operate and maintain the Project in
- 13 accordance with prudent utility practice.
- c. District will, whenever possible, perform all
- 15 scheduled maintenance during the Spring. District will use every
- 16 reasonable effort, consistent with prudent utility practice, to
- 17 limit annual maintenance to less than 500 hours.

### 18 5. PAYMENTS AND BILLING.

- a. PG&E shall make monthly lump sum payments to
- 20 District for Capacity and Energy in accordance with the formula
- 21 contained in Exhibit B attached hereto and incorporated herein.
- 22 PG&E shall furnish to District the most recent version of the
- 23 "Energy Prices for Qualifying Facilities" as described in
- 24 Exhibit B. In addition, by January 1 of each year, PG&E shall
- 25 provide District with the most recent version of the "Gross

- 1 Domestic Product Implicit Price Deflater" as described in Exhibit
- 2 В.
- 3 b. Any equipment modifications required at the
- 4 Project due to DWR's establishment of a control area are the
- 5 financial obligation of the District.
- 6 c. Bills for Capacity and Energy charges for each
- 7 calendar month shall be mailed to PG&E by District no later than
- 8 the tenth (10th) day of the next succeeding calendar month.
- 9 d. Bills shall be submitted by District to PG&E at
- 10 the following address:
- 11 Pacific Gas & Electric Company
- 12 Director of Power Finance, B13D
- 13 77 Beale Street, Room 1311
- 14 P.O. Box 770000
- San Francisco, California 94177
- e. PG&E shall mail payments for Capacity and Energy
- 17 to District at the following address:
- 18 The Metropolitan Water District of
- 19 Southern California
- 20 Attention: Reimbursable/Taxes Section
- P.O. Box 54153, Terminal Annex
- Los Angeles, California 90054-0153
- f. PG&E's payments for Capacity and Energy shall be
- 24 due twenty (20) calendar days after its receipt of the billing
- 25 invoice. Amounts not paid when due shall thereafter bear a
- 26 charge of eighteen percent (18%) per annum, or the maximum legal
- 27 rate of interest, whichever is less, of the unpaid balance
- 28 prorated by days until payment is made. Remittances received by
- 29 mail will be accepted without assessment of such charge provided

- 1 the postmark indicates the payment was mailed to the correct
- 2 address on or before the due date.
- 3 6. PRIORITY OF DISTRICT'S WATER REQUIREMENTS.
- 4 District's obligation to use its water distribution
- 5 system to deliver water to its member agencies shall have
- 6 priority over electric generation at the Project. However,
- 7 subject to the need to make such deliveries, District shall make
- 8 every reasonable effort in its judgment and in accordance with
- 9 prudent utility practice to operate its water distribution system
- 10 to provide maximum power generation at the Project, particularly
- 11 during Non-Spring On-peak time periods.
- 7. AUTHORIZED REPRESENTATIVES.
- a. The Parties shall designate an Authorized
- 14 Representative for the purpose of securing effective cooperation
- and interchange of information and providing consultation on a
- 16 prompt and orderly basis between the Parties in connection with
- 17 various administrative and technical problems which may arise
- 18 from time to time under this Contract, including all operating
- 19 matters respecting the delivery and taking of Capacity and
- 20 Energy.
- 21 b. Upon execution of this Contract, each Party by
- 22 notice to the other Party shall designate its Authorized Repre-
- 23 sentative. Each Party shall notify the other Party promptly of
- 24 any change in the designation of its Authorized Representative.
- 25 //
- 26 //

### 8. REGULATORY REVIEW.

- a. If any regulatory entity having jurisdiction over
- 3 PG&E determines that this Contract is imprudent, or does not
- 4 compare favorably relative to a market benchmark established as
- 5 part of a future regulatory mechanism, such as performance-based
- 6 ratemaking, or is not in the public interest, the Parties will be
- 7 relieved of future obligations hereunder only and to the extent
- 8 such relief will eliminate the adverse determination. Relief
- 9 from such obligations shall be granted prospectively only
- 10 commencing one year from the effective date of the adverse
- 11 determination. All other terms and conditions of this Contract
- 12 directly affected by such adverse determination shall remain in
- 13 full force and effect.
- 14 b. In the event of an adverse determination, the
- 15 Parties will commence good faith renegotiation of the terms and
- 16 conditions of this Contract in an effort to preserve the original
- 17 balance of benefits and burdens contemplated by the Parties at
- 18 the time of the Contract's execution. If the Parties cannot
- 19 successfully complete such renegotiation within one year of the
- 20 effective date of the adverse determination, either Party may
- 21 terminate the Contract upon three (3) months' prior notice to the
- 22 other.

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- 9. NOTICES.
- a. Except as otherwise provided in this Contract, any
- 25 notice or communication given in connection with the Contract
- 26 shall be in writing and shall be effective when deposited,

1 postage prepaid, with the United States Postal Service to the person specified below: 2 If to District: 3 4 5 The Metropolitan Water District of Southern California 6 Director of Resources 7 P.O. Box 54153, Terminal Annex 8 9 Los Angeles, California 90054-0153 10 11 If to PG&E: 12 13 Pacific Gas & Electric Company 14 Manager, Power Contracts Department, B23C 15 77 Beale Street, Room 2397 P.O. Box 770000 16 17 San Francisco, California 94177 Either Party may change the address or the 18 individual to which notice or communication is to be sent by 19 providing advance written notice to the other Party. 20 10. LIABILITY. 21 Subject to subsection 10.b. hereof, each Party 22 agrees to accept to the extent provided or required by law the 23 legal liability and financial responsibility, including any duty 24 to indemnify the other Party, for any of its activities and 25 conduct under this Contract that cause damage or injury to either 26 27 Party or to any other person or property. Other than as so provided or required by law, nothing in this Contract shall be 28 construed to create any duty to, any standard of care with 29 reference to, or any liability to either Party or any person or 30

entity not a Party to this Contract.

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- b. Except for that resulting from its own fraud,
- willful injury to person or property, or violation of law, as
  - 3 those terms are used in California Civil Code section 1668,
  - 4 neither Party shall be liable to the other for direct, indirect,
  - 5 special, incidental or consequential loss or damages suffered by
  - 6 such Party including, but not limited to, loss of use of a
  - 7 Party's facilities, loss of revenue, loss of anticipated profits,
  - 8 cost of replacement power, or for claims of any third party,
  - 9 including any customer of the other Party.
- 10 11. WAIVER.
- Any waiver at any time by either Party hereto of its
- 12 rights with respect to a default or any other matter arising in
- 13 connection with this Contract shall not be deemed to be a waiver
- 14 with respect to any subsequent default or matter.
- 15 12. UNCONTROLLABLE FORCES.
- Neither Party shall be considered to be in default in
- 17 the performance of any of its obligations under this Contract,
- 18 other than an existing obligation to pay money, when and to the
- 19 extent failure of performance shall be due to an uncontrollable
- 20 force. The term "uncontrollable force" means any cause beyond
- 21 the control of the Party failing to perform including, but not
- 22 restricted to, failure of facilities, flood, earthquake, storm,
- 23 lightning, fire, epidemic, war, riot, civil disturbance or
- 24 disobedience, labor dispute, labor or material shortage,
- 25 sabotage, restraint by court order or public authority, and
- 26 action or non-action by or inability to obtain the necessary

- 1 authorizations or approvals from any governmental agency or
- 2 authority, which by the exercise of due diligence such Party
  - 3 could not reasonably have been expected to avoid and which by
  - 4 exercise of due diligence it has not overcome. Either Party
  - 5 rendered unable to fulfill any of its obligations under this
  - 6 Contract by reason of an uncontrollable force shall give prompt
  - 7 written notice of such fact to the other Party and shall exercise
  - 8 due diligence to remove such inability. Nothing contained herein
  - 9 shall be construed so as to require a Party to settle any strike
- 10 or labor dispute in which it may be involved.
- 13. ASSIGNMENT OR TRANSFER OF INTEREST IN CONTRACT.
- Neither this Contract or any part thereof shall be
- 13 assigned or transferred by either Party without the prior written
- 14 consent of the other Party.
- 15 14. NO THIRD-PARTY BENEFICIARIES.
- 16 This Contract is for the sole benefit of the Parties
- 17 and shall not be construed as granting rights to any person or
- 18 entity other than the Parties or imposing obligations on either
- 19 Party to any person or entity other than the Parties.
- 20 15. NO DEDICATION OF FACILITIES.
- 21 The Parties do not intend to dedicate, and nothing in
- 22 this Contract and no undertaking under this Contract shall be
- 23 construed as constituting a dedication by either Party of, any of
- 24 its properties or facilities, or any part thereof, to the other
- 25 Party or to the customers of a Party or to the public.
- 26 //

### 16. RELATIONSHIP OF THE PARTIES.

- The covenants, obligations, and liabilities of the
- 3 Parties are intended to be several and not joint or collective
- 4 and nothing contained herein shall ever be construed to create an
- 5 association, joint venture, trust, or partnership or to impose a
- 6 trust or partnership covenant, obligation, or liability on or
- 7 with regard to any Party. Each Party shall be individually
- 8 responsible for its own covenants, obligations, and liabilities
- 9 as herein provided. No Party shall be under the control of nor
- 10 shall be deemed to control the other Party. No Party shall be
- 11 the agent of nor have a right or power to bind the other Party
- 12 without its express written consent, except as expressly provided
- 13 in this Contract.

1

### 14 17. JURISDICTION AND VENUE.

- This Contract shall be deemed a contract under the laws
- 16 of the State of California and for all purposes shall be
- 17 interpreted in accordance with such laws. Both Parties hereby
- 18 agree and consent to the exclusive jurisdiction of the courts of
- 19 the State of California and that the venue of any action brought
- 20 hereunder shall be Los Angeles County, California.

### 21 18. DISPUTE RESOLUTION AND ARBITRATION.

- 22 a. The Parties agree to make best efforts to settle
- 23 all disputes arising under this Contract between themselves as a
- 24 matter of normal business. Normally the Parties' Authorized
- 25 Representatives will settle disputes informally, and memorialize
- 26 such settlements in writing.

- b. Within twenty (20) calendar days of either Party's
- 2 receipt of a written complaint from the other Party that the
- 3 dispute cannot be settled pursuant to subsection 18.a., each
- 4 Party will prepare and deliver to the other an offer of
- 5 settlement of the dispute.
- 6 c. The management of each Party will review each
- 7 Party's offer of settlement and attempt to settle the dispute as
- 8 soon as possible, but in no case later than fifteen (15) calendar
- 9 days after the exchange of offers pursuant to subsection 18.b.
- 10 d. To the extent the dispute is not resolved by the
- 11 Parties pursuant to subsection 18.c., the Parties may commence
- 12 arbitration if mutually agreed. If so agreed, each Party shall
- 13 appoint one arbitrator and so notify the other Party in writing
- 14 of its selection. All arbitrators shall be skilled and
- 15 experienced in the field pertaining to the dispute. The two
- 16 arbitrators thus selected shall name a third arbitrator within
- 17 ninety (90) days from the date the Parties reached agreement to
- 18 arbitrate. In the event of the arbitrators' failure to so name
- 19 such third arbitrator, that arbitrator shall be named as provided
- 20 in the Commercial Arbitration Rules of the American Arbitration
- 21 Association ("Rules"), or successor or equivalent. The third
- 22 arbitrator shall act as chairperson of the panel. The
- 23 arbitration shall be conducted in accordance with the Rules.
- 24 Each Party shall bear its own costs incurred in the arbitration.
- 25 Costs jointly incurred shall be equally shared.

- e. The arbitrators will render a decision in writing
- 2 within sixty (60) days of commencement of arbitration. It is the
- 3 intent of the Parties that the decision of the arbitrators shall
- 4 be binding upon both Parties unless otherwise mutually agreed,
- 5 and both Parties hereby agree to be bound by the arbitrators'
- 6 decision.
- 7 f. Notwithstanding the foregoing, a Party may pursue
- 8 any legal, equitable or regulatory right or remedy available to
- 9 it for resolution of the dispute.
- 10 19. REFERENCED AGREEMENTS.
- 11 Agreements (including any denominated "Contract" or
- 12 "Operating Procedures") incorporated by reference herein shall be
- 13 considered a part of this Contract; provided, that such
- 14 incorporation is intended to provide District and PG&E with
- 15 assurances that an incorporated agreement cannot be amended
- 16 without District's and PG&E's knowledge and that such
- 17 incorporation shall not be deemed to give District and PG&E any
- 18 rights under any such agreement either as a party or as a third
- 19 party beneficiary. Copies of the referenced agreements as
- 20 executed have been provided to both Parties. Neither Party shall
- 21 agree to any modification or amendment of any incorporated
- 22 agreement causing adverse financial or operational harm to the
- 23 other Party without such Party's consent, which shall not be
- 24 withheld unreasonably. If either Party proposes to modify or
- 25 amend any of the incorporated agreements, that Party shall
- 26 provide the other Party a copy of such proposed modification or

- 1 amendment for review, in order to determine whether the proposed
- 2 modification or amendment will affect this Contract such that
  - 3 this Contract should be amended to incorporate the favorable or
  - 4 adverse effects of the proposed amendment.
  - 5 20. EFFECT OF SECTION HEADINGS.
  - 6 Section headings appearing in this Contract are
  - 7 inserted for convenience only, and shall not be considered as
  - 8 interpretation of text.
  - 9 21. ENTIRE AGREEMENT.
- It is mutually understood and agreed that this Contract
- 11 represents the complete agreement of the Parties, and that no
- 12 alteration or variation of the terms of this Contract shall be
- 13 valid and binding unless made in writing and signed by the
- 14 Parties thereto.
- 15 22. EXECUTION BY COUNTERPART.
- This Contract may be executed in any number of
- 17 counterparts, and upon execution by the Parties, each executed
- 18 counterpart shall have the same force and effect as an original
- 19 and as if each Party had signed the same instrument. Any
- 20 signature page of the Contract may be detached from any
- 21 counterpart of this Contract without impairing the legal effect
- 22 of any signatures thereon, and may be attached to another
- 23 counterpart of this Contract identical in form hereto but having
- 24 attached it to one or more signature pages.
- 25 //
- 26 //

### 23. SIGNATURE.

- 2 The signatories hereto represent that they have been
- 3 authorized to enter into this District Etiwanda Power Plant
- 4 Capacity and Energy Sale Contract on behalf of the Party for whom
- 5 they sign.

1

- IN WITNESS WHEREOF, the Parties hereto have caused this
- 7 Contract to be executed as of the day and year first above
- 8 written.

PACIFIC GAS AND ELECTRIC COMPANY

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Ву	R	Ope	76/	1416	Lu	mo	54
		Rob		J.	H	wood	
		Vi	പ്-1	res	side	ent	

у\_\_\_\_

John R. Wodraska General Manager

Approved as to Form:

Approved as to Form:
N. Gregory Taylor
General Counsel

Glenn West, Jr.

Menior Counsel

Ву

Diana Mahmud

Deputy General Counsel

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1

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- 8 written.

PACIFIC GAS AND ELECTRIC COMPANY

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Bobert J

Robert J. Haywood Vice-President y General Manager

Approved as to Form:

Approved as to Form: N. Gregory Taylor General Counsel

Glenn West, Jr. Senior Counsel Diana Mahmud

Deputy General Counsel

# THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA 1994-2013 ESTIMATED GENERATION AT ETIWANDA POWER PLANT (Megawatt-hours)

<u>Year</u> 1994	Jan 0	<u>Feb</u> 0	<u>Mar</u> 0	<u>Apr</u> 200	<u>May</u> 4,300	<u>Jun</u> 7,100	<u>Jul</u> 6,100	<u>Aug</u> 700	<u>Sep</u> 200	<u>Oct</u> 500	<u>Nov</u> 1,400	<u>Dec</u> 1,600	<u>Total</u> 22,100
1995	7,400	9,000	100	300	4,600	7,300	6,100	900	500	1,500	2,700	2,300	42,700
1996	7,400	9,300	1,900	1,100	6,700	8,300	7,200	2,100	1,800	2,800	4,400	4,500	57,500
1997	7,500	9,500	3,700	2,000	8,900	9,300	8,200	3,400	3,100	4,000	6,100	6,700	72,400
1998	7,500	9,800	5,500	2,800	11,100	10,200	9,300	4,600	4,300	5,300	7,800	8,900	87,100
1999	7,500	10,000	7,300	3,600	13,300	11,200	10,400	5,900	5,600	6,600	9,400	11,100	101,900
2000	7,500	10,300	9,200	4,400	15,400	12,200	11,500	7,200	6,900	7,800	11,100	13,400	116,900
2001 and thereafter	•	10,300	9,200	4,400	15,400	12,200	11,500	7,200	6,900	7,800	11,100	13,400	116,900

### MONTHLY PAYMENT FORMULA

Every month PG&E will pay District a lump sum payment for the previous month's deliveries based on the following formula:

 $P = [\{ Q_{ON} \times [(HR_{ON} \times GP) \div 1000 + (PF \times CRP_{ON})] + Q_{OFF} \times [(HR_{OFF} \times GP) \div 1000 + (PF \times CRP_{OFF})] \} \times TLM] - WC$ 

where

P = Monthly payment (to the nearest cent) from PG&E to District.

QON = Quantity of Energy from the Project in megawatt-hours that District schedules pursuant to Section 3 subject to modification for real-time events or unplanned circumstances by DWR pursuant to the Operating Procedures.

HRON = The contractual heat rates in BTU/kWh by respective Time-of-day Periods of the months, defined as follows:

- 9,100 in the Non-Spring On-peak hours;
- 7,700 in the Spring On-peak hours;
- 6,700 in the Non-Spring Off-peak hours; and
- · 5,000 in the Spring Off-peak hours.

GP = The "Average UEG Gas Rate" in \$/MMBm shown in "Energy Prices for Qualifying Facilities", or successor, which is provided monthly by PG&E for setting payments to qualifying facilities. A single GP will be used for determining any month's bill. This GP will be the Average UEG Gas Rate taken from the Energy Prices for Qualifying Facilities publication that covers over half the days in that month. For example, if this Contract would have been effective for November of 1992, the GP for November would have been set equal to the Average UEG Gas Rate published in "Energy Prices for Qualifying Facilities Effective November 9, 1992 through December 13, 1992," shown in Exhibit B-1.

PF = Performance Factor, calculated every month as follows:

- In calendar year 1994 or prior to the Commercial Operation Date, whichever is later: 0.
- In calendar year 1995 and each month thereafter, in the Non-Spring during Commercial Operation: equal to the ratio of (1) Energy deliveries expected for that month, where expected Energy deliveries are set equal to the estimated monthly generation shown in Exhibit A as adjusted pursuant to Section 3.d of this Contract, to (2) Energy scheduled to Edison in that month. If this ratio exceeds 1, PF is set equal to 1.
- In Spring: 0.

CRPON CRPOFF Capital Related Price to be paid for Energy scheduled at a rate of up to 24 MW, defined by respective Time-of-day Periods of the months as follows:

- In the Non-Spring On-peak: \$19.000/MWH in 1994.
- In the Non-Spring Off-peak: \$17.000/MWH in 1994.
- In Spring: \$ 0.000/MWH.

The CRP will escalate each January using the Gross Domestic Product Implicit Price Deflater (GDP IPD) Index for the Third Quarter, published by the U.S. Department of Commerce in its "Survey of Current Business", or successor. The new year's CRP will equal the previous year's CRP times the ratio between the third quarter indexes for the previous two years. For example, in January of 1995 the new CRPON for 1995 will be calculated as the CRPON for 1994 times the GDP IPD Index for the third quarter of 1994 divided by the GDP IPD Index for the third quarter of 1993. An example of the GDP IPD is attached as Exhibit B-2.

Transmission Loss Multiplier which is equal to (1 - LF<sub>pg&e</sub>) x (1 - LF<sub>sce</sub>) x (1 - LF<sub>dwr</sub>). Where: LF<sub>pg&e</sub> is PG&E's transmission loss factor set at 0.0120; LF<sub>sce</sub> is Edison's transmission loss factor initially set at 0.0273 per Section 8 of the Transmission Service Agreement; and LF<sub>dwr</sub> is DWR's exchange factor, EF, initially set at 0.0113 in Section 5.4.1 of the Generation Exchange Contract.

WC = Fees paid by PG&E to DWR pursuant to Sections 5.5.1(b) and 7.1 of the Generation Exchange Contract.

### Pacific Gas and Electric Company

November 9, 1992

77 Beale Street San Francisco, CA 415/973-6980 Telecopier 415/973-9271

P.O. Box 7442 San Francisco, CA 94120 John T Guardalabene 7
Attorney at Law



Docket Office
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

Re: I. 89-07-004

Dear

Pursuant to Decision 91-10-039, enclosed are an original and thirteen copies of Pacific Gas and Electric Company's (PG&E) "Energy Prices for Qualifying Facilities Effective November 9, 1992 through December 13, 1992." The components used to derive the effective prices for the period are those currently approved by the California Public Utilities Commission (CPUC).

These prices differ from those filed in PG&E's announcement for prices effective October 12, 1992 through November 8, 1992, in that the commodity component of the average utility electric generation (UEG) rate has been modified to reflect: 1) the adoption of Decision (D.) 92-10-051 in PG&E's 1992 Biennial Cost Allocation Proceeding (BCAP), which contains a new gas throughput forecast, including a monthly allocation of UEG volumes between core-subscription and self-procured gas, revised core-subscription rates, and a new shrinkage factor; and 2) UEG self-procured gas price resulting from changes in the published price indices.

PG&E is receiving a discount for interruptible transport service on the Transwestern interstate pipeline. Pursuant to D. 91-10-039, PG&E is using the Federal Energy Regulatory Commission (FERC) interruptible tariff for El Paso from the Permian Basin as a proxy for the discount received from Transwestern.

For several months, PG&E has forecast purchases from the Station 8 receipt point on the Transwestern interstate pipeline. However, for the month of November, there are no forecast purchases from Station 8.

PG&E has included in the posting its preliminary recorded gas purchases from the various supply basins for the month of October. Prior month basin volumes are based on the best available information at the time of posting.

Energy prices to Qualifying Facilities are available on PG&E's QF Hotline at (415) 972-5789. Questions regarding this should be addressed to Janice Frazier-Hampton at (415) 972-4553. PG&E is mailing copies of this filing to all parties of record in I. 89-07-004.

Sincerely,

JOHN T. GUARDALABENE

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RECEIVED POWER CONTRACTS

NOV 1 3 1992

## BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Investigation on	)	
the Commission's Own Motion to	)	
Implement the Biennial Resource	)	1.89-07-004
Plan Update Following the	)	(Filed July 6, 1989)
California Energy Commission's	)	•
Seventh Electricity Report	)	
•	)	
(U 39 E)	)	

### PACIFIC GAS AND ELECTRIC COMPANY

# ENERGY PRICES FOR QUALIFYING FACILITIES EFFECTIVE NOVEMBER 9, 1992 THROUGH DECEMBER 13, 1992

SHIRLEY A. WOO JOHN T. GUARDALABENE PETER OUBORG

Law Department
PACIFIC GAS AND ELECTRIC COMPANY
77 Beale Street, P.O. BOX 77000
San Francisco, CA 94177
Telephone: (415) 973-6980

Attorneys for PACIFIC GAS AND ELECTRIC COMPANY

November 9, 1992

## ENERGY PRICES FOR QUALIFYING FACILITIES NOVEMBER 9, 1992 - DECEMBER 13, 1992

The energy prices applicable to purchases by PG&E from qualifying facilities are shown below. They are the product of the weighted-average utility electric generation (UEG) rate and the Incremental Energy Rate (IER) plus an adjustment for the revenue requirement for Cash Working Capital (CWC), the Geothermal Adder (GEO) and the Variable O&M Adder. The IER and the Variable O&M Adder were adopted by the California Public Utilities Commission in D. 91-11-056. The GEO was adopted in Resolution No. E-3267 dated May 8, 1992 and effective May 1, 1992. The CWC is calculated in accordance with D. 89-12-057. The average UEG rate is based on the methodology established in D. 91-10-039, D. 92-05-022 and D. 92-08-040.



	IER** Btu/kWh	Avg. UEG \$/MMBtu [2]	CWC \$/kWh [3]	GEO \$/kWh [4]	Var. O&M \$/kWh [5]	Energy*** Purchase Price \$/kWh [6]=1x 2+3+4+5
With Time-of D	elivery Me	tering*				
Partial Peak	10,803	3.1001	0.00013	0.000578	0.00280	0.036998
Off-Peak	10.033	3.1001	0.00012	0.000578	0.00280	0.034601
Super Off-Peak	9,731	3.1001	0.00012	0.000578	0.00280	0.033665
Without Time-o	f Delivery	Metering*				
Seasonal Avg. (Period B)	10,281	3.1001	0.00012	0.000578	0.00280	0.035370

#### Footnotes:

* TIME PERIOD	MAY 1 - ( (Perio			NOVEMBER (F	1 - A Perio		
PEAK:	Noon	+	6:00 p.m.	N	one		- Weekdays except Holidays
PARTIAL-PEAK:	8:30 a.m.		Noon				Weekdays except Holidays
	6:00 p.m.	-	9:30 p.m.	8:30 a.m.	-	9:30 p.m.	Weekdays except Holidays
OFF-PEAK:	9:30 p.m.		1:00 a.m.	9:30 p.m.	-	1:00 a.m.	Weekdays except Holidays
	5:00 a.m.		8:30 a.m.	5:00 a.m.	-	8:30 a.m.	Weekdays except Holidays
	5:00 a.m.	•	1:00 a.m.	5:00 a.m.	-	1:00 a.m.	Weekends and Holidays
SUPER OFF-PEAK	: 1:00 a.m.		5:00 a.m.	1:00 a.m.		5:00 a.m.	Ail days

Holidays include New Year's Day, Presidents Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day and Christmas Day.

<sup>\*\*\*</sup>The Energy Purchase Prices exclude the applicable energy line loss adjustment factors. As ordered by Ordering Paragraph 12(j) of Decision 82-12-120, this figure is currently 1.0 for transmission and primary interconnection voltage levels and for secondary distribution as follows:

	Period A	Period B
Peak	1.0148	*
Partial-Peak	1.0131	1.0119
Off-Peak	1.0093	1.0087
Super Off-Peak	1.0093	1.0087

<sup>\*\*</sup>Incremental Energy Rates are derived from PG&E's marginal energy costs.

### Pacific Gas and Electric Company ENERGY PRICES FOR QUALIFYING FACILITIES NOVEMBER 9, 1992 - DECEMBER 13, 1992

### **DERIVATION OF AVERAGE UEG RATE**

### **Transportation**

Winter Transport Revenues (\$1,000)1	\$74,181
Winter Forecast Deliveries (Mth)1	796,230
Average Transportation Rate (per Dth)	\$0.9317
Commodity	
Core Subscription Price to Noncore Customers (per Dth)2	\$1.9181
Transportation Shrinkage Charge (per Dth)3	\$0.0609
Total Core Subscription Price (per Dth)	\$1.9790
UEG Self-Procured Gas Price (per Dth)4	\$2.5200
Total Adopted Throughput Volume (Mth)5	247,140
UEG Volumes at Core Subscription (Mth)5	160,640
UEG Volumes at Self-Procured Price (Mth)5	86,500
Average UEG Commodity Rate (per Dth)	2.1684
Average UEG Gas Rate (per Dth) (Sum of Transportation and Commodity Rates)	3.1001

<sup>1</sup> Rates and volumes adopted by the CPUC in Decision 92-10-051, dated October 21, 1992.

<sup>2</sup> Effective November 1, 1992, per Advice 1728-G, dated October 28, 1992.

<sup>3</sup> Effective November 1, 1992, customers taking core subscription service will pay an additional 3.2 percent of the core subscription commodity price (excluding brokage fee) to reflect shrinkage.

<sup>4</sup> Per most recent estimate of UEG gas procurement, consistent with Decision 91-10-039.

<sup>5</sup> Consistent with Decision 92-05-022, the throughput volumes adopted in PG&E's Biennial Cost Allocation Proceeding (BCAP) Decision 92-10-051 are used.

# Pacific Gas and Electric Company ENERGY PRICES FOR QUALIFYING FACILITIES

NOVEMBER 9, 1992 - DECEMBER 13, 1992

### INTERIM METHOD FOR DERIVATION OF UEG SELF-PROCURED GAS COMMODITY PRICE

Basin Publication [1]	(By Pipelin	ished Price e If Applicable) (per Dth) [2]	Interstate <sup>2</sup> Pipeline And Type Of Service [3]	Transpon Rate (per D(h) [4]		Forecasted <sup>4</sup> November Purchases (MDth/day) [6]	Actual 5 October Purchases (MDth/day) [7]
Anadarko Inside F.E.R.C NGW NGI Average	\$2.10		El Paso Firm	\$0.38	\$2.46	0	8
Permian Inside F.E.R.C NGW NGI Average	El Paso \$2.12 \$2.09 \$2.13 \$2.11		El Paso Firm	\$0.37	\$2.48	92	122
San Juan Inside F.E.R.C NGW NGI Average	El Paso \$2.11 \$2.09 \$2.14 \$2.11	Transwesterr \$2.11 \$2.09 \$2.13 \$2.11	El Paso Firm Transwestern Firm T.W. Inter./EPNG <sup>7</sup>	\$0.35 \$0.68 \$0.60	\$2.46 \$2.79 \$2.71	74 9 28	178 25 0
Station 8 Inside F.E.R.C NGI Average	<u>-</u>	Transwestern \$2.15 \$2.11 \$2.13	Transwestern Firm	<b>\$</b> 0.55	\$2.68	0	20
Canadian 6 Inside F.E.R.C NGI	<u>NW/PGT</u> \$1.50 \$1.91	. N	W/PGT Interrup NW/PGT Firm	\$0.38 \$0.31	\$2.09 \$2.01	0	35 0

**UEG Self Procured Gas Price** 

\$2.52

# Pacific Gas and Electric Company ENERGY PRICES FOR QUALIFYING FACILITIES

NOVEMBER 9, 1992 - DECEMBER 13, 1992

### INTERIM METHOD FOR DERIVATION OF UEG SELF-PROCURED GAS COMMODITY PRICE (FOOTNOTES)

#### **Footnotes**

- Inside F.E.R.C.'s GAS MARKET REPORT: "PRICES OF SPOT GAS DELIVERED TO PIPELINES NOVEMBER 1, 1992", Index Prices. NATURAL GAS WEEK, dated November 2, 1992: "SPOT PRICES ON INTERSTATE PIPELINE SYSTEMS" (pg. 20). NATURAL GAS INTELLIGENCE GAS PRICE INDEX, dated November 2, 1992. "Spot Gas Prices" (pg. 2) and "CANADIAN MARKETS" (pg.5).
  - In the absence of a published price for Transwestern from the San Juan basin, the listed El Paso price was used.
- 2) Assumes PG&E uses firm transportation on the El Paso pipeline, and both firm and interruptible transportation on the Transwestern and PGT pipelines. Interruptible transport is assumed on Northwest Pipeline.
- 3) El Paso Firm Transportation Rate Schedule T-3, effective October 1, 1992. Includes GRI, ACA, and surcharge. Transwestern Firm Transportation Rate Schedule, FTS-1, Second Revised Vol No. 1, effective 4-14-92 and 10-1-92. PGT Transportation Rate Schedules ITS and FTS, effective October 1, 1992. Include GRI, ACA, and surcharge. Transport rates account for interstate shrinkage on the respective pipelines and intrastate shrinkage to the burnertip. Northwest Transportation rate schedule TI-1 effective July 1, 1992, includes ACA, and surcharge.
- 4) Forecasted basin volumes are based on PG&E's most recent planning forecast of least expensive available supplies with acceptable reliability and flexibility. Does not include August imbalance which was assumed to be traded. In addition to the volumes shown, zero MMM Btu/day is forecast to be purchased from California. This forecast was filed with the CACD on October 23, 1992, and as noted, these volumes include no gas purchases for the pilot banking program.
- 5) Prior month's basin volumes are based on the best available information at the time of posting. In addition to the volumes shown zero MMM Btu/day of California gas was purchased and a small amount (0.1 MMMBtu/day) was received at Daggett, CA transported over the Kern River. UEG actual self procurement for October was 388 MMMBtu/day. It included 22 MMMBtu/day of July imbalance underdelivery. This compares to the 300 MMMBtu/day forecast in the October posting.
- 6) Per Decision 92-08-040, the Canadian gas index from "NATURAL GAS WEEK" will no longer be used, and the Canadian index from "INSIDE F.E.R.C." has been modified to reflect interruptible transport over the Northwest Pipeline from Sumas to Stanfield. For Canadian burnertip price, see "Sample Canadian Gas Index Calculation" on the next page.
- 7) T.W. Inter./EPNG = Transwestern Interruptible/El Paso Natural Gaş. Per Decision 91-10-039 Section 4.5 at page 16, the El Paso interruptible rate from the Permian basin is used as a proxy for discounted Transwestern Interruptible service.

# Pacific Gas and Electric Company ENERGY PRICES FOR QUALIFYING FACILITIES

NOVEMBER 9, 1992 - DECEMBER 13, 1992

### Sample Canadian Gas Index Calculation

### Transportation Cost Calculations

Inside FERC index plus interruptible Northwest Pipeline transport to Stanfield, Oregon plus shrinkage, plus either firm
or interruptible PGT transport to Malin, Oregon plus California intrastate shrinkage to the burnertip equals Inside
FERC burnertip cost.

### For Interruptible PGT Transport

 $(((1.50)/(1-.014)+(.2145+.0024+.0398))^*(1+.0266)+(.0023+.0147+.000212*335.09))^*1.032 = 1.9746$ 

### For Firm PGT Transport

 $(((1.50)/(1-.014)+(.2145+.0024+.0398))^*(1+.0266)+(.0023+.0147+.000053^*335.09))^*1.032 = 1.9195$ 

### Identification of Components

1.50 -- Inside FERC Index

(1-.014) -- Shrinkage term for Northwest

(.2145 +.0024 + .0398) -- Northwest tariff (interruptible) + ACA + SSP (Surcharge). Note that GRI is charged (1+.0266) -- Shrinkage term for PGT (Stanfield to Malin)

(.0024 + .0147 + .000212 \* 335.09) -- PGT (ACA + GRI + interruptible delivery rate \* Stanfield to Malin mileage)

(.0024 + .0147 + .000053 \* 335.09) -- PGT (ACA + GRI + firm delivery rate \* Stanfield to Malin mileage)

1.032 -- Intrastate shrinkage factor

2. Natural Gas Intelligence index plus either firm or interruptible PGT transport to Malin, Oregon plus California intrastate shrinkage to the burnertip equals Natural Gas Intelligence burnertip cost.

#### For Interruptible PGT Transport

 $((1.91)^*(1+.0398) + (.0023 + .0147 + .000212^*612.46))^*1.032 = 2.2011$ 

### For Firm PGT Transport

 $((1.91)^*(1+.0398) + (.0023 + .0147 + .000053*612.46))*1.032 = 2.1006$ 

### Identification of Components

1.91 -- Natural Gas Intelligence Index

(1+.0398) -- Shrinkage term for PGT (Kingsgate to Malin)

(.0024 + .0147 + .000212\*612.46) -- PGT (ACA + GRI + Interruptible Delivery Rate\*Kingsgate to Malin mileage)

(.0024 + .0147 + .000053\*612.46) -- PGT (ACA + GRI + firm Delivery Rate\*Kingsgate to Malin mileage)

1.032-- Intrastate shrinkage factor-

3. Using interruptible or firm PGT rates and averaging 1 and 2 provides the respective Canadian burnertip prices.

### Interruptible Transport Burnertip Price

Firm Transport Burnertip Price

1.9746

2.2011

4.1757/2 = 2.0879 = 2.09

1.9195

2.1006

4.0201/2 = 2.0101 = 2.01

### CERTIFICATE OF SERVICE BY MAIL

I hereby certify under penalty of perjury that I have this day caused a copy of ENERGY PRICES FOR QUALIFYING FACILITIES EFFECTIVE NOVEMBER 9, 1992 THROUGH DECEMBER 13, 1992 to be mailed by first-class mail to each of the parties of record in this proceeding.

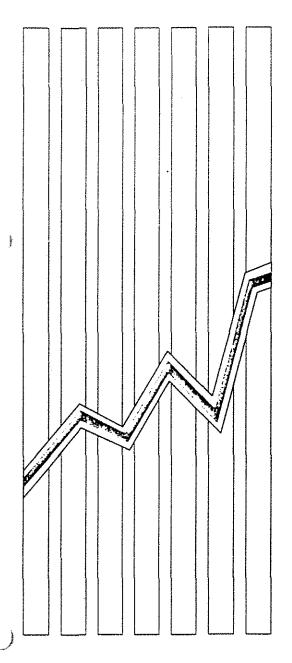
Executed at San Francisco, California, this 9th day of November 1992.

Save J. Rice

Irene F. Rice

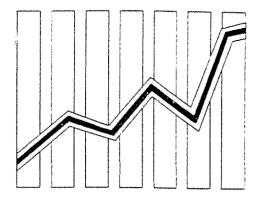


# SURVEY of CURRENT BUSINESS





U.S. DEPARTMENT OF COMMERCE ~ ECONOMICS AND STATISTICS ADMINISTRATION BUREAU OF ECONOMIC ANALYSIS



## SURVEY of CURRENT BUSINESS

### U.S. Department of Commerce Barbara Hackman Franklin, Secretary



**Economics and Statistics** Administration



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The Secretary of Commerce has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department.

- **Business Situation** 
  - Corporate Profits
- National Income and Product Accounts
  - Selected NIPA Tables
  - 23 NIPA Charts
  - 25 Reconciliation and Other Special Tables
  - Summary National Income and Product Series, 1929-91
- U.S. International Transactions, Third Quarter 1992
- 1993 Release Dates for BEA Estimates 65
- Subject Guide, Volume 72 (1992)

C-pages: Business Cycle Indicators

(See page C-1 for contents)

S-pages: Current Business Statistics (See page S-36 for contents and subject index)

Inside back cover: BEA Information

Note.—This issue of the Survey went to the printer on January 5, 1993. It incorporates data from the following monthly BEA news releases: Gross Domestic Product (Dec. 22), Personal Income and Outlays (Dec. 23), and Composite Indexes of Leading, Coincident, and Lagging Indicators (Dec. 30).

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### Schedule of Upcoming BEA News Releases

State Personal Income, 3d quarter 1992.					
State Personal Income, 3d quarter 1992 Gross Domestic Product, 4th quarter 1992 (advance) Personal Income and Outlays, December 1992	jan.	20			
Composite Indexes of Leading, Coincident, and Lagging Indicators, December 1992					
Merchandise Trade (balance of payments basis), 4th quarter 1992.  Personal Income and Outlays, January 1993.  Composite Indexes of Leading, Coincident, and Lagging Indicators, January 1993.  Summary of International Transactions, 4th quarter 1992.  Gross Domestic Product, 4th quarter 1992 (final).  Corporate Profits, 4th quarter 1992 (preliminary).  Personal Income and Outlays, February 1993.  Composite Indexes of Leading, Coincident, and Lagging Indicators, February 1993.	Mar. Mar. Mar. Mar. Mar. Mar.	1 2 16 26 26 29			

For information, call (202) 523-0777, Bureau of Economic Analysis, U.S. Department of Commerce.

Table 7.1.—Fixed-Weighted and Alternative Quantity and Price Indexes for Gross Domestic Product [Index numbers, 1987=100]

				Sea	sonally	adjuste	ed at an	nual ra	ites				Sea	sonally	adjuste	ed at ar	inual ra	ntes
		1990	1991		1991			1992			1990	1991		1991			1992	
		,,,,,		11	Ш	ΙV	ı		111				Ħ	(1)	ΙV	I	11	
	domestic product:									Nonresidential:								
	ent dollars	121.6	125.1	124.6	125.8	126.7	128.6	130.0	131.7	Current dollars	116.0	108.7	109.6	108.2	106.2	106.7	110.6	110.4
Fi	xed 1987 weights	107.4		106.1			107.4			Quantity indexes: Fixed 1987 weights	108.1	100.5	101.0	100.2	98.9	99.6	103.4	104.2
Be	hain-type annual weights enchmark-years weights	*******	*********		*********	********		********	**********	Chain-type annual weights	*******		**********	********		********	********	
	indexes: xed 1987 weights	113.5	11R 1	117.7	1186	119.3	120,4	121.3	121.9	Benchmark-years weights Price indexes:	********	*******	**********	********		,,,,,,,,,,	*********	
C	hain-type annual weights				********		********		********	Fixed 1987 weights		110.4		110.6	110.7	110.8	111.1	111.5
	enchmark-years weights	113.2	117.8	117.5	118.2	118.9	119.8	120.6	121.2	Chain-type annual weights Benchmark-years weights	********	**********	*********	********	*********	********	********	
	nsumption expenditures:								<u> </u>	Implicit price deflator	107.3		108.5	108.0	107.4	107.1	106.9	
Ouantity is	ndexes:	122.8	127.4	126.9	128.2	129.2	131.8	132.9	134.6	Structures:								
Fixed 1	987 weights	106.8	5	106.1		ŧ	107.8	107.7	1	Current dollars	117.4	105.1	108.1	102.5	99.1	99.3	99.4	97.0
Benchn	ype annual weightsnark-years weights	********	*********		*********		**********	********	*********	Fixed 1987 weights	104.6	92.0	94.7	89.3	86.6	87.2	87.0	84.4
Price inde Fixed 1	xes: 987 weights	115.3	120.4	119.9	120.8	121.8	122.9	124.0	124.8	Chain-type annual weights Benchmark-years weights .	732444444	*********	*******		*********	********	######################################	
Chain-t	ype annual weights		********							Price indexes:								
Implicit pr	hark-years weightsice deflator	115.0	120.0	119.5	120.4	121.4	122.3	123.4	123.8	Fixed 1987 weights	112.4		114.2		114.4		114.4	115.0
Durable g	goods:									Benchmark-years weights .	******				******		*********	
Quantit	dollars			109.3	112.2	111.6	116.3	116.6	119.5	Implicit price deflator	112.3	114.3	114.2	114.8	114.4	113.9	114.2	114.9
Fixe	1987 weights n-type annual weights	108.8					107.1			Producers' durable equipment:								
Beno	:hmark-years weights	*********	*********		**********		********			Current dollars	115.3	110.6	110.5	111,1	110.0	110.5	116.4	117.5
Price in Fixed	idexes: 1 1987 weights	106.3	108,9	108.6	109.5	109.8	110.3	111.3	111.8	Quantity indexes: Fixed 1987 weights	110.0	104.9	104.4	105.9	105.3	106 1	1120	114.6
Chái	n-type annual weights	********			*********			************		Chain-type annual weights	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					*********	********	4
	driving designation designated the state of	105.7	107.6	107.3	108.0	108.3	108.6	109.4	109.7	Benchmark-years weights . Price indexes:	**********		**********		*********	********		
Nondurat	nie goods:									Fixed 1987 weights	106.1	108.3	108.1	108.3	108.7	109.2	109.5	109.8
	dollarsy indexes:	121.1	123.8	124.0	124.2	123.8	126.0	126.4	127.9	Chain-type annual weights Benchmark-years weights			.,	*******	·*******	*********	**********	
Fixed	1987 weights	104.5	103.1	103.5				103.4		Implicit price deflator	104.9	105.4	105.8	104.9	104.5	104.2	103.9	102.5
Ben	n-type annual weights hmark-years weights	********	********		*********		********	********	********	Residential:		:						
Price in	dexes: d 1987 weights	1162	120.5	120.3	120.6	121 3	121.8	122.7	123.4	Current dollars	95.7	84.5	82.7	86.2	88.0	92.0	95.4	96.3
Chai	n-type annual weights	********					15130	********		Quantity indexes: Fixed 1987 weights	86.5	75.6	74.1	76.6	78.7	82.4	84.9	84.9
limplicit	hmark-years weights price deflator	115.9	120.1	119.9	120.2	120.8	121.4	122.2	122.9	" Chain-type annual weights	********		*********	*********	1244-14-15		********	
Services:										Benchmark-years weights Price indexes:		********	**********	*********	********		********	
	dollars y indexes:	125.8	133.8	132.9	134.7	136.9	139.2	141.0	142.5	Fixed 1987 weights	110.8	111.8	111.6	112.5		:		
Fixed	1 1987 weights	107.8	106.9		109.1	109.8	110.4	110.7	111.5	Chain-type annual weights Benchmark-years weights	*******			*********				
Benk	n-type annual weights	*******			*********			********	********	Implicit price deflator	110.7	111.8	111.6	112.5	111.8	111.7	112.3	113.4
Price in Fixed	dexes: d 1987 weights	116.9	123.1	122.5	123.8	125.1	126.6	127.8	128.7	Exports of goods and services:	150 0	*** 4	400.0		474.6	470.0	474 6	175.6
Chai	n-type annual weights			*********				****	*********	Current dollars	155.0	104.4	103.3	103.3	171.2	1/2.0	171.0	173.6
lmplicit	price deflator	116.7	122.8	122.1	123.4	124.7	126.1	127.4	127.7	Fixed 1987 weights	140.1	148.2	147.3	149.5	154.2	155.3	154.8	158.2
Gross priva	te domestic investment:	400 7				۰.,		4 000 4		Benchmark-years weights	********	***********		**********	*********		******	
Quantity is	Mars ndexes:	106.7			l			103.2		Price indexes: Fixed 1987 weights	110 1	1124	1123	1121	1128	1130	1126	114.1
Fixed 1	987 weights	98.6	88.2	1	89.7	90.3	89.3	95.2	96.8	Chain-type annual weights		1127						
Benchn	nark-years weights	*********						********	**********	Benchmark-years weights	100.2	1100	1100	110.7	111.0	111 1	1110	111.0
Price inde Fixed 1	987 weights							********		• •	1037	110.3	110.3	11071	111.0	111.1	111,0	111.0
Chain-t	ype annual weightsnark-years weights									Imports of goods and services: Current dollars	123.4	122.3	120.2	124.1	126.0	125.5	130.7	133.1
Implicit pr	ice deligior	*		***********				**********		Quantity indexes: Fixed 1987 weights	110.6	1107	100.0	4400	1140	1157	110.0	124.0
Fixed inv	estment:	100 **	101.0	40+0	101.3	100.5	100.4	€AE 0	106.0	Chain-type annual weights		11U./		1		113.7	1	
Quantit	y indexes:	i			ł	l		105.8		Benchmark-years weights Price indexes:	********	**********	********		***************************************		*******	
Fixe Chai	d 1987 weightsn-type annual weights	101.4	92.7		92.9		94.2	97.6		Fixed 1987 weights	112.6	113.7	113.0	112.8	113.7	112.9	114.2	115.8
Bend	chmark-years weights		********	9					********	Chain-type annual weights		,	*******	********	*****		********	*********
Fixed	idexes: d 1987 weights	109.1	110.8	110.6	111.2	111.1	111,1	111.0	111.6	Implicit price deflator			110.1	109.3	109.8	108.4	109.1	107.4
	n-type annual weights	********	********					********						:				ı
Rery	hmark-years weights price deflator									•						, !		1

Gross domestic product Current dollars

Ouaminy indexes:
Flued 1997 weights
Chain-type annual weights
Benchmark-years weights
Price Indexes:

rice incexes:
Fixed 1987 weights
Chein-type annual weights
Benchmark-years weights .....

Personal consumption expanditures:

Chain-type annual weights
Benchmark-years weights
implicit price deflator

Quantity indexes: Fixed 1987 weights .

Fixed 1987 weights 

Nondurable goods: Current dollars Cuantity indexes: Fixed 1987 weights

Price indexes:

Chain-type annual weights ... Benchmark-years weights ... Price indexes:

Chain-type annual weights ... Benchmark-years weights ...

Fixed 1987 weights

Chain-type annual weights

Benchmark-years weights

Implicit price deflator

Current dollars

Quantity indexes: Fixed 1987 weights

Fixed 1987 weights

Durable goods: Current dollars

Sessonally adjusted

1

118.3

118.2

131.5

130.2

156.7

118.0 118.8 119.5

133.5 132.9 132.9

131.2

130.7 131.4 134.4 134.7

131.0

116.9 115.7 111.8

U

154.8

118.5

131.0 131.3 128.1

158 9 180.5

118.8 119.5

134.6 133.9 133.9

153.6 156.6

119.8 117.3 117.2

141.8 143.0 143.3

7671

H

156.7

1194

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1913

135.2 134.5 134.5

141.3

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117.2 1171

1994

149.6 151.9 153.

116.5

129.4 130.3

128.4 128.5

152.8 165,1

131.8 131.3 131.3 129.8

148.5 153.0 152.4

126 A 1324

127.1 132.

117.8 118.1 119.3

129.4

117.8

132.1 132.1

0 111 IV

115 B

115.5

125.9

115.5 115.5 116.3 116.3

130.2 128.9

125.

116.7

114.6 114.4 111.1 115.8 115.4 111.7 115.8 115.6 111.3

Post-It\* Fax Note

137.9 136.6 139.1 140.5

148.4 147.4

116.1 112.0

> 128.9 128.

127.9

128.1 127.7

126.1

117.3 118.1 118.1

131.2 130.7 130.7 129.3

145.5 143.7

127.7

114.9 114.7 111.2

1993 1994

139,7

125.5

124.6 124.8 123.5

143.4 151.6 150.3

112.5

112.5

128.

127.6 127.5

128.6

133.3

118.9 127.9

112.2

109.8

Harris

Table 7.1.—Fixed-Weighted and Alternative Quantity and Price Indexes for Gross Domestic Product \*\*\* [Index numbers, 1987=100]

	uty and Price indexes for Gross ers, 1987-100)	Dome	Buc P	, LOCING	el .	72	/13,	195	
					Se	asonsily	acjust	ad	
		1993	1984		1994	-	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	1995	
III				1	1/1	Ŋ	1	H	111
-	Honresidentiet:								
56.7	Current dollers	123.8	140.2	137,3	142.5	147.2	154,0	156.6	158.3
22.1	Cuantity indexes: Fixed 1987 weights	118.8	135.1	192.2	136.6	142.3	149.4	153.4	156.5
19.4	Chain-type annual weights	112.1	125.3	122,8	126.9	131.3	137.5	139.2	140.8
19.3	Benchmark-years weights	112.9	126.1	123.5	127.7	132.2	138.5	140.3	142.0
32.Q	Price Indexes: Fixed 1987 weights	113.0	115.5	115.2	115.0	118.4	116.7	117.7	118.3
31.7 31.0	Chain-type annual weights	110.4	112.0	111.9	112.5		1125	113.3	113.7
28.3	Bonchmane-years weights	109.7	111.4	111.2	111.8	111.9	111.9	112.7	113.2
	Implicit price deflator	104.1	103.8	103.9	104.3	103.5	103,1	102.0	101.1
80.5	Structures:								
21.3	Current dollars	101,2	106.7	106.1	107.8	112.1	116,9	118.2	121.2
19.5	Quantity indexes: Fixed 1987 weights	88.2	87.9	88.1	89.5	8.08	93.3	95,4	96.2
19.6	Chain-type arroual weights	88.2	87.9	88.2	68.5	90.9	83.4	95.5	96.3
35.2	Benchmark-years weights .	86.2	87.9	88.2	88.5	90.9	93.4	95.4	96.3
34.5 34.5	Price Indexes:	1470	404.0	120.3	104.7	129.2	124.0	124.8	125.7
323	Fixed 1967 weights	117.3 117.4	121.2 121.3	120.4	121.7	123.2	124.1	124.8	125.8
	Benchmark-years weights .	117.4	121.3	120.4		123.2	124.1	124.8	125.8
56.6	implicit price deflator	117.4	121.4	120,4	121.8	125.4	124.2	125.0	128.0
41.3	Producers' durable								I
34.4	equipment								
\$4.7	Current dollars	135.6	167.7	153.6	160.7	185.6	173,9	176.1	177,8
20.0	Quantity Indexes: Fixed 1967 weights	138,0	159.9	155.3	161,9	169.3	178.8	183,9	188.2
17.2	Chain-type annual weights	126.5	148.2	142,1	148.3	154.0	182.2	163.5	165.7
17.1 10.9	Benchmark-years weights .	127.4	147.2	143.1	49.3	155.1	183.4	165,1	167.3
1920	Price Indexes: Fixed 1967 weights	110.7	112.5	112.5	113.0	112.8	112.9	113.9	114.5
43.3	Chain-type annual weights	107.2	108.0	108.2	108.5	107.9	107.6	108.4	108.8
	Benchmark-years weights .	108.5	107.3	107.5	107.8	107.3			108.1
		.7	98.7	98.9	99.2	87.9	¥7.3	95.8	94.5
D	te /2/13/95 pages 1	2	125.7	125.9	125.8	127.9	127.4	123.3	127.2
Fi	om Mike Tanenbaum	э.	102.7	103.8	102.2	102.8	101.9	98.2	100.8
ta		.6	102.8	103.9	102.2	102.8	101.9	98.1	100.7
	1095	.7	102.8	103.9	102.3	102.8	101,9	98.2	100.8
P	ione # (415) 973-1569	.4	122.0	121.0	122.6	124.2	124,7		126.1
Fa	* *	.6	122.3	121.3		124.4	125.0		128.3
1_		.5 .6	122.2	121.2	123.0 123.1	124.3 124.4	124.9 125.0		
		<b>2</b> 0	IEEN	16 (m)	160.1	124.4	150,0	1200	14012
42 7	Current dollars	181.1	197.5	193.6	200,7	210.3	214.0	219.1	220,4
42.1	Quently indexes:	12014			#401	*:4%	A: 710		
42.2 41.0	Fixed 1967 weights	165.5			183.1			197.2	
~ : e4	Chain-type annual weights	159.7		168.7			181.7		
	Resolves supplies	1441.6	1/20	1005.25	· //3.U	2011	المحان	1003.4	101.4

Services: Current dollars									hoi
Quantity indexes:								H	ax
Fixed 1987 weights									
Chain-type arrival weights Senchmark-years weights									
Price indexes:			1 1 1			_	1 1	7	-11
Fixed 1987 weights		137.8	137.0	138.1	139.2	140,4	141.7	142	7
Chain-type annual weights	133.0		136.6				141.2		
Benchmark-years weights	135.0		138.7				141.2		
Implicit price deflator	132.3	138.4	130.8	137.0	130.1	139.1	140,2	141	"
Gross private domestic investment:						4.54			. 11
Current dollars	117.7	137.8	138,1	140.8	143.5	147.8	146,0	143	٦,
Quantity Indexes: Fixed 1987 weights	1004	127.0	100 0	120 1	1920	138 7	198.0	136	۸ll
Chain-type annual weights		120.8		123.0					
Benchmark-years weights		120.8							
Price indexes:				-					- 11
Fixed 1987 weights									
Chain-type annual weights									
Benchmark-years weights		-	1						
	}		**********	Approximated		***********			-
Fixed investment		4000				445 4		440	٠N
Current dollars	119.8	135.6	133,7	137.3	141.2	145.7	190.2	140.	۱۱ ۳
Fixed 1987 weights	1113	125.0	123.3	125 0	130.0	134.6	138.2	130	2
Chain-type annual weights	106.6	118.2	116.9	118.1	122.3	125.1	126.1	128	0
Benchmark-years weights	107.2	118.8	117.4		122.9	128.9	128.9	125	9 ]]
Price indexes:		<b></b> .				4.00		400	. II
Fixed 1987 weights	1124	117.5 114.0	117.0	116.1	115.8	1180	1187	117	۶ II
Chain-type armual weights		114.4					116.3		
Implicit price deflator	107.7	108.5	100.4	100.0	108.6	108.2	107.3	108	ĕΙ

CYDOLIS OL BOOKS MIKE SHEAKOS	r -			[				
Current dollars	181.1	197.5	193.6	200.7	210.3	214.0	219.1	220.4
Quarthy indexes:		į (						
Fixed 1967 weights	165.5	180.5	176.9	183.1	191.8	194.0	197.2	202.2
Chain-type annual weights	159.7	171.5	168.7	173.9	180.9	181.7	184.0	185,7
Benchmark-years weights	160.8	1726	169,8	175.0	182.2	183,1	185.4	187.4
Price Indexes:								
Fixed 1987 weights	115.3	118.1	117.5	118.4	119.9	121.9	123,8	123.9
Chair-type annual weights	113.4	115,4	114.9	115.7	116.9	118.5	120.2	120.2
Benchmark-years weights	112.6	114.7	114.2	115.0	116.3	117.9	119.6	119.8
Implicit price deflator	109.4	109.4	109.4	109.6	109.7	110.3	111.1	109.0
imports of goods and services:								
Current dollars	142.9	181.1	158.2	166.7	170.5	175.5	181.9	181.5
Quantity indexes:								
Fixed 1987 weights	133.4	151.3	149.0	154.5	158.8	162.8	168.5	170.0
Chain-type annual weights	126,7	141,5	139.9	144.3	147.3	150.8	153.5	154.5
Benchmark-years weights	127.9	142.8	141.2	145.6	148.7	152.2	154.9	156.1
Price indexes:	1 1							1
Fixed 1987 weights						120.5		
Chairi-type annual weights	112.8					116.8		
Benchmerk-years weights						116.8		
Implicit price defisior	107.1	106.5	106.1	107.2	107.4	107.9	109.2	106.8
•	<u> </u>					i '		1
							j l	t

### 6170= 2.26

### 7. Quantity and Price Indexes.

Table 7.1.—Fixed-Weighted and Alternative Quantity and Price Indexes for Gross Domestic Product [Index numbers, 1987–100]

				Se	asonally	adjust	ed			Ţ		r	SA				
123.7	1992	1993		1993			1994		. 126.5	1992	1993	-			,	1994	
			11	111	١٧	ı	11	IH	, /2013			1	Ш	IV	1	11	111
Gross domestic product: Current dollars Quarkity indexes:	132.6	139.7	138.8	140.1	142.7	144.8	147,4	149,5	Nonresidential: Current dollars	112.8	123.8	122.4	124.4	129.8	133.7	137.3	142.6
Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes:	109.7 109.4 109.3		112.5 111.7 111.5	112.2	113.6	114.5	117,1 115,6 115,5	118.2 116.5 116.5	Fixed 1987 weights	105.7 102.8 103.5	118.8 112.1 112.9	110.9	112.5	117.4	120.3	132.2 122.8 123.8	
Fixed 1987 weights Chain-type annual weights Benchmark-years weights Implicit price deflator	121.9 121.2 121.4 120.9	124.8	125.2 124.3 124.5 123.4	124.9 125.1		126.6 126.8	127.5	128.3 128.5	Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	111.2 109.7 109.0	110.4	112.8 110.4 109.8	110,5	110.7	111.3	111.9	112.5
Personal consumption expanditures: Current dollars Quantity indexes:	135.5	143.4	142.4	144.2	146.4	148.6	150.3	152.5	Implicit price deflator Structures:	106.7							
Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes:	109.7 109.3 109.3		111.9	113.8 112.9 112.9	113.9	115.1	116.6 115.5 115.5	118.3	Current dollars Quantity indexes: Fixed 1987 weights	99.9 87.4	86.2	86.0	86.1	86.8	84.1	106.1	108.1
Fixed 1987 weights Chain-type annual weights Senchmark-years weights	124.6 124.1 124.1	127.5 127.5	127.8 127.3 127.3	127.7 127.7	129.1 128.6 128.8	129.2	130.7 130.2 130.2	131.8 131.2 131.2	Chain-type annual weights Benchmark-years weights Price indexes: Fixed 1987 weights	87.5 87.5	85.2 88.2 117.3	86.0	85,1	86.8	84.2	88.2 88.2 120.3	88.8 88.8 121.6
Implicit price deflator  Durable goods:  Current dollars  Ouantity Indexes:	123.5 122.0		128.4				128.9		Chain-type annual weights Berichmark-years weights Implicit price deflator	114.2 114.2 114.2	117.4 117.4	116.9 118.9	117.9 117.9	118.8 118.8	119.7 119.7	120.4 120.4	121.6 121.6
Fixed 1997 weights Chain-type annual weights Benchmark-years weights Price indexes:	112.1 110.8 110.7	121 <i>A</i> 118.8 118.9		122.0 119.3 119.5		125.7	129.3 125.5 125.7	131.3 127.1 127.3	Producers' durable equipment: Current dollars	119.6	135.6	133.9	136.3	143.8	150.9	153.6	160.6
Fixed 1987 weights Chain-type annual weights Berchmark-years weights Implicit price deflator	111.8 110.4 110.2 108.9	112.2 112.1	112.0 111.8		113.1 113.0	113.8	114.4	117.8 115.6 115.4 111.7	Quantity indexes: Fixed 1987 weights	115.2 111.2 112.1	138.0 126.5 127.4		127.2	134.4	140.5		161.6 148.3 149.3
Nondurable goods: Irrent dollars Luantity indexes: Fixed 1987 weights Chain-type annual weights	128.1 104.5 104.4	132.4		ļ		135.4			Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights .	109.7 107.5 108.7	110.7 107.2 108.5	110.7 107.4 108.8 100.8	107.2 106.4	107.1 106.3	107.5 108.7	112.5 108.2 107.5 98.9	
Benchmark-years weights Price indexes: Fixed 1987 weights	104.4		Pos	st-It™	brar	nd fax	c tran	smitt	al memo 7671 # of pages > /		,	107.3	110.7	118.5	123.0	125.9	125.6
Chain-type annual weights Benchmark-years weights Implicit price deflator	122.7 122.7 122.5	1							co. 16 & P	tu m	) ;	91.8 91.6 91.7	93.6	99.7	102.1	103.8 103.9 103.9	102.1
Services: Current dollars Quantity indexee: Fixed 1987 weights	143.4 112.3								Phone # (415) 973-15 Fax #	61	. 3	118.9 117.2	118.0 118.2	118.8	120.2	121.0	122.8 123.0
Chain-type annual weights	112.0 112.0	1	т т		T.S1						5	117.1 117.2	118.1 118.2				
Fixed 1987 weights	128.7 128.3 128.3 127.7	133.5 133.0 133.0 132.3	132,6 132,6	133.9 133.5 133.5 132.7	135.0 134.5 134.5 133.8	135.9 135.5 135.5 134.4	137.0 138.6 136.7 135.9	138.0 137.8 137.6 138.9	Current dollars		191.1 165.5				1		
Gross private domestic Investment: Current dollare	105.2	117.7	116.1	117.7	123.1	ĺ	138.1		Chain-type annual weights	155.5 156.5	160.8	160.9	158.3	165.8	183.5	159.8	173.9
Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes	96.8 95.5 95.5		104.1 104.1		109.6	114.1	126.9 121.3 121.2		Fixed 1987 weights Chain-type annual weights Benchmark-years weights Implicit price deflator	112.8 112.0	113.4	113.5 112.8	113.4 112.7	113.5 112.7	114.2 113.5	114,9 114,2	115.6
Fixed 1987 weights Chain-type annual weights Senchmark-years weights Implicit price deflator	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	**************************************	**************************************	**************************************	100100014 100100014 110100143	100,000,000,000,000,000,000,000,000,000	4 1224-04-04 VALUE AMPRE ALESSES AMPRE	100641.m24 1-10101044 FEEDAFEEDA IERROLAMA	Imports of goods and services: Current dollars Ouantity indexes:								185.6
Fixed Investment: Current dollars Quantity indexes:		119.9		120.1	125.4		133.7	137.3	Fixed 1987 weights	118.3	133.4 126.7 127.9			131.7	134.4	139.9	144.3
Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes:	100.0 98.0 98.5	106.6 107.2	105.3	106.8 107.2	111.8 112,4	120.8 114.6 115.1		119.1	Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	113.6	112.8		112.5	1125	111.6	113.1	115.1
Fixed 1987 weights	110.9	112.4	114.1 112.3 111.7 108.1	112.7	113.0	118.2 113.8 113.3 107.9	114.6	115.5	implicit price deflator	109.4							



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### SURVEY OF CURRENT BUSINESS

### 7. Quantity and Price Indexes.

Table 7.1.—Quantity and Price Indexes for Gross Domestic Product [Index numbers, 1992-100]

			Seasonally adjusted									Se	sonally	acjust	ed		
	1994	1995		1995			1996			1994	1995		1995			1996	
			"	Ш	N	1	u	D)				ll.	UI	N	1	j)	U
Gross domestic product: Current dollars Chain-type quantity index Chain-type price index implicit price defasor	111.1 106.8 105.0 104.0	118.2 108.0 107.5 107.5	115.4 107.5 107.3 107.3	117.1 108.5 107.9 107.9	117.7 108.8 108.4 108.4	118.9 109.1 109.0 109.0	120.8 110.4 109.6 109.5	122.0 111.0 110.1 109.9	Everyte of coods:		104.1 104.1	1/4 5	104.6	104.3 104.2	128.2 104.4 104.1	103.9	10
ersonal consumption expenditures: Current dollars Chain-type quantity index Chain-type price index implicit price deflator	111 4	1187	1184	1175	118.3	110.0	121.8	122.4 111.2 110.2 110.0	Current dollers Chain-type quantity index Chain-type price index Implicit price delister  Experts of services:	99.5 99.5	102.8 102.8	124.3 123.1 123.1 118.5	128.8 103.3 103.3	131.2	131.7 102.5	133.9 102.8 101.6	13 10 10
Durable goods: Current dollars Chain-type quarity; Index Implicit price index Implicit price deflator	115,0	124.1 118.7 104.6 104.6	117.9 104.8	120.8 104.5	120.3	122.7 104.6	104.1	104.0	Current dollars Chain-type quentity index Chain-type price index Implicit price delizior Imports of goods and services:	105.3 104.6 104.6	107.4 107.4	108.2 107.7 107.6	112.9 107.7 107.7	112.9 108.0 108.0	113.6 106.9 108.8	114,4 109,9 109,8	11
Nondurable goods: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	108.2 105.2 102.8 102.8	112.4 107.8 104.5 104.5	112.5 107.8 104.5 104.5	112.8 107.8 104.7 104.7	113.0 107.7 106.0 105.0	115.2 108.6 106.0 106.0	116.9 109.0 107.3 107.2	116.8 108.9 107.3 107.2	Chain-type quantity index Chain-type price index Implicit price defiator	99.5	102.2	103.2	132.2 102.5 102.5	132.7 101.9 101.8	138.1 101.9 101.7	139,4 102,1 101,8	14 10 10
Services; Current dollers Chein-type quantity index Chein-type price Index Implicit price defiator	111.7 104.6 108.7 106.7	117.6 107.0 109.9 109.9	117.0 108.7 109.7 109.7	118.3 107.3 110.3 110.3	119.7 107.9 110.9 110.9	120.9 108.5 111.5 111.4	122.7 109.3 112.4 112.3	123.9 109.6 113.2 113.1	Current dollars Chain-type quently index Chain-type price index Implicat price defision Imports of services:	125.0	138.7 101.7 101.7	137.2 102.6 102.5	136.8 101.9 101.9	139,3 137,7 101,3 101,2	141.0 101.4 101.1	145.0 101.4 101.1	10
Cruse private domestic investment: Current dollars Chain-type quantity index Chain-type price index implicit price deflator	128.3 123.9 103.5 103.5	134.8 127.8 105.4 105.5	128.1	128.4	127.1	135.2 128.0 105.8 105.8	131.4	146.2 138.2 106.3 105.8	Chain-type quantity index	102.0	111.8	110.7 105.8	112.3	117,0 111,6 104,8 104,8	115.1	115.4	11 10
Fixed Investment: Current dollars: Chain-type guantity index Chain-type price index implicit price defiator	121.9 117.8 103.7 103.7	131.2 124.6 105.4 106.4	129.7 123.3 105.2 105.2	132.3 125.1 106.8 105.8	133.5 120.2 106.9 105.8	138.7 129.3 105.9 106.7	138.9 131.6 106.0 105.5	142.1 134.3 108.5 105.8	Government consumption expenditures and gross investment:  Current dokum	104.3	107.5	107.8 100.1 107.4 107.4	100.0 10 <b>6.</b> 0	107.9 98.9 109.1 109.1	99.3 110.2	110,1	10
Nonreelderdek Current dolars Chain-type quantity index Chain-type price index Implicit price defiator	115.9	132.4 128.0 103.4 103.4	127.4 103.4	128.9	129.7	137.8 133.3 103.7 103.4	103.7	139.2	Federal: Current dollars Chain-type quantity index Chain-type price index	97.8 92.8	97.8 89.4	98.9 8.0e	97,9 89.5 109.3		111.8		11
Structures: Ourrent dollars Chain-type quantity index Chain-type price index Implicit price defiator	106.5 99.9 108.7 106.7	P	ost-	it <sup>e</sup> Fa	ex No	ote		7671	Pate 12-11-96 pages 1 From Mike Tanenbaum	7	2.0 5.1 8.1	93.8 86.5 108.1	92.0 84.9	82.2 109.2		94,1 85.0 110,4 110,8	11
Producers' durable equipment: Current dollars	100.8								co. PG 4F Phone *(415) 973-156		).1 2.3	100.9	112.4 100.8 111.7	112.1 96.8 116.0	114.8 99.0 116.0	115.5 101.0 114.4	10
Razidentiat: Current dollars Chain-type quartity index Chain-type price index Implicit price deflator	107.0					L		116.7	Fax #  Chair-type quentity index	104.7	2.3 1.4 107.2	110.9 113.8 106.9	111.8 115.2 107.6	118,0 118,3 108.0	118.0 117.6 107.7	114.4 119.5 109.5	12
Exports of goods and services:		126.3	124.7	128.1	130.9	131.3	132.9	132,4	Chain-type price index	103.6 103.6		106.5 106.5		107.7 107.7	109.1	109.2 109.2	1

NOTE.— Chain-type quantity and price indexes are calculated from weighted averages of the detailed output and prices used to prepare each aggregate and computers, implicit price defautors are weighted averages of the detailed price indexes used to prepare each aggregate and component and are calculated as the ratio of current- to chained-dollar output multiplead by 10th.

Perpart changes from preceding period for heres in this table are shown in table 5.1,

17 ×  $\frac{126.5}{123.7}$  ×  $\frac{129.3}{126.5}$  ×  $\frac{109.9}{107.9}$  = 17.96