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Decision 90-12-066 December 19, 1990

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Application of PACIFIC GAS AND ELECTRIC COMPANY for Authority to Adjust its Electric Rates Effective November 1, 1990; and for Commission Order Finding that PG&E's Gas and Electric Operations during the Reasonableness Réview Périod from January 1, 1989, to December 31, 1989, were Prudent.

MEDINAL

Application 90-04-003 (Filed April 2, 1990)

(U 39 H)

(Sée Decision 90-10-062 for appearances.)

Additional Appearance

Steven A. Geringer, Attorney at Law, for Western Growers Association, interested party.

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1. Summary of Decision

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By this decision we adopt for Pacific Gas and Electric Company (PGLE) the revenue allocation criteria used in establishing revised electric rates which become effective January 1, 1991. The criteria are then applied in setting rates which implement the revenue increase adopted by Decision (D.) 90-10-062 in an earlier phase of this proceeding, as well as consolidated revenue adjustments resulting from several other proceedings: (1) PGLE's 1991 Attrition Rate Adjustment filing (Advice Letter 1319-E); (2) PGLE's 1991 Cost of Capital proceeding (Application (A.) 90-05-011); (3) PGLE's Customer Energy Efficiency proceeding (A.90-04-041; (4) PGLE's Earthquake Recovery Account proceeding (A.90-05-003); (5) PGLE's Environmental Compliance proceeding (A.89-05-001); and (6) PGLE's Demand-Side Management/Research and Development offset (Resolutions E-3174 and E-3188).

We continue to move toward a system of revenue allocation for PG&E's electric customers which establishes cost-based rates using the equal percentage of marginal cost (EPMC) method, while we avoid the severe rate shock which would occur if agricultural customers were moved abruptly to full EPMC. Movement to fully cost-based rates would require that the rates for that class be increased by an average of 58.25%. By adopting a cap on increases which is set at the system average percentage change (SAPC) plus 3.5%, we raise agricultural rates by an average of 13.94%.

Based on the adopted total revenue requirement increase of \$688.3 million for the consolidated revenue changes, the adopted critéria affect the various rate classes às follows:

ROPLANCE FEW AND ALLOCATION

	Adopted Revenue	Increase
	(<u>1,000's</u>)	Percent
of Periodical	प्राप्ता अव भी	· · · · · · · · · · · · · · · · · · ·
Residential	\$296,280	11.79%
Agricultúral	46,885	13.94%
Missi a Streetlighting ansi 1991 (630 h in Mi	c1 473% of
Medium Light & Power Medium Light & Power	123,817	14.108
Medium Light & Power	73,143	5.82%
- Tag` - ,656 E−19	44,262	12.678
Contracts	103,261	10.07\$ (15 page for a 10.00\$
and the same of the office gaps as	in the part of th	n space Hollynamic
Total System Increase	\$688,278	10,59%

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or to the comment of the following the By D.90-10-062 issued in an earlier phase of this proceeding (PG&E's Energy Cost Adjustment Clause (ECAC), Annual Energy Rate mechanism (AER), Electric Revenue Adjustment Mechanism (ERAM), and Low Income Rate Assistance (LIRA) proceeding), we adopted forecasts of PG&E's resource mix, energy prices, and the related payment factors for power purchases from variably priced qualifying facilities for the 12- month period beginning November 1, 1990. We also adopted the ECAC, AER, ERAM, and LIRA revenue requirements adjustments associated with those forecasts. revenue change authorized by that decision is an increase of \$460,912,000 effective November 1, 1990. We authorized PG&E to defer implementation of rate changes associated with that increase until January 1, 1991 so that a single set of rate changes consolidating the \$480,912,000 increase with adjustments from several other proceedings could be implemented concurrently. This opinion will decide revenue allocation criteria to be used in setting rates which will allow PG&E to recover the consolidated revenue requirement change.

them a Attheitime of the hearings the total amount of the mesons revenue increase to be implemented on January 17 1991 could not near determined, since several of the proceedings to be consolidated for rate implementation purposes were pending at These included the arras. Attrition Rate Adjustment, Cost of Capital; and Earthquake Recovery Account proceedings noted earlier of Based on the amounts requested and the recommendations of other parties in those proceedings, PG&E submitted Exhibit 40, in which it projected a range for the total :: increase of \$646 million to \$756 million. #PG&E considers this was a range to be sufficiently narrow for revenue allocation purposes. (75) PG&E proposed to use an increase of \$700 million por 10.77% for 30) the purpose of developing revenue allocation criteria. Each of the parties submitting revenue allocation testimony used the \$700 million figure. Appendix A shows the development of the final, and consolidated revenue requirement increase of \$688.3 million which is based on the amounts that have been adopted in the various proceedings.

cost-based rates. When rates are fully based on costs, customers pay rates that are proportionate to the costs the utility incurs in serving them. In determining a customer group's cost responsibility, we rely on the marginal costs of various components of service. The emphasis on marginal costs is consistent with microeconomic theory which holds that when buyers pay prices equal to the marginal costs of supplying a good or service, productive efficiency and total welfare are maximized. Revenue allocation is an important step in the translation of marginal costs into rates.

As we stated in PG&E's last general rate case (GRC), revenue allocations based on the marginal costs and the guidelines adopted in the GRC should take place whenever there is a substantial change in revenue requirements, and it is logical that such revenue allocations will be addressed in ECAC proceedings. (D.89-12-057, p. 240a.) Typically, greater revenue adjustments are

encountered in ECAC proceedings than in GRCs. On the other hand, when we adopted a generic plan for processing GRCs and ECACs in ever Di89-101-040, we determined that rate design issues are more minutable appropriately addressed in GRCs and the newly, established annual had arrate design window phase of GRCs rather than in ECAC proceedings that the design window phase of GRCs rather than in ECAC proceedings that the design window phase of GRCs rather than in ECAC proceedings that the property of the series of GRCs rather than in ECAC proceedings that the phase were parties of GRCs rather than in ECAC proceedings that this phase were PGE; the Commission's Division of Ratepayer. Advocates (DRA) provard Utility Rate Normalization (TURN) the error California Farm Bureau Federation and Western Growers Association (California Farm Bureau Federation and Western Growers Association (CLECA) parties and Industrial for the City-County Street Light Association (CAL-SIA) and Industrial for the Users (Industrial Users) for this phase was submitted with the parties receipt of febly briefs on October 12, 1990 and and are all the receipt of febly briefs on October 12, 1990 and are submitted with the receipt of febly briefs on October 12, 1990 and are submitted with the receipt of febly briefs on October 12, 1990 and Industrial Industrial

Comments on the proposed decision of the Administrative Law Judge (ALJ) were filed by PG&E and TURN. Reply comments were filed by PG&E. We have carefully considered these filings in arriving at our decision.

Note: The III. of Marginal Costs of the state of the state of

Marginal costs are the changes in total costs resulting from an incremental change in a specified element of the utility's operation. We consider three general types of marginal costs for electric utilities. Marginal capacity costs measure the costs that change with changes in kilowatts of peak demand. Marginal customer costs are the costs of providing access to the utility's system, meter reading, and billing that change as the number of customers changes. Marginal energy costs vary with changes in kWh of energy. In PG&E's last GRC we adopted marginal capacity and marginal customer costs, and provided for their use in subsequent allocations. Marginal energy costs are updated in each ECAC

proceeding to incorporate the adopted resource assumptions, analyzed Appendix Contains the previously-adopted marginal costs which are carried forward from the GRC as well as the marginal energy costs in and an adjustment to the marginal generating capacity cost, discussed below.

A. Marginal Knergy Costs and with the company of manay with

PG&E presented marginal energy costs based on the resource assumptions underlying the joint recommendation of parties which was submitted in the resource and revenue requirement phase of this proceeding. In developing the marginal costs, PG&E used ratios for the various time-of-use periods which were derived through application of the zero-intercept method in the last GRC. PG&E notes that the ECAC schedule does not permit the number of production simulation model runs necessary to apply the zero-intercept method and obtain updated ratios.

One of the primary components of marginal energy costs is the forecasted cost of natural gas. Consistent with the procedure adopted in the GRC, PG&E used the average utility electric generation (UEG) cost of gas exclusive of customer costs.

PG&E's proposed marginal energy costs were uncontested, and were used by other parties in developing their revenue allocation proposals. We agree that PG&E's methodology is consistent with that used and adopted in the last GRC and is appropriate for an ECAC proceeding.

B. <u>Knergy Reliability Index</u>

As previously noted, the marginal capacity costs adopted in the GRC are used in performing subsequent revenue allocations. (D.89-12-057, p. 240a.) However, the marginal generation capacity cost of \$56.17/kW-yr adopted in that decision was multiplied by a

six-year average Energy Reliability Index (ERI) afactor of We hasong indicated that the ERI factor would be updated whenever revenue again allocation occurs that a self-us (fee as 500 out could be a before

"The values for the six years of ERIs for this proceeding should be derived from the long-term resource plan. The average of the ERIs for the six years beginning with the test year is a control of the most recently adopted series of ERIs should be used to calculate the average ERI used in revenue allocation and rate design. The (Biennial Resources Plan Update (BRPU)) proceeding will likely be the primary source of future series of ERI projections." (D.89-12-057, p. 201.)

to be used in updating the six-year average ERI.

1. The Parties' Positions

A STATE OF S

PG&E used the same series of ERIs that was adopted in the 1990 GRC. The average ERI of 0.418 adopted in the GRC was based on the six years 1990 through 1995 inclusive. For this year's ECAC, PG&E updated the six-year average by deleting the 1990 value of 0.400 and adding the 1996 value 0.716 from the same reliability model run, yielding a proposed ERI of 0.471. PG&E argues that no other series of ERIs based on a long-term resource plan has been

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The ERI is derived from the utility's resource plan and reflects the relation of forecasted reserve margin to target reserve margin.

¹ An ERI of less than 1.0 signals that the utility has more than the needed capacity to meet its target reserve margin, and that resources other than the combustion turbine may be the sources of marginal generation capacity. The existence of lower-priced sources of marginal generation capacity for utilities with adequate capacity makes it logical to derive marginal costs from those sources. Using the ERI adjustment reflects the expected availability of lower-priced sources of marginal generation capacity.

adopted by the Commission, and that its proposal is therefore the correct one under the GRC: guidelines, with the total quidelines.

PG&B's April 1990 Phase 1B compliance filing in the BRPU (filed of your pursuant to D.90-03-060 in 1.89-07-004) will provide a more meaningful value. DRA proposes using values from this series for the years 1992 through 1996 and, for 1991, the ERI of 1.0 adopted in the joint recommendation of parties in the earlier phase of this proceeding. Acknowledging the GRC decision's provision for using the most recently adopted series of ERIs, DRA suggests that the Commission should decide whether strict adherence to that language is desirable here. DRA's proposal results in a six-year average ERI of 0.754.

CLECA adopted the same approach as DRA, and arrived at the same recommendation for an average ERI of 0.754. CLECA states that while PG&E's recent filing in the BRPU case has not been "officially" adopted by the Commission, it was prepared pursuant to specific Commission instructions set forth in D.90-03-060.

Industrial Users support the DRA/CLECA recommendation for an ERI of 0.754, based on the belief that the BRI numbers favored by DRA and CLECA are the best available evidence at the present time and that they will be adopted in the BRPU proceeding.

In addition to disagreeing with the proposal to use the ERIs from its BRPU filing, PG&E criticizes the use by DRA, CLECA, and Industrial Users of an ERI of 1.0 for the 1991 value in the six-year average ERI. This is the value that was proposed in the joint recommendation and adopted by D.90-10-062. PG&E notes that this value was proposed for adjusting as-delivered capacity payments to qualifying facilities in the 1990-91 ECAC forecast period, which is a short-term resource plan. PG&E believes this violates the GRC plan to use the adopted ERI series from the long-term resource plan.

adopted by the Corrission, and that its proposal moissions. See

PG&B updated its six-year average ERI factor from that the adopted in the GRO by deleting the 1990 value and adding the 1996 value of However, it used the same ERI series for the update ORAP CLECA, and Industrial Users argue that this series is outdated outlet

We agree that the long-term resource plan data adopted in PG&E's last GRO are somewhat dated, but we are reluctant to utilize the data series filed by PG&E in its Phase 1B BRPU filing instead. Despite the characterization of PG&E's filing as a compliance filing made pursuant to specific directives in D.90-03-060, the fact remains that those ERIs have not been adopted by the Commission.

As noted by PG&E in its reply brief, adoption of ERI values proposed in another proceeding which is pending could have the effect of prejudging the outcome of that proceeding. Adopting an ERI factor which is too high could result in ratepayers paying more for peak capacity than is justified by system circumstances. We are not persuaded that filed but yet-to-be-adopted ERI values constitute a sufficient basis for raising peak capacity costs in this proceeding. For this ECAC, we will adopt PG&E's proposal to use values adopted in the GRC. We anticipate that for future revenue allocations, we will be able to follow the plan we envisioned in the GRC to use recently-adopted BRPU values. However, if decision timing problems persist, it may be necessary to adjust that plan.

The other ERI issue is whether to use a value of 1.0 for the 1991 value in the six-year average. That value was adopted by the parties (including PG&E) to the joint recommendation in the first phase of this proceeding. We believe the parties making this proposal have not given adequate weight to our directive in the GRC decision that "[i]n future proceedings, the most recently adopted series of ERIs should be used in revenue allocation..."

(D.89-12-057, p. 201; emphasis supplied.) We provided for a series

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to be derived from the utility's long-term resource plan, and anticipated a single proceeding involving that plan, most likely the most recent BRPU proceeding. We did not anticipate that a single year's value, derived in the ECAC proceeding for the purpose of adjusting capacity payments to qualifying facilities, would be combined with a five-year series of values derived from the proceeding which addresses long-term planning issues.

We conclude that for 1991, PG&E's six-year average ERI factor of 0.471 should be adopted for revenue allocation purposes.

IV. Interclass Revenue Allocation

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After marginal costs are developed, they are used to allocate the utility's revenue requirement to the customer classes, and then to the various schedules within each class, according to the costs that the class or schedule imposes on the system. In recent years we have repeatedly stated our intent to allocate revenue among the customer classes based on an equal percentage of marginal cost (EPMC). The EPMC approach first calculates the revenues that would result if each customer class paid prices equal to marginal costs for the services the class requires. Because the resulting marginal cost revenues rarely equal the utility's revenue requirement, the marginal cost revenue must be adjusted to equal the revenue requirement for the system. The same percentage change is applied to the marginal cost revenues for each individual customer class in order to derive the EPMC revenue allocation for that class.

Page 1 of Appendix B shows that for the consolidated 1991 PG&E revenue requirement increase, the marginal costs adopted in the previous section combined with a \$688.3 million system increase yield a revenue allocation which would result in the following increases if each class were moved to its full EPMC allocation:

to be derived from the utility's long-term recourse plan, and
viodil toom and dedit edition EPAC Revenue Allocation to include the control of t
a Customer Class don from all (1,000's) require Percent of the content
company addiged nicharons been been discipled to sale and a sure a sure
14 6 (CAgricultural) Paintifes of 195.860 might 58.25% into the last
Streetlighting 630 1.738 Small Light & Power 118,091 13.458 Medium Light & Power 39,937 31.188 mails and
Medium Light & Power of the 1939, 937 models 3:18% paire rate
23 4 E-19 4 5 5 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5

Total System Increase \$688,278 10.59% notherolly opened costs of a .Vt

The foregoing table shows that in this case, as in other recent revenue allocations, movement to full EPMC would result in a very substantial increase for the agricultural class. The increase of 58.25% is far greater than the increases required to bring other classes to full EPMC. We have previously stated our concerns about such large increases. Thus, although we have stated our intent to move toward an allocation based on EPMC, we have also moderated our progress toward EPMC to avoid disruptive rate effects of that magnitude.

In this case, all parties endorse in principle the EPMC approach, with some limits to moderate the rate effects on particular classes. They differ, however, on the levels of appropriate caps and floors, particularly for the agricultural class. Our discussion of interclass allocation will accordingly focus on the parties' reasons for advocating their favored levels of caps and floors. We first address an issue that arose in the calculation of the system average percentage change (SAPC) which is used as a reference point for defining caps and floors. We then discuss the various proposals for caps and floors. Finally, we address the appropriate adjustment for the streetlighting class, which was accorded separate treatment in the GRC.

Also System Average Percentage Change stays (foravo no set desit and) at behalf Our decisions in 1.86-10-001 have permitted utilities to enter into special negotiated rate contracts with customers who set have the ability to bypass the utility's system. In last year's med GRC we adopted an approach to revenue allocation which excludes all sales and revenues associated with special contracts from the sale revenue allocation process. (D.89-12-057, pr.245) have the main main and

Example 2 For this proceeding, parties disagree on whether / for the capping purposes, the revenues from special contracts should be the excluded from the calculation of the SAPC.

1. The Parties! Positions are also as a large of the second

163 le viel PG&B proposes the inclusion of special contract revenues in calculating the SAPC around which caps and floors are determined. PG&E notes that this is consistent with the manner in which the Commission Advisory and Compliance Division implemented the GRC last year. PG&E also believes that such inclusion best and accomplishes the Commission's intent to maintain interclass relationships as if the need for special contracts had not arisen. CLECA believes that the determination of the SAPC which is used to define caps and floors is part of the revenue allocation process. Since the Commission has excluded the sales, marginal costs, and revenues associated with special contracts from the revenue allocation process, CLECA believes it is clear that the Commission intended to exclude the revenues from the calculation of the SAPC for capping purposes. DRA concurs with CLECA, noting further that in Finding of Fact 219 of D.89-12-057 the Commission found that removing all special contract sales and revenues from the revenue allocation process leaves the relationships among the other classes unchanged.

2. Discussion

Because the special contract rates are not increased by the revenue allocation process, PG&E's inclusion of special contract revenues has the effect of lowering the SAPC. Appendix B shows that for an overall system increase of 10:59%, the allocated revenue SAPO is 10:78% if special contract revenues are included in the calculation of the SAPO and 10.96% if such revenues are included in excluded. Under most proposals, caps are defined in relation to vertice allocated revenue SAPO. Inclusion of special contract revenue in the denominator of the percentage calculation has the effect of lowering the percentage increase applicable to capped classes and this will in turn slow the movement of such classes to full EPMC allocation calculation calculation and allocation calculation calculations.

D.89-12-057 did not explicitly state the Commission's intent that special contract revenue be excluded from the SAPC calculation, but we believe that such an intent is reasonably clear from the decision's more general provision for excluding sales and revenues from the revenue allocation process. We reaffirm that intent here. We agree that it would be inconsistent to exclude special contract sales, marginal costs, and revenues from the initial EPMC allocation (as all parties including PG&E agree should be done), then include such revenues for the purpose of defining caps. We find no basis for adopting such an inconsistent approach at this time.

B. Caps and Ploors

In PG&E's last GRC we indicated that in subsequent allocations we would use caps and floors of SAPC plus or minus 5% as guidelines in developing a revenue allocation, except for the streetlighting class. However, we also cautioned parties against overrelying on this figure or this formula, and reserved the right to fit the revenue allocation to the particular circumstances faced at the time. (D.89-12-057, p. 241.) We reaffirm both the guideline and the need to fit the caps and floors to current circumstances as we approach the issue for this case.

The predominant issue in this proceeding was the degree to which the agricultural class should be moved towards a full EPMC revenue allocation. An allied issue was the way in which the reduced to the state of the

shortfalleinerévenues from the agricultural colass should be made up by thécrémaining classes: The parties proposals aré summarized pobleto. Last base come est un bedont au propin est un bedont au partie from a partie proposals aré summarized pobleto. La partie proposals aré summarized pobleto. La partie proposals aré la partie proposals ar

agricultural customers, and caps and floors of SAPC plus or minus 5% for the remaining customers (with the excéption of the commission should continue the 2% cap for agriculture set in the own GRC. It (D.89-12-057, pp. 240-240a.) The company also believes that the Commission should temper movement of agricultural customers to full EPMC pending completion of a study of agricultural rate issues that was ordered by D.89-12-057 (Ordering Paragraph 52), noting the Commission's reference to "harsh rate impacts that may not be well justified." (Id., p. 240.) Because of the large projected system increase of 10.8%, PG&E revised its allocation proposal by limiting the caps and floors to SAPC plus or minus 2% for all classes except streetlighting.

PG&E asserts that under the higher caps for the agricultural class proposed by other parties, the class would face "severe" increases, ranging from 14.94% to 18.37%, compared to 12.46% under PG&E's proposal. PG&E further asserts that the circumstances which led the Commission to adopt a 2% cap in the GRC have not changed. These include the conversions of customers to time-of-use (TOU) schedules, which are still taking place. Given the impact of such conversions on measurements of class revenue responsibility, and the possibility that the required study could lead the Commission to reconsider the EPMC responsibility of the class, PG&E argues it would be imprudent to move too rapidly to full EPMC at this time.

caps and eliminate floors of PG&B observes that a revenue allocation scheme using caps and floors was adopted in the GRC, and does noted believe that the record in this case is sufficiently well developed to provide a basis for eliminating floors.

b. no CFBP harten that he again to be a part yellow their took at

cost based rates, but in view of the very significant system increase in this case, it recommends an increase for agricultural customers which is limited to the SAPC. Larger increases would assertedly cause rate shock for this class. CFBF notes that in last year's GRC, the Commission adopted a cap of 2% over SAPC in a lieu of the guideline cap of 5% when the revenue increase being allocated was \$272 million. Since the consolidated increase involved in this proceeding is about \$700 million, CFBF believes that a lower cap is appropriate. Alternatively, if the Commission determines that there should be some movement to EPMC for agricultural customers, CFBF "grudgingly" supports FG&E's proposed cap of SAPC plus 2%.

CPBF echoes PG&E's observation that in the GRC decision, the Commission tempered movement of the agricultural class to EPMC in part due to the ongoing conversion of customers within that class to TOU schedules, and that this situation persists. New agricultural load patterns resulting from this conversion process are still not fully reflected in marginal cost data which underlie the revenue allocation calculations. CFBF agrees with PG&E that the agricultural rate study ordered by the GRC decision could serve as a basis for changing allocations, and that the Commission might "overshoot" the EPMC target if it moves too quickly towards current EPMC estimates. Moreover, CFBF argues that marginal cost ratemaking is in its infancy. According to CFBF, until cost of service analysis progresses to a more exact process, the Commission's rush to a full EPMC allocation must be balanced

against the negative impact that can be experienced by certain addition groups, south account of the incertainty it is independent of a proximate that an independent of the incertainty it is independent of a proximate cost ratemaking, CFBF points to additional factors which, without believes, support its recommendation of First, agricultural based of customers as a class received an increase of 8.3% last year, with a most schedules receiving almost 10%. When combined with this year's increase and other anticipated increases, CFBF states that a cumulative effect dould be increases which exceed 40%. Second, 1973 movement of agriculture to EPMC is small when measured by customer billings, 1975 or example, when the 8% cap proposed by TURN is compared with the 2% cap proposed by PG&E, the result is an average savings of \$4 per year for each residential customer and an average increase of \$200 per year for each agricultural account.

C. TURN

TURN points out that there has been virtually no progress in moving the agricultural class towards EPMC since the Commission began a program of aggressive implementation of EPMC-based allocations in 1986 by D.86-08-083. Since that decision, residential rates have increased by 36.9%, or 13.2% more than SAPC, while agricultural rates have increased by 24.1%, or just 0.4% more than SAPC. The migration of agricultural customers to lower cost rate schedules has almost completely offset the minor increases that have occurred. To achieve what it considers significant progress in moving the agricultural class to EPMC, TURN proposes capping the agricultural class at SAPC plus 8% and all other classes at SAPC plus 5%.

TURN believes that proposals of the other parties for lower caps do not provide for sufficient progress in reducing the agricultural subsidy, particularly in light of the small 2% cap applied in the GRC. TURN states that if the Commission had adopted a 5% cap in the GRC, it probably would have recommended a 5% cap at

this time to TURN notes testimony showing that life a 2% cap above is no SAPC were to be consistently applied in PG&E's revenue allocation in proceedings, it could take as:long as:19 Years to achieve full EPMC for the agricultural class, a Even though that estimate is subject on to certain assumptions, TURN believes it is clear that a 2% cap it is cannot result in reasonable progress. Eventually a fine of the contractions

TURN also disagrees with the 2% floor proposed by PG&E 🔩 because it can distort the revenue allocation process. Under some scenarios à 2% floor may résult in failure to allocaté alle de des revenues. The state of the second A Children sent there is no type year

d. CLECA

CLECA withess Barkovich initially advocated a cap and extension floor of 5% above and below SAPC. Barkovich acknowledged, however, that a more uniform sharing of the agricultural subsidy results without a floor. CLECA therefore supports implementation of full EPMC allocation with a cap of 5% on individual classes and no floor on class decreases. CLECA does not oppose TURN's proposed 8% cap for agricultural customers. Strain America

Like TURN, CLECA favors achieving significant progress toward the Commission's frequently-stated goal of a full EPMC revenue allocation in this case. It characterizes the progress to date in phasing in EPMC as "excruciatingly slow". CLECA notes that with the sole exception of the agricultural class, PG&E's customers are paying a relatively even share of the overall revenue requirement burden on an EPMC basis. The agricultural class pays far below its EPMC share, which is not only unfair, but sends incorrect pricing signals. CLECA urges that this problem be corrected faster than recommended by either PG&E or DRA.

CLECA also faults PG&E's and DRA's proposals because they inadequately allocate the remaining revenue requirement (after allocation to agriculture) among the other classes. The combination of caps and floors recommended by those parties results in a narrow range that can create disproportionate allocation

burdens and anomalies such as inability to allocate the total quality revenue requirement. As an example, CLECA refers to DRA(s 3.5% cap and floor proposal, which, although it manages to allocate 100% of the revenue, causes disproportionate impacts on the residential class and the E-19 class since they are the only classes left after the others have hit caps or floors. Under this proposal, the managricultural classes pay anywhere from 100.08% to 103.26% of the full EPMC allocation. By removing the floor, the 3.5% cap yields a more even allocation with all but one nonagricultural class paying the same 102.55% of full EPMC. A similar leveling of the revenue burden occurs when the floor is removed from CLECA(s 5% cappeds allocation.

e. Industrial Users

Industrial Users share TURN's and CLECA's concern about the lack of meaningful progress in eliminating the subsidy to agriculture. While they recognize the need to balance two separate and distinct policies of moderated rate increases and cost-based rates, they urge adoption of a cap of at least 5% above SAPC and no floors. Industrial Users also urge adoption of TURN's proposed 8% cap for the agricultural class to "rectify" the negligible progress of that class towards full EPNC over the last three years. Industrial Users note that under PG&E's proposal, the subsidy to agriculture would be approximately \$150 million. TURN's proposal for an 8% cap over SAPC reduces that subsidy by approximately \$19.9 million, which Industrial Users consider a modest reduction.

f. CMA

CMA believes that the Commission's revenue allocation proceedings have focused too much effort on formula approaches to setting the proper caps and floors and too little attention on the reasonableness of the end result. CMA suggests that a more equitable procedure is to simply allocate revenues so that all unprotected classes pay the same percentage of marginal cost. For

this proceeding, this Would ensure that the agricultural subsidy is borne in equal proportion by all other classes. The primps and we to 200 Assuming the agricultural class is capped at SAPO plus but 5%, CMA submits that an allocation based on a cap of SAPO plus 5% if for all classes and no floors best achieves an equal sharing of the agricultural subsidy. However, CMA would support the reduced to add agricultural subsidy inherent in TURN/s 8% cap proposal. Here agricultural subsidy inherent in TURN/s 8% cap proposal.

In its initial proposal, DRA recommended uniform caps and floors of 3.5% above and below the SAPC. DRA would prefer adopting the guideline figure of 5%, but because of the impacts of overall system increase, it believes that the rate shock would be too great for some schedules. Even with DRA's 3.5% proposal for interclass (and intraclass) allocation, some agricultural schedules would be increased by almost 20%. Under the 5% cap of other parties, some schedules would face increases of more than 20%. On the other hand, DRA believes that PG&E's 2% proposal makes too little progress in moving agriculture to full EPMC.

In its reply brief, DRA modified its position somewhat by recommending a "no-decrease" floor instead of a floor of SAPC minus 3.5%. DRA agrees with the arguments of CLECA and CMA that removing the floor can more equitably distribute the agricultural subsidy than a 3.5% floor. DRA had originally used a symmetrical approach for consistency with the GRC decision, but finds that the criticisms of traditional symmetrical caps and floors have considerable merit. Based on the extensive modeling work performed by CLECA (Exhibit 49), DRA believes that maintaining symmetry may indeed create inequities. Because there is a system increase in this case, DRA believes that a no-decrease floor (instead of no floor) is the more equitable approach.

gosl, we reject the proposal of CHE for a cop of **moissupsid** ha**;s** of

All of the parties have recognized our commitment to 3301 marginal cost pricing through the BPMC method. With the exception of CFBF, fall of the parties have recommended that at least some than progress be made towards reducing the variance between current . The later than the later to the progress of t allocations and the ultimate goal of a full EPMC allocation for all classes. At the same time, no party has recommended moving the the agricultural class to a full EPMC allocation in this proceeding, the apparently in recognition of the severe rate shock that would be the associated with a 58% increase in average rates for the class. The issue is whether any increase over and above the SAPC should be well imposed on the agricultural class at this time, and if so, to what extent should progress to full BPMC be moderated. We are presented with a range of proposals ranging from SAPC only as recommended by CFBF to SAPC plus 8% as proposed by TURN and supported by CLECA, CMA, and Industrial Users. The proposals of PG&E and DRA fall within this range.

For the reasons explained below, we conclude that the approach recommended by DRA, which includes a cap of SAPC plus 3.5% and a no-decrease floor, provides the best balance of our goals of achieving a full EPMC allocation and avoiding excessively large rate increases for any particular customer class. Other proposals either move too slowly toward EPMC or result in unbearably large increases to some classes.

In weighing the impact of the substantial system rate increase and possible additional increases on the agricultural class, we cannot ignore the impact of the system increase and the agricultural subsidy burden on the other classes. As noted by CLECA, precisely because of the large system increase, the continuing burden of the agricultural subsidy on other customers is less tolerable in this case. For this reason, and because of our desire to achieve significant progress towards the EPMC allocation

goal, we reject the proposal of CFBF for a cap of SAPC and that of PG&E for a cap of 2% above SAPC or such softman each so (14)

more increase We also reject the suggestion that we are bound by our <math>maction in last year's GRC decision to adopt a cap of 2% at this and the time. One of our primary reasons for adopting a 2% cap in the GRC of was our recognition of the conversion of agricultural customers to . TOU schedules, and the impact such conversions could have on usage patterns. As CPBP points out, this situation still exists, and changing use patterns are still not fully reflected in the marginal. cost elements that underlie the RPMC calculations before us today. Nevertheless, in this proceeding we must strike a balance based on . all of the facts before us this year, including the large system . I increase and the impact it has on all classes. We view the TOU conversion process and the effect it may have on marginal cost assignments to the agricultural class as reasons for proceeding with caution at this time. As explained below, we believe that the 3.5% cap we are adopting for agriculture in fact represents a cautious approach.

We find CFBF's argument for limiting the agricultural rate increase because of the last year's increase of approximately 10% for most schedules to be unconvincing. Most of the increases which were faced by agricultural customers were also faced by the remaining customers. Similarly, we give little weight to the argument for attenuating the agricultural increase because the increase per account in dollar values far exceeds the decrease received by the average residential customer. In evaluating the overall interest of a class, we cannot discount the interest merely because the class is composed of large numbers of small users.

CFBF has characterized the other parties' proposals as an unjustified rush to EPMC given the uncertainty it finds with the present state of marginal cost analysis. However, given the minimal success achieved so far in progressing to EPMC and removing the agricultural subsidy, the 3.5% cap adopted today can scarcely

bel considered as a frush when the full EPMC revenue allocation requires a 58% oldss increase with the Annal the same of a being orage.

rate study ordered in the GRC decision (astudy which has yet to be formally considered by the Commission), we are presented with no firmally considered by the Commission from the use of marginal costs which were considered and adopted in the GRC and which have been the updated in this proceeding. We are confident that our adoption of a capiof SAPC plus 3.5% in this case runs no reasonable risk of marginal costs a covershooting, the EPMC target for agriculture if the considered and adopted and adopted and adopted and adopted and that our adoption of a capiof SAPC plus 3.5% in this case runs no reasonable risk of marginals.

of 5% and the 8% cap recommended by TURN both result in excessive increases this year. The evidence indicates that a cap of 5% could lead to some agricultural schedules receiving increases in excession 20%, with a class increase of approximately 16%. Under TURN's proposal the agricultural class receives an increase of 18.37%, and depending on the intraclass allocation method, individual schedules would receive in excess of a 20% increase. In our judgement, a revenue allocation which yields schedule increases exceeding 20% in this proceeding does not represent a reasonable balancing of our ratemaking goals.

We note that several parties seem to believe that our past actions in balancing these goals need to be rectified at this time. In essence, they are requesting that we adopt an increase for agriculture which exceeds an amount that would otherwise be reasonable in order to make up for earlier actions. We reject such an approach. Our goal has always been to move as soon as reasonably possible to full EPMC for all classes. Adopting a cap of 3.5% above SAPC does not rectify past actions, nor is it intended to. Instead, it represents our judgement with respect to the maximum reasonable progress we can achieve now.

noise Although we have determined that a 13.5% cap above SAPC is appropriate, we agree with DRA and other parties that a symmetrical: floor of 3.5% below SAPC may cause unnecessary distortions in the allocation to the various classes. OThe extensive revenue yours when allocation modeling presented by CLECA shows that with the large of system increase and with daps of 2%; 3,5%; or even 5%; the mi sind allocation is more equitable without a symmetrical floor Rather and than adopting an allocation with no floors; we will adopt the more or conservative approach recommended by DRA to impose a floor of no and decrease. This results in an allocation in which most an results on allocation in which most an results over nonagricultural classes are paying the same percentage of the full EPMC allocation, which we agree is more equitable; 1888 1888 and 1 Given the wide variance between current agricultural action rates and the rates associated with the full EPMC allocation, it appears likely that the issue of agricultural rates will be present in revenue allocation proceedings for some time to come. Because we wish to achieve our EPMC goal as quickly as reasonably possible, we are disappointed by the lack of information in this record on the the ability of the agricultural class to tolerate rate increases: While we are very concerned about rate increases exceeding 20% and have refrained from imposing such increases in this decision, we are not fully convinced that such increases cannot or should not be tolerated in future years. We cannot simply accept CFBF's assertion about rate shock that "you'll know it when you see it." We would prefer to rely on more objective data on the demand of the agricultural class. For future revenue allocations, we expect parties who urge us to depart from our guideline cap of 5% to present specific evidence demonstrating that such departures are warranted or required by the nature of the demand of agricultural customers for electric service.

C. m Streetlighting t mi lorelle of mollabae gener utility of the space

In the GRC decision we stated our intent to move the count streetlighting class to full EPMC within three years. We moved that class one-third of the way in that decision. We determined that the effect on other customers would be minor. (D.89-12-057) p. 240.)

1. The Parties! Positions when the control of the c

full EPMC allocation. CAL-SLA disagrees with DRA's proposal to the extent italimits any rate decrease that would otherwise be enjoyed by the class. CAL-SLA also proposes adoption of an energy charge of \$0.07165 per kWh.

To be consistent with the GRC decision, PG&E proposes moving the streetlighting class to the higher of full EPMC or one-half the distance between present allocation and full EPMC. Under PG&E's proposal this results in an increase of approximately 1.8%. PG&E disagrees with CAL-SLA's request to adopt a specific energy charge. As noted, DRA recommends moving the class one-half of the way to EPMC, resulting in a decrease of 0.9% under its proposal.

TURN states that it takes no position on the allocation for the streetlighting class except to note its past support for more rapid movement of the class to full EPMC, its small size, and its public character. Similarly, CLECA did not take a position on streetlighting rates, although its witness noted the minimal impact on other classes.

2. Discussion

We find there is in fact little real controversy on the allocation proposals for this class. As PG&E witness Horii testified, the difference between the DRA's and PG&E's EPMC calculations is likely due to the different ERI values used to adjust the marginal generating capacity cost. Thus, DRA's recommendation is offered in the context of a decrease for the

class while PG&E's recommendation is offered in the context: of (an.) increase. We not harded and bolishes so appoint that at

consistent with each other and with our stated intent in the GROCAL decision. As shown in Appendix B, our adopted marginal costs and result in an EPMC-based increase of 1.73%. Adoption of this are increase on a full EPMC basis is consistent with the ERC decision. We agree with PGEE/that adoption of CAL-SLA's specific energy charge proposal is inappropriate because it is based on an illustrative revenue requirement. The adopted energy charge will reflect the final, adopted revenue requirement and revenue allocation criteria.

V. <u>Intraclass Revenue Allocation</u>

Once revenue is allocated to the customer classes, the revenue responsibility determined for each class must be divided among the various tariff schedules making up the class. In the GRC decision we adopted a guideline for intraclass allocation consistent with that adopted interclass allocations. This consists of a cap of 5% above the class average percentage change (CAPC) and a floor of 5% below the CAPC. (D.89-12-057, pp. 252-253.) This approach was applied to all but the AG-5 schedules. Because of our concern over the possibility of bypass, we set the revenue responsibility for AG-5 equal to its marginal cost revenue responsibility to aid in keeping the schedule competitive with alternative pumping fuels. (Id., p. 253.)

² References to AG-5 schedules and AG-5 rates in this section apply to Schedules AG-5B and AG-5C only, and not to Schedule AG-5A.

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minus 5% to Because of the relatively low allocation to the AG-5 look schedules that generally results under the GRC method, and the correspondingly higher allocation to the other agricultural of didinary schedules, PG&E recommends a capped EPMO allocation to the AG-5 and schedules and an equal percentage increase to the other schedules to recover the class, remaining revenue. PG&E notes that under after DRA's application of the GRC approach, AG-5 rates would receive an approximate 8% increase while the remaining agricultural schedules would receive hearly a 20% increase, which it considers excessive. PG&E states that its capped EPMC approach for AG-5 results in increase of 10.5% for AG-5, thereby moderating the increases to the other schedules. PG&E agrees with testimony of TURN (described and below) that AG-5 schedules can bear this additional increase.

DRA recommends consistency with its interclass allocation, and therefore recommends a cap of CAPC plus 3.5% and a no-decrease floor. (DRA initially recommended a floor of CAPC minus 3.5%, but subsequently revised this recommendation for consistency with its revised interclass floor recommendation.) DRA also initially used the GRC guideline for the AG-5 schedules by allocating those schedules the EPMC share of intraclass revenues with a floor of marginal cost revenue responsibility. Upon further review, DRA agreed with PG&E, CFBF, and TURN that additional increases could be assigned to the AG-5 schedules. DRA recommends assigning a uniform increase to all of the agricultural schedules, including AG-5.

TURN opposes PG&E's 5% cap because it results in a wide gap between increases for residential TOU and seasonal schedules and increases for the other residential schedules. TURN believes that using the same caps for intraclass as for interclass allocation results in a more equitable distribution of the revenue increase among residential customers.

for the AG-5 schedules than that which results from the GRC method used by DRA; while at the same time the ability of those schedules to compete with alternative pumping fuels is preserved. The study which found AG-5 rates to be competitive with diesel pumping used a diesel price of 55 cents perigallongs (D.90-04-022.) TURN(s is the withess Narcus estimates that that the rise in fuel prices since the time of that decision has raised the cost of diesel pumping by approximately 3.7 cents per kWh. This is expected to decline somewhat next summer based on futures prices, but will still be 2.9 cents per kWh higher than the cost adopted in D.90-04-022.

CFBF believes that under any adopted proposal, AG-5 rates can be raised by an amount which is at or near the system average increase. While mindful of the Commission's desire to keep the AG-5 schedules competitive with alternative pumping fuels, CFBF agrees with TURN that world events affecting fuel prices permit such an increase while preserving competition.

B. Discussion

We agree with TURN and DRA that consistency of interclass and intraclass caps and floors is desirable because the need to ameliorate increases to individual schedules is just as important as the moderation of class increases. We will adopt DRA's recommendation for a cap of 3.5% over CAPC and a no-decrease floor.

No party has challenged TURN's showing that the AG-5 schedules can bear larger increases than those first proposed by DRA. On the other hand, we are not persuaded that an estimated increase in diesel pumping costs of 2.9 cents per kWh during the next pumping season justifies an AG-5 increase of more than 14% as recommended by DRA. We are persuaded that an increase equal to the SAPC as suggested by CFBF is justified, and will so provide. Compared to DRA's original proposal, which yielded increases of nearly 20% for the remaining agricultural schedules, this will

require smaller increases of approximately 15% to 16% for those schedules require are 200 for 700 to 200 million of his mean the immortal edge of the control of the million of the immortal edge of the open of the control of the con

As previously noted, we have determined that rate design a issues are more appropriately considered in GRCs and their related rate design window proceedings than in ECAC proceedings. However, issues can arise in the application and interpretation of established rate design criteria. Two such issues have arisen in this case.

A. Residential Tier Differentials

Proposals to close the current residential tier

differential (the difference between the lower baseline or "Tier 1"

rate and the higher Tier 2 rate) will be addressed in PG&E's vice pending rate design window proceeding. However, a disagreement arose over the method by which the differential should be maintained for the time being.

1. The Parties' Positions

Currently, PG&E's Tier 2 rate is 3.446 cents/kWh, or 36.7%, higher than the Tier 1 rate. The rate proposals of both PG&E and DRA maintain a constant cents/kWh differential between the Tier 1 and Tier 2 rates. Due to the overall increase in rates, this method reduces the differential (based on PG&E's rate proposal) on a percentage basis to 32.3%.

³ PG&E and DRA presented slightly different calculations of the current composite Tier 1 rate. (Exhibits 52 and 54.) PG&E shows the composite Tier 1 rate to be 9.396 cents/kWh, while DRA shows it to be 9.411 cents/kWh. Related calculations of the tier differentials vary accordingly. DRA does not explain its difference with the current composite Tier 1 rate calculation presented by PG&E. We accept PG&E's calculation, and for clarity our discussion refers only to it.

constant cents/kWh differential, PG&E and DRA are improperly interior proposing to reduce the percentage differential. TURN requests that the 36.7% differential be maintained. TURN notes that the Commission reduced the tier differential by 25% in the last GRC, and that the 36.7% differential for PG&E's electric rates is already the lowest of any major California utility. TURN argues that no reason exists for further reduction in that differentials are

PG&E and DRA argue that maintenance of a constant cents/kWh differential is consistent with prior Commission decisions. (D.88-12-031 and D.89-12-057.) PG&E also argues that TURN's methodology results in rates which violate the spirit of SB 987, the baseline reform legislation, by establishing a wider tier differential in cents/kWh and a higher non-baseline rate. Finally, PG&E believes that the issue of whether to maintain the differential in percentage or absolute terms is more properly addressed in the rate design window.

2. Discussion

TURN is correct when it observes that if the absolute value of the tier differential is unchanged while both tiers increase, the tiers have moved closer together in percentage terms. At the same time, PG&E and DRA are correct in observing that if the percentage differential is left unchanged while the Tier 1 and Tier 2 rates are increases, the differential will increase in absolute terms. (Under FG&E's rate proposal, the absolute differential is increased by 11.9% from 3.446 to 3.856 cents/kWh if the percentage is unchanged.) Both observations are necessary arithmetical results of the underlying assumptions.

It is not possible to maintain a constant tier off. .! differential in both absolute and percentage terms when the rates are being increased as Thus, the real disagreement concerns the allie definition of fitter differential for this defined as an absolute value, PG&B and DRA are correct of Ifait is defined as a percentage of value or a ratio, then TURN is correct of possible to a content of the property of the original terms.

For a definition of "tier differential" we look for a time guidance to our prior decisions. As noted by PG&E and DRA, in D.88-12-031 we stated that "[r]ather than setting the Tier I rate of on a percentage basis, we believe that the absolute differential between the Tier I (baseline) and Tier II rates of Schedule E-1 50 65 recently adopted in D.88-10-062 should be maintained. The state of the party of the state of the (D.88-12-031, p. 22 and Conclusion of Law 8, p. 24.) Similarly, as noted by both PG&B and DRA, in D.89-12-057 we provided for a 25% the reduction in the differential "expressed in cents/kWh. " and the limit of the cents (D.89-12-057, p. 262 and Conclusion of Law 94, p. 447.) It is allow therefore clear that in those decisions we implicitly defined the term as an absolute value. We will not abruptly change that we will definition at this time without further consideration of the issue That consideration should take place in rate design proceedings in conjunction with the broader issue of whether the tier differential should be adjusted further.

We will therefore adopt the PG&E and DRA proposal to maintain a constant cents/kWh differential in this proceeding. B. Non-Firm Rates for E-19 and E-20 Customers

Both PG&E and DRA presented rate proposals which, apparently inadvertently, substantially change the rate design of firm and non-firm rates for E-19 and E-20 customers. There is agreement in principle on maintaining the status quo for E-19 and E-20 schedule rate design, but disagreement on specific proposals for accomplishing that end.

1. The Parties! Positions daire of addrese; dem at ti

differences between the energy rates for firm and non-firm private services. HInstead, the differences are assigned to the con-peak line demand charge. By contrast, the present rate design/provides a blow significantly lower energy rate for non-firm customers. DRA's and an initial rate proposal adopted much the same approach.

Horii) generally agree, that elimination of the energy rate discount for non-firm service would adversely impact customers with high load factors. DRA agreed that it was not its intent to do so in this case, and in response to a request from CLECA, submitted an alternative approach in late-filed Exhibit 54. In the alternative proposal, DRA maintains the current cents/kWh differential between the firm and non-firm energy charges for equivalent schedules and voltage levels.

In their opening briefs, CLECA, CMA, and Industrial users indicate their support for DRA's Exhibit 54 approach, at least pending a more detailed review in the pending non-firm rate design proceeding (A.88-12-005). CMA notes, however, that while Exhibit 54 corrects the energy rate problem, it reduces the demand charge differentials by as much as one-third. CMA further notes that demand charge differentials are more significant during the summer months, and that there is time to consider them in the non-firm proceeding. In its reply brief DRA itself indicates its preference for the Exhibit 54 approach while non-firm rate issues are debated further in the non-firm proceeding. In its reply brief, CMA withdrew its support for the Exhibit 54 approach. CMA now believes the only reasonable action is to leave all existing non-firm discounts in place pending the outcome of the non-firm proceeding.

PG&E agrees that its proposals in Exhibit 41 do not entirely accomplish the goal of continuing the E-19 and E-20 rate design adopted in the GRC, but it is also concerned that DRA's

Exhibit 54 approach results in anomalous on-peak demand chargestrate To remedy this problem PG&E attached to its opening brief proposed revisions in an attempt to maintain the percentage of the current of non-firm discounts which are embedded in the demand and energy cased charges of them.

appears to reduce the overall amount of the non-firm discount by the substantial amounts. Industrial Users agree, and urge that the send proposal be disregarded. Likewise, CMA agrees that PG&B's latested proposal raises more problems than it resolves. These parties are concerned that the proposal involves an attempt by PG&B to resolve alleged errors in the rate design adopted in the last GRC. DRA (1) similarly urges that the non-firm rate proposal submitted by PG&B and with its opening brief not be adopted in this proceeding.

2. Discussion

We agree with CLECA, Industrial Users, and DRA that the approach offered by DRA in Exhibit 54 represents the best interimal solution to the problem of non-firm discounts for the E-19 and E-20 schedules. While this method for preserving the discounts for non-firm energy charges results in anomalies in demand charges, there is an opportunity to resolve these problems prior to the summer of 1991, when on-peak demand charges take on greater significance. The schedule for PG&E's non-firm rate design proceeding provides for an effective date of rate changes of May 1.

Without addressing its merits, we must reject the latest proposal offered by PG&E with its opening brief. While the attempt to unravel this ratemaking snarl is commendable, we are reluctant to consider or adopt a proposal that engenders new controversy and raises as many new questions as it resolves, since the parties have had no reasonable opportunity to address these concerns.

Findings of Fact of Steep no should be at lucer do bought to didings in some in the steep of the diding in some in the steep of the ste

- 2. D.90-10-062 authorized PG&E to defer implementation of silvate changes authorized by that decision until January 17 1991 to allow a single set of rate changes consolidating the \$480,912,000 go increase with adjustments from (1)! PG&E's 1991 Attrition Rate and the Adjustment filings (Advice Letter (1319-E); (2) PG&E's 1991 Cost of against proceeding (Application (A.) 90-05-011); (3) PG&E's (Advice Customer Energy Efficiency proceedings (A.90-04-041; D.90-08-068); (4) PG&E's Earthquake Recovery Account proceeding (A.90-05-003); (5) and (5) PG&E's Demand-Side Management/Research and Development (A.90-05-003); (6) offset (Resolutions E-3174 and E-3188).
- 3. Appendix A shows the development of the consolidated revenue requirement increase of approximately \$688 million, which is based on the amounts that have been adopted or requested in the various proceedings.
- 44 PG&E's proposed marginal energy costs were uncontested per and were used by other parties in developing their revenue allocation proposals.
- 5. PG&B used the same series of ERIs that was adopted in the 1990 GRC, but updated the six-year average by deleting the 1990 value and adding the 1996 value.
- 6. PG&E's Phase 1B BRPU filing, which was made pursuant to specific directives in D.90-03-060, contains ERIs which have not been adopted by the Commission.
- 7. The resource plans considered in ECAC proceedings are short-term plans, while GRC and BRPU proceedings involve consideration of longer-term plans.
- 8. It is reasonable that the ERI values used in computing the six-year average ERI adjustment factor be drawn from the most

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recently adopted series of values which are based on a long-term plan. The are reduced the descriptions for all the results of the series of t

- 9. Appendix C contains the previously-adopted marginal costs which are carried forward from the GRO as well as the marginal energy costs and the ERI adjustment to the marginal generating costs adopted by this order were the marginal generating costs adopted by this order were the marginal generating to the capacity cost adopted by this order were the marginal generating to the capacity cost adopted by this order were the marginal generating to the capacity cost adopted by this order were the capacity cost adopted by this order were the capacity costs and the capacity costs adopted by this order were the capacity costs and the capacity costs adopted by this order were the capacity costs and the capacity costs adopted by this order were the capacity costs and the capacity costs and capacity costs are capacity costs.
- 10. All parties endorse in principle the EPMC approach; with some limits to moderate the rate effects on particular classes.
- the revenue allocation process, inclusion of special contract main revenues has the effect of lowering the SAPC and, therefore, of lowering the percentage increase applicable to capped classes; which in turn slows the movement of such classes to full RPMC with allocation.
- 12. It would be inconsistent to exclude special contract sales, marginal costs, and revenues from the initial EPMC allocation but include such revenues for the purpose of defining caps.
- 13. Appendix B shows that for the consolidated 1991 PG&E revenue requirement increase, if each customer class were moved to its full EPMC allocation, the agricultural class rates would increase by 58.25%.
- 14. To the extent that a customer class is allocated a revenue responsibility which is less than its full EPMC responsibility, the class is subsidized by one or more of the remaining classes.
- 15. All of the parties, with the exception of CFBF, have recommended that at least some progress be made towards reducing the variance between current allocations and the ultimate goal of a full EPMC allocation for all classes.
- 16. No party has recommended moving the agricultural class to a full EPMC allocation in this proceeding.

burden of the agricultural subsidy on other customers is less tolerable in this case than in previous cases of the agricultural subsidy of the customers is less.

18. in A. cap of 5% could lead to some agricultural schedules of the receiving increases in excess of 20% with a class increase of species approximately 16%, and an 8% cap could result in a class increase of 18.37% with individual schedule increases in excess of a 20%.

- 19. A revenué allocation which yields schédule increases and exceeding 20% in this proceeding does not represent à reasonable balancing of our ratemaking goals and a constant of the summary of the summ
- 20. A cap of SAPC plus 3.5% and a no-decrease floor provide a reasonable balance of our goals of achieving a full EPMC allocation and avoiding large rate increases for any particular customer class, because other proposals either move too slowly toward EPMC or result in unbearably large increases to some classes.
- 21. The agricultural customer TOU conversion process and the effect it may have on marginal cost assignments to the agricultural class is a reason for proceeding with caution at this time, and the 3.5% cap we are adopting for agriculture represents a cautious approach.
- 22. For this proceeding, a no-decrease floor can result in a more even sharing of the agricultural subsidy burden by the remaining classes compared to a floor set at 3.5% or 5% below the SAPC.
- 23. There is no basis in this record for retreating from the use of marginal costs which were considered and adopted in the GRC and which have been updated in this proceeding.
- 24. The difference between the DRA's and PG&E's EPMC calculations for streetlighting is likely due to the different ERI values used to adjust the marginal generating capacity cost.
- 25. Adoption of the full EPMC allocation for streetlighting is consistent with the recommendations of all of the parties as

well asothe GRO decision mand does not result in any significant of adverse impact on other customer classes when follower out to it does not be adverse.

- 26. Consistency of inter and intraclass caps and floors is (in desirable because the need to ameliorate increases to individual schedules is just as important as the moderation of class in the increases.
- 27. The AG-5B and AG-5C schedules can bear larger increases than those first proposed by DRA, and an increase equal to the SAPC is justified.
- 28. To It is not possible to maintain a constant residential tier differential in both absolute and percentage terms when the grantes are being increased. The constant which is not to the second of the constant of of
- 29. In D.88-12-031 and D.89-12-057 we implicitly defined the term tier differential as an absolute value. The state of the
- 30. The approach offered by DRA in Exhibit 54 represents the best interim solution to the problem of non-firm discounts for the E-19 and E-20 schedules.
- 31. There is an opportunity to resolve anomalies in demand charges and other problems for the E-19 and E-20 schedules prior to the summer of 1991, when on-peak demand charges take on greater significance.
- 32. Parties have had no reasonable opportunity to address concerns arising from the proposal of PG&E for E-19 and E-20 schedules submitted with its opening brief.
- 33. The rates set forth in Appendix D incorporate the consolidated revenue requirement adjustment shown in Appendix A and the revenue allocation criteria which are adopted by this order, as reflected in Appendices B and C.

Conclusions of Law

- PG&E's proposed marginal energy costs are uncontested and should be adopted.
- 2. ERI values which have been submitted by PG&E with a compliance filing in another proceeding, but which have not been

adopted in that proceeding about not be used as a basis fors that adjusting the marginal generating capacity cost used in revenue who allocation as the reservence of the state of the constituence .es

- in this proceeding for the purpose of adopting an ERI adjustment to the marginal generating capacity cost.
- calculation of the SAPC which is used to define revenue allocations caps and floors.
- For interclass revenue allocations, a cap on increases equal to the SAPC plus 3.5% should be adopted in this proceeding because of the size of the system increase, the need to avoid whitearably large increases for any class, the burden of the sagricultural subsidy on other classes, and the need to make significant progress toward a full EPMC allocation for all classes.
- 6. To achieve an equitable distribution of the agricultural subsidy burden among the other classes, a floor of no decrease in the allocation to any class should be adopted.
- 7. The revenue allocation for the streetlighting class should be set at its full EPMC allocation.
- 8. DRA's recommended intraclass allocation cap of CAPC plus 3.5%, and its recommended floor of no decrease, should be adopted for consistency with the adopted interclass allocation.
- 9. The AG-5B and AG-5C schedules should be increased by the SAPC.
- 10. Our existing methodology of adjusting residential rate tier differentials on a cents/kWh basis should be followed in this proceeding.
- 11. DRA's Exhibit 54 approach for rate design for the E-19 and E-20 schedules should be adopted on an interim basis pending a more detailed review in the non-firm rate design proceeding arising from PG&E's 1990 GRC.

12. PG&E should be authorized to implement the consolidated revenue requirement adjustment shown in Appendix A effective January 1, 1991 by filing rate schedules incorporating the rates in Appendix D.

ORDER

IT IS ORDERED that:

- 1. Pacific Gas and Electric Company (PG&E) is authorized and directed to file with this Commission on or after the effective date of this order, and at least five days prior to their effective date, revised tariff schedules for electric rates as set forth in Appendix D.
- 2. The revised tariff schedules shall become effective on or after January 1, 1991 and shall comply with General Order 96-A. The revised tariffs shall apply to service rendered on or after their effective date.

This order is effective today.

Dated December 19, 1990, at San Francisco, California.

G. MITCHELL WILK
President
FREDERICK R. DUDA
STANLEY W. HULETT
JOHN B. OHANIAN
PATRICIA M. ECKERT
Commissioners

We will file a written concurring opinion.

/s/ FREDERICK R. DUDA Commissioner

/s/ JOHN B. OHANIAN Commissioner I CERTIFY THAT THIS DECISION WAS APPROVED BY THE ABOVE COMMISSIONERS TODAY

- 38 - /

FREDERICK R. DUDA, Commissioner, concurring:

I generally concur with today's decision. My concern deals with the continuing slow pace by which this Commission is moving to implement electric revenue allocation among customer classes for Pacific Gas & Electric (PG&E) based on an equal percentage of marginal cost (EPMC) approach. It has been over four years since the Commission in D.86-08-083 began a program to implement EPMC-based allocations. With today's decision we still find ourselves far from the goal of EPMC-based allocation rates for PG&E. The agricultural customer class is paying four and one-half cents below its EPMC allocation while other customer classes are paying between one and three mills per kilowatt-hour above their EPMC allocation.

Only a year ago the Commission in D.89-12-057 adopted marginal costs for all customer classes. More recently, the Commission undertook a joint study with PG&E to examine agricultural marginal costs. Although this report is not final, it is clear from the scenarios that are being examined that the agricultural customer class "is below an EPMC allocation by a significant margin in every instance."

As is stated in today's decision the Commission finds itself constrained to move more aggressively toward an EPMC allocation for the agricultural class because of the need to

¹ Second draft of the <u>PG&E/CPUC Joint Agricultural Cost Study</u> dated October 5, 1990, p. ES-4.

balance the competing goal of avoiding excessively large rate increases for any particular customer class. I believe the Commission finds itself in this position because it did not establish a process for implementation, including a timetable, at the time it adopted the policy of an EPMC-based allocation.

If there is a lesson to be learned from this situation, it is that the Commission must follow through on its policy pronouncements with an explicit and well structured implementation program that achieves the policy objectives that are sought. Failure to structure a specific implementation program leads to a situation where our policy goals and objectives are delayed and the condition we want to change may in fact worsen. This is clearly the case here where the great majority of ratepayers are continuing to cross subsidize the agricultural class. Movement toward an EPMC-based allocation for all classes is our adopted goal and objective. We should adopt a plan and stay with the plan with deviations only under emergencies.

I would urge the Commission in the future to support its policy directives by explicitly endorsing an implementation program that achieves the policy objectives in an efficient and timely manner with exceptions and limits firmly controlled.

Frederick R. Duda, Commissioner

December 19, 1990 San Francisco, California A.90-04-003 D.90-12-066

John B. Chanian, Commissioner, concurring:

This is a good decision that made nany tough choices while balancing difficult and competing interests. I wish to Commend Commissioner Eckert for her handling of the case.

Among the tough decisions made was that to raise agriculture rates by up to 16%. The primary reasons for so doing is that ag rates are "below cost" and must be brought into alignment with cost. Otherwise, the argument goes, ag rates are kept artificially low at the expense of residential and other customer classes.

This train of logic assumes facts that may not be in existence. Marginal cost ratemaking remains an inexact science. For instance, agricultural customers have been undergoing a conversion to time-of-use schedules. New agricultural load patterns resulting from this conversion process are still not firmly reflected in marginal cost data which underlie the revenue allocation calculations. Furthermore, the agricultural customer class does not represent a growing source of demand for electricity. Yet the EPMC allocation process assumes agricultural customers should pay for costly new capacity, transmission, and distribution resources. Until cost-of-service analysis progresses to a more refined stage, it would be premature to assume ag customers are paying less than their full share.

Parity in allocation of revenue requirement among customer classes is a fundamental goal; and through this decision, we

continue to make steady progress toward achieving this goal. But I recommend prudent caution until we have before us a full understanding of the issues and facts. To this end, I will be bringing to my colleagues a set of recommendations for examining and resolving the remaining issues surrounding the appropriate level of agricultural electric rates.

John B. Chanian, Commissioner

Décember 19, 1990 San Francisco, California

APPENDIX A Page 1

PACIFIC GAS & ÉLÉCTRIC COMPANY ELECTRIC DEPARTMENT Summary of Revenue Changes Effective January 1, 1991

*	PRESENT	REVÉNUÉ	ADOPTED	ADOPTEO
REVENUE ELEMENT	RATE REVÊNUÉ 1/ (\$000's)	CHANGE (\$000's)	REVENUE REQUIREMENT (\$000's)	AYERAGE RATE 2/ (cents/kim)
Energy Cost Adjustment Clause (ECAC)				
1 Adopted ECAC Costs 2 Estimated ECAC account balance as of 10/31/90	\$3,271,320 0	521,656	\$3,261,149 521,656	
3 Designated Sales Transactions to Resale Customers	(93,525)	0	(93,525)	
4 Subtotal	3,177,795	511,485	3,689,280	
5 Franchise Fees & Uncollectible Accounts Expense @ 0.85%	0	31,359	31,359	
6 Total ECAC Retail Revenues	\$3,177,795	\$542,844	\$3,720,639	5.364
Annual Energy Rate (AER)				
7 Adopted AER Costs 8 Designated Sales Transactions to Resale Customers	\$194,336 (9,250)	\$22,706 0	\$217,042 (9,250)	
9 Subtotal '	185,086	22,708	207,792	
10 Franchise Fees & Uncollectible Accounts Expense @ 0.85%	0	1,765	1,766	
11 Total AER Retail Revenues	\$185,086	\$24,472	\$209,558	0.302
Base Énergy Řevenues (ERNA)				
12 Authorized Base Revenue Amount for 1990 13 DC Basic Revenue Requirement 14 Environmental Compliance	\$3,148,473 0 0	\$174,379 (5,001) 1,941		3/ 3/
15 DSH/ROSD Refund Termination	o O	29,217	29,217	ij 3/
16 Customer Energy Efficiency Programs 17 Earthquake Recovery	Ò	38,713 4,222	38,713 4,222	3/
18 Operational & Financial Attrition for 1991	0	128,594	128,594	3/
19 Subtotal Base Revenue Amount for 1991	3,148,473	372,065	3,520,538	
20 tIRA Shortfall 21 Designated Sales Transaction to Resale Customers 22 Estimated ERAM account balance as of 10/31/90	(53,392) 0	(28,146) 0 (211,921)	(53,392)	
Debītš to ĒŔĀM:				
23 1990 Calif. Corp. Franchise Tax Adjustment	0	1,944	1,944	3/ 3/
24 Environmental Compliance 25 Earthquake Recovery	ŏ	2,093 5,643	2,093 5,643	3/
26 Subtotal Debits to ERAM	Ó	9,680	9,680	******
27 Total ERAM Retail Revenues	\$3,095,081	\$143,678	\$3,238,759	4.669
Low Income Rate Assistance (LIRA)				
28 LIRA Shortfall 29 Estimated LIRA account balance as of 10/31/90 30 Administrative Costs	\$34,170 0 0	(\$8,024) (16,667) 1,975	(16,667)	
31 Total LIRA Revenues	\$34,170	(\$22,716)	\$11,454	0.017
32 Conservation Financing Adjustment (CFA) 33 California Public Utilities Commission Fees	\$1,388 \$8,331	\$0 \$0	\$1,388 \$8,331	
34 TOTAL RETAIL REVENUES 35 PERCENTAGE INCREASE	\$6,501,851	\$688,278 10.599	\$7,190,129	10.366

A.90-04-003 ALI/MŠI * CACO/sc1/14

APPENDIX A Page 2

PACIFIC GAS & ELECTRIC COMPANY ELECTRIC DEPARTMENT CUCCIRIC DEPARTMENT Summery of Revenue Changes Effective January 1, 1991

1/ = Based on rates effective 7/6/90. 2/ = Average Rates based on the forecasted retail sales of 69,360 Gam. 3/ = Adopted in Resolution E-3207. 4/ = Adopted in Resolution E-3174 and E-3183.

(End of Appendix A)

A90-04-003 ALJMSW/ CACD/sd/4 *

APPENDIX B PAGE 1 PACIFIC GAS AND ELECTRIC COMPANY ADOPTED REVENUE ALLOCATION 1/2/3/4/ EFFECTIVE JANUARY 1, 1991

All Revenues in Thousands of Dollars

	A	8	C	0	ΕI	F	G	Н	11	J	K
			Present	Present		Revenue	i i	Revenue	1	Adopted	
		Total	Revenue at	Revenué	%	Affocation	%	Allocation	*	Revenue	*
	\$	ales (MWh)	7/8-90 Rates	at EPMC	Change	at EPMC	Change	al SAPC	Change	Allocation	Change
Line			1				I				
1	Residental	23,944,561	\$2,512,247	\$2,474,809	-1.49%	\$2,737,500	8.97%	\$2,779,041	10.62%	\$2,808,527	11.79%
2	Agricultural	3,311,551	\$336,256	\$480,989	43.04%	\$532,116	58.25%	\$371,518	10.49%	\$383,141	13.94%
3	Streetlighting	285,849	\$36,532	\$34,745	4.89%	\$37,162	1.73%	\$39,145	7.15%	\$37,162	1.73%
4	Small L&P	7,586,359	\$878,149	\$900,557	2.55%	\$996,240	13.45%	\$971,376	10.62%	\$1,001,966	14.10%
5	Medium L&P	13,526,678	\$1,256,355	\$1,173,158	-6.62%	\$1,296,292	3.18%	\$1,388,610	10.53%	\$1,329,498	5.82%
6	E-19 Class	3,988,161	\$349,326	\$347,159	-0.62%	\$383,745	9.85%	\$386,150	10.54%	\$393,588	12.67%
7	E-20 Class Tariff	14,797,375	\$1,024,938	\$982,387	4.15%	\$1,099,025	7.23%	\$1,146,241	11.84%	\$1,128,199	10.07%
8	Contracts	1,854,364	\$108,048	\$108,043	0.00%	\$108,048	∞0.00%	\$108,043	%00.0	\$108,048	%00.0
9	TOTAL SYSTEM	69,294,838	\$6,501,851	\$6,501,851	0.00%	\$7,190,129	10.59%	\$7,190,129	10.59%	\$7,190,129	10.59%
10	TOTAL INCREASE			• • • • • • • • •		\$688,278		\$688,278		\$688,278	5

- 1/ This table shows het revenues. Net revenues include non-affocated revenue adjustments from (a) optional TOU meter charges, (b) Streetighting and Railway facility charges, (c) negotiated contracts, (d) standby charges, (e) load management, UCB, and nonfirm service discounts, (f) power factor revenues, (g) CCSF Hetch Hetchy Credits, and (h) LIRA revenues.
- 2/ Negotiated contract revenues are excluded from the affocation process and held constant at present levels.
- 3/ Standby revenues and marginal costs are included in interclass revenue allocations, but excluded from intraclass revenue allocations. For adopted revenues, standby demands are priced at the proposed maximum demand charge.
- 4/ E-20 Class and System sales exclude energy provided to CCSF customers from Helch Helchy.
- 5/ Percentage changes are relative to Net Revenue at present rates. Class caps, however, are based on changes in allocated revenues excluding special contracts. Allocated revenues exclude the items identified in footnote 1. The total increase in allocated revenues excluding special contracts is 10.96% rather than 10.59%.

APPENDIX B PACIFIC GAS AND ELECTRIC COMPANY ADOPTED INTRACLASS HET REVENUE ALLOCATION 12:3-4: EFFECTIVE JANUARY 1, 1891

All Revenues in Thousands of Dollars

			c	6				н		,			
	- 1		Average	liet	-	Not Present	•	Net	Average	•	, û	Avenue	•
	A08		Margina'	2/8/90 rate		Revenue #	•	Perenus	Rates	*	Adopted	Adopte 5	•
	Chasfiate Sold Let	Sales	Cost	Revenue	Rates	EPNC	Cyange	# EPWC	MEPMO	Change	Perevo	Rates	Cyanda
	RESIDENTIAL:												
•	E-1 S	21,417,668	\$0.07552	\$2,279,089	\$3,30641	\$2,581,964	-1.15%	\$2631231	\$11509	9.36%	£2 553,543	\$ 11923	1200
5	EL-1 \$	1,479,007	4		1658C 12			•		••••	\$147,176	\$ 59951	12 52%
3	£-7 \$	853,121	\$3,06048	\$79,426	\$2 36318	\$75,21\$	+33%	\$82,789	\$ 09764	4.23%	\$64.743	\$ 50933	6.63%
4	£#\$	194,764	\$2.06449		\$2.11\$56	\$17,568	23.22°	\$19,415	109969	-15 92%	\$23,024	\$ 11822	458/
	Santy	***	****	102	** ** ***	\$59	\$7.\$1%	\$65	* * * * * * *	10651%	\$34		\$ 19.
5	TOTAL	\$3,944,361	\$1.61490	\$2,512,247	\$C. \$2482	\$2,474,000	-1,29%	\$2,737,500	\$.11403	8-8-CN	\$2,808.527	\$ 11729	11.79%
	AGROUTURU												
6	AS1AS	231,754	\$0.21975	\$45.813	\$2 1753	\$70,897	73.77%	\$78,580	\$ 33907	92 55%	\$47,534	\$ 20511	16 48%
7	ASAX \$		\$3.14550	\$2,126	\$2 11565	\$3,887	82 B.Z.	\$4,291		131.83%	\$2,451	\$ 13334	15.29%
	ASYA\$		\$2/13335		\$0.11358	\$7,794	86 14%	\$6,604	\$21208	86.73%	\$5,318	5.13108	15 41%
9	X54X\$		\$3.14500		\$2,11856	\$22,590	80 55%	\$5(\$5)	123231	99.30%	\$14,442	\$ 13446	13.35%
10	AG-54.5 AG-18.5		\$0.08961		\$2,13090	\$10,881 \$112,066	41.97% 30.53%	\$12,415 \$124,094	\$14392 \$18848	56.76°\ 43.99°\	\$8,871 \$100,313	\$.10404 \$.15296	15.74% K
12	ASRAS		\$3.11245		\$0.11548	\$5,351	43.42%	\$5,918	\$17525	56.63%	\$4,331	\$ 12824	16 00% 1.
13	AS-VB\$		\$3.11349		\$3,30917	\$4,175	46 53%	\$4,618	\$17983	62.05%	\$3,307	3.12671	18 00% 1
14	A549 \$		\$3,11304		\$2.0361	\$63,879	53 45%	\$70,563	\$ 17568	69.76%	\$48,31\$	\$ 12027	16 08% 1
15	A340\$		\$3,13007		181 W.CE	\$5,428	79.52	\$5,963	\$2:257	98.94%	\$3,458	\$ 11816	15 99% 1
16	AG-58 \$	1,636,616			\$2.07837	\$170,241	27	\$158,185	\$11498	45.72%	\$141,602	\$ 00652	10.40% 1
17	AG-50 \$ Standby	42,014	\$2.06467	\$2,965 \$4	\$2,06819	\$3,622 \$\$	12.37% 12.33%	\$4,202 \$9	\$10001	45.67%	\$3,162 \$5	\$ 67525	12.36% 1 2.3%
18	TOTAL	3,311,551	\$0,15353		\$0,10154	\$430,989	43 54%	\$532,116	\$ 15068	58.25%		\$ 11570	13 94% 1
Ĭ	, , , , ,					4 1 - 1 - 4 - 4		4			*******		
13	STREETING-ITS S	285,549	\$2 65559	\$56,533	\$0.12780	\$34,74\$	4 23%	\$37,162	\$13001	1.73%	551,162	\$.13001	1.73%
20	SVALLES ATS	7.347.562	******	# C# 1 76 1	P3 11 P30	****	9.534	*****	\$ 13231		*****		
21	A65		\$2 65813		\$0 11620	\$878,754 \$10,569	2 93% -18.54%	\$972.129 \$11,657	\$13231	423%	\$377,045 \$12 6 65	\$ 13293 \$ 09914	035% 2
22	A15 5		\$2,19263		\$2.25.63	\$627	5:54	\$655	\$ 34050	64.55	\$475	\$ 23533	14 64 7 2
27	TC-1 S	109,039	\$3 06331		\$0,10287	\$10,509	€325	\$11,651	\$ 10664	3.95%	\$11,720	\$ 10745	4.43 2
24	Standby			\$57		\$98	72.37%	\$109		9193%	\$61		7.67% 2
25	TOTAL	7,586,359	\$0 06437	\$875,743	\$0.11575	\$900,557	5 22%	\$896,243	\$.13132	13120	\$1,001,966	\$.13207	14.10% 2
	NEDCATF.	ŀ											
26	A-10	10,182,516	\$3.86500	\$361,377	\$2.09755	\$325,650	-631%	\$1,023,027	\$ 10047	1004	\$1,045,473	\$.10307	5 66% 2
27	À-11	3,344,163			\$2 67863	\$247,156	£21%	\$272,874	\$ 08:60		\$272.554	\$ 08369	641 2
26	Standty	1		\$131		\$352	163 61%	\$391		139:6%	\$141		802 2
53	TOTAL	13,525,878	\$3.06198	\$1,256,355	\$2,09263	\$1,173,158	€.62%	\$1,296,292	\$ 09583	3.15%	\$1,329,438	\$ 09829	5 52 4
ŀ	F -4 0 22 5	1											
30	E-19 CLASS E-19 T	22.33	\$3 68443	e - 304	\$3.06471	\$2,759	39 00%	\$3,051	\$.13018	S3 E3%	\$2.334	# none no	16.04% 3
ñ	E-1925 P		\$3.05498		\$3.07964	\$27,799	4.18%	\$30,753	\$ 05464	£ 00%	\$31,707	\$ 05725	9.29% 3
32	E-1925 S		\$3 06279		\$3.08852	312.342	0.89%	\$345,235	\$19697	8 35%		\$ 09997	12 94%
35	A-RTP-19 S		\$3.05799	\$2.500	\$0.06863	\$3,372	13.15%	\$7,153		31.53%	\$3,278		15.83% 3
36	Standby	1		\$366		\$636	14219%	\$963		158.74%	\$391		6 82 4
37	TOTAL	3,968,151	\$3.06232	\$343.356	\$0.08759	\$317,153	-0.82%	\$383,745	\$ 09622	9 55%	\$333,588	\$ 09869	12.67%
	E-Z: DJSS	ł											
38	E-201	3 14 150	\$3.03791	\$ ·≈ × 1	\$3 05349	\$157,639	-688%	\$176,118	\$ 03565	1015	\$132,879	\$ 05779	803~
39	E-20 P		\$2,04921		\$0.07068	\$442.257	-7.06	\$495,453	\$.07392	4 53%		\$ 07568	847
4	E-20 S		\$0.05617		\$2 07752	\$354.65	-1.04%	\$399,748	\$ 08532				13.07
41	4 of that		\$0.04962	\$2.210	\$3.06706	\$2 511	3.67%	\$9,393	\$.07673	1441%	\$9,207	\$ 07521	12.14%
45	AATP-20 \$		\$3.05301		\$3.06904	\$9,178	7.88%	\$10,065	\$ 08221		\$9,478	\$ 97742	12.14%
43	E-20 a o Origos, Stry	14,797,375	\$0.04398	\$122,866	\$0.06918	\$374,954	4.55	\$1,090,777	8.07371	6 54%	\$1,125,079	\$ 07513	10 030
44	Contracts: T	\$20,000	\$3.63803	627 X3	\$0.05335	\$27,752	0.00%	\$37343	* 65324	0.000	\$27,752	\$ 05335	A 0.00
45			\$0.03803		\$2,06010				\$ 06018				
45	Contracts: \$		\$3 05:22		\$3.06562		0.00%		\$.06562				0000
47	Standy	1		\$2.672	•	\$7,433				256.07%			233
48	TOTAL E-20	16,651,738	\$3 04893	\$1,132,986	\$0.06804	\$1,030,435		\$1,207,874	\$.07243			\$ 17424	9.11%
	·····												
	D. 817.11 707		***			*****	4	43.4					
	STSTEN TOTAL					\$6,521,631	0.00%	\$7,190,129	\$.10356	12.59		\$.10376	10 59
	Credit	69,254,638		\$6.50,651		\$6,501,851		\$7,190,129 \$688,278			\$7,190,129 \$668.278		5
	TO SEA SEASE	L									STOCK 10		

If This table shows not revenues. Not revenues include aboard revenues and non-aboard revenue adjustments from (a) optional TOU merer charges, (b) Street(ghing and Fiahresy lability charges, (d) regordered contracts, (d) standay charges, (e) UCB, load right, and nonlimit discounts, (f) power factor revenues, (g) CCSF Credits, and (g) EVEA revenue. It frequently sharpes are excluded from the aboardon process and held constant at present levels.

^{5&#}x27; Standby revenues and marginal costs are included in interdass revenue affocations, but enduded from intradass revenue afocations.
For proposed revenues, standby demands are priced at the proposed maximum demand charge.

^{4/} E-20 Class and System sales exclude energy provided to CCSF customers from Herdi Herby.

5/ Percentage changes are relative to Net Revenue at present rates. Class caps, however, are based on changes in allocated revenues excluding special contracts. Allocated revenues exclude the items identified in focunate 1. The total increase in allocated revenues excluding special contracts is 10.95% rather than 10.55%.

EFFECTIVE JANUARY 1, 1991

All Revenues in Thousands of Dollars

				- 5				R			- k	<u> </u>	
		•	Arrega	Mocated	Average	Model	•	Alloomed	Average	-	Allocated	Amage	_
	¥⇒\$	_		7:590 mm		Protect Rev	· .	Perenue	Pates	× *	Adopted	Adopted	S
	Classifiate Scholl Lift	\$ales	Cost	Revenue	Rays	R EDAC	Change	at EPMC	R EPHC	Change	Revenue	Rates	Change
	RESIDENTIAL:									_			
1	E-1 \$	21,417,668	\$ \$7552	\$2,300,569		\$2,404,557	-5.14%	\$2,668,155	\$0.11653	9.70%	\$2,585,481	\$ 12072	
Ş	EL-1 \$ E-7 \$	1,479,007 853,121	\$.06048	\$131,802	\$0.089C3	\$71,750	-5.54%	870 815	\$0 09032	4.82%	\$148,169 \$81,570	\$ 10018 \$ 09561	12596 2
4	E-8 S	194,764	\$ 06449		\$0.11804	\$17,467	24.03%		\$2 09951		\$22,990	\$ 11804	0.00%
`	Standay			\$31		\$59	87.915	\$65	•••••	108.51%	\$34	•	9.09%
3	TOTAL	23,944,561	\$ 87490	\$2,531,260	\$0.10571	\$2,493,832	-1.45	\$2,767,217	\$3.11557	132%	\$2,836,244	\$ 11853	12.13% 5
	AGROUTURAL AG-1 A S	231,754	\$.21975	645 723	80.17575	\$70,817	2017%	\$78 KB1	\$0 33907	92 93%	\$47,535	\$.20511	nê hiye. Z
7	ASFRS	หะอ	\$ 14650		\$3.10754	\$3,745	68.74%		\$0.22606		\$2,316	\$.12597	,
•	AGYAS	40,570	\$ 13332		\$3.10685	\$7,521	73.47		\$0.20571	9251%	\$5,059	\$ 12470	
•	AG44 \$	107,413	\$ 14500	\$11,726	\$0.00918	\$21,807	85.94%	\$24,197	\$0.22527	106.33%	\$13,687	\$ 12742	Y./15 9
10	AG-SA S	\$5,260	\$ 58951		\$0.00674	\$10,612	43.50%		\$3.13811	59.23%	\$8,631		16.71% 10
11	A3-18 \$	658,386	\$ 12211		\$0.0050	\$111,800	30.12%		\$3.18842	44.39%	\$100,273		16.71% 11
12	2 69 54 3 61-54	33,770 35,101	\$.11245 \$.11349		\$0.10842	\$5,281 \$4,119	47.475		\$0.17353 \$0.17511	60.06% 63.64%	\$4,273 \$3,260		16.71% 12 16.71% 13
14	A3435	431,762	\$ 11334		\$2.10:30	\$63,153	54.41%		\$0.17442		\$47.73		16.71% 14
15	AG-40 \$	29,522	\$13007		\$2.09955	\$5,340	\$1.62		\$3,20070		\$3,430		16.71% 15
15	AG-58 \$	1,636,616	\$ 67419	\$126,869	\$2 87752	\$168,850	33 09%		\$0.11448	47.58%	\$145,777	\$ 06602	NO 96% 18
17	A3-50 \$	42,014	\$ 05467		\$0.06761	\$3,776	33 00%		\$0,09976	47.58%	\$3,152	\$ 67503	
۱	Sardy			\$4		\$8	87.93%	\$9	*****	1:853%	\$5	* ****	919
18	TOTAL	3,311,551	\$ 10355	\$235,099	\$3,10029	\$476,832	43 58%	\$329,104	\$3.15978	59 32%	\$380,129	2 11473	14.46% 18
19	STREETLIGHTS S	265,549	\$ 05559	\$23,882	\$0.08355	\$22,095	-7.A6 %	\$24,517	\$2 06577	S 892.	\$24,517	\$ 06577	2 66% 13
	SVALLUE												
20	A-1 5	7.347.562	\$ 28563	\$649,929	\$2.11568	\$874,934	2 545	\$970,848	\$0.13213	14.23%	\$975,765	\$.13260	14.61% 20
21	465	127,746	\$ 65813		\$2.09759	\$10,327	-17.16%		\$2 68970	8 66%	\$12,456	\$ 09759	8 60% 21
22	A-13.5	2,012	\$ 13253	\$329	\$0.15358	\$543	62 92%		\$3.29753	61.89%	\$355	\$ 19296	17.96% 22
23	TC-1 \$	109,539	\$ 56331		R: N:257	\$10,509	435	-	\$0.10594	3 95%	\$11,720	\$ 10743	4.45% 2
સ જ	Sardy TOTAL	7,566,359	\$ 55497	\$57	\$2 11521	\$6\$ 704,366\$	72.97N 2.56N	\$109	\$2.13111	91.93%	\$61 \$1,000,401	£ 12:87	7.67% 24 14.46% 25
		2,300,33	# 1/3m31	2013,343	* (1.2.)	********		4034,014	20.13111	73 51 4	\$1,000,001	, 13.61	14.404 2.
	MEDUMILEP		# A2133	****	*****	£333 334	6345	\$1,021,258	*****	9.976	\$1,647,733	\$ 10290	6 C4% 26
26	ፉ፡፡› ሉነነ	10,132,516 3,344,163	\$ 06500		\$2,05703	\$320,391 \$245,145	-515%		\$2 08134		\$279,029	\$ 06344	6 93% 27
28	Sardy	3.34.12	*****	\$131	~	\$352	163 61%	\$391	\$C.CG.GV	199.16%	\$:41	• ••••	8 02% 25
29	TOTAL	13,526,676	\$ 06:98		\$0.09234	\$1,165,688		\$1,293,698	\$3 (9564	3.57%	\$1,326,903	\$ 59615	6.23% 25
	E-19 DUASS	ľ											
30	E-19 T	23,437	\$ 06440		\$2,05433	\$2,751	39.17%		\$3.13023	54.43%	\$2,305	\$ 09833	16 61% 30
31	E-1325 P	363,356	\$ 05438		\$207979	\$27,779	4.18%		\$2.06483	6 32%	\$31,778	\$.08748	9.61% 3
35	E-1925 \$ ##X72-19 \$	3,560,065 41,243	\$ 06279 \$ 05799		\$0.08810	3 10,547 \$3,326	-0.53% 19.17%		\$2,09689	9.97% 32.57%	\$355,556 \$3,245	\$ 09968 \$ 07871	13.38% 3: 16.61% 3:
36	Sandy	"^~	4 - 4 - 4 - 4	\$366		\$884	14219%	\$363	2-20-0	168.74%	\$391		6.82% 3
37	TOTAL	3,968,101	\$ 56232		\$2,00720		€62%		\$0.09615		\$393,315	\$ 09662	13.10% 3
•	E-21 CLASS)											
38	1 (2-3	3,164,669	\$ 03791		\$0.05751		642%		\$2.05973		\$195,774	\$.06186	7.58% 3
39	E-20 P	6,702.500	\$ \$4361		\$0.67409		-574%		\$3.07667		\$532.263	\$ 07942	7.19% 3
43	€·20\$	4,663,363	\$ 05617		\$0.07232		-1£2% 371%		\$0.08667		\$417,036 \$9,168	\$ 08901 \$ 07489	12.79% 4: 12.79% 4
41	A A TP-20 P A A TP-20 S	122,421 122,421	\$ 54352 \$ 65301		\$0.06840 \$0.06827	\$8,430 \$3,034	2.57%		\$0.08179				12.79% 4
	E-20 wie Craces, Stry	14,797,375				\$1,015,907		\$1,129,365				\$ 07864	9 29%, 4
44	Coreacs: T	520,139	\$ 03903	\$27,752		\$27,752		\$27,752			\$27,752		4
45	Cors acts: P	1,313,273	\$ \$4557	\$78,926		\$78,926		\$78,926			\$78,926		4
45	Corciacis: S	20,832	\$ 55:22	\$1,371		\$1,371		\$1,371			\$1,371		4
47	Sandy			\$2,072		\$7,433	258.75%	\$8,248		298.07%			2.33% 4
48	TOTAL	16,651,736	3.04563	*1,114,939	X (7.56	\$1,132,368	-3.52%	\$1,244,681	⇒2 0/4/5		\$1,273,856	\$.07650	8.42% 4
43	SYSTEM TOTAL	69,294,836	\$ 06777	\$6,533,028	\$0.09428	\$6,533,028	6.00%	\$7,237,364	\$0.10444	10.79%	\$7,237,364	\$ 16444	10.78% 4
50	Check	69,294,836				\$6,530,028	0.00%	\$7,237,364			\$7,237,364		5 5
51	TOTAL NOREASE	i						\$704,336			\$704,336		5

U. This table shows allocated revenues. Allocated revenues exclude revenue adjustments from (a) optional TOU mater charges, (b) Streetlighting and Railway facility charges, (c) power feature revenues, (d) the UCB discount, (e) CCSF Hatch Herchy Power, and (f) bliffs Revenues.

2. Registrated contract revenues are excluded from the allocation process and held constant at present levels.

3. Standby revenues and marginal costs are included in interclass revenue allocations, but excluded from intractess revenue allocations.

4. E-20 Class sales exclude Hetch Herchy power provided through PGSE to CCSF customers.

5. Percentage of largest are relative to allocated revenue at present races. Class caps are based on the total system increase excluding special contracts.

Estractass cape are based on class increases without standby revenues.

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APPENDIX B PAGE 4

PACIFIC GAS AND ELECTRIC COMPANY Calculation of Low Income Ratepayer Assistance Surcharge

LIRA Program Costs

12 Stréet Light Salès (LS-1, LS-2, LS-3, TC-1) 13 Special Contract Salès 14 Total Adjustments (Line 10 + Line11 + Liné 12 + Liné 13) 15 Total kWh Salès Subject to LIRA Surcharge 16 Line 9 - Line 14) 17 Total LIRA Surcharge 18 Total LIRA Program Costs (\$) (Liné 8) 19 Total kWh Salès Subject to LIRA Surcharge (Liné 15) 10 Line 15 Total LIRA Program Costs (\$) (Liné 8) 10 Total LIRA Program Costs (\$) (Liné 8) 11 Total kWh Salès Subject to LIRA Surcharge (Liné 15)	Lina No.	Description:	Tier 1	Tiet 2	Minimum Bill	
1	1	Proposed Résidential rate before surcharge	0.10641	0.14106		
(Line 1 * Line 2) 4 LIRA Sales(kWh) or Bits 1,004,764,917 474,242,563 99,901 5 Low Income Discount \$16,035,048 \$10,034,973 \$74,925 \$26,145,946 (Line 3 * Line 4) 6 1990 ECAC Forecast Period Administrative Budget with FF&U \$1,975,283 7 Forecast LIRA Account Balance on 10/31/90 (\$16,667,000) 8 Total LIRA Program Costs \$11,454,229 (Line 5 + Line 6 + Line 7) Sales Subject to LIRA Surcharge 9 Total Forecast Sales (kWh) (Unadjusted for EE discount & includes CCSF power from Hetch Hetchy sales) Adjustments: 10 EE Adjustments 11 Low-income forecast period sales (Line 4) 1,479,07,466 (Line	5	Percent Discount	15%	15%		
5 Low Income Discount (Line 3 * Line 4) 6 1990 ECAC Forecast Period Administrative Budget with FF&U \$1,975,283 7 Forecast LIRA Account Balance on 10/31/90 (\$16,667,000) 8 Total LIRA Program Costs (Line 5 + Line 6 + Line 7) Salés Subject to LIRA Surcharge 9 Total Forecast Sales (kWh) (Unadjusted for EE discount & includes CCSF power from Hetch Helichy sales) Adjustments: 10 EE Adjustment	3		0.01596	0.02116	0.75	
(Line 3 * Line 4) 6 1990 ECAC Forecast Period Administrative Budget with FF&U \$1,975,283 7 Forecast LIRA Account Balance on 10/31/90 (\$16,667,000) 8 Total LIRA Program Costs \$11,454,229 (Line 5 + Line 6 + Line 7) Salès Subject to LIRA Surcharge 9 Total Forecast Sales (kWh) (Unadjusted for EE discount & includes CCSF power from Hetch Hetchy sales) Adjustments: 10 EE Adjustment 6 55,093,066 11 Low-incomé forecast périod sales (Line 4) 1,479,007,480 12 Street Light Sales (LS-1, LS-2, LS-3, TC-1) 381,899,000 13 Special Contract Sales 1,654,363,625 14 Total Adjustments (Line 10 + Line11 + Line 12 + Line 13) 3,780,363,171 15 Total kWh Sales Subject to LIRA Surcharge 65,711,713,835 (Line 9 - Line 14) Calculation of the LIRA Surcharge 16 Total LIRA Program Costs (\$) (Line 8) 511,454,229 17 Total kWh Sales Subject to LIRA Surcharge (Line 15) 65,711,713,835	4	LIRA Sales(kWh) or Bil's	1,004,764,917	474,242,563	99,901	
7 Forecast LIRA Account Balance on 10/31/90 (\$16,687,000) 8 Total LIRA Program Costs (Line 5 + Line 6 + Line 7) Salés Subject to LIRA Surcharge 9 Total Forecast Sales (kWh) (Unadjusted for EE discount & includes CCSF power from Helich Helichy sales) Adjustments: 10 EE Adjustment (EE Adjustment (Line 4) (1,479,007,480) 11 Low-income forecast period sales (Line 4) (1,479,007,480) 12 Street Light Sales (LS-1, LS-2, LS-3, TC-1) (381,899,000) 13 Special Contract Sales (Line 10 + Line 11 + Line 12 + Line 13) (3,780,363,171) 15 Total kWh Sales Subject to LIRA Surcharge (Line 9 - Line 14) Calculation of the LIRA Surcharge (Line 8) (1,454,229) 17 Total kWh Sales Subject to LIRA Surcharge (Line 15) (5,711,713,835)	5		\$16,036,048	\$10,034,973	\$74,928	\$26,145,946
8 Total LIRA Program Costs (Line 5 + Line 6 + Line 7) Salés Subject to LIRA Surcharge 9 Total Forecast Sales (kWh) (Unadjusted for EE discount & includes CCSF power from Hetch Hetchy sales) Adjustments: 10 EE Adjustment 11 Lon-incomé forecast périod sales (Line 4) 12 Stréet Light Sales (LS-1, LS-2, LS-3, TC-1) 13 Special Contract Sales 14 Total Adjustments (Line 10 + Line11 + Line 12 + Line 13) 15 Total kWh Sales Subject to LIRA Surcharge (Line 9 - Line 14) Calculation of the LIRA Surcharge 16 Total LIRA Program Costs (\$) (Line 8) 17 Total kWh Sales Subject to LIRA Surcharge (Line 15) 65,711,713,835 65,711,713,835	6	1990 ECAC Forecast Period Administrative	Budget with FF8	ι υ		\$1,975,283
Salès Subject to LIRA Surcharge	7	Forecast LIRA Account Balance on 10/31/9	၁			(\$16,667,000)
Salès Subject to LIRA Surcharge	۵	Total LIBÁ Program Cósts				\$11 454 220
9 Total Forecast Sales (kWh) (Unadjusted for EE discount & includes CCSF power from Hetch Hetchy sales) Adjustments: 10 EE Adjustment 11 Low-income forecast period sales (Line 4) 12 Street Light Sales (LS-1, LS-2, LS-3, TC-1) 13 Special Contract Sales 14 Total Adjustments (Line 10 + Line11 + Line 12 + Line 13) 15 Total kWh Sales Subject to LIRA Surcharge (Line 9 - Line 14) Calculation of the LIRA Surcharge 16 Total LIRA Program Costs (\$) (Line 8) 17 Total kWh Sales Subject to LIRA Surcharge (Line 15) 511,454,229 65,711,713,835	ŭ	-				· · · · · ·
(Unadjusted for EE discount & includes CCSF power from Hetch Hetchy sales) Adjustments: 10 EE Adjustment 65,093,066 11 Low-income forecast period sales (Line 4) 1,479,007,480 12 Street Light Sales (LS-1, LS-2, LS-3, TC-1) 381,899,000 13 Special Contract Sales 1,654,363,625 14 Total Adjustments (Line 10 + Line11 + Line 12 + Line 13) 3,780,363,171 15 Total KWh Sales Subject to LIRA Surcharge 65,711,713,835 (Line 9 - Line 14) ===================================						69,492,077,006
10 EE Adjustment 65,093,066 11 Low-income forecast period sales (Line 4) 1,479,007,480 12 Street Light Sales (LS-1, LS-2, LS-3, TC-1) 381,899,000 13 Special Contract Sales 1,854,363,625 14 Total Adjustments (Line 10 + Line11 + Line 12 + Line 13) 3,780,363,171 15 Total kWh Sales Subject to LIRA Surcharge 65,711,713,835 (Line 9 - Line 14) ===================================		(Unadjusted for EE discount & includes CC	SF power from h	leich Heichy sales)		• • • • • •
11 Low-income forecast périod sales (Line 4) 1,479,007,480 12 Stréet Light Sales (LS-1, LS-2, LS-3, TC-1) 381,899,000 13 Special Contract Sales 1,854,363,625 14 Total Adjustments (Line 10 + Line11 + Line 12 + Line 13) 3,780,363,171 15 Total kWh Sales Subject to LIRA Surcharge (Line 9 - Line 14) 65,711,713,835 Calculation of the LIRA Surcharge 16 Total LIRA Program Costs (\$) (Line 8) \$11,454,229 17 Total kWh Sales Subject to LIRA Surcharge (Line 15) 65,711,713,835	1Ó	•				65,093,066
12 Street Light Sales (LS-1, LS-2, LS-3, TC-1) 13 Special Contract Sales 14 Total Adjustments (Line 10 + Line11 + Line 12 + Line 13) 15 Total kWh Sales Subject to LIRA Surcharge 16 Line 9 - Line 14) 17 Total LIRA Surcharge 18 Total LIRA Program Costs (\$) (Line 8) 19 Total kWh Sales Subject to LIRA Surcharge (Line 15) 10 Total kWh Sales Subject to LIRA Surcharge (Line 15)						1,479,007,480
14 Total Adjustments (Line 10 + Line 11 + Line 12 + Line 13) 15 Total kWh Sales Subject to LIRA Surcharge (Line 9 - Line 14) Calculation of the LIRA Surcharge 16 Total LIRA Program Costs (\$) (Line 8) 17 Total kWh Sales Subject to LIRA Surcharge (Line 15) 3,780,363,171 65,711,713,835		•				381,899,000
15 Total kWh Sales Subject to LIRA Surcharge 65,711,713,835 (Line 9 - Line 14) Calculation of the LIRA Surcharge 16 Total LIRA Program Costs (\$) (Line 8) 17 Total kWh Sales Subject to LIRA Surcharge (Line 15) 65,711,713,835						1,854,363,625
(Line 9 - Line 14) Calculation of the LIRA Surcharge 16 Total LIRA Program Costs (\$) (Line 8) 17 Total kWh Sales Subject to LIRA Surcharge (Line 15) 511,454,229 65,711,713,835	14	Total Adjustments (Line 10 + Line11 + Line	12 + Line 13)			3,780,363,171
16 Total LIRA Program Costs (\$) (Liné 8) \$11,454,229 17 Total kWh Sales Subject to LIRA Surcharge (Liné 15) 65,711,713,835	15		è			65,711,713,835
17 Total kWh Sales Subject to LIRA Surcharge (Line 15) 65,711,713,835	Calc	ulation of the I.IRA Surcharge				
17 Total kWh Sales Subject to LIRA Surcharge (Line 15) 65,711,713,835		Taball IDA Danner Cinta IA1 Gini A1				ėss ača non
			i /link 151			
18 LIRA surchärge (\$%V/h) 0.00017	17	Total Kivili pales project to Fitta porcharge	a (Fria 12)			03,111,113,033
((Line 16/Line 17))	18	- · · · · · · · · · · · · · · · · · · ·				0.00017

(END APPENDIX B)

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APPENDIX O PAGE 1 PACIFIC GAS AND ELECTRIC COMPANY SUMMARY OF ADOPTED MARGINAL COSTS

Nadalan Francis Odnie	Summer Peak			Winter Partial-Peak	Winter Off-Peak	Annual
Marginal Energy Costs	(¢ሉ\\``ስ)	(¢AWh)	(c/kWh)	(exwh)	(¢kWh)	(¢⁄kWh)
Generation	3.268	2.522	2.331	2.688	2.215	2.472
Transmission	3.697	2.919	2.724	3.090	2.601	2.868
Distribution						
Primary	3.870	3.030	2.803	3.226	2.672	2.965
Secondary	4.011	3.106	2.846	3.331	2.709	3.027
Marginal Capacity Costs	(\$:\tau-yr)					
Génération	\$56,17					
ERI (1991-1996)	Ó.471					
ERI Adjusted	\$26.46					
Transmission	\$31.80					
Distribution						
Primary	\$53.00					
Secondary	\$6.87					

Marginal Customer Costs

(\$*Customér-yr)	Transmission	Primary	Secondary
Residential			\$100.37
Small Light and Power			\$265.06
Medium Light and Power		\$1,533.36	\$1,278.83
E-19 Class	\$50,207.82	\$9,982.09	\$11,574.47
E-20 Class	\$50,207.82	\$9,982.09	\$14,800.29
Agricultural			\$438.83
Streetighting			\$187.20

(END OF APPENDIX C)

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* APPENDIX D PAGE • 1 PACIFIC GAS AND ELECTRIC COMPANY CURRENT AND ADOPTED RESIDENTIAL RATES

LINE NO.		7/890 RATES SUMMER		RATES		
	SCHEDULE E-1					
5	MINIPUM BILL (\$ WONTH) ES UNIT DISCOUNT (\$ UNIT/WONTH) ET UNIT DISCOUNT (\$ UNIT/WONTH)	\$2.57	\$2.57	\$5.00 \$2.57 \$10.26	\$2.57	1 2 3
	TIÉR 1 ENERGY (\$*KWH) TIER 2 ENERGY (\$*KWH)		•	\$0.10658 \$0.14123	•	4 5
	SCHEDULE EL-1	***************	***********	***************	**********	
6	MINIASUM BILL (\$ MONTH)	\$4.25	\$ 4.25	\$4.25	\$4.25	6
	TIER 1 ENERGY (\$-KWH) TIER 2 ENERGY (\$-KWH)	\$0.07924 \$0.10872	\$0.07924 \$0.10872	\$0.09045 \$0.11990	\$0.09045 \$0.11990	7 8
	SCHEDULES E-7 AND EL-7	*****************		48 524 74 4 54 44 4 4 4 4 4 4 4	************	
9 10 11	MINIMUM BILL (\$MONTH) E-7 METER CHARGE (\$MONTH) EL-7 METER CHARGE(\$ MONTH)	\$4.40	\$5.00 \$4.40 \$0.00	\$5.00 \$4.40 \$0.00	\$4.40	10
13	ON-PEAK ENERGY (\$KWH) OFF-PEAK ENERGY (\$KWH) BASELINE DISCOUNT (\$KWH)	\$0.08743	\$0.07525	\$0.29729 \$0.09298 \$0.02537	\$0.07992	13
	SCHEDULE E-8	······································		************	*******	
15	CUSTOMER CHARGE	\$13.92	\$13.92	\$13.92	\$13.92	15
16	ENERGY CHARGE	\$0.13892	\$0.06806	\$0.13848	\$0.06782	16
	***************************************		*************	************	******	
17	ET MINIMUM RATE LIMITER	\$0.04542	\$0.04542	\$0.05317	\$0.05317	17
	***************************************		*********	*************	************	

* EKEDOAO WEMLIA EOC 10-00 A

APPENDIX D PAGE • 2 PACIFIC GAS AND ELECTRIC COMPANY CURRENT AND ADOPTED SMALL L&P RATES

		7/8/90	7/8/90	1/1/91	1/1/91	
LWE		RATES	rates	RATES	RATES	LINE
NO.		SUMMER	WINTER	SUMMER	WINTER	NO.
	***************************************	****************		4++++++++++++++++	************	
	SCHEOULE A-1					
1	CUSTOMER CHARGE (\$400.)	\$7.50	\$7.50	\$7.50	\$7.50	1
2	POLYPHASE CHARGE (\$MO.)	\$1.25	\$1.25	\$1.25	\$1.25	2
3	ENERGY (\$XWH)	\$0.12150	\$0.09986	\$0.13984	\$0.11493	3
	***************************************	**************	*********	************	**********	
	SCHEDULE A-6					
4	CUSTOMER CHARGE (\$4MONTH)	\$7.50	\$7.50	\$7.50	\$7.50	4
5	NETER CHARGE (\$ MONTH)	\$6.20	\$6.20	\$6.20	\$6.20	\$
6	POLYPHASE CHARGE (\$MO.)	\$1.25	\$1.25	\$1.25	\$1.25	8
7	ON-PEAK ENERGY (\$KWH)	\$0.27871		\$0.27771		7
8	PART-PEAK ENERGY (\$1KVH)	\$0.13935	\$0.07434	\$0.13885	\$0.07407	8
9	OFF-PEAK ENERGY (\$KWH)	\$0.07247	\$0.05575	\$0.07221	\$0.05555	9
	***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			*******	
	SCHEDULE A-15					
10	CUSTOMER CHARGE (\$4MONTH)	\$7.50	\$7.50	\$7.50	\$7,50	10
11	FACILITY CHARGE (\$ MONTH)	\$7.80	\$7.80	\$7.80	\$7.80	11
12	ENERGY (\$'KWh)	\$0.12992	\$0.11599	\$0.16060	\$0.14338	12
	***************************************		***********		*******	
	SCHEDULE TC-1					
13	CUSTOMER CHARGE (\$*MONTH)	\$7.50	\$7.50	\$7.50	\$7.50	13
14	ENERGY (\$/KWH)	\$0.09606	\$0.09606	\$9.10067	\$0,10067	14
	************************************		******		*******	

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APPENDIX D PAGE • 3 PACIFIC GAS AND ELECTRIC COMPANY CURRENT AND ADOPTED MEDIUM LAP RATES

		7/8/90	7/8/90	1/1/91	1/1/91	
LINE		RATES	RATES	RATES	RATES	LINE
NO.		SUMMER	WINTER	SUMMER	WINTER	NO.
	SCHEDULE A-10				***************************************	
1	CUSTOMER CHARGE (\$4MONTH)	\$63.00	\$63.00	\$63.00	\$63.00	1
2	MAXIMUM DEMAND CHARGE (\$1KW MONTH)	\$3.30	\$3.30	\$3.60	\$3.60	2
3	PRIMARY DISCOUNT (\$4KW/MONTH)	\$0.70	\$0.70	\$0.80	\$0.80	3
4	TRANS. DISCOUNT (\$ XW/MONTH)	\$2.60	\$2.60	\$2.90	\$2.90	4
5	ENERGY CHARGE(\$ KWH)	\$0,09407	\$0.07290	\$0.09915	\$0.07684	Ś
	***************************************	*********		**********	**********	
	SCHEDULES A-11 AND E-14					
6	CUSTOMER CHARGE (\$/MONTH)	\$63.00	\$63.00	\$63.00	\$63.00	6
7	METER CHARGE (\$ MONTH)	\$5.10	\$5.10	\$5.10	\$5.10	7
8	MAXIMUM DEVAND CHARGE (\$KW.MONTH)	\$3.30	\$3.30	\$3.60	\$3.60	8
9	PRIMARY DISCOUNT (\$1XY/MONTH)	\$0.70	\$0.70	\$0.80	\$0.80	ġ
10	TRANS, DISCOUNT (\$ KW/MONTH)	\$2.60	\$2.60	\$2.90	\$2.90	10
11	ON-PEAK DEMAND CHARGE (\$KW. WONTH)	\$9.20		\$10.00	-	11
12	ON-PEAK ENERGY (\$KWH)	\$0.10344		\$0,10959		12
13	PART-PEAK ENERGY (\$4KWH)	\$0.07904	\$0.05941	\$0.08374	\$0.06294	13
14	OFF-PEAK ENERGY (\$KIVH)	\$0.05305	\$0.05145	\$0.05621	\$0.05451	14
15	E-14 ON-PEAK ENERGY (\$KWH)	\$0,12784		\$0,13545		15

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APPENDIX D PAGE • 4 PACIFIC GAS AND ELECTRIC COMPANY CURRENT AND ADOPTED E-19 FIRM RATES

LINE NO.		7/8/90 RATES SUMMER	7/8/90 RATES WINTER	1/1/91 RATES SUMMER	1/1/91 RATES WINTER	
	SCHEDULÉ E-19 T					
	CUSTOMER CHARGE (\$ MONTH)	\$510.00	\$510.00	\$510.00	\$510.00	1
	MAXIMUM DEMAND CHARGE (\$XW/MONTH) ON-PEAK DEMAND CHARGE (\$XW/MONTH)	\$0.70 \$7.20	\$0.70	\$0.70 \$7.80	\$0.70	2 3
4	ON-PEAK ENERGY (\$10VH)	\$0.09102		\$0.10914		4
	PARTIAL-PEAK ENERGY (\$1KWH)	\$0.06178	\$0.05282	\$0.07408	\$0.06334	5
	OFF-PEAK ENERGY (\$KWH)	\$0.04716	\$0.04575	\$0.05655	\$0.05486	6
7	ON-PEAK RATE LIMIT (\$100H)	\$0.57455		\$0.62907		7
	***************************************	************		***********	• • • • • • • • • • • • • • • • • • • •	
	SCHEDULE E-19 P FIRM					
	CUSTONER CHARGE (\$ NONTH)	\$250.00	\$250.00	\$250.00	\$250.00	8
	MAXIMUM DEMAND CHARGE (\$1KW/MONTH)	\$2.60	\$2.60	\$2.80	\$2.80	9
10	ON-PEAK DEMAND CHARGE (\$1XW/MONTH)	\$8.80		\$9.50		10
	ON-PEAK ENERGY (\$KWH)	\$0.10195		\$0.11170	** 42.4.	11
	PARTIAL-PEAK ENERGY (\$ KWH)	\$0.06920	\$0.05916	\$0.07582	\$0.06482	12
13	OFF-PEAK ENERGY (\$ KWH)	\$0.05283	\$0.05124	\$0.05787	\$0.05614	13
14	AVERAGE RATE LIMIT (\$1KWH)	\$0.13330		\$0.14595		14
	ON-PEAK RATE LIMIT (\$1KWH)	\$0.78445		\$0.85889		15
	***************************************		*************	************	••••••	
	SCHEDULE E-19 S FIRM					
	CUSTOMER CHARGE (\$-MONTH)	\$280.00	\$280.00	\$280.00	\$280.00	16
17	MAXIMUM DEMAND CHARGE (\$100MONTH)	\$3.30	\$3.30	\$3.60	\$3.60	17
18	ON-PEAK DEMAND CHARGE (\$1KW/MONTH)	\$9.40		\$10.20		18
	ON-PEAK ENERGY (\$'KWH)	\$0.10839		\$0.12386		19
	PARTIAL-PEAK ENERGY (\$1KWH)	\$0.07357	\$0.06290	\$0.08407	\$0.07188	20
21	OFF-PEAK ENERGY (\$'KWH)	\$0.05616	\$0.05448	\$0.06418	\$0.06226	21
	AVERAGE RATE LIMIT (\$ KWH)	\$0.13330		\$0.14595		22
23	ON-PEAK RATE LIMIT (\$*KWH)	\$0.78906		\$0.86394		23
	***************************************	•••••	*****	*************	*******	

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APPENDIX D PAGE - 5 PACIFIC GAS AND ELECTRIC COMPANY CURRENT AND ADOPTED E-19 NONFIRM RATES

LWE		7/8/90 RATES	7/890 RATES	1/1/91 RATES	1/1/91 RATES	UNF
NO.		SUMMER	WINTER	SUMMER	WINTER	
	***************************************	***********	*****	***********	***********	
	SCHEDULE E-19 T NONFIRM					
1	CUSTOMER CHARGE (\$/MONTH)	\$510.00	\$510.00	\$510.00	\$510.00	1
2	CURTAILABLE METER CHARGE(\$ MONTH)	\$190.00	\$190.00	\$190.00	\$190.00	2
3	INTERUPTIBLE METER CHARGE (\$ MONTH)	\$200.00	\$200.00	\$200.00	\$200.00	3
4	MAXIMUM DEMAND CHARGE (\$1KW/MONTH)	\$0.70	\$0.70	\$0.70	\$0.70	4
5	ON-PEAK DEMAND CHARGE (\$4KW/MONTH)	\$1.18		\$2.06	•	5
6	ON-PEAK ENERGY (\$KWH)	\$0.08862		\$0,10674		6
7	PARTIAL-PEAK ENERGY (\$1KWH)	\$0.06015	\$0.05143	\$0.07245	\$0.06195	7
8	OFF-PEAK ENERGY (\$1KVH)	\$0.04592	\$0.04454	\$0.05531	\$0,05365	8
9	UFR CREDIT (\$1KYH)	\$0.00186	\$0.00166	\$0.00186	\$0.00186	9
10	EXCESS ENERGY CHARGE (\$KWHEVENT)	\$6.77200	\$5.77200	\$6.77200	\$6.77200	10
	4**************************************		**********	*******		
	SCHEDULE E-19 P NONFIRM					
11	CUSTOMER CHARGE (\$ MONTH)	\$250.00	\$250.00	\$250.00	\$250.00	11
12	CURTAILABLE METER CHARGE(\$MONTH)	\$190.00	\$190.00	\$190.00	\$190.00	12
13	INTERUPTIBLE METER CHARGE (\$ MONTH)	\$200.00	\$200.00	\$200.00	\$200.00	13
14	MAXIMUM DEMAND CHARGE (\$XW/MONTH)	\$2.60	\$2.60	\$2.80	\$2.80	14.
15	ON-PEAK DEMAND CHARGE (\$KW/MONTH)	\$2.09		\$4.83		15
16	ON-PEAK ENERGY (\$'K\VH)	\$0.09350		\$0,10325		16
17	PARTIAL-PEAK ENERGY (\$KWH)	\$0.06347	\$0.05426	\$0.07009	\$0.05992	17
18	OFF-PEAX ENERGY (\$KVYH)	\$0.04845	\$0.04699	\$0.05349	\$0.05189	18
19	UFA CREDIT (\$1KWH)	\$0.00186	\$9.00186	\$0.00186	\$0.00186	19
20	EXCESS ENERGY CHARGE (\$KWHEVENT)	\$8.64933	\$8.64933	\$8.64933	\$8.64933	20
	***************************************	.4	**********	********		
	SCHEDULE E-19 S NONFIRM					
21	CUSTOMER CHARGE (\$-MONTH)	\$280.00	\$280.00	\$280.00	\$280.00	21
22	CURTA/LABLE METER CHARGE(\$MONTH)	\$190.00	\$190.00	\$190.00	\$190.00	22
23	INTERUPTIBLE METER CHARGE (\$MONTH)	\$200.00	\$200.00	\$200.00	\$200.00	23
24	MAXIMUM DEMAND CHARGE (\$KW/MONTH)	\$3.30	\$3.30	\$3.60	\$3.60	24
25	ON-PEAK DEMAND CHARGE (\$1/W/MONTH)	\$2.26		\$4.08		25
26	ON-PEAK ENERGY (\$'KWH)	\$0.10678		\$0.12225		26
	PARTIAL-PEAK ENERGY (\$*KWH)	\$0.07248	\$0.06197	\$0.08298	\$0.07095	27
	OFF-PEAK ENERGY (\$KWH)	\$0.05533	\$0.05367	\$0.06335	\$0.06145	28
	UFR CREDIT (\$/KWH)	\$0.00186	\$0.00186	\$0.00186	\$0.00186	29
	EXCESS ENERGY CHARGE (\$*KWHEVENT)	\$8.64933	\$8.64933	\$8.64933	\$8.64933	30
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APPENDIX D PAGE • 6 PACIFIC GAS AND ÉLECTRIC COMPANY CURRENT AND ADOPTED E-20 FIRM RATES

LINE NO.		7/8/90 RATES SUMMER	7/8/90 RATES WINTER	1/1/91 RATES SUMMER	1/1/91 RATES WINTER	
	SCHEDULE E-20 T					
	CUSTOWER CHARGE (\$-NONTH)-FIRM	\$510.00	\$510.00	\$510.00	\$510.00	í
	MAXIMUM DEMAND CHARGE (\$KW/MONTH) ON-PEAK DEMAND CHARGE (\$KW/MONTH)	\$0.70 \$7.20	\$0.70	\$0.70 \$7.80	\$0.70	3
4	ON-PEAK ENERGY (\$KWH)	\$0.07797		\$0.08461		4
	PARTIAL-PEAK ENERGY (\$KWH)	\$0.05363	\$0.04620	\$0.05743	\$0.04910	5
6	OFF-PEAK ENERGY (\$KWH)	\$0,04125	\$0.04002	\$0.04384	\$0.04253	6
7	ON-PEAK RATE LIMIT (\$KWH)	\$0.57455		\$0.62907		7
	***************************************	***********	*************	***********		
	SCHEDULE E-20 P FIRM					
	CUSTOMER CHARGE (\$ MONTH)	\$220.00	\$220.00	\$220.00	\$220.00	8
	MAXWUM DEMAND CHARGE (\$KW.MONTH)	\$2.60	\$2.60	\$2.80	\$2.80	9
10	ON-PEAK DEMAND CHARGE (\$*KY/MONTH)	\$8.80		\$9.50		10
	ON-PEAK ENERGY (\$KWH)	\$0.09728		\$0.10335	_ , _ ,	11
	PARTIAL-PEAK ENERGY (\$KWH)	\$0.06601	\$0.05644	\$0.07015	\$0.05998	12
13	OFF-PEAK ENERGY (\$ KYYH)	\$0.05033	\$0.04888	\$0.05355	\$0.05195	13
	AVERAGE RATE LIMIT (\$ KWH)	\$0.11565		\$0.12663		14
15	ON-PEAK RATE LIMIT (\$KWH)	\$ 0.78 44 5		\$0.85889		15
	********	**********	***********		***********	
	SCHEDULE E-20 S FIRM					
	CUSTOMER CHARGE (\$ MONTH)	\$330.00	\$330.00	\$330.00	\$330.00	16
	MAXWUM DEMAND CHARGE (\$KW/MONTH)	\$3.30	\$ 3.30	\$3.60	\$3.60	17
18	ON-PEAK DEMAND CHARGE (\$*KW/MONTH)	\$9.40		\$10.20		18
	ON-PEAK ENERGY (\$%WH)	\$0,09877		\$0.11193		19
	PARTIAL-PEAK ENERGY (\$16WH)	\$0.06704	\$0.05732	\$0.07598	\$0.06496	20
51	OFF-PEAK ENERGY (\$KWH)	\$0.05118	\$0.04964	\$0.05800	\$9.05626	21
	AVERAGE RATE LIMIT (\$4KWH)	\$0.11565		\$0,12663		22
23	ON-PEAK RATE LIMIT (\$KWH)	\$0.78906		\$0.86394		23
	***************************************	***********			***********	1

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PAGE - 7 PACIFIC GAS AND ELECTRIC COMPANY CURRENT AND ADOPTED E-20 NONFIRM RATES

		7/890	7/8.90 RATES	1/1/91 RATES	1/1/91 RATES	LIME
LINE		RATES SUMMER	WINTER	SUMMER	WINTER	
Ю.	***************************************	ONWINE!	**************************************	Himmin	11241244	NO.
	SCHEDULE E-20 T NONFIRM					
1	CUSTOMER CHARGE (\$ MONTH)	\$510.00	\$510.00	\$510.00	\$510.00	1
2	CURTAILABLE METER CHARGE(\$MONTH)	\$190.00	\$190.00	\$190.00	\$190.00	2
3	INTERUPTIBLE METER CHARGI: (\$MONTH)	\$200.00	\$200.00	\$200.00	\$200.00	3
	MAXIMUM DEMAND CHARGE (\$KW/MONTH)	\$0.70	\$0.70	\$0.70	\$0.70	4
5	ON-PEAK DEMAND CHARGE (\$1KW/MONTH)	\$1.18		\$3.01		5
6	ON-PEAK ENERGY (\$KWH)	\$0.07592		\$0.08256		6
7	PARTIAL-PEAK ENERGY (\$1KWH)	\$0.05222	\$0.04499	\$0.05602	\$0.04789	7
8	OFF-PEAK ENERGY (\$KWH)	\$0.04017	\$0.03896	\$0.04276	\$0.04147	8
9	UFR CREDIT (\$1KWH)	\$0.00188	\$0.00186	\$0.00186	\$0.00186	9
10	EXCESS ENERGY CHARGE (\$KWH EVENT)	\$6.77200	\$6.77200	\$6.77200	\$6.77200	10
	***************************************	*********	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***********	••••••	
	SCHEDULE E-20 P NONFIRM					
ii	CUSTOVER CHARGE (\$ MONTH)	\$220.00	\$220.00	\$220.00	\$220.00	11
12	CURTAILABLE METER CHARGE(\$MONTH)	\$190.00	\$190.00	\$190.00	\$190.00	12
13	INTERUPTIBLE METER CHARGE (\$MONTH)	\$200.00	\$200.00	\$200.00	\$200.00	13
	MAXIMUM DEMAND CHARGE (\$KWMCNTH)	\$2.60	\$2.60	\$2.80	\$2.80	14
15	ON-PEAK DEMAND CHARGE (\$1KW/MONTH)	\$2.09		\$6.43		15
16	ON-PEAK ENERGY (\$KWH)	\$0.08990		\$0.09599		16
17	PARTIAL-PEAX ENERGY (\$KWH)	\$0.06102	\$0.05217	\$0.06516	\$0.05571	17
18	OFF-PEAK ENERGY (\$KWH)	\$0.04658	\$0.04518	\$0.04974	\$0.04825	18
19	UFR CREDIT (\$1KWH)	\$0.00166	0.00186	\$0.00186	\$0.00186	19
50	EXCESS ENERGY CHARGE (\$KWHEVENT)	\$8.64933	\$8,64933	\$8.64933	\$8.64933	20
	********************	************	*****	************	*********	
	SCHEDULE E-20 S NONFIRM					
21	CUSTOMER CHARGE (\$ MONTH)	\$330.00	\$330.00	\$330,00	\$330.00	21
22	CURTAILABLE METER CHARGE(\$MONTH)	\$190.00	\$190.00	\$190,00	\$190.00	22
23	INTERUPTIBLE METER CHARGE (\$MONTH)	\$200.00	\$200.00	\$200,00	\$200.00	23
24	MAXIMUM DEMAND CHARGE (\$KW MONTH)	\$3.30	\$3.30	\$3.60	\$3.60	24
25	ON-PEAK DEMAND (HARGE (\$KW/MCNTH)	\$2.26		\$5.28		25
26	ON-PEAK ENERGY (\$XWH)	\$0.09385		\$0.10701		26
	PARTIAL-PEAK ENERGY (\$KWH)	\$0.06370	\$0.05446	\$0.07264	\$0.06210	27
	OFF-PEAK ENERGY (\$1KWH)	\$0.04863	\$0.04717	\$0.05\$45	\$0.05379	28
	UFR CREDIT (\$1KWH)	\$0.00186	\$0.00186	\$0.00186	\$0.00186	29
	EXCESS ENERGY CHARGE (\$KWHEYENT)	\$8,64933	\$8,64933	\$8,64933	\$8.64933	39

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APPENDÍX Ó PAGE • 8 PACIFIC GAS AND ELECTRIC COMPANY CURRENT AND ADOPTEO REAL TIME PRICING RATES

LINE NO.		7/890 RATES SUMMER 1/	7/8/90 RATES WINTER 1/	I/I/91 RATES SUMMER 2/	1/1/91 Rates Winter 2/	
	SCHEDULE A-RTP PRIMARY					
1	É-20 CUSTOMER CHARGE (\$MONTH)	\$220.00	\$220.00	\$220,00	\$220.00	i
2	OPTIONAL SERVICE CHARGE (\$MONTH)	\$190.00	\$190.00	\$190.00	\$190.00	5
3	MAXIMUM DEMAND CHARGE (\$1KW/MONTH)	\$2.60	\$2.60	\$2.60	\$2.80	3
4	BASE ENERGY RATE (\$100H)	\$0.00288	\$0.00288	\$0.00332	\$0.00332	4
5	ON-PEAK ENERGY MULTIPLIER	3.0247		3.8598		5
6	PART-PEAK ENERGY MULTIPLIER	1.9466	1.9466	2.1990	2.1990	6
7	OFF-PEAK ENERGY MULTIPLIER	1.4792	1.4792	1.5780	1.5780	7
8	LOAD MANAGEMENT PRICE SIGNAL - TIER 1	\$0.53		\$0.53		8
9	LOAD MANAGEMENT PRICE SIGNAL - TIER 2	\$0.40		\$0.40		9
10	LOAD MANAGEMENT PRICE SIGNAL - TIER 3	\$0.27		\$0.27		10
	4**************************************	**********	**********		********	
	SCHEDULE A-RTP SECONDARY					
11	E-19 CUSTOMER CHARGE (\$4MONTH)	\$280.00	\$280,00	\$280.00	\$280.00	11
12	E-20 CUSTOMER CHARGE (\$ MONTH)	\$330,00	\$330.00	\$330.00	\$330.00	12
13	OPTIONAL SERVICE CHARGE (\$ MONTH)	\$190.00	\$190.00	\$190.00	\$190.00	13
14	MAXIMUM DEMAND CHARGE (\$100)	\$3.30	\$3.30	\$3.60	\$3.60	14
15	BASE ENERGY RATE (\$KWH)	\$0.00288	\$0.00288	\$0.00332	\$0.00332	15
16	ON-PEAK ENERGY MULTIPLIER	3.0247		3.8598		16
17	PART-PEAK ENERGY MULTIPLIER	1.9466	1.9466	2.1990	2.1990	17
18	OFF-PEAK ENERGY MULTIPLIER	1.4792	1.4792	1.5780	1.5780	18
19	LOAD MANAGEMENT PRICE SIGNAL - TIER 1	\$9.53		\$0.53		19
20	LOAD MANAGEMENT PRICE SIGNAL - TIER 2	\$0.40		\$0.40		20
21	LOAD MANAGEMENT PRICE SIGNAL - TIER 3	\$9.27		\$0.27		21
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^{1/} Rates expire on 12/31/90.

^{2/} Subject to approval of Advice Letter 1324-E.

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APPENDIX D PAGE • 9 PACIFIC GAS AND ELECTRIC COMPANY CURPENT AND ADOPTED LARGE LAP RATES

LINE		7/8/90 DATES	7/8/90 DATES	1/1/91	1/1/91	1105
NO.		RATES SUMMER	rates Winter	RATES SUNVER	RATES WINTER	
	***************************************	***************************************	***********		***********	
	SCHEDULE E-25T					
1		\$510.00	\$510.00	\$510.00	\$510.00	1
	MAXIMUM DEMAND CHARGE (\$XW/MONTH)	\$0.70	\$0.70	\$0.70	\$0.70	2
3	ON-PEAK DEMAND CHARGE (\$KW/MONTH)	\$7.20		\$7.80		3
	ON-PEAK ENERGY (\$ KWH)	\$0.09014		\$0.12667		4
	PART-PEAK ENERGY (\$ KWH)	\$0.05363	\$0.04620	\$0.07408	\$0.06334	5
6	OFF-PEAK ENERGY (\$ KWH)	\$0.04125	\$0.04002	\$0.05655	\$0.05486	6
7	ON-PEAK RATE LIMIT (\$ KWH)	\$0.57455		\$0.62907		7
	***************************************	****		**********	***********	
	SCHEDULE E-25P					
8	CUSTOMER CHARGE (\$-MONTH)	\$220.00	\$220.00	\$250.00	\$250.00	8
9	(htt/com/wa/s) Draho dramad mumixam	\$2.60	\$2.60	\$2.80	\$2.80	ġ.
10	ON-PEAK DEMAND CHARGE (\$KW.MONTH)	\$8.80		\$9.50		10
11	ON-PEAK ENERGY (\$ KWH)	\$0.11288		\$0.12964		11
	PART-PEAK ENERGY (\$ KWH)	\$0.06601	\$0.05644	\$0.07582	\$0.06482	12
13	OFF-PEAK ENERGY (\$KWH)	\$0.05039	\$0.04838	\$0.05787	\$0.05614	13
14	AVERAGE RATE LIMIT (\$1KWH)	\$0.13330		\$0.12663		14
15	ON-PEAK RATE LIMIT (\$-KWH)	\$0.78445		\$0.85889		15
	***************************************	**********	************	***********	**********	
	SCHEDULE E-25S					
16	CUSTOMER CHARGE (\$/MONTH)	\$330.00	\$330.00	\$280.60	\$280.00	16
17	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)	\$3.30	\$3.30	\$3.60	\$3.60	17
18	ON-PEAK DEMAND CHARGE (\$KWIMONTH)	\$9.40		\$10.20		18
19	ON-PEAK ENERGY (\$ KWH)	\$0.11464		\$0,14376		19
20	PART-PEAK ENERGY (\$1KWH)	\$0.06704	\$0.05732	\$0.08407	\$0.07188	50
21	OFF-PEAX ENERGY (\$1XWH)	\$0.05118	\$0.04964	\$0.06418	\$0.06226	21
22	AVERAGE RATE LIVIT (\$/KWH)	\$0.13330		\$0.12663		22
23	ON-PEAK RATE LIVIT (\$/KWH)	\$0,78906		\$0.86394		23

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APPENDIX D PAGÈ • 10 PACIFIC GAS AND ELECTRIC COMPANY CURRENT AND ADOPTED LARGE L&P RATES

LINE NO.	***************************************	7/890 RATES SUMMER	7/8:90 RATES WINTER	1/1/91 RATES SUMMER	VIAI RATES WINTER	
	SCHEDULE E-26T					
1	CUSTOMER CHARGE (\$ MONTH)	\$510.00	\$\$10.00	\$510.00	\$510.00	1
	CURTAILABLE METER CHARGE (\$ WONTH)	\$190.00	\$190.00	\$190.00	\$190.00	2
	MAXIMUM DEVAND CHARGE (\$100 MONTH)	\$0.70	\$0.70	\$0.70	\$0.70	3
	ON-PEAK DEWAND CHARGE (\$KW WONTH)	\$2.84	••••	\$4.33		4
•	ON DEAK ENERGY (ARGUE)	****		******		_
	ON-PEAK ENERGY (\$KWH)	\$0.10446	46.61500	\$0.11360		5
	PART-PEAK ENERGY (\$KWH)	\$0.05261	\$0.04532	\$0.05641	\$0.04823	6
•	OFF-PEAK ENERGY (\$KWH)	\$0.04047	\$0.03925	\$0.04306	\$0.04176	7
8	EXCESS DEMAND CHARGE / KWH	\$4.90970	\$4.90970	\$4.90970	\$4.90970	8
	***************************************	**********		**********		
	SCHEDULE E-26P					
9	CUSTOMER CHARGE (\$/MONTH)	\$220.00	\$220.00	\$220.00	\$220.00	9
	CURTAILABLE METER CHARGE (\$ MONTH)	\$190.00	\$190.00	\$190.00	\$190.00	10
	MAXIMUM DEVAND CHARGE (\$KW MONTH)	\$2.60	\$2.60	\$2.80	\$2.80	11
•	ON-PEAK DEWAND CHARGE (\$ KW WONTH)	\$3.93	\$2.00	\$7.27	\$2.60	12
		••••		•,		
13	ON-PEAK ENERGY (\$1KWH)	\$0.12145		\$0.12968		13
14	PART-PEAK ENERGY (\$1KWH)	\$0.06239	\$0.05335	\$0.06659	\$0.05694	14
	OFF-PEAK ENERGY (\$KWH)	\$0.04763	\$0.04620	\$0.05083	\$0.04931	15
16	EXCESS DEVAND CHARGE / KWH	\$6.27077	\$6.27077	\$6.27077	\$6.27077	16
	SCHEDULE E-26S					
17	CUSTOMER CHARGE (\$/MONTH)	\$330.00	\$330.00	\$330.60	\$330.00	17
18	CURTAILABLE METER CHARGE (\$ MONTH)	\$190.00	\$190.00	\$190.00	\$190.00	18
19	MAXIMUM DEMAND CHARGE (\$ KW. MONTH)	\$3.30	\$3.30	\$3.60	\$3.60	19
20	ON-PEAK DEMAND CHARGE (\$KW.MONTH)	\$4.22		\$6.63		20
21	ON-PEAK ENERGY (\$*XVH)	\$0.12579		\$0.14339		21
	PART-PEAK ENERGY (\$1KYH)	\$0.06463	\$0.05525	\$0.07366	\$0.06297	22
	OFF-PEAK ENERGY (\$4WH)	\$0.04933	\$0.04785	\$0.05623	\$0.05454	23
24	EXCESS DEMAND CHARGE / KWH	\$ 6.27077	\$6.27077	\$6.27077	\$6.27077	24
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APPENDIX D PAGE • 11 PACIFIC GAS AND ELECTRIC COMPANY CURRENT AND ADOPTED STANDBY RATES

LINE NO.		7/8/90 RATES SUMMER	7/890 Rates Winter	1/1/91 RATES SUMMER	1/1/91 RATES WINTER	
	SCHEOULE S - TRANSMISSION					
1	CONTRACT CAPACITY CHARGE (\$KW.MO.)	\$0.70	\$0.70	\$0.70	\$0.70	1
2	ON-PEAK RATE LIVITER (\$/KWH)	\$0.57455		\$0.62907		2
	SCHEOULE S - PR.WARY	***************	***********	*************	************	
3	CONTRACT CAPACITY CHARGE (\$KW.WO.)	\$2.60	\$2.60	\$2.80	\$2.80	3
4	ON-PEAK RATE LIVITER (\$KWH)	\$0.78445		\$0.85889		4
	SCHEDULE S - SECONDARY	*************	*****	**********	*************	
5	CONTRACT CAPACITY CHARGE (\$KW.MO.)	\$3.30	\$3.30	\$3.60	\$3.60	5
6	ON-PEAK RATE LIVITER (\$%WH)	\$0,78900		\$0.86394		6
	REDUCED CUSTOMÉR CHARGE (\$ MONTH)	****************	**********	£0666000000000000000000000000000000000	***********	
7	A-17A-6	\$3.20	\$3.20	\$320	\$3.20	7
8	A-10/A-11	\$27.00	\$27.00	\$27.00	\$27.00	8
9	E-19 TRANSMISSION / E-20 TRANSMISSION	\$426.00	\$426.00	\$426.00	\$426.00	9
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APPEHDIX D PAĞÉ • 12 PAÇIFIÇ GAS AND ELECTRIC COMPANY CURRENT AND ADOPTED AGRICULTURAL RATES

UNE NO.	***************************************	7/8/90 RATES SUMMER	7/890 RATES WINTER	1/1/91 RATES SUMMER	1/1/91 RATES WINTER	
	SCHEDULE AG-1A					
	CUSTOMER CHARGE (\$1MONTH) CONNECTED LOAD CHARGE (\$1KW/MONTH)	\$10.00 \$1.80	\$10.00 \$1.80	\$10.00 \$2.10	\$10.00 \$2.10	1 2
3	ENERGY CHARGE (\$ KWH)	\$0.11441	\$0,11441	\$0.13690	\$0.13690	3
4	RATE LIMITER	\$0.97337	\$0.97337	\$1,12854	\$1,12804	4
	***************************************	*********		*******	*******	
	SCHEDULE AG-RA					
5	CUSTOMER CHARGE (\$4MONTH)	\$10.00	\$10.0Ó	\$10.00	\$10.00	5
6	METER CHARGE (\$ MONTH)	\$6.20	\$6.20	\$6.20	\$6.20	6
7	CONNECTED LOAD CHARGE (\$100/MONTH)	\$1.80	\$1.80	\$2.10	\$2.10	7
8	ON-PEAK ENERGY (\$ KWH)	\$0.27632		\$0.32849		8
	PART-PEAK ENERGY (\$KWH)	40.21.002	\$0.05789	40.02010	\$0.06882	9
10	OFF-PEAK ENERGY (\$1KWH)	\$0.06444	\$0.04604	\$0.07661	\$0.05473	10
11	RATE LIMITER (\$KWH)	\$0.97337	\$ 0.97337	\$1.12804	\$1.12804	11.
	***************************************	**>*****	*********	********		
	SCHEDULE AG-VA					
12	CUSTOMER CHARGE (\$140NTH)	\$10.00	\$10.00	\$10.00	\$10.00	12
13	METER CHARGE (\$ MONTH)	\$6.20	\$6.20	\$6.20	\$6.20	13
14	CONNECTED LOAD CHARGE (\$1KW/MONTH)	\$1.80	\$1.80	\$2.10	\$2.10	14
15	ON-PEAK ENERGY (\$KWH)	\$0.27273		\$0.32273		15
16	PART-PEAK ENERGY (\$1KWH)	•	\$0.05714	•••••	\$0.06762	16
17	OFF-PEAK ENERGY (\$KWH)	\$0.06219	\$0.04544	\$0.07359	\$0.05377	17
18	RATE LIMITER (\$KWH)	\$0.97337	\$0.97337	\$1.12804	\$1.12804	18
	***********************************	**********		*******		
	SCHEDULE AG-4A					
19	CUSTOMER CHARGE (\$/MONTH)	\$10.0Ô	\$10.00	\$10.00	\$10,00	19
	METER CHARGE (\$ MONTH)	\$6.20	\$6.20	\$6.20	\$6.20	20
	CONNECTED LOAD CHARGE (\$/KW/MONTH)	\$1.80	\$1.80	\$2.10	\$2.10	21
22	ON-PEAK ENERGY (\$1KWH)	\$0.26992		\$0.32029		22
	PART-PEAK ENERGY (\$1KWH)	4	\$0.05655	4	\$0.06710	23
	OFF-PEAK ENERGY (\$KWH)	\$0.05429	\$0.04497	\$0.06442	\$0.05336	24
25	RATE LIMITER (\$1/KWH)	\$0.97337	\$0.97337	\$1.12804	\$1.12804	25

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APPENDIX Ó PAGE - 13 PACIFIC GAS AND ELECTRIC COMPANY CURRENT AND ADOPTED AGRICULTURAL RATES

		2.4.4	فعافات			
LINE		7/890	7/8/90	1/1/91	1/1/91	
NO.		RATES	RATES	RATES	RATES	
NO.		SUMMER	Winter	Summer	WINTER	NO.
	SCHEDULE AG-SA			-		
1	CUSTOMER CHARGE (\$4MONTH)	\$10.00	\$10.00	\$10.00	\$10.00	1
5	METER CHARGE (\$ MONTH)	\$6.20	\$6.20	\$6.20	\$6.20	2
3	CONNECTED LOAD CHARGE (\$1KW/MONTH)	\$4.55	\$4.55	\$5.10	\$5.10	3
4	ON-PEAK ENERGY (\$*KWH)	\$0.19119		\$0.22772		4
	PART-PEAK ENERGY (\$1KWH)	44.101.0	\$0.04006	40.22112	\$0.04771	5
	OFF-PEAK ENERGY (\$1KWH)	\$0.03933	\$0.03185	\$0.04685	\$0.03794	6
		,,,,,,,,,	***************************************	44.0	************	•
7	RATE LIMITER (\$KWH)	\$0.97337	\$0.97337	\$1.12804	\$1.12804	7
8	WINIMUM BILL (\$KW-YEAR)	\$0.00		\$0.00		8
	***************************************	***********	*************	************	************	
	SCHEDULE AG-6A					
9	CUSTOMER CHARGE (\$-MONTH)	\$10.00	\$10.00	\$10.00	\$10.00	9
	CONNECTED LOAD CHARGE (\$1KW MONTH)	\$4.55	\$4.55	\$5.10	\$5.10	10
		••	4	•0	43.10	
11	ENERGY CHARGE (\$KWH)	\$0.06700	\$0.03486	\$0.07973	\$0.04170	11
12	RATE LIMITER (\$KWH)	\$0.97337	\$0.97337	\$1,12804	\$1.12604	12

		***************	************	*********	**********	
	SCHEDULE AG-1B					
13	CUSTOMER CHARGE (\$-MONTH)	\$10.00	\$10.00	\$10.00	\$10.00	13
	MAXIMUM DEVAND CHARGE (\$1KW/MONTH)	\$2.20	\$1.50	\$2.55	\$1.75	14
		•	•	4 2.00	V	••
15	ENERGY CHARGE (\$1KWH)	\$0.10161	\$0,10161	\$0.11883	\$0.11883	15
					•	
16	RATE LIMITER (\$KWH)	\$0.97337	\$0.97337	\$1.12804	\$1,12804	16
	••••					
		**************	************	*************	***********	
	SCHEDULE AG-RB					
17	CUSTOMER CHARGE (\$-MONTH)	\$10.00	\$10,00	\$10.00	\$10.00	17
	METER CHARGE (\$MONTH)	\$5.10	\$5.10	\$ 5.10	\$5.10	18
	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)	\$2.20	\$1.50	\$ 2.55	\$1.75	19
	ON-PEAK DEMAND CHARGE (\$XW/MOXITH)	\$2.20	V V	\$2.55	V 1.10	20
		,		7-1-1-		
21	ON-PEAK ENERGY (\$1/KWH)	\$0.24105	•	\$0.28380		21
	PART-PEAK ENERGY (\$1KWH)		\$0.06613		\$0.07732	22
23	OFF-PEAK ENERGY (\$1KWH)	\$0.07139	\$0.05259	\$0.08347	\$0.06149	23
24	RATE LIMITER (\$/KWH)	\$9.97337	\$0.97337	\$1.12804	\$1,12604	24
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PAGE - 14 PACIFIC GAS AND ELECTRIC COMPANY CURRENT AND ADOPTED AGRICULTURAL RATES

LINE NO.		7/8:90 RATES SUMMER	7/8.90 RATES WINTER	1/1/91 RATÉS SUMMER	1/1/91 RATES WINTER	
	SCHEDULE AG-YB					
1	CUSTOMER CHARGE (\$'MONTH)	\$10.00	\$10.00	\$10.00	\$10.00	1
	METER CHARGE (\$ VIONTH)	\$ 5.10	\$5.10	\$5.10	\$5.10	2
	MÁXIMUM DEMÁND CHARGE (\$/KW/MONTH)	\$2.20	\$1.50	\$2.55	\$1.75	3
4	ON-PEAK DEMAND CHARGE (\$/KW/MONTH)	\$2.20		\$2.55		4
	ON-PEAK ENERGY (\$KWH)	\$0.21405		\$0.25229		5
	PART-PEAK ENERGY (\$KWH)		\$0.06413		\$0.07501	6
7	OFF-PEAK ENERGY (\$KWH)	\$0.06710	\$0.05099	\$0.07849	\$0.05954	7
8	RATE LIMITER (\$'KWH)	\$0.97337	\$0.97337	\$1.12804	\$1,12804	8
	***************************************	****************	**********	************		
	SCHEDULE AG-43					
9	CUSTOMER CHARGE (\$ MONTH)	\$10.00	\$10.00	\$10.00	\$10.00	9
	METER CHARGE (\$ MONTH)	\$5.10	\$ 5.10	\$5.10	\$5.10	tó
	MAXIMUM DEMAND CHARGE (SKYVIMONTH)	\$2.20	\$1.50	\$2.55	\$1.75	11
12	ON-PEAK DEMAND CHARGE (\$100 MONTH)	\$2.20		\$2.55		12
13	ON-PEAK ENERGY (\$'XWH)	\$0,18083		\$0.21011		13
	PART-PEAK ENERGY (\$/KWH)		\$0.05920		\$0.06917	14
15	OFF-PEAK ENERGY (\$1KWH)	\$0.05625	\$0.04707	\$0.06572	\$0.05499	15
16	RATE LIMITER (\$KWH)	\$0.97337	\$0.97337	\$1.12804	\$1.12804	16
	***************************************	**************	*****	************	*******	
	SCHEDULE AG-4C					
	CUSTOMER CHARGE (\$*MONTH)	\$10.00	\$10.00	\$10.00	\$10.00	17
	METER CHÂRGE (\$ MONTH)	\$5.10	\$5.10	\$5.10	\$5.10	18
	MAXIMUM DEMAND CHARGE (\$KW.MONTH)	\$2.20	\$1.50	\$2.55	\$1.75	19
20	ON-PEAK DEMAND CHARGE (\$KW/MONTH)	\$2.20		\$2.55		20
21	ON-PEAK ENERGY (\$KWH)	\$0.18083		\$0.21011		21
22	PART-PEAK ENERGY (\$/KWH)	\$0.07679	\$0.05920	\$0.09451	\$0.06917	22
23	OFF-PEAK ENERGY (\$:KWH)	\$0.04975	\$0.04707	\$0.06123	\$0.05499	23
24	RATE LIMITER (\$'KWH)	\$0.97337	\$0.97337	\$1.12804	\$1.12804	24
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APPENDIX D PAGE + 15 PACIFIC GAS AND ELECTRIC COMPANY CURRENT AND ADOPTED AGRICULTURAL RATES

LINE NO.		7/890 Rates Summer	7/8/90 RATES WINTER	1/1/91 RATES SUNVER	1/1/91 RATES WINTER	
	SCHEDULE AG-58					
1	CUSTOWER CHARGE (\$4NONTH)	\$10.00	\$10.00	\$10.00	\$10.00	i
	METER CHARGE (\$MONTH)	\$ 5.10	\$5.10	\$ 5.10	\$ 5.10	2
	MAXIMUM DEMAND CHARGE (\$1KW/MONTH)	\$5.45	\$3.65	\$6.00	\$4.05	3
4	ON-PEAK DEMAND CHARGE (\$1KW/MONTH)	\$2.25		\$2.50		4
Ś	ON-PEAK ENERGY (\$1KWH)	\$0.12313		\$0.13601		5
6	PART-PEAK ENERGY (\$16WH)		\$0.03668		\$0.04049	6
7	OFF-PEAK ENERGY (\$KWH)	\$0.03539	\$0.02917	\$0.03907	\$0.03220	7
8	RATE LIVITER (\$KWH)	\$0.97337	\$0.97337	\$1.12804	\$1.12804	8
9	MINIMUM BILL (\$KWYEAR)	\$0.00		\$0.00		9
	***************************************			*******		
	SCHEDULE AG-5C					
10	CUSTOVER CHARGE (\$ MONTH)	\$10.00	\$10.00	\$10.00	\$10.00	10
11	METER CHARGE (\$'MONTH)	\$5.10	\$ 5.10	\$ 5.10	\$5.10	11
12	MAXIMUM DEMAND CHARGE (\$1/KW/MONTH)	\$5.45	\$3.65	\$6.00	\$4.05	12
13	ON-PEAK DEMAND CHARGE (\$1/KW.MONTH)	\$2.25		\$2.50		13
14	ON-PEAK ENERGY (\$1KWH)	\$0,12313		\$0.13601		14
15	PART-PEAK ENERGY (\$KWH)	\$0.04846	\$0.03668	\$0.05363	\$0.04049	15
16	OFF-PEAK ENERGY (\$4KWH)	\$0.03082	\$0.02917	\$0.03411	\$0.03220	16
17	RATE UMITER (\$KWH)	\$0.97337	\$0.97337	\$1.12804	\$1.12804	17
18	MINIMUM BILL (\$*KW/YEAR)	\$0.00		\$0.00		18
	***************************************	*******	*********	************	******	
	SCHEDULE AG-68					
19	CUSTOVER CHARGE (\$/MONTH)	\$10.00	\$10.00	\$10.00	\$10.00	19
	MAXIMUM DEMAND CHARGE (\$XW/MONTH)	\$5.45	\$3.65	\$6.00	\$4.05	20
21	ENERGY CHARGE (\$1KWH)	\$0.05976	\$0.03200	\$0.06688	\$0.03552	21
22	RATE LIMITER (\$*XWH)	\$0.97337	\$0.97337	\$1.12804	\$1.12804	22
	***************************************	********	**************	***********	*******	

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APPENDIX D PAGE - 16 PACIFIC GAS AND ELECTRIC COMPANY CURRENT AND ADOPTED STREETLIGHTING RATES

LINE NO.	***************************************	7/8/90 RATES SUMMER	7/8/90 RATES WINTER	1/1/91 RATES SUMMER	1/1/91 RATES WINTER	
	SCHEDULE LS-3					
1	SERVICE CHARGE (\$ WETER MO.)	\$3.0 0	\$3.00	\$3.00	\$3.00	1
5	SWITCHING CHARGE (\$-CIRCUIT)	\$3.25	\$3.25	\$3.25	\$3.25	5
3	ENERGY CHARGE (\$KWH)	\$0.07396	\$0.07396	\$0.07616	\$0.07616	3
	***************************************		********	************		
	SCHEDULE LS-1					
4	ENERGY CHARGE (\$XWH)	\$0.07396	\$0.07396	\$0.07616	\$0.07616	4
	***************************************	**************	***********	h***********		
	SCHEDULE LS-2					
5	ENERGY CHARGE (\$ KWH)	\$0.07396	\$0.07396	\$0.07616	\$0.07616	5
	***************************************	**********	********	*************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	SCHEDULE OL-1					
6	ENERGY CHARGE (\$KWH)	\$0.07396	\$0.07396	\$0.07633	\$9.07633	6
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APPENDIX D

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Pacific éas and elécific dynam Pates for scheoles L5-1, L5-2 and C-1 Pacility rates effective 1-11-91 Pacific dates et ective 1-21-91 Pacific dates antes

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