COM/DWF/HMD

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Decision 96-09-092 September 20, 1996

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Application of Southern California Edison)
Company to Adopt a Performance Based)
Ratemaking Mechanism Effective)
January 1, 1995.

Application 93-12-029 (Filed December 23, 1993)

Commission Order Instituting Investigation) into Changing the Method, Timing and) Process for Periodically Deriving a) Reasonable Revenue Requirement for the Southern California Edison Company.)

I.94-04-003 (Filed April 6, 1994)

A.93-12-029, I.94-04-003 COM/DWF/HMD *

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requirement is a necessary precondition YAAMMUS at lecision adopting a PBR mechanism for Edison, because Edison inststed throughout the proceeding that it would withdraw its PBR amprovemin This decision adopts a Performance-Based Ratemaking (PBR) mechanismi for 1998 Southern California Edison Company (Edison) for recovery of its transmission and distribution 1 (T&D) or nongeneration base rate revenue requirements. This nongeneration PBR'will take 9814 effect on January 1, 1997. This Decision also adopts rules for a distribution only PBR 2-We OND expect that the transition from this hongeheration PBR to a distribution only PBR will occur in 119 1997 after FERC and this Commission adopt a Separation of both the ratebase and base rate 2 2161 revenue requirement between transmission and distributional We authorize this distribution only PBR to extend through December 31, 2001 in Both the nongeneration and distribution only PBRs' apply an inflation less productivity update rule to base rates as we did in D.89-10-031; where we's adopted our first PBR for local exchange telecommunications utilities. We modify the use of all ERAM for base rate revenue requirement. We adopt values for productivity and for service reliability which increase over the term of these PBRs. We also adopt a progressive sharing of he net revenue which will allow fatepayers to shale in cost savings achieved by Edison. This are not revenue which will allow fatepayers to shale in cost savings achieved by Edison. This are not revenue which will allow fatepayers to shale in cost savings achieved by Edison. decision adopts both the nongeneration and distribution only PBRs within the system fate cap one adopted in our Electric Restructuring Policy Decision (D.95-12-063 (the Policy Decision). Historical factual and policy issues related to electric to structuring, potential modifications to the Ucerric

II. PROCEDURAL BACKGROUND

A. The General Rate Case Decision

An integral element of any PBR mechanism is the starting point the base, the method is a consequent of the reserve to crew and the review and the revenue requirement, that will be used to determine future states through application of the PBR and formula. It was Edison's position that the base revenue requirement for PBR should be set by (A.93-12-029, p. 16.)

Our decision on Edison's 1995 GRC, A.93-12-025. Determination of the starting revenue

² As discussed below, while Edison indicated on the one hand that it would accept the GRC revenue requirement as the base revenue requirement for PBR, it concurrently requested an immediate upward adjustment to this base.

requirement is a necessary precondition to Issuance of a decision adopting a PBR mechanism for Edison, because Edison insisted throughout the proceeding that it would withdraw its PBR application and refuse to implement a PBR unless it was first satisfied with the starting revenue requirement adopted by the Commission of Therefore, in order to seriously entertain Edison's work PBR proposal it was necessary for us to determine the baseline revenue requirement in Edison's GRC proceeding and ascertain whether of not Edison Intended to withdraw its application based 5 on the revenue requirement adopted in the GRC proceeding. We did not decide Edison's general rate case revenue requirement until we issued D.96-01-011 on January 10/1996.7991 with Teel who notified a left we issued D.96-01-011; Edison filed comments indicating that it con was willing to proceed with its nongeneration PBR and accept a GRC revenue requirement of HBI authorization as the initial base revenue requiremental a subgravitivity broduction less productivity update infinitely and productivity and a subgravity and a B. Assigned Commissioner's Ruling (ACR) of July 12, 1994 as least roll 884 Bull two betteba Solving a On July 12: 1994. Assigned Commissioner Fessler issued a ruling which of MARI bifurcated the hearing of Edison's PBR Application. The Ruling directed Edison to file antidolog "transmission and distribution" or nongeneration PBR to amend A.93-12-029//The Commission is encouraged parties to propose a flexible PBR mechanism that could be adopted and conformed to the utility industry over the next six years. The Ruling encouraged parties to address certain techs factual and policy issues related to electric restructuring, potential modifications to the Electric

H. PROCEDURAL BACKGROUND

A. The General Rate Case Decision

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A.93-12-029-194-01-003 COM/DWI/HMD

A.93-12-029, I.94-01-003 COM/DWF/HMD

Revenue Adjustment Mechanism (ÉRAM); alternative funding for Demand-Side Management Interpretation (CPD) to your point sometime (DSM) and Research Development and Demonstration (RD&D).

C. The Restructuring Decision (CX)

In Ordering Paragraph 17 of D.95-12-063, we ordered Edison, PG&B, and SDG&B to file new applications, within 60 days of the decision's effective date, to establish PBR mechanisms, consistent with the guidelines outlined in the Policy Decision. Each application was to include a proposal for a separate distribution and generation PBR. The decision also ordered the parties to file and serve comments in A.93-12-029 on whether Edison's pending performance-based ratemaking PBR proposal should be adopted or not. Various parties filed comments in response to A.93-12-029. Most parties favored adoption of some interim PBR mechanism. In the "Roadmap Decision," D.96-03-032, we extended the filing date for a new application for a distribution PBR.

| D. Assigned Commissioner's Ruling of June 21: 1996 (vincous) and the sould

In an Assigned Commissioner's Ruling (ACR) issued on June 21, 1996, the date for filing of Edison's distribution PBR application was extended. The ACR recognized that for Edison, the Commission faces at least two options: "adopt a Decision based on the record developed in A.93-12-029 as an interim decision for combined T&D; or request Edison to available companies of the filing to implement a distribution-only PBR in response to FERC's order which addresses the T&D split."

(EDS. aq. local years) Consisting "ACR) issued on June 21, 1996, the date for filing to implement a distribution for combined T&D; or request Edison to modify its filing to implement a distribution-only PBR in response to FERC's order which addresses the T&D split."

Edison believes that its proposal offers significant benefits by replacing

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revenue levels:

A. Edison

"Under the traditional regulatory approach, the

Edison's Nongeneration PBR Mechanism as originally proposed contains the story and the

"A revenue indexing formula for application to the level of our peace base rate non-generation revenues adopted in the 1995 General Rate Case ("1995 GRC") and Cost of Capital

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Revenue Adjustment Mechanol Repair (noticinal parameters) and sevenue Adjustment Mechanol ("Inc. The Consumer Price Index or CPI"), incremental revenues for customer grand, and a productivity problem ("X");

C. The Restructuring Decision.

In Ordering Percepted 14 of Descriptions within faires and pages of Capital Trigger Mechanisms. States of the new applications, within faires of the processing to the new applications, within faires of the processing of the proposal for a separaginal makes and include a proposal for a separaginal of the parties to the and serve companies of themselved the parties to the and serve companies of themselved the parties to the and serve companies of themselved themselved the parties to the and serve companies of themselved themselved the parties of themselved to A.93-12-029. Most parties favored analysis of some line that the "Roadmap Decistolem to Anathemselved analysis of the analysis of a distribution PBR.

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In an Assigned Commission Statistic of the description of Edison's distribution PBR application and mission of Edison's distribution PBR application, and employee safety; and satisfaction, and employee safety; and satisfaction for continuous continuous

Edison believes that its proposal offers significant benefits by replacing traditional regulatory controls with an incentive based framework for setting the appropriate revenue levels:

A. Felison

Winder the traditional regulatory approach, the

It with principle of properties of properties of the proper

for upcoming operations and (2) management alove, a value factor, a wall-stream instrument to the prospect that the Commission may not be added in the prospect that the Commission may not be added in the prospect that the Commission operations are producted in the properties of the properties and the production will be alternative approach to the product of the pr

5. Complete elimination of FRAM as of the effective date of this edison acknowledges that some of the alternative proposals contain elements that might be viewed as preferable to certain aspects of Edison's proposal. However, Edison argues that none tool social notable in their members are contained as the elements of the alternatives, when judged in their entirety as potential alternative proposals, can be viewed as acceptable.

B. DRA

2. Z-factor concept with modifications and limitations on Edison's proposed criteria and its list of exclusions from the PBR

DRA's proposed alternative PBR proposal for this proceeding includes the

following elements:

8. No rate/bill national comparison since the price cap is

"1. Reduction of Edison's overall revenue requirement by 5 percent when Phase I of the PBR is adopted. This element is supported by 1.94-04-003 which adopted a scope of investigation broad enough to include both base rate and Energy Cost.

Adjustment Clause components of electric rates, as well as other revenue requirement programs administered by this Commission;

2. Implementation of price caps for Edison's bifurcated business operations, non-generation and generation, beginning January 1, 1996 following the overall price reduction in 1995;

DRA states it has proposed its alternative because Edison's recognal fails to emonstrate that it sulavi'Xe has a summer and summer summers as a summer summer and summer and summer and summer that it sulavi'Xe has a summer and summer as a summer of summer as a summer of summer and summe

'stretch factor,' a value designed with reference to a competitive' not regional benchmark using data from the Western' System's unit conditional benchmark using data from the Western' System's unit conditional to the Coordinating Council (WSCO) companies and finally a base received correction value for the upward bits at the CPI; the continuous to satisfy its another conditional to the unit of the continuous based continuous.

- 4. Continued funding of DSM and RD&D for the initial three of den year period at no more than the level recommended by DRA in o has Edison's 1995 GRC. In addition, adjustments to the customer item of access service price for DSM effects should be calculated and muonic implemented in an expanded Annual Earnings Adjustment out wolsd Proceeding (AEAP) where the results of measurement studies for 160 Edison's DSM programs subject to incentives are feviewed; 100 cots.
- 5. Complete elimination of ERAM as of the effective date of this od higi Phase I decision for the full scope of Edison's utility business; sogbol wondow no sibil

viewed as preferable to certain aspects of Edison's proposal. However, Edison argues that none 001 as a notion of the alternatives, when judgqbootid off by switch by the alternatives, when judgqbootid off by switch by the alternatives, when judgqbootid off by switch by the alternatives.

7. Z-factor concept with modifications and limitations on

Edison's proposed criteria and its list of exclusions from the PBR

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8. No rate/bill national comparison since the price cap is strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this goal; strangle gni wollol designed specifically to achieve this gni wollol designed specifically the gni wollow specifically the gni w

9. Increased penalty for diminished Quality of Service, either in system reliability of level of customer satisfaction, without the propertunity for rewards for continued current service levels; and proportunity for rewards for continued current service levels; and

10. An approach to Monitoring and Evaluation which includes
oversight of Edison's prices, earnings, and operating and expense

1. (DRA's Opening Brief at pp. 42-42, quoting Exhibit 201, qo

1. (DRA's Opening Brief at pp. 42-42, quoting Exhibit 201, qo

1. (DRA's Opening Brief at pp. 42-42, quoting Exhibit 201, qo

1. (DRA'McNamara, Q1 ni not be reduction in the overall pince reduction in 1996 following the 19

DRA states it has proposed its alternative because Edison's proposal fails to demonstrate that it would produce rate feductions or any other significant benefits to ratepayers.

DRA characterizes the difference between Edison's revenue indexing mechanism and DRA's

price cap rule as "fundamental," explaining that DRA's alternative starts with a reduced that. O revenue requirement stream and then applies a price cap to Edison's customet access services.

DRA explains that its proposal would provide, among other things, for immediate rate relief to not Edison's customers rather than waiting for productivity pledges or a six year experimental apportunity program to ruln its course. DRA believes that this outcome of its proposal also fulfills the spiritor and letter of the Commission's criteria and the legislature's guidance in ACR 143 in providing all of Edison's ratepayers with immediate rate relief. DRA submits that its customed of nosibility satisfaction and reliability mechanisms provide appropriate incentives for protecting ratepayers from degradation of current service levels when Edison implements new cost-cutting strategies in under PBR macining is ablitant mechanisms.

Edison's proposal; it should only adopt them with conditions! At the very least, DRA proposes. If that the Commission adjust the starting point downward and adopt DRA's alternative as lattered recommendations regarding revenue sharing and capital structure freatment. Additionally, 2000 DRA urges the Commission to reject Edison's customer growth allowance as proposed DRA; in opposes other specific elements of Edison's proposal. DRA also states that regardless of which a PBR mechanism the Commission adopts, the Commission should adopt DRA's out him source recommendations on customer satisfaction and reliability mechanisms; monitoring and 700 redgit evaluation and auditing compliance.

Industrial Users intervenor group is comprised of Air Liquide America Corporation; Air Products and Chemicals, Inc.; Anheuser-Buych Companies; BOC Gases; The Chevron Companies; Hughes Aircraft Company; Kimberly-Clark Corporation; Nubisco, Inc.; Praxair, Inc.; and Steelcase, Inc.

C. Industrial Users we state a vitamenta s'ASCI to de guinicity so ", fatmentalismit" an atur que assimption as solve as solve as a tur que assimption and implement, and begins the process of reducing Edison's rates. Industrial Users (c) advocate that their proposal meets all three of the Commission's goalst ease of implementation, if lower electric rates for customers and increased financial opportunities for Edison. Industrial goal Users' proposal set forth in detail in Exhibit 320, can be summarized as a rate cap that requires as Edison to reduce its average weighted typical bill to 125% of the national average by the years the 2000. Within this framework, Edison is free to pursue any opportunity for earnings growth status with the maximum amount of decision-making freedom devel solves means to noticles as hard.

Industrial Users believe that their PBR mechanism provides significant electricians rate decreases (in nominal terms) in every year of the PBR time frame(I In return; Industrial Users would allow Edison to keep all returns on investment, which they estimate to be a s'mosibil potential annual benefit to Edison of about \$142 million alignous trial Users also state that their total proposal reduces the potential for errors in the implementation of PBR; such as those which moses might result by the adoption of an incorrect productivity factor. They also state that their and ARCI proposal eliminates gaming of PBR revenues which might result, for example, by deferring roops revenues until the next(year to avoid sharing) allowing electric rates to increase because them \$1819 higher revenues outweigh the penalties, and avoiding problems with accounting for imprudent toosts.

Industrial Users intervenor group is comprised of Air Liquide America Corporation; Air Products and Chemicals, Inc.; Anheuser-Busch Companies; BOC Gases; The Chevron Companies; Hughes Aircraft Company; Kimberly-Clark Corporation; Nabisco, Inc.; Praxair, Inc.; and Steelcase, Inc.

D. Joint Parties' oiting is consens that do corque equives bounds a took b. b.
The Joint Parties' proposal can be summarized as follows:

971. Consistent with ACR-1431 the Commission should articulate 274 that its fundamental goals in adopting PBR mechanisms are: 65200001 [27002164] siniventor best 430 tous mirrorni on an Incorporation of the commission of the com

a. to establish incentives that enhance the competitiveness of utilities to ensure that lowest cost services are provided to all

f. Limit the number of exceptions to bus; rismothernism (the so-called 'Z factors'); and

b. to provide immediate financial benefits to utility customers.

bus gairotimem, notisting meliquit AUII occupate anusuil...g

2: The Commission's hould state clearly that its objectives in adopting PBR mechanisms are not merely to decrease the 10 Commission's regulatory activities, lessen utility regulatory

[15.201019] Thurdens, or improve shareholder earnings. It along the states at the 10 of T

aiod to the commission should ensure that any PBR mechanism if 1916 commission should ensure that any PBR mechanism if 1916 garbive adopts will comply with ACR1143. edge of sovitagent lunguine on solivery leading of the complete will be solivered by the complete will be solivered by the complete with ACR1143.

end services to all of its ustement and proposal also offer impositions in all of the custom error of the Commission should adopt the following features of PBR,

- Sivery las testified to by Mr. Marcus! so not settled to the slopes of the string of the string of the string of proposal as the string of proposal and price cap;

a. Use a revenue per customer approach, and not a price cap;

that a string of productivity improvement with a depayers, and besides that a

REPUBLICATION IN Adopt an EX factor! of 4 percent, not [Edison's] proposed 1:4: the offing is percent; not be easily republished as as a bong is about the careful by the republic of the content of the content of the republic of the content of the republic of the republi

Temperary, costward for policy leading the above tests.

They believe that their proposal meets the above tests.

E. TURN

TURN recommends reinvigorating the GRC proceeding and conducting a GRC

5 The Joint Parties consist of the California Department of General Services, TURN, Center for Energy Efficiency and Renewable Technologies, Natural Resources Defense Council, and Environmental Defense Fund. TURN endorses the positions set forth by the Joint Parties as the sponsors' preferred "CPI-X"-based PBR proposal. However, TURN's preferred approach to PBR is its own proposal summarized in part B below.

* As stated above, the proposal set forth here is TURN's primary proposal. TURN's alternative proposal is that advocated by the Joint Parties as described in section D above.

d. Adopt a shared savings approach that ensures significant the United Adopt as having supposed that ensures significant the United Adopt Adopt a shared savings approach that ensures significant the United Adopt Adopt a shared savings approach that ensures significant the United Adopt Adopt a shared savings approach that ensures significant the United Adopt Adopt

or hei) Révise [Edison's] proposals for the non-price performance indicators for reliability and customer satisfaction, using DRA's proposal as an interim strategy and removing [Edison's] proposed

a. to establish incentive; abilini flid ban's ata fanolian enass of utilities to ensure that lowest cost services are provided to all

f. Limit the number of exceptions to the PBR mechanism (the so-called 'Z factors'); and

b. to provide immediate finencial benefits to utility customers.

g. Ensure adequate PBR implementation, monitoring and governance, especially in light of ACR-14329 (Joint Parties! Opening Brief at pp!2-3.) to a recent substance of the principle of the princi

The Joint Parties state that their proposal is the only "CPI - X" based proposal

proposal provides meaningful incentives to enhance Edison's competitiveness in providing least cost services to all of its customers. The proposal also offers immediate sharing with customers of cost savings. For example, the Joint Parties do not believe that Edison's proposal provides for meaningful sharing of productivity improvement with ratepayers, and believe that a significant rate reduction is required to The Joint Parties also believe that the adopted PBR mechanism should be carefully designed so as not to lose sight of energy conservation, reliability, customer service, and the environment while pursuing the goal of rate reduction.

They believe that their proposal meets the above tests.

E. TURN

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5 The Joint Patties consist of the California Department of General Services, TURN,
Center for Energy Efficiency and Renewable Technologies, Natural Resources Defense Coupcit, and Environmental Defense Fund. TURN enderses the positions set forth by the Joint Parties as the sponsors' preferred "CPI-X":based PBR proposal. However, TURN's preferred approach to PBR is its own proposal summarized in part E below.

⁶ As stated above, the proposal set forth here is TURN's primary proposal. TURN's alternative proposal is that advocated by the Joint Parties as described in section D above.

forum for determining rates and ratemaking policy for Edison. The separate annual cost of capital proceeding would be eliminated for Edison and that issue would be addressed in the GRC. TURN's proposal would eliminate other rate adjustment mechanisms and formulas abbit nickless part estiling and our on some passet less quite discussion of the discussion

which exist in addition to the GRC. Edison would have to justify any rate adjustment worldes of the synthesis of memory and worldes of procedure or formula aside from the GRC anew based on today's circumstances. TURN states apply 1 2 2011 to note that the first hand a love on notify he love on today's circumstances. TURN states also have been also he love on today's circumstances. that including a specific sunset date in any approval of a non-GRC procedure or formula will patter for sure occasion which is not occasion. prevent the current problem of mechanisms which have outlived their usefulness continuing in not stated is noted its state of the control of effect and, more often than not, creating no-longer-justified but near-automatic revenue and rate object to provide the continuous constitution of the provide the provider of increases. TURN also states that elimination of balancing accounts will largely eliminate the influence of another increases of another increases.

prevent undue harm either to the utility or its customers. TURN also states that its proposal is TUŔN advocates a two year GRC cycle (the norm prior to the mid-1980s), since of northal roll vinculogical shanor of a guine shanor of a guine shanor of the mid-1980s), since of northal roll vinculogical shanor of a guine shanor of the mid-1980s), since of northal roll vinculogical shanor of the mid-1980s.

attrition adjustments would be eliminated. According to TURN: other and providing to according to the accord

This approach would provide Edison with a fixed operating (SUL) but tell evalues oudget for a two-year period. Any savings and efficiencies that

star box the utility is able to achieve relative to that budget would flow is 1 and exemised sti non 100% to shareholders during that two-year period. Thereafter the appropriate the property of the control of the captured in future rate cases for the

HIGH 251, benefit of customers, although in practice efficiencies achieved 100 out out told 2016 it during the year the GRC is being litigated often would not be the gainerny sunitage of

reflected in reduced rates until the next GRC, thus allowing the

by the willity for up to quart the benefits for as much as three full of quart willing of yell years. ... [E]ven after the savings are captured in a subsequent GRC, shareholders continue to benefit because the utility

to assimultecomes, by lowering its rafes, more competitive with competing HIT

streamlined regulatory process sought by the Commission, Edison, and the Legislature.

Second, it would serve to improve regulation itself at a reduced cost, since the Commission

would be better able to view the utility as a whole and to assess how it compares with other TURN suggests the procedures to be eliminated include the Attrition Rate Adjustment, it the separate annual cost of capital proceeding, ERAM, rate design windows, separate applications such as those for low-emission vehicle funding, and balancing accounts in general. And od

To proceempeting for customer dollars?! (TURN Opening Brief at pp; minimastras roll murol 14-15.)
Sit ni besetable and the amount to the north Troll betaminite and bluom gniboscoup brings.

TURN asserts that its proposal is superior to any other parties' proposals in order to achieve the goal of rate reduction. By definition, the "CPI - X" mechanism to achieve rate reduction is largely dependent upon the level at which the Commission defines "X." Under other parties proposals, that decision is made once and then left in place for six years. However, TURN advocates that its proposed two year rate case cycle is more flexible because it would hot exclusively rely on any single Commission determination, and would also provide sufficient opportunities for the Commission to correct any error in those determinations to prevent undue harm either to the utility or its customers. TURN also states that its proposal is the most successful among the parties in maintaining a reasonable opportunity for Edison to earn a fair rate of return and providing Edison's management with a predictable framework to achieve that end. TURN states its proposal does not rely on regulators telling the utility how to run its business, but rather sets up an operating budget, as well as a reasonable authorized rate of return, for the company, and allows management to manage within that parameter. TURN states that the two year GRC cycle would provide adequate incentive to Edison's management to continue pursuing all seasonable cost and place and place and seasonable cost and some the achieved savings would be retained the achieved savings will the next cities allowing the cost of the achieved that the cost cities allowing the cost cities are the cost cities and the cost cities are the cost cities and the cost cities are the cost cities and cities are the cost cities and cities are the cost by the utility for up to three years before being captured in the subsequent GRC and flowed through to Edison's customers... through to Edison's customers... GRC. shareholders continue to bear fit becouse the withity

ratemaking proceedings into a single forum. First, it would achieve the simplified and streamlined regulatory process sought by the Commission, Edison, and the Legislature.

Second, it would serve to improve regulation itself at a reduced cost, since the Commission would be better able to view the utility as a whole and to assess how it compares with other utilities: Third, the proposal would provide intervenors with a more meaningful opportunity to standards, swobally naised other intervenors with a more meaningful opportunity to standards, swobally naised other intervenors with a more meaningful opportunity to standards, swobally naised other intervenors with a more meaningful opportunity to standards, swobally naised other intervenors with a more meaningful opportunity to standards, swobally naised other intervenors with a more meaningful opportunity to standards, swobally naised other intervenors with a more meaningful opportunity to standards in the regulatory process by permitting them to concentrate on a single proceeding sailquant.

rather than multiple proceedings: Fourth; the proposal would provide for a regular and more sails frequent forum to address service quality issues rather than having to wait once every six yearsture. Fifth, the proposal would better serve ACR 143's objectives of protecting public health, complying with environmental laws and regulations, and ensuring the existence and operations and of programs to assist low-income ratepayers; since under any "CPI-X" proposal, the utility and would have the incentive to minimize the costs involved in achieving these goals, and the absort of increased lag between comprehensive reviews will reduce the Commission's ability to ensure that the objectives and being methals. TURN states that its proposal provides greater at a stable protection against price discrimination. Since X-IPD is viviationly and response in the comprehensive to reflect oblances in its groups. It is a state of demand response, a firm's output price will change to reflect changes in the change in inputs, both value weighted.

years. We first replaced our traditional rate case regulation with a PBR, which we called the most New Regulatory Framework (NRF), for the local exchange telecommunication utilities, in apartor D.89-10-031. In adopting PBRs; we recognize that traditional rate case regulation includes apping direct link from costs to fates and does not include an independent and explicit incentive to italian increase efficiency through lowering costs. To encourage efficiency, effective PBR regulation and breaks this feedback link from costs to rates and includes an incentive for the utility to reduce local costs. Moreover, effective PBR regulation must include appropriate standards for service and ibai safety.

Sacratigno mosts to safet most reaknow to another the appropriate variety for the safety and ibai

Mingdom, and often called 'CPI ×X' regulation of PBR regulation adopts starting our processing and often called 'CPI ×X' regulation of PBR regulation adopts starting our process based on an adalysis of utility costs with these rates then updated in each subsequent year ton by a rule which includes expected changes in input prices, CPI and productivity, Xi X in our the local exchange utilities. Realizing that technological change in telecommunications

discussion below; we refer to this price less productivity adjustment, or CPI a Xi as the update that rule, by xis yib to come their or guived noth rother constitution polivies essential or mural trouport.

and productivity values should come from national or industry measures and not from the utility itself. The independence of the update rule from the utility's own costs allows PBR regulation to resemble the unregulated market where the firm faces market prices which develop and bloom independently of its own cost and productivity. In contrast, traditional regulation of this litted updates rates through a review of the utility's own costs and productivity. The form of this litted PBR update rule of 'price less productivity' or CPI-X arises from the unregulated market where a independent of demand response, a firm's output price will change to reflect changes in its input prices less its change in inputs, both value weighted.

between a general price index such as the well-known CPI or an industry specific index. Whenever former choice involves less controversy but uses a general approximation to industry specific med prices, and this approximation can work reasonably well during periods of generally low 01-03. Clinflation. While the latter choice clearly tracks industry costs more closely, it does engender result more controversy because often it requires construction of a new industry specific price index to his track industry price changes closely. Complexity readily arises in the construction of price 28,51d indices; for example, an accurate current price index for labor requires a weighted average wage of the Edison's many different classifications of workers from clerks to system engineers.

productivity: However, such studies are not common and most published econometric studies nix not only assume efficient operation but also use historical data. In D.89:10-031, we relied on a study of AT&T/s historical productivity and expert judgment in setting the productivity value a velocity of the local exchange utilities. Realizing that technological change in telecommunications

offered the opportunity for substantial productivity and wanting to encourage increased piving him efficiency in utility operations) we added a Istretch's factor to set the productivity value or Xunasun

efficient technology in melting current demand, realizing economies of scale when expanding velocities of reducing existing inefficiencies in the current operation. In the nongeneration below the operation of reducing existing inefficiencies in the current operation. In the nongeneration below the operation of productivity may natroque contribute only selectively toward greater efficiency and lower rates. The incentives of this minimare thereby lower rates.

utility to keep some of the increased net revenue which occurs if the utility can reduce its costs sole. Adoption of this rule should increase the utility's incentive to reduce costs. Allowing the utility! To retain some of the net revenue from cost reduction efforts also resembles the competitive miximum market where a firm can increase its profits by lowering its costs! Combined with the use of submit independent prices, the use of a net revenue sharing rule emulates the outcome of a competitive no market average a swells, here steep revenue sharing rule emulates the outcome of a competitive no market average a swells, here steep revenue of negative segmentary delicated and submitted as market average a swells, here steep revenue of negative segmentary delicated and submitted as market average a swells, here steep revenue of negative segmentary delicated and submitted as market average and so the steep revenue and of negative segmentary delicated and submitted as a submitted as a submitted and submitted and submitted as a s

management to make decisions which resemble an efficient or competitive outcomed Anagement of make decisions which resemble an efficient or competitive outcomed Anagement efficient utility will control rates which benefits ratepayers. However, we want to ensure soon out fairness to ratepayers, employees and shareholders in the PBR procession. This requires balancing of potentially conflicting interests. The utility can increase short run profits through reducing officially variable costs, but without revenue sharing such cost reductions will not lower rates. Moreover, such reductions not only can affect staff immediately but the service quality impact may only appear much later.

In this PBR for Edison, we balance these interests by requiring a progressive sharing of net revenue between shareholders and ratepayers and by having both the productivity

and service quality measures increase over the duration of the PBR/1By progressive sharing, wello mean in this order that the utility share of net revenue increases as its earned return becomes in the greater or smaller than the benchmark return; correspondingly, the ratepayer share decreases.

By having these productivity and service quality measures increase, we intend to allow both in the Edison management and its employees time to adjust to PBR regulation and to find moitate possible opportunities for cost reductions, which will lower ratepayer bills, increase Edison's profits and adminimize the impact on employees. Allowing time to discover such opportunities for cost idiation reductions could defer some of the rate reductions for ratepayers, but we believe that when such 19 reductions occur, they will represent more permanent efficiency gains.

downward pressure to rates in The parties noted that Edison's own forecasts showed that its suffitued by the proposal would likely not lower rates substantially when compared to traditional rates it qob A making. However, we note that the parties could only compare forecasts. Such forecasts district include uncertainty and can only lead to speculation about the effect of alternative regulation sham on rates. Rather than rely on speculation and forecasts we order a progressive net revenue acquisition sharing incentive in this PBR which encourages Edison to lower costs and allows ratepayers to read sharing incentive in this PBR which encourages Edison to lower costs and allows ratepayers to read these reduced costs through lower rates. This progressive sharing incentive gives ratepayers a larger share of Edison's easier cost reductions and the shareholders a larger share of entitle in the more difficult reductions. We see this progressive net revenue sharing incentive at the keyoff potentially conflicted to lower rates within a structure which balances the interests of ratepayers, employees and seaming the costs. Moreover, the progressive method to the without the cost of the c

In this PBR for Edison, we balance these interests by requiring a progressive sharing of net revenue between shareholders and ratepayers and by having both the preductivity.

A. Nongeneration Base Revenue AQUITANAMARONONIT.V

In D.96 01-011, we adopted an authorized level of base revenue requirement

PBR will become effective on January 1/1997. We expect that during 1997 FERC and this 1 zid1 Commission will approve the separation of Edison's nongeneration business into transmission W and distribution operations. Our Decision today also adopts the adaption of this nongeneration particles and this nongeneration of this nongeneration.

Tigo notinion. The transition from current regulation to PBR regulation requires changes to existing policies as well as the introduction of new policies. First, we separate Edison's base non revenue requirement between generation and nongeneration. Second, we other Edison to file sign tariffs which set separate rates for generation and nongeneration base revenue requirement, pluser effective January 1, 1997; and we will order Edison to file changes to these tariffs as part of our a unbundling proceeding within 60 days after FERC and this Commission have completed the gods. separation of Edison's nongeneration business into transmission and distribution and we will of it order that Edison file these tariff changes with an effective date coordinated with the beginning of FERC set transmission rates. Third, we adopt an update rule which, using the CPL X rule, (A) adjusts these base rates annually for the effects of inflation and productivity. Fourth, we notice that describe our policy for exclusion of certain accounts from the scope of the PBR, and our policy at for modification of the effect of sales balancing achieved through the ERAM balancing account as for base rate revenue requirements, and our policy for Z-factors, which allow cost recovery for the extraordinary events.: Fifth, we present our proposal for cost of capital and capital structure and the related net revenue sharing plan for shareholders and ratepayers. (Sixth, we describe our notati service quality; customer satisfaction and safety incentives. Finally, we review our going 1949 9800 service or tariff, billing and responding to customer billing panalq gnirotinom bas noitatnemalqmi

requirements. This allocation recognizes that most of customer account costs are associated with metering, which almost always occurs at a distribution level voltage. As such, these costs

A. Nongeneration Base Revehue Requirement Capacity

In D.96-01-011, we adopted an authorized level of base revenue requirement (ALBRR) for Edison's 1995 Test Year General Rate Case. We authorized \$4,017 million for this total base revenue requirement, and we also adopted a total ratebase of \$11,042 million. HIII We determine Edison's nongeneration base revenue requirement by adopting rules which immo's separate this total base revenue requirement and total ratebase into generation and initialization base nongeneration components. Almost all growth bases of the generation and initialization and solutions.

or 2020. We recognize that Edison's stated that it separated its ratebase into generation and nongeneration using FERC and NARUC guidelines. We accept Edison's use of such 21 amining guidelines, but we older Edison in its compliance Advice Letter to describe the method and movor result of its assignment of ratebase assets such as lines, transformers and switches at the day affirst generation transmission interconnection for each Edison generating plant. This assignment points should recognize our recommendation in our recent dominants to FERC regarding separation of we transitission and distribution facilities interest on its conicular motion against a control of the plants of th

distribution O&M to nongeneration. We accept this assignment remainport support start and to have authorized Both as assigned both customer accounts and customer service and tembroaries information to nongeneration. We accept Edisoh's assignment of customer accounts to relate and nongeneration because most of these costs such as opening and closing accounts; changing actives service or tariff, billing and responding to customer billing problems vary with customer requirements. This allocation recognizes that most of customer account costs are associated with metering, which almost always occurs at a distribution level voltage. As such, these costs

administrative and general. Edison has assigned its accounts labelled transmission and althour 101

properly belong in the distribution function within nongeneration. Therefore, we also expect that in the separation of nongeneration most of these costs will appear in the distribution and a selection business. We cannot accept DRA's recommendation of a labor-only allocation method in (another because customer costs vary with Edison's customers not Edison's employees, gains and allocation.

(CS&I) costs to nongeneration. These costs come from DSM and economic development. We will assign DSM costs to generation because generation represents the primary source of you seed avoided cost in DSM. We recognize that development of a new funding source for DSM could a require re-allocation of these costs a Because of the extensive customer contact required for 181. He economic development, we will assign these costs to nongeneration. We cannot accept DRA's at plant based allocation of these expenses because we do not fund either program based on the value of current plant in services, batquise only has 8819 and to accept batquise of some batquise of the extensive customic services batquise some batquise on the value of current plant in services, batquise only has 8819 and to accept batquise on the services batquise only has a service to program based on the value of current plant in services.

general costs because these provide general support for Edison's other employees. We accepted DRA's allocation of RD&D which is based on Edison's 1995 GRC filing and which allocated ods 47 percent to nongeneration and 53 percent to generation. We accept Edison's allocation of franchise fees to nongeneration because this allocation follows FBRC and Commission of actions. We accept DRA's allocation of uncollectibles based on total other expenses because the an uncollectible bill includes both generation and nongeneration expensed We order property word taxes and other taxes allocated based on net plantages and has allocated out refer to the discount of the dot X-190.

o) has Finally, DRA recommends a downward adjustment of Edison's overall revenue this requirement, not just customer access services, by a full 5 percent. (DRA Opening Brief, pairing) 45.) Edison opposes DRA's proposed reduction of The Commission should not be asked to all and conclude that a certain level of costs are reasonable (by virtue of the GRC Settlement) and then 3.0 immediately turn around to extract an additional \$390 million out of authorized 1995 revenues. If spending a certain amount of dollars to cover operating costs is reasonable under traditional

ratemaking, then spending the same costs under PBR to provide the same level of service thust and be viewed as per se reasonable; conversely, the extraction of additional revenues by DRA' (and additional revenues by DRA') (and additional revenues by DRA' (and additional revenues by DRA') (and additional revenue

base revenue requirements into generation and nongeneration, which uses the accounts from a liw Table A-5 and the separation presentation in Table B-1 from volume SCE-2 of his Application volume B. Rates for Nongeneration and Distribution Base Revenue Requirement of the solution of Bate and Revenue PBRs so a soft agree this supportant of the separation of Rate and Revenue PBRs so a soft agree this supportant of the separation of Rate and Revenue PBRs so a soft agree this supportant of the separation of Rate and Revenue PBRs so a soft agree this supportant of the separation of the separation of Rate and Revenue PBRs so a soft agree this supportant of the separation of the separation of the separation and the separation of the separation of the separation and the separation of the separation

we adopted rates for the initial year of the PBR and also adopted a formula which allows to soler changes to these rates in subsequent years based on changes in inflation and productivity. In this order we refer to this formula as the update rule because it updates prior rates or revenue for 3 the effects of inflation and productivity. It is desired a finite that the update rule because it updates prior rates or revenue for 3 the effects of inflation and productivity. It is not because it updates are desired as a context of the effects of inflation and productivity.

similar to CPI-X and we'ordered that each utility apply this update rule to current rates to evidence determine future rates. On the other hand, Edison has requested a PBR which adds a customer of growth allowance to its prior year base rate revenue requirement, then applies the update fule of ne CPI-X to both the customer growth and base rate revenue requirement, and then converts this sexual into next year's rates using forecasts of customers and sales. Edison has also proposed to continue the ERAM balancing account which eliminates the risk in these forecasts. To simplify our discussion and only for purposes of nomenclature, we will call the type of PBR approved in the customer and only for purposes of nomenclature, we will call the type of PBR approved in the customer and part of the continue the PBR and we call the type of PBR which Edison requests a revenue PBR of the customers and sales.

innucliately turn around to extract an additional \$390 million out of authorized 1995 revenues. If spending a certain amount of dollars to cover operating costs is reasonable under traditional.

subsequent year by applying the update rule for the effects of inflation less productivity directly sq to rates in the prior year. In contrast, a revenue PBR adds a customer growth allowance to the star revenue requirement for the prior year, applies the update rule for inflation less productivity to be this combined revenue requirement and then converts this updated revenue requirement to rates at based on a forecast of sales and customers, star out the Head to yet a worg remoteur requirement as

Thus, use of a revenue PBR requires a forecast of sales and customers, which is not creates a source for considerable controversy because for a given revenue requirement a low sales forecast will raise rates which increases utility revenues while a high sales forecast willinger lower rates! However, we want adoption of PBRs to reduce this sort of regulatory controversy, of this controversy does disappear with use of an ERAM balancing account. However, we intend to reduce our reliance on balancing accounts because their use does not emulate the competitive market.

(1015/1030) gaits intimin to but anoity account allows a reliance or reliance our summariup accounts.

On the other hand, use of a rate PBR does not require a sales forecast because a that rate PBR simply updates current rates with CPI-X to determine future tates, which eliminates \$1.81 the controversy of sales forecasts or balancing accounts such as ERAM. Compared to a revenue PBR, a rate PBR does assume that incremental revenues from the growth of sales at tanon least covers the incremental cost of serving new customers. We can design a rate PBR to quite out produce the same expected revenue as a revenue PBR, given forecasts of customers, sales and informental costs. However, because actual and expected sales will differ, rate and revenue mover PBRs will yield different actual revenue.

rate and revenue PBRs. To use these models requires forecasts of average and incremental approne customer costs as well as sales and customer growth rates. In its Application, Edison states that are application, Edison states that it expects sales to grow at 2.87 percent annually while customers

will grow at 1.86 percent annually which implies a growth of sales per customer of about 1 percent although in recent ECACs Edison has shown lower actual sales and customer growth which rates. Using these data from Edison's Application in the simple models developed by DRA and on Edison indicates that a rate PBR will generate as much revenue as a revenue PBR even if the love incremental cost of serving a customer exceeds average cost by as much as 50 percent as long simulations as the sales per customer grows by at least half the rate of the customer growth rate, which is loved consistent with Edison's recent experience in a support SEC support a for our sould.

regulatory intervention than a rate PBR. A revenue PBR will require substantially more to a solution regulatory intervention than a rate PBR. A revenue PBR will require either a controversial sales to forecast or a sales balancing account. A fate PBR will require neither a Moreover, we have a round described how Edison will likely cover its revenue requirements under a rate PBR. We adopt a fit rate PBR, rather than a revenue PBR, to meet our policy objectives of allowing Edison to meets of its revenue requirements under reasonable assumptions and of minimizing regulatory.

10.415777.

B.2 Adjustments to Nongeneration Revenue Requirement of manual category leads 8184 atta

nongeneration based on its request in its rate case Application (A.93-12-025): In D.96-01-011, on we adopted an authorized level of base rate revenue requirement (ALBRR) of \$4,017 million, test which is less than Edison's request in its rate case Application and we removed the base rate about revenue requirement associated with SONGS 2&3, including ALBRR for general and laterageneric administrative costs in D.96-04-059.

nongeneration ALBRR after making all adjustments which we have ordered since Edison filed of a loss of the PBR Application. These adjustments should be consistent with the showing in Edison's notion its PERAPplication, including any updates. In workpapers accompanying its incrementable while customers and a 2.87 percent annually whale customers.

recommendation in any outstanding Application on this ALBRR separation of generation and recommendation. It would remove a blood to the object of the separation of generation and report of the separation of the

nongeneration and generation base rate revenue requires determining separate rates for 3.44 nongeneration and generation base rate revenue requirement.g/To accomplish this requires separating all existing rates and charges which recover base revenue requirement into rates and charges that separately recover generation and nongeneration base revenue requirement.o/Thèse ib separate rates will form the rates to which we will then apply the update fule.i Edison shall circuit develop these rates and charges using the methodology which we adopted in our Phase II on guilful decision in Edison's last GRCs and shall provide complete workpapers showing the details of our all calculations and the source of all data. In the construction of these rates, Edison will use also where necessary, the sales forecast, which we adopted in the last Edison ECACs which is also other consistent with the policy adopted in our decision on flexible pricting in Phase 2 of Edison's if the GRCs D,96-08-025. At a shift of MH and application of the rates are a falson of the pricting in Phase 2 of Edison's if the GRCs D,96-08-025. At a shift of MH and application of the rates are a falson of the pricting in Phase 2 of Edison's if the GRCs D,96-08-025. At a shift of MH and application of the rates are a falson of the pricting in Phase 2 of Edison's if the GRCs D,96-08-025.

Advice Letter filing, but we do not order Edison to bill customers for these separate rates until o mi we separate nongeneration base rate revenue requirement into transmission and distribution which will occur after 1996 to to the confidence of the ISO METAL ADVISOR AND ADVISOR TO METAL ADVISOR AND BASE of the revenue of January, 1997 bloods meaning a survey that

Hotorpas In D.96-01-011; we required Edison to file an Application if it requested his northead is an interested and in the Edison. In the Edison and we discussed the transition from rate case regulation to PBR in the low our adoption of this PBR, we will allow Edison's to apply its update rule of GPLX to obtain unitary and the effective lanuary. It is 1997, for nongeneration that equirement could produce duplication or omissions. With

Application, Edison requested a revenue PBR which included both this update rule and a milymose customer growth adjustment. We'ale not adopting a revenue PBR and although Edison has moses experienced customer growth, we will not allow Edison to add a customer growth allowance to mits base revenue requirement polymono of some parameters of the property of the prope

separation of hongeneration ratebase and fevenue requirement into transmission and the gaineners distribution which will occur both at FERC and here aln Order 888; FERC established seven reads criteria for the functional separation of transmission and distribution components. In its FERC 22 filing made on April 29, 1996; Edison requested that FERO declare transmission facilities as 1979 those carrying voltages 230kV, qWe expect that FERO will respond to this request with a noision declaratory order later this year. After that, we expect that each utility will file a transmission of the rate case with FERO for approval of its open access transmission tariffs and that each utility and will have filed a distribution PBR here at this Commission or modify broader PBRs in place is now Consequently, this Commission will consider each distribution PBR while FERO considers the Side companion transmission rate case. For Edison; we decide most issues for its distribution PBR in our decision today, a pool to a sometime filed of novited rates on a way and spail to 1991. I so 1991.

meet the planned start date of the ISO. Moreover, FERC's approval of the supporting ratebased wand revenue requirement should also occur well before January 1, 1998, which will allow now 1.81 Edison, PO&B and SDO&B to complete their distribution PBR filings here. FERC's approval of the tatebase and revenue requirement for transmission will help us make a final in the moreover determination of the initial value of the distribution ratebase and revenue requirement for transmission will help us make a final in the moreover utility. Absent coordination between FERC and this Commission, this 3eparation of the policy color nongeneration revenue requirement could produce duplication or omissions. With

coordination, we expect that this separation will occur well before January 15-1998; in order to make the content of the cover, because we adopt a rate PBR, we review but do noted both no notification on that date.

Edison apparently proposes both an initial and continual coordination between offs transmission and distribution revenue requirement. In its recent July 15, 1996; Application for .:) Unbundling and Generation PBRs, Edison proposes to treat transmission as a revenue credit against the nongeneration revenue requirement established in this decision. This revenue credit to concept implies that Edison expects that we will adopt as Edison's initial distribution revenue at we requirement the residual between hongeneration revenue requirement and the transmission region revenue requirement adopted by FERGM Moreover, this revenue credit concept also implies that an Edison expects that we will adopt a balancing account which will continue to buffer i additinated fluctuations in transmission revenue with compensating changes in distribution rates. A sugari to

this Commission although it dould help simplify any subsequent refelassification of distribution at or transmissions. Edison's revenue credit concept is consistent with Edison's Application for itsternongeneration PBR, which requests a PBR based on revenue requirement, rather than rates, and averquests a continuation of ERAMI allow decision today, we order a rate PBR, not a revenue PBR, and we order elimination of ERAMI balancing account treatment for base revenue as sentled requirement. Because Edison has not yet filed its request, with us for a revenue credit, we assume cannot act on this proposal is this mostlet, thus so the requirement of a population, Productivity and Customer Growth selection of a point of no instability.

Because it requests a revenue PBR; Edison requests a rule which includes an adjustment for) MSS prices, productivity and customer growth. We accept Edison's request to use the CPI as the log proxy for the inflation change but we adopt a different rule for productivity. We order an

annual use of this update rule following Edison's proposed implementation schedule. noise absence Moreover, because we adopt a rate PBR, we review but do not adopt the customer growth of wollo allowance; I noise absence for a limit and had according blood growth.

C.1 The Inflation Measure viol traces at all three equiveres of the Inflation and distributions are the Inflation of the Infl

directly represents the cost of its inputs but because over the past decade the CPI has tracked the 36 Wholesale Price Indexib We note that the WPI includes prices of inputs used by all industries, 2009 not just the electric utility industry. To establish an accurate inflation or price indexifor the stupen nongeneration business of the electric utility industry requires completing a study which groups consubstitutable inputs (e.g., poles) and then finding a inflation index, which represents each groupiful of inputs. No party in this proceeding presented such an industry-specific price index, 21 Aminoufly complex issue concerns an accurate inflation indexifor the opportunity cost of capital which includes its price change as well as the return of and return on capital, particularly one which I stiff reflects any difference between ratebase and economic depreciation rates as well as time increasing any varying renewal rates for the capital stockards no based 2811 a secondar ratio.

defines an industry-specific price index, which at least proposes an index with three aggrégate 884 inputs: capital; labor and materials: (As part of this index) Edison will présent its proposal for anyour current opportunity cost of capital. As part of this study, Edison will show the difference in tonness application of a price index to all capital related costs; to its proposed opportunity cost of capital. O and only to those capital costs not subject to long term commitment at the beginning of this PBR (e.g.) depreciation and bonds whose nominal commitment at the beginning of the set start of the PBR). The owner request to the proposed opportunity and customer growth and costs of the particles, productivity and customer growth. We recent the formal control of the particles, productivity and customer growth a fifteen or productivity. We order a productivity of the inflation change but we appear a fifteen for productivity.

Labor Bureau of Labor Statistics? (BLS) provides a general and usually much less confroversiall choice as proxy for a utility's input prices? (In its testimony, DRA noted that the CPI contains on an upward bias of 0.25 to 0.50 percent due to the BLS! measurement problems.) In D.89-10-och 031, we adopted a similar index; the Gross Domestic Price Deflator Index (GDP-DI) not the faid CPI, as a proxy for the utility's input prices; Because both the GDP-PI and the CPI measure to a aggregate output prices; their use as input price proxies implies inclusion of an adjustment for one expected aggregate productivity as noted by both DRA and Edison, in their Workpapers of the one of the second price of this adjustment. The land to see the size of this adjustment of the continued. We adopt the GPI as the inflation or price index for both the nongeneration and on distribution PBRs of the continued of the continued of the productivity. Measure of this expectation are productivity as noted to the continued of the productivity Measure of this expectation and on the continued of the productivity Measure of this expectation and on the continued to the productivity Measure of the continued of the continued to the productivity Measure of the continued of the conti

nongeneration) system presented in its 1995/Test Year General Rate Case, verified by DRA quanthrough its own independent analysis, reported a value of 1.4 percent for the system. Edison's study of total factor productivity for its mongeneration business, presented in Edison's revised reb PBR Application in August, 1994, reported a value of 0.9 percent for nongeneration. In its idea X recommendation for a value for X₃ Edison then included a "stretch" factor to raise the value for system productivity from 1.4 to 1.8 and the nongeneration value from 0.9 to 1.4 percentil to yields

of Edison's total factor productivity studies although DRA noted that such studies reflect both orgestatistical and model error; where model error includes the assumption that Edison has been then operating efficiently. HAs indicated above; we would prefer to use an industry study to set thell role productivity value but both: Edison and DRA relied on a utility specific study because neither could identify an industry study, to set a no bosed substitute above a voice of the study because neither could identify an industry study, to sid on bosed substitute the study and industry study.

'stretch' factor of 0.5 percent.

to mounte Several parties recommend values for X which meet their policy objective of lowering Edison's rates toward the national average. IBS points out that Edison's productivity. rose to 2% from 1982 to 1995 and that from 1985 to 1992, total T&D capital expenditures solods decreased. (Edison concedes that more recent measures of Edison's historical productivity are no higher, but Edison counters that this frend is not expected to continue into the future, Joint 1180 Parties' examination of Edison's O&M expenses for transmission, distribution and customer, 190 accounts for the period from 1987 to 1992; showed cost reductions of 2.9%, which yielded 3% 30 in cost reductions when adding A&O expenses but we hote that these expenses represent much ? less than half the nongeneration revenue requirements. (Thus, these parties present only partial, (not total, factor productivity analyses, for recent but short time intervals, with such short time intervals not necessarily supporting sustainable forecasts. Consequently, we face uncertainty with about potential productivity. However, we do not necessarily require a precise forecast of 11 5.3 productivity because our progressive net revenue sharing policy, discussed below, will allow ratepayers to keep much of the more achievable productivity gain at 1251 and 1251 the its 1240 guou s'nosibil. We recognize the relationship between productivity and system rates in a sti deponds developing our policy for a value for the productivity or X factor, but we will adopt a value for the X which primarily reflects our assessment of achievable productivity, bug nA mi noitealignA SISI and suffer sIn the absence of an industry study, we must rely substantially on the firm-specifion study of Edison. However, we believe that Edison will discover opportunities for cost or quantity reductions as they work with employees over the course of this PBR a Therefore, we adopt a productivity measure which starts with a Value of 1.2 and increases by 0.2 percent a year for the lo next two years! (This, we'order productivity or X-values of 1/2 for 1997) 1.4 for 1998; and 1.6 1618 for 1999 through 2001. These values will apply to both the nongeneration PBR and its in guitanogo. successor, the distribution PBR / Over the five year period, the productivity averages 1.4815ubo1q percent which is above Edison's proposed value based on a historical value of 0.9 percent and a 99

mechanism will allow ratepayers to share much of the associated cost reduction; for example, if an Edison can achieve 3 percent productivity, then ratepayers will receive two thirds of this. (Woung discuss the details of this example in the section on net revenue sharing.) Thus, net revenue sharing gives Edison an incentive to achieve higher productivity and gives ratepayers a 1, 1979 woll substantial share of the cost reductions. I stand seed noither angular and of the cost reductions. I stand seed noither angular of the cost reductions. I stand seed noither angular of the cost reductions. I stand seed noither angular of the cost reductions. I stand seed noither angular of the cost reductions. I stand seed noither angular of the cost reductions. I stand seed noither angular of the cost reductions. I stand seed noither angular of the cost reductions. I stand seed noither angular of the cost reductions. I stand seed noither angular of the cost reductions. I stand seed no standard of the cost reductions. I standard of the cost reductions of seed of the cost reductions. I standard of the cost reductions of seed of the cost reductions. I standard of the cost reductions of seed of the cost reductions. I standard of the cost reductions of the cost reductions of the cost reductions of the cost reductions of the cost reductions. I standard of the cost reductions of

shuloni. In D.89+10-031 (we adopted a rate PBR, one which applies the update rule for unoverprice less productivity to last year's rates to derive next year's rates. To simplify the use of this 1-5 update rule, we actually apply the update rule as a surcharge on the customer's bill-ord beginning

However, Edison has applied for a revenue PBR, not a rate PBR₁. Edison applied off for a revenue PBR because Edison asked to retain the ERAM balancing account, which means that rates would reflect the PBR update rule and any ERAM adjustments. A revenue PBR applies the update rule to last year's base rate revenue requirements, adds an adjustment for the non-cost of customer growth and then translates this revenue requirement to next year's rates using a reforecast of next year's sales, demand and customers. Without adding the new customer bloom out allowance to the revenue requirement, rates decline in subsequent years when the static revenue requirement is divided by the increased sales associated with customer growths add as a sales, sales, one of

incremental cost per customer and the expected number of new customers served in the all apaquit following year, and As an estimate of the expected number of new customers, we will use the most important historical value for customer growth, not a forecast value, because customer growth aparties tends to change slowly and because using this historical value will create less controversy than using a forecast. Edison stated that it used a methodology presented in its earlier GRCs to proposed develop its forecast of incremental nongeneration cost of \$779 for serving each new customer.

We accept Edison's incremental cost of \$779 for its customer growth allowance with However, because we are adopting a rate PBR, we will not include a customer allowance a gained.

D. PBR Adjustments to the Nongeneration Base Rate Revenue Requirement on the honoradus.

In this Section, we describe our policies for adjusting the nongeneration base rate. On this Section, we describe our policies for adjusting the nongeneration base rate and prior of the balancing account collection of the balancing account collection of the balancing account collection of authorized base rate revenue regulatement (ALBRR), and other specific account account of the balancing account account and the balancing account acc

D.1 Z-Factors' was the second of the first that a little of the first rates we again that a little of the second of the first rates we again that a little of the second o

continuously, often due to unexpected events. In D.89410-031, we recognized that unexpected legal events, which we labelled Z-factors, could lead to changes in the utilities' costs, some of which we would want included in the utilities' revenue requirements and some of which we would approximately recognize that unregulated firms in all industries face unexpected events. In response offer to some events, the market clearing price will compensate for the cost of these events while in applicate to other events the market price will not, which means the firms must absorb the impact. In NRP, we developed criteria to assess the nature of the event for its inclusion in the market

impact. In NRP, we developed criteria to assess the nature of the event for its inclusion in the most utility's revenue requirements and we selected inclusion criteria to simulate the unregulated is wollow market. At worst round to a content to a conte

reference; but this summary does not replace the criteria as developed and described in one a guistre second to the criteria as developed and described in one a guistre second to the criteria as developed and described in one a guistre second to the criteria as developed and described in one as guistre second to the criteria as developed and described in one as guistre second to the criteria as developed and described in one as guistre second to the criteria as developed and described in one as guistre second to the criteria as developed and described in one as guistre second to the criteria as developed and described in one as guistre second to the criteria as developed and described in one as guistre second to the criteria as developed and described in one as guistre second to the criteria as developed and described in one as guistre second to the criteria as developed and described in one as guistre second to the criteria as developed and described in one as guistre second to the criteria as developed and described in one as guistre second to the criteria as guistre second t

D.94-06-0115 First) the event causing the cost must be exogenous to the utility. Second, the event must occur after implementation of the PBR of Third, the utility cannot control the costs are not a normal part of doing business. Fifth, a event affects the utility has the disproportionately. Sixth, the PBR update rule must not implicitly include the cost. Seventh post the cost must have a major impact on the utility. Eighth, the cost impact must be measurable doing Ninth, the utility must incur the cost reasonably as As an example of the application of these driventeria, an increase in the price of poles or transformers after implementation of the PBR could be meet the six criteria of being exogenous, external (not controllable), unique (to the industry), measurable, reasonably incurred after PBR implementation but would not necessarily meet the as three criteria of having a major impact, not being a normal cost of business, or not being part of the PBR update rule (which includes a general inflation adjustment). In State to the sea beautonic

primarily to the criterion which requires that the event affect the utility disproportionately and 3-5 cites the example of a Pederal fax law change which affects all firms a Cost recovery regulation often allows a utility to raise its rates to recover such a cost reflowever, the Z-factor criterion in all our PBR regulation recognizes that market prices do not necessarily allow unregulated firms to be recover the full effect of such broad cost changes like changes in the tax law, this an example, and the price in an unregulated market will not necessarily adjust for the full effect of a tax change line on real property or on corporate earnings, and shareholders of unregulated firms could be an appear some of a tax change with the tax incidence (or impact) depending on the complex interaction of the supply and demand for both the firm's outputs and its inputs released the effect of a very mas substantial change in regulatory law such as the introduction of a Federal value-added tax) 102 lliw. However, we will not adopt Edison's revised criteria. Instead, we will maintain the Z-factor criteria along the lines adopted in NRF.

event eligible for Z-factor treatment, we require that the utility incur more than the threshold move cost, after which we apply the deductible to costs incurred before we allow the utility tolt atmost recover any cost beyond the deductible from tatepayers. Edison has proposed a threshold and with deductible of ten million dollars. On the other hand, DRA has proposed a two-tier deductible with the first tier of 20 million dollars, which shareholders bear completely, and a second tier of a twenty million which the shareholders and ratepayers splitton to some other and other shareholders and ratepayers splitton to some other and other and other hands.

as part of its PBR proposal. In the first step, Edison notifies the Commission about the Identificant existence of a potential Z-factor event. Edison then begins recording the additional expenses and incurred as a result of the Z-factor event in a memorandum account in the second step, Edison in files an application in which it seeks authorization to modify PBR revenues to reflect the

Z-factor event and to recover a related memorandum account balance in This filing includes making testimonly demonstrating that the proposed Z-factor exceeds or will exceed the \$10 million at 180 per threshold amount, and Edison's proposal for disposition of any balance in the memorandum matto account at Edison requests that the Commission adopt a quick procedural schedule, with 1881 me hearings and an ALJ proposed decision within 180 days of the filing of a Z-factor application; open unless a longer schedule it shown to be necessary, since costs recorded in a memorandum paid account may affect current earnings to supplied lands but a symmetry of the proposed of the recorded in a memorandum paid account may affect current earnings to supplied lands but a symmetry of the proposed of the recorded in a memorandum paid account may affect current earnings to supplied lands but a symmetry of the proposed of the recorded in a memorandum paid account may affect current earnings. To supplied lands but a plantage of the recorded in a memorandum paid account may affect current earnings.

potential Z-factor costs.) However, we require Edison to apply for Z-factor treatment in its state basis and bit is continued the costs. However, we require Edison to apply for Z-factor treatment in its state basis and bit is continued by case by case basis without pre-determined behavior and between the Market in the Z-factor procedural schedule on a case by case basis without pre-determined behavior. However, we will not adopt Edison's revised criteria. Instead, we will maintain the Z-factor procedural schedule.

1).2 Modification of ERAM for the Nongeneration Base Rate Revenue Requirement

nongeneration PBR, we ordered Edison and other parties to propose policies for the continued 201 use of the Electric Revenue Adjustment Mechanism (ERAM) balancing account of the ERAM) to balancing account allows the electric utility to recover its authorized level of base rate revenue of requirement (ALBRR) when actual and expected (or forecast) sales differ; this recovery occurs ob through a subsequent year rate adjustment. Edison proposes the continuation of the ERAM when account because it states that eliminating it would require developing policies for accounts other than ALBRR, also covered by the Energy Revenue Adjustment Billing Factor (ERABF) notated than ALBRR, also covered by the Energy Revenue Adjustment Billing Factor (ERABF) notated than

unregulated market in order to encourage the utility to manage its internal operations efficiently. In the unregulated market, the firm plans and invests to meet forecasted sales, but the firm's doon revenue comes from actual sales, which makes the firm face the uncertainty of sales as a cold 1970 fluctuations. In the electric utility business, the utility must plan its facilities and operations to 7000 meet forecasted customer sales under approved reliability criteria, but several effects can cause 1941 actual and forecast sales to diverge. Such effects range from daily variation in temperature, it is. It which affects air conditioning load, or less frequent variation in local economic conditions to the long term effects from trends like increased conservation efforts. The ERAM balancing 1931 on account allows the utility to recover its ALBRR despite sales fluctuations due to these effects.

conservation effects of DSM programs. We order Edison to work with other parties in the programs. DSM Rulemaking OIR/OII (1.91-08-002). R/91-08-003) to develop for implementation in rates in by January 1, 1998, a mechanism which uses the most current extipost measurement DSM i lo 1104 effects to adjust for the impact of DSM through reduced sales on nongeneration base rate revenue requirement.

between the recorded and authorized nongeneration base revenue requirement attributable to the DSM mechanism described above. We may adopt a nongeneration tariff which recovers more on of fixed costs through fixed charges which will limit the need for BRAM as a balancing account to recover base rate revenue requirements. We recognize the policy, which we adopted in our and decision, D,96-08-025, which allowed shareholders and ratepayers to share in incremental sales and where we stated that, if To the extent an overall benchmark is needed in the future in adjustable connection with these discount sales; the Commission's most recently adopted sales forecast for a all customers should be used? (p.60, mimeo), some years we grant sate to the covered by the figure of the first of the sales.

accounts which currently use it; and in its compliance Advice Letter, we order Edison to file annumer mechanism for a surcharge, applicable to the bills of all ratepayers, to apply the ERABE to a edital cover these accounts. We note that the size of this surcharge will vary less to the extent we move toward customer and demand charges for the collection of revenue requirement in our apply permanent distribution PBR. 46.4 (aligning vididally) havonage reban solve associated between homes.

D.3 Exclusions from the Nongeneration Base Rate Revenue Requirement's respect has harden

nongeneration PBRA Edison will exclude all generation related revenue requirements consistent of with our guidelines for the definition of nongeneration base rate revenue requirements adopted above. Edison will also exclude the amounts in special one-time amortization accounts.

However, where such exclusion requires development of tules which extend beyond the investigation and the investigation of the most current place. Advice the most current place and the impact of DSM through reduced sales on non-seneration base rate.

revenue requirement.

and DSM accounts which allows any reduction in spending to flow only to rate payers. Edison the shall not apply the update rule of CPI-X to the revenue requirements in these accounts salt to units

Edison shall exclude from the nongeneration PBR the Hazardous Substance of the Clean-up Cost Recovery and Edison's Low Emission Vehicle programs of novibil

IWe will adopt Edison's recommendation for the opening of a Catastrophic Eyent of Memorandum Account (CEMA) to record expenses related to a qualifying disaster in accord 2001q with P.U. Code Section 454.9. However, we expect that Edison will pursue an efficient 181000001 strategy to minimize such costs including the purchase of insurance and that Edison will present if with its Compliance Advice Letter a report on the availability of such insurance as part of its iduol plan to minimize the expected cost of service restoration following a catastrophic event. It and the content of the expected cost of service restoration following a catastrophic event.

Section 463, which requires a utility to submit to us for leview any plans for a project whose possible expected cost exceeds 50 million dollars. We will allow Edison to apply for Z-factor treatment of for such projects if Edison can show that the cost of such projects meets the Z-factor criteria, with but we will not apply the Z-factor deductible.

tens the will require Edison to apply for Z-factor treatment to address the bevenue requirement impact of the formation of new municipal utilities in its service territory) but we as all will not apply the Z-factor deductible confidence of the formation of the factor of the formation of the formation of the factor of the fac

It of quarter this Section, we present our policies for the cost of dapital and capital structule under the interim PBR. o We will adopt Edison's proposal for a Trigger Mechanism! but we will out set an effective date in a coordinated cost of capital proceeding. How you positioning out in organism E.1 The Cost of Capital Trigger Mechanism. Sinion sized 00 to organism out of the cost of capital Trigger Mechanism.

0.01 o Edison proposes to replace participation in the annual Cost of Capital proceeding 8.72 with an automatic cost of capital "Trigger Mechanism"? Edison asks us to adopt this Trigger 122129

mechanism not only to set the authorized return on equity but to make a corresponding revenue adjustment. We will adopt the Trigger Mechanism to reset the authorized return on the equity into share of the nongeneration ratebase for the purpose of adjusting the authorized return on equity of and the benchmark of the net revenue sharing mechanism and the mass flets no sibil

participation in the annual Cost of Capital proceedings. In the annual Cost of Capital proceedings, and in the annual Cost of Capital proceedings, and in the annual Cost of Capital proceedings, each utility submits testimony, which we use along with updated interest rate annual forecasts to set the authorized return on equity and the total return on ratebase. In Beison's Path of this index, averaged from an annual could be a bond index value but only when the last 12 months of this index, averaged from an allow October through September, show a cumulative change of 100 basis points from its base value and When this change occurs, it triggers Edison's authorization to file for an automatic increase in its equity return. This change also resets the base value to most recent 12 month average for the 22 bond index. In D.96-06-055, we approved a very similar mechanism for SDG&B, filed after 2012. Edison's PBR Application and called the Market Index Capital Adjustment Mechanism of the 22 (MICAM)

the average of the last 12 months increased to 9.0 percent (which likely means that the most pringer current month substantially exceeds 9.0 percent), then Edison's authorized return on equity for Hilly would increase by 0.75 percent or 75 basis points (half of the difference between 9.0 and 7.5) 3.4 and the base index value would be reset to 9.0 percentage. With a change in Edison's example if the average of the bond index yalue for the last 12 months increased only to 8.4 percent, no 11 robust change in the authorized equity return would occur because the Trigger threshold of 100 basis in 192 points exceeds the index change of 90 basis points. However, 10 continue with this changed if 1.31 example, if the bond index then continues to increase in the following year from 8.4 to 10.0 percent, then the authorized return would rise by 1.25 percent (half the difference between 10.0.0).

and 7.5) and the base reset to 10 percent. To vary this last example, if during the second year well. the bond index value declined to 7.0 percent rather continuing to rise to 10.0 percent, then a critical Edison would again receive no change in its authorized equity return because the cumulative within index value had never moved in one direction by more than 1.0 percent. 19:008 (2004)0 no mulor

to exoque The current cost of capital proceeding allows Commission discretion and uses ah as interest rate forecast to set the authorized return on equity while in contrast Edison's proposal zidi relies on an automatic rule and recent actual changes in interest rates. Edison's proposal also silmi buffers the interest change by only allowing the authorized return on equity to change by half the change in the bond index value and only if the bond index value has changed by more than in 1.0 percent. Relying on a bond littlex is consistent with the market's view of regulated utility of the stocks, Moreover, this interest rate buffering focuses on longer run changes in the interest rate, all which stabilizes the authorized teturn; while the automatic rule removes the regulatory but that uncertainty in our cultient discretionary Cost of Capital proceeding, noited in test exingered ob eW

that the street impact of the Trigger Mechanism on shareholders and ratepayers is with the unclear. If we only assume that changes to a utility's authorized return represents a 'zero-sum'od game between shareholders and ratepayers (i.e.) what's given to shareholders is taken from Fanil a ratepaylers), then the impact on ratepayers is unclear. However, both shareholders and ratepayers benefit from greater regulatory simplicity. The stabilizing effect of the Trigger could benefit Edison's shareholders by decreasing the long rull systematic risk of Edison's equity, aimon potential benefit which could be shared by ratepayer and shareholder. If the inflation and bomuses interest rafes are more likely to rise than fall over the duration of the Trigger Mechanism, then some both the partial adjustment response to interest rate changes and the lag in the adjustment will 5181 benefit fatepayers more than shareholders. We see net benefits to ratepayers from regulatory it bas return on equity to increase by only half the increase in destributed fillial forms of the property of the increase in destributed in the increase in the incr willing the Before accepting the Trigger Mechanism; we must examine its impact within the dw

PBR as a whole. This requires examination of the relationship between the effect of the Triggerpo

Mechanism and the effect of the CPI in the update rule. This update rule applies to Edison's hone entire nongeneration base rate revenue requirement. This base rate revenue requirement based only includes the return of (depreciation) as well as the return on ratebase (bond interest and the result return on equity). Because the update rule equals the difference between the values of inflationing and productivity indices (CPI-X), the update rule increases with inflation. For the purpose of this analysis; we can set aside the productivity adjustment because it does not change with perbina inflation. Lescopoid s'nosibilation and solution in agencial leuton income also change with perbinal inflation.

The dot will be when applied to the base rate revenue requirement, an increase in the update will define rule increases the value of all base rate components, including the return on equity. (The update of rule adjusts the return on equity with the most recent value of inflation, which we measure with). If the CPI in the update rule, while the Trigger Mechanism also adjusts the return on equity by 20012 half the value of the change in the bond index, which will change to reflect expected inflation, in the We do recognize that inflation affects these two measures differently; the CPI reflects recent 19000 inflation and the bond index reflects expected inflation. However, we also recognize that the bond market seems particularly sensitive to the most recent changes in the CPI which indicates and a link between recent inflation and the formation of expectations about future inflations and stages.

CPI in the update rule and the Trigger mechanism. In the base year, assume the effect of the pater portion of the ratebase equals 3 billion dollars with an equity return of 300 million dollars at an extraord assumed equity rate of 10 percent for simplicity. Assume also that current inflation as ad learn to measured by the CPI rises by 3 percent and that the bond market expects this certain inflation rate will continue indefinitely which, in this example, increases the market's utility bond pate, thou and the bond index to 13 percente A year later, the Trigger mechanism allows the authorized it and the bond index to 13 percente A year later, the Trigger mechanism allows the authorized it and which is likely half the increase expected to clear the equity market because traditionally utility equity markets track changes in the utility bond markets or an expected to clear the equity market because traditionally utility equity markets track changes in the utility bond markets or an equity of the short of the short of the short of the short of the equity market because traditionally utility equity markets track changes in the utility bond markets or an equity of the short of

utility receives only an increase of 45 million dollars because the authorized return only rises (8°) 11.5 percent. (At the same time the increase in the CPI increases the amount which the utility 2014 recovers from the 300 million in the equity return portion of revenue requirements by 3 percent. If then the utility will continue to receive increases in the example, inflation stays at 3 percent, then the utility will continue to receive increases in the revenue requirements from 309 (6°318 to 328 to 328 to 337 to 348 million dollars in the subsequent years. The utility will reach the 13 percent rate 200 million return required in the equity market in less than 5 years. As inflation and interest rates rise, this state declines somewhat but even with an increase in the CPI of 6 percent the time is only about a 4.5 years. In the meantime, the utility will not recover about 90 million dollars, half from the body year delay in the implementation of the Trigger and half through the delayed effect of the increase in the application of the CPI to the equity portion of the revenue requirements. Of a year course, the impact of this delay on the utility is symmetric and benefits the littlity when interest rates and the market return on equity decline, 20° examination of sequence of sourch to sourch to increase in the market return on equity decline, 20° examination of sequence of sourch to sourch to sourch to increase and the market return on equity decline, 20° examination of sequence of sourch to sourch to sourch the increase and the market return on equity decline, 20° examination of sequence of sourch to sourch to sourch the sourch to source of sourch to source the source of the source o

can only be worse off of contrary to tradition, the change in the interest rate which clears the room utility bond market substantially exceeds the change in return which clears the utility equity of our market. The Trigger mechanism can benefit ratepayers if interest rates are more likely to rise due than fall, at logorous lying dis wolls, bluop don't wout outs bringen it utilities to be bringing or produce.

We will decide the implementation date for the Trigger in a coordinated cost of E.A capital proceeding. In its compliance Advice Letter, Edison must select a specific double A bond index for its Trigger mechanismi. We will accept an index that shows stability in 30 250 1107 231 composition, has not over-reacted to changes in actual inflation and includes other integrated double utilities which are représentative of the existing industry and répresentative of structural distintance changes likely to face Edison during electric restructuring. In its annual report, Edison should track the monthly composition of this index.

CPL. We will require Edison to show in its mid-term review that the joint effect of the Triggerline Mechanism and the CPI provide an appropriate compensation for Edison's return on equity 12.11 E.2 Capital Structure Flexibility or he notined antity which allows that we allow it complete flexibility to change its capital took most structure. We will not adopt Edison's request because it could expose the ratepayer to Him willing unnecessary risk. We will adopt DRA's proposal in its testimony for limited capital structure that flexibility which allows Edison to vary the share of debt or equity by no more than 5 percentages total ratebase which is allocated to nongeneration as of January 1, 1997 mitmasm and it. Stroy E.1.

have not developed definitive guidelines for setting an optimal capital structure because we have not developed definitive guidelines for setting an optimal capital structure in our Cost of that Capital proceedings. We have not developed these guidelines because we have not received approximately proceedings. We have not developed these guidelines because we have not received approximately sufficient evidence to construct such guidelines. We have received evidence which indicates apply that financial analysts primarily use judgment, rather than definitive guidelines, to develop recommendations to adjust capital structure. We do not object to the reliance on judgment but may we believe that we should impose limits on Edison's discretion when judgment plays such a vitility substantial role. As a simple example of the type of event we want to avoid, we do not want to an authorize unlimited flexibility in capital structure which could allow a highly leveraged buyout parts.

E.3 Net Revenue Sharing: 1000/17 and 1000 moitanomologic and chief blive and

eapital proc materials no based maintained surrous ten a sacopy process of the composition of mutar later and the surrous string that the mutar later and the string as a sacol to a sacol

ratepayers. Under its) proposal, shareholders receive the more achievable gains or losses. Edison also requests the right to apply for an adjustment of the PBR including het revenue) stated sharing, when its return falls 300 basis points below the benchmark; Edison would allow an slid w intervention if its return rises 300 basis points above the benchmark gained abid wai band side that

to shift or In contrast, we adopt a net revenue sharing mechanism based on nongeneration most revenues, not total revenues, and built abound a benchmark of the authorized fetum on equity, and not return on ratebase. The net revenue sharing mechanism must encompass the same scope of 0000 revenues and costs as the PBR itself. We have identified a separate nongeneration revenue) striking requirement and the separation of revenue between generation and nongeneration should follow this division of base revenue requirement between generation and nongeneration. This revenue approach into generation and nongeneration is feasible because rates now include a share a 0.001 attributable to total base revenue requirement. When we approve separation of nongeneration's revenue we into transmission and distribution, the net revenue sharing will be based on distribution's revenues.

oditionales. As we have described above, the Trigger mechanism will update the authorized op benchmark return. We order Edison to use the authorized equity feturn on racebase, not the add one total return, to define the benchmark. As a part of our unbundling proceeding in electrical operation of the restructuring and with coordination in the cost of capital proceeding, we intend to ofder separate and distinct authorized equity returns for the generation, transmission and distribution is not so operational. Under our sharing mechanism, shareholders receive all the gains and losses up to both operations. Under our sharing mechanism, shareholders receive all the gains and losses up to both operations around the benchmark, which we call the inner band, we intend tood the distribution assign them the gains and losses associated with routine operation. For example, we intend that of the revenue requirement of \$2156 million implies about \$30 m. 200 m. 20

Our mechanism has a transition at 50 basis points. Between 50 and 300 basis against points the shareholder share of gains or losses rises continuously from 25 through 100 percent vibil while the ratepayer share correspondingly and continuously declines from 75 to 0 percent. We will call this band in which sharing occurs, the middle band. Within these inner and middle bands istait from the benchmark to 300 basis points, the shareholder receives a little more than (wo-thirds of the net revenue and the ratepayer a little less than one-third. The shareholders receive all gains area 300 basis points above the benchmark and remain responsible for all losses below 300 basis to loa revenues and costs as the PBR its band the outer Band at the outer Band wollo's blue We have chosen the 75/25 split at the transition from the inner to the middle band or because it represents a compromise between assigning all gains or losses to ratepayers, a split of all 100/0, and assigning half the gains or losses to ratepayers, a split of 50/50.0 A split of 100/0 energies would provide no marginal incentive to the shareholder while a split of 50/50 would reduce the ans ratepayer share of both inner and middle bands to only 20 percent which means the ratepayer it office receives little of the productivity gains. We have chosen to start the outer band at 300 basis marzon points because the productivity required to reach the outer band is nearly 4 percent, adding the 300 basis points to 120 points, which is the ratebase equivalent of the 160 basis points used for and total return, to define the benchmark. As a part of our unbundling proceeding the benchmark. storages and The effect of sharing for the ratepayer is best revealed by an example. In the upunteer discussion above concerning productivity, we described an example where if Edison achieves a busproductivity of 3 percent, then ratepayers will receive hearly 2 percent or two-thirds of this oits requi productivity gains In this example, assume an X value for productivity of 1.6 percentual of itself 02 which the ratepayer receives because the benchmark return incorporates the X-value at sublinduality Consequently, ratepayers and shareholders share productivity above 1.6 percent, which, in this gizes example, equals 1.4 percent. The 1.4 percent applied to Edison's proposed nongeneration base i zid! rate revenue requirement of \$2156 million implies about \$30 million which equals about 106 squipt basis points given Edison's proposed nongeneration jurisdictional ratebase of \$2865 million.

Of this 106 basis points; shareholder's receive 50 basis points from the inner band while a roll ylqqs ratepayers and shareholders split the remaining 56 basis points so an after-tax basis; because the ratepayers receive 33 basis points on ratebase of 42 basis points on revenue requirement, which are when combined with the 160 basis points from the X value equals 2.0 percentains oil year seneped

Several parties call this variable sharing progressive sharing because the utility's 321 share rises with its earned return which should give the utility an incentive to achieve greater 28. It productivity to DRA and the Joint Parties both propose progressive sharing. In contrast, parties call Edison's sharing proposal regressive because the utility's share declines with its earned moteur return to As we have indicated above, we want to adopt a PBR which emulates the market and upon we conclude that progressive sharing resembles the market outcome more closely than the iteration regressive sharing recommended by Edison. To see the propressive sharing recommended by Edison.

Moreover, we have designed our net revenue sharing mechanism to complemention our update rule which includes productivity values which increase over the duration of the PBRI I In selecting productivity values, we recognize that we are uncertain about the exact value for achievable productivity. We have designed our progressive net revenue sharing mechanism to some reveal achievable and permanent productivity gains over the duration of the PBR. This will also all balance the interests of the ratepayer, shareholder and employee, has willidelied solves satisface the

Edison, DRA and IREW each presented initial and reviewh proposeds for a

share, S, of net revenue, R, given a total corporate tax rate, t, of 40 percent from (R-0.75S)(1-t) = 0.25S, which implies after-tax shares of 64 percent for ratepayers (rh) and 21 percent for shareholders (sh); second, finding the rate at which the ratepayer share declines from this ival percent (dp) maximum over the middle band range of 250 basis points which is a decline of .26 percent (dp) for each basis point increase in net revenue; third, finding the mid-point of the incremental return of 56 basis points which lies above the 50 basis point inner band (ib) or which is 0.5(56) \(\pi\)50 or \(\frac{1}{2}\)50 or \(\frac{1}{2}\)50 or \(\frac{1}{2}\)50 or \(\frac{1}{2}\)50 or \(\frac{1}{2}\)50 or \(\frac{1}{2}\)50 basis points; fourth, finding the after-tax ratepayer share which corresponds to this 78 basis point, which is rh - dp(78-ib) = 56.9 percent; fifth, calculating the ratepayer share as the product of 56.9 and 56 basis points or 31.8 basis points; and sixth translating this back to a revenue requirement basis by applying the ratio of rate base to revenue requirement or 2865/2156 which yields 42 basis points. This example contains simplifying assumptions.

To recognize the uncertainty of the effect of the PBR, we will allow Edison to apply for re-consideration of the net revenue sharing and the PBR program-if its earned return 100 falls more than 600 basis points below the benchmark and require Edison to apply if its earned obstretum rises above 600 basis points above the benchmark to We have selected these values require because they lie substantially beyond the range of the current and prospective returns for noon nodes regulated electric utilities ningly existence against a status of status and they are selected to the results of the current and prospective returns for noon nodes.

F. Service, Safety and Customer Satisfaction Measures doubt mutor homes an drive socioonals and proceedings to ensure that the utility continues to provide appropriate service and to meet healthout and safety objectives. Under traditional rate case regulation, our review has often emphasized again more qualitative measures and we have not relied on incentives, and an appropriate.

F.1: Service Reliability the rayo posteron deside study and a plant deside of the study rayon and study. Edison proposes to use two measures of customer service reliability. One sales of measures the duration of service outage and the other measures the frequency of outages addressed as a linear service Quality OII (OII.95-01-015), we have recognized that these two measures desided characterize service reliability and we are developing standardized measures to standard out sometimes.

5 minutes! This restriction of scope should exclude the impact of less frequent events like it. III. major storms white leaving the impact of routine events, many of which are attributable to reliable component problems like failures (i.e., shorts) in distribution lines. Based on this restriction in scope, each party presents a performance standard and incentive mechanisms. Edison and collection in IBEW propose both rewards and penalties while DRA proposes only penalties.

compares the customer's value of service with the cost of equipment and maintenance necessary to meet the service standard. In Edison's ECAC proceedings, we use a reliability measure, the document and maintenance necessary to meet the service standard. In Edison's ECAC proceedings, we use a reliability measure, the document of the calculation of the capacity payment for QF generation, but this measure does not include a customer valuation of reliability. In PG&B's last GRQ proceeding, we recognized the concept of the value of service for generation! We also note the difficulty in measuring this is concept precisely. Estimating the value of service is difficult because it requires a carefully and controlled survey to measure a value which can vary not only with customers but also with the level of reliability and because it requires customer valuation of a relatively infrequent event, the service interruptional sail to onto a standard a value who are a seal to onto a relatively infrequent event, the service interruptional sail to onto a standard a valuation of a relatively infrequent event, the

of service reliability, the value of service should equal or exceed the incentive reward which, in it turn, should equal or exceed the cost of providing the service. If the incentive reward were to exceed the value of service, then the utility would receive more than the customer is willing to 191 pay for the given level of service. On the other hand, for a given level of service, the incentive penalty should equal or exceed the value of service which, in turn, should equal or exceed the cost of providing the service. If the value of service were to exceed the penalty, then the utility would pay less than the value of the service if reliability declined.

For duration, this equals the ratio of the product of one million dollars regalty per minute and morque of your solves for sules a strassary that one continuates and the nearbest of minutes and the nearbest of minutes and the nearbest of minutes and the nearbest of the number of the number of the number of interruptions for this renalty, 183. and the average number of distribution customers per circuit, about 400, or about 14 dollars per customer interruption of 59 interruption of 59 minutes per customer.

7B, Edison, DRA and IBEW all recommend identical penalties and rewards of one million that 2 dollars a minute for both the duration (ACMI) and frequency incentives, ive at status and a solution of non-linear Using historical data; each incentive reward translates to a value of about 15 summer dollars an hours or 30 dollars combined because the two incentives are independental of Giventone the agreement among the representative parties) we accept this value as reasonable, However, 111 as part of its mid-term review, we require Edison to present a value of service study over a range of reliability values using a representative sample survey which controls for customeration to meet the service standard. In Edison's ECAC proceedings, we use a reliability realisations with survivin Before the transition to a distribution PBRs Edison will present revised estimates: of historical duration and frequency performance for the distribution service only if such data ton are available. We will revise the service reliability mechanisms if these revised estimates and odt change our adopted performance standards is a solver to sale visit animatical influence of performance standards is a solver to sale visit animatical influence of the performance standards is a solver of the sale visit animatical influence of the performance standards is a solver of the sale visit animatical influence of the performance standards is a solver of the sale visit animatical influence of the performance standards is a solver of the sale visit animatical influence of the performance of the p call alread exiMoreover, we recognize that these service measures of duration and frequency more will not necessarily measure some problems of deferred maintenance or failure of long-lived lovel circuit components (e.g., if a large share of these components came on line together) and we was order Edison to assemble a database with detail to the distribution circuit level which includes the date of installation for the component (or estimated average if components are grouped like, o the distribution circuit), and for the years of available data; a log with the date of all subsequent in repair, replacement or renewal activity along with the coded nature of the reason for each such me activity. Edison will present a summary description of this database at its mid-term review. 1 1244 penalty should equal or exceed the value of service which, in turn, should equal or exceed the cost of providing the service. If the value of service were to exceed the penalty, then the utility

Por duration, this equals the ratio of the product of one million dollars penalty per minute and the humber of minutes per hour over the number of Edison customers, about 4 million of about 15 dollars per hour. For frequency, this equals the ratio of the one million dollars penalty over the product of the number of interruptions for this penalty, 183, and the average number of distribution customers per circuit, about 400, or about 14 dollars per customer interrupted, which approximately equals 14 dollars per hour given the average interruption of 59 minutes per customer.

P.1.a Service Reliability Duration was no boald with a color of programme ASCI

modium For outage duration of ACMI, Edison proposes a performance standard of 39 others. minutes and DRA of 51 minutes while IBEW proposes 57 minutes in 1995; declining to 49 cullob minutes in 1997 and 48 minutes in 1998 and beyond. All parties recognize the stalistical length site. variability of service quality measures. To acknowledge this variability, all parties include a 'deadband' around the performance standard within which no reward or penalty will apply a 19016 Moreover, all parties recommend a 2 year average for the performance standard to tie the sale mod incentive to longer term trends and to reduce the impact of random Variation. As we stated all [8] parties propose an incentive of one million dollars per ACMI2 oils grown thick with some a WHIII

that b Edison proposes a combined reward and penalty mechanism. Based on its includes standard of 59 minutes of ACMI and 6 minute deadband, Edison proposes a penalty under smilest which Edison will owe one million dollars for each minute ACMI exceeds 65 minutes up to a maximum of 83 minutes which limits the penalty to 18 million dollars. Dedison also proposes a penalty to 18 million dollars. reward under which Edison will receive one million dollars for each minute ACMI declines usldoing below 53 minutes down to a minimum of 35 minutes which limits the reward to 18 million lon line we require Edison to improve its performance but usin want to recognize the year-new surface.

Agaissin a IBBW also proposes a combined reward and penalty mechanisms. Based on its delies standard of 49 minutes in 1997 and a deadband of 6 minutes / IBEW proposes a penalty for 1997 10 under which Edison will owe one million dollars for each minute ACMI exceeds 55 minutes upities. to a maximum of 73 minutes which like Edison's proposal limits the penalty to 18 million we studied dollars. IBBW also proposes an initial year reward under which Edison will receive one million in dollars for each minute ACMI declines below 43 minutes down to a minimum of 25 minutes adopti which limits the reward to 18 million dollars. In 1998 and beyond, IBEW's standard declines to 1.4 48 minutes which means that the penalty starts at 54 minutes and the reward starts at 42

DRA proposes only a penalty. Based on its standard of 51 minutes and a 132 m L. I deadband of 11 minutes. DRA proposes a penalty under which Edison will owe one million dollars for each minute ACMI exceeds 62 minutes up to a maximum of 87 minutes which limits in the penalty to 25 million dollars: solitor HA. Janovod bas 8001 minutes in 1992 and 48 minutes . a shalon We want to encourage continued improvements in service reliability and will idea to a adopt an incentive mechanism which incorporates both rewards and penalties (which is true of sob) both the Edison and IBEW proposals. We tecognize the similarity between the Edison and rossold IBEW proposals. We adopt Edison's initial performance standard and adopt the structure of mount IBEW's incentive which lowers the standard over the duration of the PBR in Specifically, we rolling adopt an initial standard of 59 minutes for 1997 and for subsequent years this standard will standard of 59 minutes of ACMI and 6 minute deadband, Edison propagate againing 2 yd anilode s of an ed We adopt a deadband of 6 minutes and a rolling 2 year average for performance in w measures to accommodate the year-to-year statistical variability which creates a 'small sample' 1600 problem given the relatively few years of the PBRHUsing the 2-year average means that Edison von will not receive rewards or owe penalties until the end of the second year of the PBR# Because 124 we require Edison to improve its performance but again want to recognize the year-to-year 33516b variability in performance, we will not impose any penalty on Edison if it achieves an average of 55 minutes from 1997 through 2001; the 5 years of the PBR; which implies a true-tipt of any are earlier penalties; As stated above, we adopt a reward and penalty of one million dollars per makeur minute with a maximum of 18 million dollars for both incentives of in our mid-term review, we not will examine the interaction between the reliability incentives, particularly this duration BH and lob dollars for each minute ACMI declines below (maintained party and the new type and the minute according to the cash minute act and the method of the cash minute according to the cash minute F.1.b. Reliability: Frequency 1, broyed has 8001 at least limit of branch of branch of the remaind of the remaind of the remaind of the remainder of the remain 11. For outage frequency, Edison proposes a performance standard of 11,300 total nim 81.

interruptions per year while DRA proposes 10,800 and IBEW proposes 10,900. All parties actioning

recognize the statistical variability of service quality measures of to acknowledge this variability, all parties include a 'deadband' around the performance standard within which hid feward of it said penalty will apply of Moreover, all parties recommend a 2 year average for the performance or open standard to tie the incentive to longer term trends and to reduce the impact of random variations. As we stated, all parties propose the same incentive of one million dollars per 183 annual advantable interruptions; and variable the same incentive of one million dollars per 183 annual advantable statistical variable variable of proposes a combined reward and penalty mechanism. Based on its 889 of standard of 11,300 annual interruptions and an 1,100 annual interruption deadband, Edison through proposes a penalty under which Edison will owe one million dollars for each 183 litteruplions which exceed 12,400 up to a maximum of 15,700 annual interruptions which limits the penalty in to 18 million dollars. Edison also proposes a reward under which Edison will receive one of 5.2 C.3 million dollars when interruptions decline below 10,200 up to a minimum of 6,900 annual interruptions which limits the reward to a maximum of 18 million dollars when limits the reward to a maximum of 18 million dollars which limits the reward to a maximum of 18 million dollars which limits the reward to a maximum of 18 million dollars which limits the reward to a maximum of 18 million dollars.

standard of 10,900 annual interruptions and an 1,100 annual interruption deadband, IBBW flid bus proposes a penalty under which Edison will owe one million dollars for each 183 interruptions (the penalty which exceed 12,000 up to a maximum of 15,300 annual interruptions which limits the penalty to 18 million dollars. IBBW also proposes a reward under which Edison will receive one object million dollars when interruptions decline below 9,800 up to a minimum of 6,500 annual 19000000 interruptions which limits the reward to a maximum of 18 million dollars.

a deadband of 2,200 interruptions, DRA proposes a penalty under which Edison will owe one some million dollars for 183 interruptions which exceed 13,000 up to a maximum of:17,600 which limits the penalty to 25 million dollars for doll

frequency as well as duration and will adopt an incentive mechanism which incorporates both

rewards and penalties which is true of both the Edison and IBEW proposals. We recognize that on the Edison and IBEW proposals are identical except for the performance standard with IBBW1 llo proposing 10,900 and Edison proposing 11,300 p. We adopt IBBW's entire proposal with its langer somewhat more aggressive performance standard of 10,900, a Again, we adopt the concept of a sate deadband and a 2-year average for the performance measures to accommodate the year-to-year and statistical variability which creates a 'small sample' problem given the relatively few years of the PBR. Using the 2-year average means that Edison will not receive rewards of owe penalties until the end of the second year of the PBR. As stated above, we adopt a reward and penalty of the one million dollars per 183 interdiptions with a maximum of 18 million dollars for both: seed one million dollars per 183 interdiptions with a maximum of 18 million dollars for both: seed one will do the second year of the penalties are under the standard of the second penalties. Penalties are the standard of the second penalties are the standard of the second penalties of the penalties of the penalties of the penalties of the penalties are the penalties of the penalties of

Internet Edison recognizes that physical reliability represents an important but not the billion only, measure of performance. Customers contact Edison offices for several types of service, using including service connection, meter installation and performance, line problems; tariff options and billing problems. To ensure continued adequate customer service in contacts with its includes offices, Edison proposes an incentive for customer satisfaction bit doidy usbar ythough a corresponding to the contacts.

when equal Edison proposes to use the results of its ongoing customer sprvey program to doidwe measure customer satisfaction. This survey program, initiated in 1992/uses a sample of thin \$1 of customers with recent customer contacts and surveys in five areas: field service and meter notified reading operations; local office operations; telephone center operations; service planning inquironal activities and energy service representative activities. Edison proposes to use the first four areas in its customer satisfaction incentive, across a propose a propose to use the first four

doist# 00 In each of the areas surveyed; Edison asks a variety of questions; including anoilling question which asks the respondent's overall satisfaction with the specific service provided. It eximit Respondents choose among six categories with the top two being (completely satisfied" and

frequency as well as duration and will adopt an incentive mechanism which incorporates both

"delighted." Edjson measures its performance based on the percentage of responses which fall in into the top two categories on the survey question which asks about the degree of overall additional satisfaction. In the baseline survey, 64% of responses rated Edison in the top two categories above using a simple average across the four service areas. Edison proposes to use this baseline of topic response as its performance standard instrumentation of WHII to your suppose ARO

which can improve customer satisfaction. Therefore, specific survey questions and the areas so say surveyed may vary over time? However, Edison pledges that it will not change the six point officer scale or the overall satisfaction question which is the basis for the performance standard; so say de these aspects of the surveys should femain comparable throughout the PBRICL, 1970 9101 A. 100 1001 1001 1001 ATELACU expressed a concern that telephone-based surveys may not adequately the represent low-income customers without telephone service or non-English-speaking customers, 100 Edison responds that it tested its existing survey procedures to determine whether they are biased because some customers lack telephones or speak languages other than English or locations in Spanish, the two languages used in the surveys recogning to smith nature over Willil Las theory to be

proposal to reflect recommendations made by IBEW. Edison envisioned its original service about quality proposal as providing a guarantee to maintain historic levels of performance in Exhibit will 7B. Edison proposes a 64 percent performance standard with a 3 percent deadband and a 5 was odd percent reward and penalty band. This implies a reward from 67 to 72 percent and a penalty is fliw from 61 to 56 percent with the incentive being set at 2 million dollars for each percentage point model allowing a maximum reward or penalty of 10 million dollars, most was the original service and we need allowing a maximum reward or penalty of 10 million dollars, most was to be small bitmatedus a needw

own more IBBW's proposal includes a higher performance standard of 67 percent, and also wor uses a 3 percent deadband and a 5 percent reward and penalty band. IBBW also accepts a xiz out to Edison's incentive of 10 million dollars or 2 million dollars for each percentage point.

However, IBEW, proposes an area specifio penalty for each of the four separate service areas a sint

which Edison surveys which would penalize Edison by 2 million dollars for each percentage itship point that the performance measure fell below 61 percent in any area IBBW maintains the ship on overall maximum penalty of 10 million dollars across both the combined and individual service area performance it say of assorbing marklet. As any point is next additional against a significant mixtures are performance in the combined and individual service.

DRA accepts many of IBEW's recommendations. DRA proposes a performance of standard of 64 percent like Edison and a deadband of 3 percent with its penalty starting at 60 percent. DRA proposes a graduated penalty, increasing from one million dollars at 60 percent, 544 million at 59 percent, 10 million at 58 percent, 15 million dollars at 57 percent and 20 million at 95 percent. DRA also proposes an area specific penalty if the performance falls below 55 to 21622 percent. Moreover, DRA expresses concern about relying exclusively on Edison's customer 220ft satisfaction survey as the only measure of customer satisfaction, and DRA also holes that Edison controls the survey instrument and its use which concerns us the strengton 2000 and 2000 instrument and its use which concerns us the strengton 2000 and 2000 instrument and its use which concerns us the strengton 2000 and 2000 instrument.

identical except for the performance standard with Edison recommending the historic standard side of 64 percent and IBEW recommending an increased standard of 67 percent. We received no mark testimony which indicated the measures which Edison would need to undertake to raise the standard. Moreover, we are concerned that this standard is entirely subjective with responses with the nature of up the service contact. Therefore, we will adopt the historic performance standard. However, we' all will adopt IBEW's proposal for a penalty in each service area because we want Edison to offer upon comparable service in all areass. Moreover, we are concerned about Edison receiving a feward more when a substantial share of its customers express some dissatisfaction and we will make any wolfs reward conditional on no more than 10 percent of customer responses being in the bottom two of the six categories. To the the service of a breathead the property of the service of the breathead of the bottom two

this survey and we order Edison to include with its compliance filing a plan to use all obliside small

standard consists of a ratio index of the total number of accidents and illnesses per 200,000 'color hours worked or per 100 employees to Edison proposes an index standard of 13.5; based on the will most recent 10 years of data while IBEW proposes an index standard of 13.0 based on the most on recent 7 years of data. IBEW proposes a deadband of 0.3 and Edison a deadband of 0.8.10014.

index value with a penalty incentive of \$55 thousand dollars for each 0.1 increase in the stonegnon performance index, and IBEW also proposes a reward which applies to the range from 11.8 to 12.7 using its same incentive, a Edison recommends a penalty which applies to the range from \$14.3 to 16.7 in the index value with a penalty incentive of 208 thousand dollars for each 0.1 increase in the performance index, and Edison also proposes a reward which applies to the range section of the range section 10.3 to 12.7 using its same incentive.

illness frequency rate benchmark best reflects our commitment to the maintenance of health and meaning safety standards! However, we note that this index does not weigh accidents by the severity of their impact (e.g., in terms of lost workdays) and that disputes may arise in deciding whether to midual attribute the cause of an illness to the workplace. We order Edison to review these issues in its modernic terms of workdays, as a new form to review the real standards which has relatively few rules. Moreover, we recognize that the PRE, as a new forms well attribute the cause of mean and that the recognize that the residual standards which has relatively few rules.

F.4 National Bill Comparison Mechanism sti to signes evitatiosorger a militico et mility yvius moit and its comments filed in response to D,95-12-063 our Electric Restructuring to bim Policy Decision, Edison withdrew this proposed mechanism from consideration as part of a doids. distribution PBR/ Given the overall rate cap adopted as part of that Decision, we will not adopt w a national bill comparison mechanism in this Decision. We note that such a mechanism should 1 compare the rates of Edison's distribution business with other distribution businesses offering a 3 similar scope of services but few such electric distribution businesses offer separate rates in today's markel. We anticipate that electric restructuring in other states will create more separate is distribution businesses but the nature and scope of the services offered by such businesses is emoul most recent 10 years of data white IBEW proposes an index standard of 13.0 beed anvonding you G. Monitoring and Reporting (bit bus 6.0 to beedbook a recognity William steb to recognity the step to recogni editing \$.54 (In this Section, we describe monitoring and reporting requirements for Edison's nongeneration and distribution PBRs. 21 For Edison, a rate base PBR is a new form of regulation: 11 of 2.11 mcWhen we substantially change the form of regulation/we must carefully assess its q the impact on both ratepayers and the utility, a To assess the impact requires clear and it waster [13] measurable objectives!! We have adopted a PBR which has clear standards in both rate and of 8.14 service incentive mechanisms. For rate performance, we have adopted an update rule of CPI-X-ni and progressive net revenue sharing. For service performance, we have adopted two directly most measures of service reliability and a measure of customer satisfaction. We have adopted the standards in these incentive mechanisms after an assessment of their prospective impactional would To there as We will not adopt other rate or service performance standards which have all this direct financial incentive because we intend to initiate the PBR with complete and 2.0) longitti libilit comprehensive performance standards. However, we recognize that we have adopted a PBR edicition

which has relatively few rules. Moreover, we recognize that the PBR, as a new form of a missibini

regulation, will affect many aspects of the utility's operation which the PBR does not directly, vor measure and could gefierate unintended consequences; as well, which impact both the utility and ratepayers; polishing restrict the utility and restrict the utility and ratepayers; polishing restrict the utility and restrict the utility and ratepayers; polishing restrict the utility and restrict the util

We order Edison to convene a working group process, which will assess the need a for any additional standards for evaluation. We are not requesting that this working group nibinity develop new incentive niechanisms. We suggest that this group focus initially on at least these at two issuess from the customer's perspective whether the reliability and customer incentives are not sufficiently comprehensive and protective (e.g., does the Commission need area-specific reports on the duration and frequency of outages) and from both the utility's and the customer's, A nO .2 perspective under what circumstances could conflict arise among the PBR incentive intensible tand mechanisms. We ask the working group to report back to us by mid-1997; Later after the novibil utilities have filed their unbundling proposals in electric restructuring, we ask this working group to a comprehensive unit cost accounting system which could in a identify distribution services which Edison can eventually unbundle and which could track costs; from inputs to outputs 251 children to see an eventually unbundle and which could track costs;

We order Edison to submit an annual report which is similar to the report filed by, SDG&B in its compliance with D.94-08-023 and entitled "Compliance with D.94-08-023 SDG&B's Performance Based Rafemaking (PBR) Base Rate Mechanism", dated May 15, 1996, In its compliance Advice Letter filing, Edison shall explain why it should not submit the reports required of SDG&E as part of D.94108-023, sates assisted and to notify on the military and satisfication.

H. Implementation

We order Edisofi to make a compliance Advice Letter filing no later than 30 days? of the effective date of this decision. The Advice Letter shall incorporate the following provisions. The PBR shall be effective on January 1, 1997. Edison will file an interim report on March 1, 1999. Edison shall submit the reports described in this decision as part of the midterm

review with this interim report of the Commission will review the report and perform a midterny a evaluation of the operation of the PBR between March and December 1999, and will issue a committee midtern decision by December 1999. The midtern decision will set further guidelines for applied remaining evaluation and reporting quong guidance and perform a midtern decision will set further guidelines for applied remaining evaluation and reporting quong guidance approximation of the perform a midterny and perform a midterny a midterny and perform a midterny a midterny and perform a midterny an

Findings of Fact ow additional translateds for evaluation. We are not requesting that this weither 40 zgnisof and acceptance of propositions of the proposition of th

3. PBR, if properly designed, would be more compatible, with competitive energy markets than 13 traditional regulation, would assist utilities in making the transition to competition, would dimedia provide strong incentives for cost reductions, and promises to simplify regulation and reduce (10) administrative burdens, limit via decide 100 are females as simplify regulation and reduce (10).

4. On July 12] 1994, 'Assigned Commissioner Fessler issued a Ruling that bifurcated the hearings of Edison's PBR'Application into two phases to address the uncertainty associated with the stiff of Commission's ultimate disposition of the issues raised in the Blue Book, quality associated with the HI. Implementation

5. On August 8, 1994, Edison filed its Phase I Nongeneration PBR proposals of W

of the effective date of this decision. The Advice Letter shall incorporate the following provisions. The PBR shall be effective on January I, 1997. Edison will file an interim report on March 1, 1999. Edison shall submit the reports described in this decision as part of the midtern.

- 6. To encourage efficiency, effective PBR regulation breaks the feedback link from costs to A .E1 rates and includes an incentive for the utility to reduce costs.
- 7. Effective PBR regulation must include appropriate standards for service and safety and fall of the service and safety and fall of the service and safety and fall of the service and safety and saf
- 8. In D.89-10-031, we adopted a form of PBR regulation, first used in the United Kingdom, and often called 'CPI; X' regulation, where CPI updates rate for the effect of inflation and X OHII 31 updates rates for the effect of productivity.
- 9. In D.89-10-031, we also adopted a net revenue sharing rule which allows the utility to keep! .01 some of the increased net revenue which occurs if the utility can reduce its costs. Adoption of this rule should increase the utility's incentive to reduce costs. PBR enfulates the competitive VI process to encourage, utility management to make decisions which resemble an efficient of 0.12 to competitive outcome.
- 10. FERC and NARUC guidelines provide criteria with which we can separate ratebase between 81 generation and nongeneration at this said this said the control of the contro
- 11. Transmission and distribution operation and maintenance expenses belong to nongeneration.
- 19. In I) his objective in 1994, the CPI-X update attended to appropriate in 1997. In I) his on the CPI-X update attended to appropriate the CPI-X update attended to appropriate the CPI-X update attended to apply the CPI-X upd

- 13. Administrative and general functions provide support for labor activity throughout the as of the utility.
- 14. In Edison's 1995 GRG, RD&D was allocated 47 percent to nongeneration and 33 percent lo seneration.
- 8. In D.89-10-031, we adopted a form of PBR regulation, first used in the United Kingdoin, and offen called Commission Decisions allocate franchists fees to no free effect of productivity.

 15. FERC and Commission Decision allocate franchists fees to no free effect of productivity.
- 16. Upcollectibles vaiy with total tevehue and therefore with total other expenses 10-01-08. In 1.0 noityobA. Also all authorized level of base rate revenue requirement associated with SONOS 2001 of \$4,017 million and we removed the base rate revenue requirement associated with SONOS 2001 of \$4,017 million and we removed the base rate revenue requirement associated with SONOS 2001 of \$4,017 million and we removed the base rate revenue requirement associated with SONOS 2001 of \$4,017 million and we removed the base rate revenue requirement associated with SONOS 2001 of \$4,017 million and we removed the base rate revenue requirement associated with SONOS 2001 of \$4,017 million and we removed the base rate revenue requirement associated with SONOS 2001 of \$4,017 million and we removed the base rate revenue requirement associated with SONOS 2001 of \$4,017 million and we removed the base rate revenue requirement associated with SONOS 2001 of \$4,017 million and we removed the base rate revenue requirement associated with SONOS 2001 of \$4,017 million and we removed the base rate revenue requirement associated with SONOS 2001 of \$4,017 million and we removed the base rate revenue requirement associated with SONOS 2001 of \$4,017 million and we removed the base rate revenue requirement associated with SONOS 2001 of \$4,017 million and \$4,017 million a
- 18. To adopt a rate PBR for nongeneration requires determining separate rates for nongeneration ()] and generation base rate revenue requirement. To accomplish this requires separating all (oils) (all existing rates and charges which recover base revenue requirement into rates and charges that separately recover generation and nongeneration base revenue requirement (b) fine noise intensity. It
- 19. In D.96-01-011; we required Edison to file an Application if it requested air adjustment for 19.51 inflation, in We, will treat Edison's PBR Application as an application for this purpose and will 21200 allow Edison to apply the CPI-X update rule effective January 1/1997, for nongeneration rates of the effective in 1997.

20. In Order 888, FERC established seven criteria for the functional separation of transmission? and distribution components and, therefore, ratebase. In its FERC filing made on April 29, with Edison requested that FERC declare transmission facilities as those carrying voltages 230kV or higher. FERC's approval of the supporting ratebase and revenue requirement must also occur. 72 well before January 1, 1998, to allow Edison, PG&B and SDG&B to complete their distribution a PBR filings here. FERC's approval of the ratebase and revenue requirement for transmission will help us make a final determination of the initial value of the distribution ratebase and 1 nl. 82 revenue requirement for each utility. A shail band A sledgeb a ni sgnade out blind yet yellow the last 12 months.

21. Over the past decade the CPI has tracked the Wholesale Price Index.

29. Edison requests that we allow it complete flexibility to change its capital structure.

20. Use of the CPI provides a general and usually much less controversal choice as proxy for a solution proposes a not revenue sharing mechanism based on total system testing the full around a beaution of the total return on reteless.

23. Edison's study of total factor productivity for its entire (generation and nongeneration) in difference system presented in its 1995. Test Year General Rate Case, verified by DRA through its own independent analysis, reported a value of 1.4 percent while Edison's study of total factor productivity for its nongeneration business presented in Edison's revised PBR Application in 1.18. August, 1994, reported a value of 0.9 percent.

32. For system interruptions, Edison proposes 11,300 interruptions, IBEW 10,900 and DRA 10, bluodystotyal-Z belledal ew holdware that unexpected events, which we labelled 1-20. It is a belief to change in the utilities' costs, some of which we would want included in the universe that the customer satisfication survey, then bluow ew holdware of which we would survey the bunder of the customer satisfication survey, then bluow ew holdware of which we would not survey.

25. In D.94.06-011; we adopted nine criteria to assess whether a Z-factor occurred and 101 3.8.

26. The ERAM balancing account allows the utility to recover its ALBRR'despite sales on On 20. In On 38 1986 and on a components and, therefore, ratebase in its HERC filling made on proposed that HERC is the treasmission feelings as those conving contract that HERC is the treasmission of a contract and the proposed that HERC is the treasmission of the initial proposed to replace participation in the annual Coşt of Capital proceeding with an fight automatic cost of capital !Trigger Méchainsm's Different fillings to allow the initial proposed the results of the contract of the treasmission of the results of the contract of the contract of the treasmission of the last 12 months' index value has changed by at least 100 basis points.

21. Over the past decade the CPI has marked the Wholesale Price Index.

- 29. Edison requests that we allow it complete flexibility to change its capital structure.
- 22. Use of the CPI provides a general and usually much less control ersial choice as proxy for a utility's impresumers make later no based maintained and an entities are second on the later and an entities are second on the later and an entitle of the second of the later and shareholders received and shareholders received and shareholders are later and later are later and later are later are later and later are later and later are later are later and later are later ar
- 31. For outage duration of ACMI, the historical performance is 59 minutes for the past 10 years and August, 1994, reported a value of 0.9 percent
- 32. For system interruptions, Edison proposes 11,300 interruptions, IBEW 10,900 and DRA
 24. In D.89-10 031, we recognized that unexpected events, which was included in the utilities' costs, some of which we would want included in the utilities'.
 33. For the customer satisfaction survey, the historical pelformance is 4 percentages in the customer satisfaction.
- 34. For the health and safety index, the historical performance is 13.0 for 7 years and 13.50 for .20 10 years.

Conclusions of Lawwer noith renegation no board of bluods arsimal some gaineds current rate of the old I. A rate PBR does not require a sales (orecast because a rate PBR simply updates current rates one with CPI-X to determine future rates, which eliminates the controyersy of sales forecasts or norganization accounts such as ERAMs noithern that IA. Inoithern position that between asset base in the controyers of the old of the

- 2. The CPI should be used as the price index for the nongeneration and distribution PBRs? To tilds of mosons of which means the mosons of the price index for the nongeneration and distribution PBRs? To tild the control of the contr
- 3. We adopt a productivity measure which starts with a value of 1.2 and indeases by 0.2 percentage a year for the next two years. Thus, we order productivity or X values of 1.2 for 1997; 1.4 for 70 2i 1998, and 1.6 for 1999 through 2001. These values will apply to both the nongeneration PBR and its successor, the distribution PBR at bloods mixing down gained a successor are related bloods than RBP and to notion be at row and glivitual or any contract of the strength of the
- 4. We will maintain the nine Z-factor criteria developed in D.94-06-011. We'will adoptable developed in D.94-06-011. We'will adoptable developed in D.94-06-011.

10. The PBR should encourage continued improvements in straight part of the properties of the PBR should recover only the difference between recorded and authorized odd maintained nongeneration base revenue requirement attributable to DSM.

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6. The Trigger mechanism should be used to update the authorized return on equity for the mulaned purpose of updating the net revenue sharing benchmark and for revenue requirement recovery.

Order

7. Edison's request for unlimited flexibility in its capital structure exposes ratepayer to possible undesirable financial risk.

A. Edison shall file an Advice Letter no later than 30 days following the effective day of this decision which shall include the following provisions:

- Concluding bur source production on besed ad bluode maintaining part of the productivity of the production of the production of the productivity of the production of the production of the productivity of the production of the productivity of the productivity of the production of the production of the productivity of the production of the prod
- 9. Our progressive net revenue sharing mechanism should reveal achievable and permanent of the productivity gains over the duration of the PBR and should balance the interests of the ratepayer, shareholder and deductible of ten million dollars.
- 10. The PBR should encourage continued improvements in service reliability and an incentive

 5. The ERABE should recover endy the dissillation and penaltician between the end of the ERABE and penaltician attributed attri
- 11. IBEW's proposed standard with its slightly lower injury and illness frequency rate benchmark best reflects our commitment to the maintenance of health and safety standards: Total of the propose of updating the net revenue sharing the alternational guitable and for revenue requirements of the Order
- 7. Edison's request for unlimited flexibility in its capital structure exposes rategrayer to possible undesirable financial risk.

 TAHT GARAGNO II TI
- A. Edison shall file an Advice Letter no later than 30 days following the effective day of this decision which shall include the following provisions:

- 1. Edison'shall separate its generation and nongeneration base rate revenue requirements by all . Sallocating: 1000 discould 0001 mi 0.1 (8001 mi 0.
- b) Customer accounts to nongeneralion; in our no bosed streamers rousely. Set our floris no shall use the Z-fector standards based on the contract of the cont
- c) CS&I costs to generation except economic development costs to nongeneration; his bits, 110 80
- d) Administrative and general to generation and nongeneration using a labor allocation, attoropos
- e) RD&D 47 percent to nongeneration and 53 percent to generation;
- O Uncollectibles to generation and florigeneration based of total other expenses will list movibil .0
- g) Propeny and sutherized nongeneration base reventant plant of his base based on net plant over the plant of the based on net plant over the based on the t
- 2. Edison shall separate its generation and nongeneration ALBRR after making all adjustments which we have offered since Edison filed its PBR Application ulani but quieve the exposition and test to adjust for the conservation in a certain conservation in the conserv
- 3. Edison shall separate all existing rates and charges which recover base revenue requirement or on the rates and charges that separately recover generation and nongeneration base revenue requirements which continue to use ERAM and apply ERABE for all other accounts which remains use it, and include a mechanism for a surcharge, applicable to the bills of all
- 4. Edison shall apply the CPI-X update rule effective January 1, 1997, for nongeneration rates of a effective in 1997.

12. Edison shall exclude from the scope of this nongeneration PBR all generation related revenue requirements consistent with or, alin' shahqu' X-IQD a'dilw' ABQ shiq' a' shill lada hosibB c.c revenue requirements adopted above. Edison shall exclude the amounts in special one-time

6. Edison shall use the CPI as the measure of inflation in the update rule for both its: noinxinonia nongeneration and distribution PBRs.

- 7. Edison shall use the following values for productivity or X in the update rule for both its. Ed. 1 generation and distribution PBRs: 1.2 in 1997; 1.4 in 1998; 1.6 in 1999 through 2001. Equipment (a inclinate small of the Ed. Conciled at the bas no issume and the Ed. Conciled at the
- 8. Edison shall use the Z-factor standards based on the nine Z-factor criteria developed in D.947d 06-011 and a threshold and deductible of ten million dollars. Edison shall use a process for 30 (0 accounting assessing and adjudicating a Z-factor claim which is consistent with D.94-06-0114 (b) RD&D 47 percent to nongeneration and 33 retects to generation:
- 9. Edison shall limit the scope of the ERABF to recover only the difference between the allocal (a recorded and authorized nongeneration base revenue requirement due to the adopted D\$M 1004 (a adjustment mechanism.
- 2. Edison shall separate its generation and nongeneration Al BRR after molting all adjustments on the Rose that we will see the first most current ex-post measurement effects to adjust for the conservation impact of DSM programs on nongeneration base rate revenue requirementates grateful associated by a conservation base condition and congeneration base condition and congeneration base condition and congeneration base condition and congeneration base condition base condition base condition base condition base condition and congeneration base condition and congeneration base condition and congeneration base condition and congeneration base conditions and conditions are considered to the constraint and conditions are conditions are conditions and conditions are conditions are conditions and conditions are conditionally and conditions are conditionally are c
- 11. Edison shall continue to use ERAM and apply ERABF for all other accounts which contained currently use it, and include a mechanism for a surcharge, applicable to the bills of all ratepayers, to recover the revenue requirements for these accounts X-190 and yields the line of the effective in 1997.
- 12. Edison shall exclude from the scope of this nongeneration PBR all generation related revenue requirements consistent with our guidelines for the definition of nongeneration base rates revenue requirements adopted above. Edison shall exclude the amounts in special one-time amortization accounts and distribution PBRs.

13. Edison shall retain the current one way balancing account treatment for BD&D, and DSM anni accounts which allows also reduction in spending to flow only to ratepayers and Edison shall, not apply the update rule of CPI-X to the revenue requirement for these accounts, also by transmitted that the update rule of CPI-X to the revenue requirement for these accounts, also by transmitted that the update rule of CPI-X to the revenue requirement for these accounts, also by transmitted that the update rule of CPI-X to the revenue requirement for these accounts, also be also be also be able to be a constant of the revenue requirement for these accounts, also be also also be able to the able to be a constant of the revenue requirement for these accounts, also be a constant of the revenue and the able to be a constant of the revenue and the count in accord with P.U. Code and the sould be a constant of the revenue and Edison will submit a report which will the describe the availability of catastrophic event, and Edison will submit a report which will the describe the availability of catastrophic event insurance.

20. In its service reliability standard for ACMI, I dison shall use an initial standard of 59 in all the standard of Security of papiers and policy of papiers of security of an average of setting legislaum with a notation of the minute of security of one million dollars with a maximum at 18 million dollars with a maximum and penalty of one million dollars with a maximum at 18 million dollars with a maximum at 18 million dollars.

17. Edison shall use its Trigger mechanism to update the authorized return on equity for the purpose of updaling the net revenule sharing benchmark and for tevenue requirement recovery. 12 bis not a sea that no sibil sograves no yet smiller a bre 001. I to be abase a disward quity and 18. Edison shall limit its capital flexibility for debt and equity to within 5 percentage points, brestom that adopted in the 1997 Cost of Capital proceeding, adjusted for the share of total ratebase which is allocated to nongeneration as of January 1719972 no sibil no itself its remoteration of 19. Edison shall use a new feether sharing mechanism based on nongeneration revenues and shall use a new feether sharing mechanism based on nongeneration fevenues and shall use the same scope of revenues and costs as the PBR itself, a Edison of shall use the authorized equity return on ratebase to define the benchmark. Shareholders shall yet receive all the gains and losses up to 50 basis points around the benchmark, which we call the decive all the gains and losses up to 50 basis points around the benchmark, which we call the decive all the gains and losses up to 50 basis points around the benchmark, which we call the decive all the gains and losses up to 50 basis points around the benchmark.

inner band. Between 50 and 300 basis points the shareholder share of gains or losses shall rise; continuously frold 25 through 100 percent while the ratepayer share shall correspondingly and the continuously decline from 75 to 0 percent. We call this band in which sharing occurs, then ylogo middle band. The shareholders shall receive all gains 300 basis points above the benchmark and remain responsible for all losses below 300 basis points from the benchmark, and we call this the band the outer band. We will allow Edison to apply for re-consideration of the net revenue simile sharing and the PBR program if its earned return falls more than 600 basis points below the benchmark and remain and reduite Edison to apply if its earned return rises above 600 basis points above at the benchmark and receive the availability of catastrophic event insurance.

20. In its service reliability standard for ACMI, Edison shall use an initial standard of 59 minutes in 1997 declining by 2 minutes for each subsequent year, shall use a deadband of 6 1 31 minutes and shall use a rolling 2 year average. Edison shall not receive a penalty if it achieves an average of 55 minutes from 1997 through 2001, the 5 years of the PBR. Edison shall use a reward and penalty of one million dollars per minute with a maximum of 18 million dollars.

21. In its service reliability standard for frequency, Edison shall use a standard of 10,900 sequent interruptions with a deadband of 1,100 and a rolling 2-year average. Edison shall use a reward and penalty of one million dollars per 183 interruptions with a maximum of 18 million dollars at section than to arrive and the original to a reliable to the historic performance standard of 64 percentage of a deadband of 3 percent and use a reward and penalty of 2 million dollars for each percentage of point with a maximum of 10 million dellars, and shall apply a penalty, in each service area. Hind because we want Edison to offer comparable service in all areas. Edison shall not receive Albout reward if the percent of customers in the bottom two categories exceeds 10 percent. Edison that uses that like an outside survey firm to confirm a representative sample of its sustomer responses.

A.93-12-029, I.94-04-003 COM/DWF/HMD

23. For employee health and safety, Edison shall use a penalty which applies to the range from 13.3 to 14.2 in the index value with a penalty incentive of 555 thousand dollars for each 0.1 increase in the performance index and a reward which applies to the range from 11.8 to 12.7 using the same incentive.

This order is effective today.

Dated September 20, 1996, at San Francisco, California.

P. GREGORY CONLON
President
DANIEL Wm. FESSLER
JESSIE J. KNIGHT, JR.
HENRY M. DUQUE
JOSIAH L. NEEPER
Commissioners

We will file a joint concurring opinion.

Is P. GREGORY CONLON President

/s/ JESSIE J. KNIGHT, JR.
Commissioner

A.93-12-029 D.96-09-092

COMMISSIONERS JESSIE J. KNIGHT AND P. GREGORY CONLON, CONCURRING:

Although we are supporting this alternate decision, we both would have a preferred a Performance Based Ratemaking (PBR) mechanism that would have imposed a significantly higher annual productivity factor upon the company, probably in the range of 2% per year.

In our minds, the productivity factors of 1.2% to 1.6% adopted in this decision represent a continuation of business as usual. They are not sufficient to bring about a paradigm shift in how the company behaves and acts. The adopted productivity factor is not sufficient in forcing the company to make fundamental changes in corporate culture and strategy as it emerges into the new competitive environment.

In exchange for the higher productivity, we would have considered giving the company a wider band on the earnings or losses that they would be responsible for achieving.

In our minds, some of these issues can be revisited when we have the mid-course review of the PBR mechanism 2 1/2 years from now. For that reason, we both support this item.

San Francisco, California September 27, 1996

/s/ Jessie J. Knight
JESSIE J. KNIGHT,
Commissioner

/s/ P. Gregory Conlon
P. GREGORY CONLON,
President

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San Francisco, California

September 27, 1996

ESSYE JX KNIGHT

Commissioner

P. GREGORY CONLON,

President