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April 26, 2013

Mr. David E. Danner
Executive Director and Commission Secretary
Washington Utilities and Transportation Commission, P.O. Box 47250

1300 S. Evergreen Park Drive, S.W.
Olympia, Washington 98504-7250

Re: Docket No. UE-130137/UG-130138 and UE-121697/UG-121705

Dear Mr. Danner:

Enclosed please find two originals and one (1) copy each of the PREFILED RESPONSE TESTIMONY OF KEVIN C. HIGGINS on behalf of THE KROGER CO. for filing in the above-referenced matters. I also include an additional sixteen (16) copies for internal distribution at the Commission. Please note that we also efiled the above in both dockets on same date.

By copy of this letter, all parties listed on the Certificate of Service have been electronically served. Please place this document of file.


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Enclosures
cc: Certificate of Service

EXHIBIT NO. (KCH-1T)
DOCKET NO. UE-130137/UG-130138
\& UE-121697/UG-121705

2013 PSE EXPEDITED RATE FILINGS \& DECOUPLING PROPOSALS WITNESS: KEVIN C. HIGGINS

BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,
v.

PUGET SOUND ENERGY, INC.,
Docket No. UE-130137
Docket No. UG-130138
Docket No. UE-121697
Docket No. UG-121705
Respondent.

PREFILED RESPONSE TESTIMONY OF
KEVIN C. HIGGINS
ON BEHALF OF THE KROGER CO.
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Revenue Decoupling 7

## RESPONSE TESTIMONY OF KEVIN C. HIGGINS

## Introduction

Q. Please state your name and business address.
A. Kevin C. Higgins, 215 South State Street, Suite 200, Salt Lake City, Utah, 84111.
Q. By whom are you employed and in what capacity?
A. I am a Principal in the firm of Energy Strategies, LLC. Energy Strategies is a private consulting firm specializing in economic and policy analysis applicable to energy production, transportation, and consumption.
Q. On whose behalf are you testifying in the electric portion of the Expedited Rate Filing ("ERF") proceeding, UE-130137, and the electric portion of the decoupling proceeding, UE-121697?
A. My testimony is being sponsored by The Kroger Co. ("Kroger") on behalf of its Fred Meyer Stores and Quality Food Centers divisions. Kroger is one of the largest retail grocers in the United States, and operates approximately 120 facilities in the state of Washington, approximately 65 of which are located in the territory served by Puget Sound Energy ("PSE"). These facilities purchase more than 145 million kWh annually from PSE, and are served on Electric Rate Schedules $24,25,26$, and 40 .

I am simultaneously filing testimony in the gas portion of ERF proceeding, UG-130138, and the gas portion of the decoupling proceeding, UG-

121705 on behalf of Nucor Steel Seattle Inc. ("Nucor"). ${ }^{1}$ My testimony filed on behalf of Nucor is entirely consistent with the testimony I am presenting here on behalf of Kroger, but focuses on gas-related aspects of these cases.

## Q. Please describe your professional experience and qualifications.

My academic background is in economics, and I have completed all coursework and field examinations toward the Ph.D. in Economics at the University of Utah. In addition, I have served on the adjunct faculties of both the University of Utah and Westminster College, where I taught undergraduate and graduate courses in economics. I joined Energy Strategies in 1995, where I assist private and public sector clients in the areas of energy-related economic and policy analysis, including evaluation of electric and gas utility rate matters.

Prior to joining Energy Strategies, I held policy positions in state and local government. From 1983 to 1990, I was economist, then assistant director, for the Utah Energy Office, where I helped develop and implement state energy policy. From 1991 to 1994, I was chief of staff to the chairman of the Salt Lake County Commission, where I was responsible for development and implementation of a broad spectrum of public policy at the local government level.

## Q. Have you previously testified before this Commission?

A.

Yes. I testified in the PSE 2011, 2009, 2007, 2006, 2004, and 2001 general rate cases and participated in the settlement discussions that resulted in partial settlement agreements pertaining to rate spread and rate design issues in those proceedings. I also testified in the 2009 proceeding that addressed the treatment of revenues from PSE's sales of Renewable Energy Credits ("RECs").

[^0]Q. Have you testified before utility regulatory commissions in other states?

A. Yes. I have testified in approximately 165 proceedings on the subjects of utility rates and regulatory policy before state utility regulators in Alaska, Arizona, Arkansas, Colorado, Georgia, Idaho, Illinois, Indiana, Kansas, Kentucky, Michigan, Minnesota, Missouri, Montana, Nevada, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, South Carolina, Texas, Utah, Virginia, West Virginia, and Wyoming.

## Overview and Recommendations

## Q. What is the purpose of your testimony in this proceeding?

A. My testimony responds to the Expedited Rate Filing ("ERF") made by PSE on February 1, 2013 in Dockets UE-130137 and UG-130138, and to the Amended Decoupling Petition filed by PSE and the NW Energy Coalition ("Joint Parties") on March 1, 2013 in Dockets UE-121697 and UG-121705. My understanding is that both of these filings are being supported by the three parties to the Multiparty Settlement Agreement filed with the Commission on March 22, 2013. Consequently, my testimony is also responding to that Agreement.

## Q. Please summarize your conclusions and recommendations.

(1) Kroger neither supports nor opposes the revenue requirement provisions proposed by PSE in the ERF, except as it is necessary to modify the return on equity ("ROE") applicable to electric and gas delivery rate base as part of any adoption of full revenue decoupling in these proceedings.
(2) PSE's proposed electric rate spread approach in the ERF is reasonable and I recommend that it be adopted if the ERF is approved.
(3) The K-factors proposed by the Joint Parties in the decoupling proceeding would introduce an automatic, predetermined cost escalator into rates. The proposed K -factor rate increases are not known and measurable adjustments presented in the context of a rate proceeding. Rather they are arbitrary and unsubstantiated rate increases that should be rejected by the Commission.
(4) I recommend that the entire revenue decoupling package proposed by the Joint Parties be rejected. Failing that, I recommend that the proposal be modified in several important ways. If full revenue decoupling is approved by the Commission, the proposal by the Joint Parties should be modified as follows:
(a) The ROE applicable to electric and gas delivery rate base should be reduced by 25 basis points in the ERF to reflect the reduction in PSE's risk. This adjustment would reduce the ERF electric revenue requirement by approximately $\$ 5.1$ million and the ERF gas revenue requirement by approximately $\$ 3.1$ million.
(b) The decoupling mechanism proposed by the Joint Parties should be modified to incorporate any found margin associated with growth in customer count as a credit against the proposed RDA balancing account.
(c) Customers with billings demands of greater than 350 kW (e.g., Rate Schedules 26, 31, and 40) should be excluded from the decoupling mechanism. At a minimum, before subjecting these customers to revenue
decoupling, PSE should be required to investigate means through which its potential loss of fixed-cost recovery can be mitigated through rate design, including increasing its demand charges for delivery service to better align with the recovery of fixed costs.
(d) If the customer groups identified in 4(c) above are not excluded from the decoupling mechanism, then the mechanism should be modified such that a reasonable portion (e.g. 50\%) of the demand-billed delivery revenues are excluded from the revenue decoupling adjustment (i.e., are treated as unvarying with kWh variations), similar to the treatment employed in Arizona, as discussed in my testimony.
(e) Schedule 139 should be redesigned as a demand charge for demand-billed customers. Failure to properly design Schedule 139 as a demand charge will result in shifting of cost responsibility among demand-billed customers.

## Expedited Rate Filing - Dockets UE-130137 and UG-130138

## Q. What is PSE seeking as part of its ERF?

A. As explained in the direct testimony of PSE witness Katherine J. Barnard, PSE is seeking approval of an ERF that would increase electric rates by $\$ 32.2$ million, or 1.6 percent on average, ${ }^{2}$ and reduce natural gas rates by $\$ 1.2$ million, 0.1 percent on average (inclusive of gas costs). ${ }^{3}$

[^1]Power costs and property tax-related costs are excluded from the calculation of the electric revenue deficiency because the former already has a separate recovery mechanism and the latter is proposed to have a separate tracker in this case. The template for determining the revenue deficiency is the Commission Basis Report ("CBR") filed by the Company, with certain modifications. Chief among the modifications is PSE's proposed use of end-ofperiod rate base rather than average-of-period rate base.

## Q. What is Kroger's position with respect to PSE's proposed ERF revenue requirement?


#### Abstract

A. Kroger neither supports nor opposes the core revenue requirement proposal associated with the ERF. As I understand PSE's proposal, the ERF is proposed to be a "one-time event" rather than an annual occurrence. Given the relatively modest size of the proposed ERF rate increase, Kroger has elected to focus its efforts on the Company's decoupling proposal, along with its appurtenant features, which have longer-term implications for customer rates and ratemaking policy than the ERF.

\section*{Q. Does this mean that your testimony has no implications for the ERF revenue requirement?}


A.

No. If full revenue decoupling is approved, I am recommending an adjustment to PSE's allowed return on equity ("ROE"), which has implications for the ERF revenue requirement. As I explain later in my testimony, I am recommending that the Commission reject PSE's decoupling proposal. If this
recommendation is accepted, then my testimony would have no impact on PSE's proposed ERF revenue requirement.
Q. How does PSE propose to spread its proposed ERF electric rate increase across customer classes?
A.

As explained by PSE witness Jon A. Piliaris, PSE based its proposed rate spread on the results of the cost of service model submitted with its compliance filing in UE-111048. These results were adjusted by removing the allocated costs related to the Power Cost Adjustment mechanism and property taxes. PSE's proposed rate spread assigns each customer class its share of the ERF-related costs, with the exception of two classes that would have exceeded the 3.0 percent limit in WAC 480-07-505 applicable to an expedited rate filing. The rate increase for these two classes was capped at 2.9 percent, with the shortfall of approximately $\$ 262,000$ being absorbed by PSE.
Q. What is your assessment of PSE's proposed approach to rate spread?
A. In my opinion, the Company's rate spread approach is reasonable and I recommend that it be adopted if the ERF is approved.

## Revenue Decoupling - Dockets UE-121697 and UG-121705

## Q. What have PSE and the NW Energy Coalition proposed with respect to revenue decoupling?

A. As discussed in the supplemental direct testimony of Mr. Piliaris, the Joint Parties have put forth a rate plan and a pair of electric and gas decoupling proposals. The rate plan is a series of predetermined annual rate increases
implemented through a metric that PSE calls the "K-factor." The proposed rate plan would extend at least through March 2016 and possibly through March 2017. As part of its proposal, and subject to certain caveats, PSE would not file its next general rate case before April 1, 2015, but would file it no later than April 1, 2016, unless otherwise agreed to by the parties in the Company's last general rate case.

The decoupling proposal envisions full revenue decoupling applied to fixed delivery costs for almost all electric and gas customer classes. ${ }^{4}$ The revenue decoupling would be implemented through an "allowed revenue per customer" metric. The decoupling proposal is tied to the proposed rate plan in that each year's allowed revenue per customer would be increased via the K-factor. Thus, the overall proposal should be viewed as a combination "predetermined rate increase/decoupling" package extending over a multi-year period.

## Q. What is your assessment of the Joint Parties' decoupling proposal?

A. I recommend that the entire package be rejected. Failing that, I recommend that the proposal be modified in several important ways.
Q. Please explain your reasons for recommending that the decoupling proposal be rejected.
A. Taken as a whole I do not believe this proposal constitutes good ratemaking, nor do I believe it is in the public interest. For purposes of this discussion, it is useful to separate the K -factor component of the rate plan from the rest of the decoupling proposal. Even though these components are tied

[^2]together in the Joint Parties' proposal, decoupling does not require adoption of predetermined annual rate increases nor does a rate plan consisting of predetermined annual rate increases require decoupling. Indeed, the proposed K factor scheme and the proposed decoupling mechanism are conceptually distinct, independent features that should be evaluated on their own merit.

## Q. What is your assessment of the K-factor proposal?

A. The K-factor proposal is an attempt to introduce an automatic, predetermined cost escalator into rates. The proposed K-factor for electric service is 1.03 and would apply to all revenue requirements except power costs and property taxes. Essentially, the K-factor hardwires a 3 percent annual cost increase into the applicable cost components, which would then automatically flow into customer rates. Extended over the potential term of the proposed rate plan (which could extend beyond the start of 2017), the revenue requirement for the affected electric cost components would increase 15.9 percent.

The proposed K-factor rate increases are not known and measurable adjustments presented in the context of a rate proceeding. Rather they are arbitrary and unsubstantiated rate increases that should be rejected by the Commission. PSE justifies the proposed level of these factors by referencing a calculation prepared by Ms. Barnard that results in an electric K-factor of 1.0406 measured over the period 2006-2011. ${ }^{5}$ Ms. Barnard's calculation was prepared using rate base and depreciation expense increases over that time period combined with a projection of O\&M inflation that includes a small productivity adjustment. However, a trend line of past cost increases (blended with an

[^3]inflation forecast) does not constitute a reasonable basis for locking in broadly applicable rate increases in the future, particularly over a multi-year period.

Moreover, Ms. Barnard's K-factor results are very sensitive to the time period selected. Selecting a time period that starts just one year later (2007-2011) reduces her calculation of the electric K-factor from 1.0406 to $1.0329 .{ }^{6}$ In addition, her measurement of the growth in rate base does not take into account that rate base in 2011 was skewed upward because the Company could not fully reflect the accumulated deferred income tax ("ADIT") that would have otherwise applied in that year. ADIT, which in this context is an offset to rate base, was truncated in 2011 because PSE registered a net operating loss for tax purposes that year and therefore could not fully utilize the bonus tax depreciation deduction otherwise available to the Company. The depreciation deduction can be carried forward for up to twenty years; thus PSE will ultimately realize this tax benefit but customers did not see the benefit of the offset to rate base in 2011 associated with the carried forward amount. The upshot is that had ADIT not been truncated in 2011 due to the artifact of PSE's net operating loss, rate base would have been lower, and Ms. Barnard's K-factor would have been lower as a result. Adjusting for this circumstance further reduces Ms. Barnard's K-factor to 1.0322 over the 2007-2011 period. This calculation is presented in Kroger Exhibit No.__ (KCH2). ${ }^{7}$ My point here is not to quibble over the math behind the K-factor, but rather to observe that any "concession" PSE is making in proposing an electric K-factor of 1.03 is more apparent than real.

[^4]More generally, the Commission should be concerned about regulatory pricing formulations such as the K -factor proposal that reinforce inflation. This occurs when projections of inflation are built into formulas that are used to set administratively-determined prices, such as utility rates. Such pricing mechanisms help to make inflation a self-fulfilling prophecy. Regulators should use extreme caution before approving prices that guarantee inflation before it occurs.

A related, but distinct, concern involves the building of a K-factor "cost cushion" into the Company's base period costs. The cost increases represented by escalation factors may or may not come to fruition. In any case, PSE should be expected to strive to improve the efficiency of its operations on a continuous basis, and thereby lessen the net impact of inflation on its costs. It is not reasonable to gross up the Company's base period costs by an arbitrary escalation factor and pass these costs on to customers. As I pointed out above, there is nothing inherent in revenue decoupling that calls for this type of underlying cost escalation. If the Commission is inclined to approve revenue decoupling (my discussion below notwithstanding), the K-factor portion of the Company's filing can be readily excised and discarded.

## Q. Has the $\mathbf{K}$-factor concept advocated by PSE always been structured as an automatic, predetermined cost escalator? <br> No. The K-factor proposal has had an interesting recent history. In the Company's initial filing in this docket, the K-factor was structured as an adjustment that would account for changes in weather-normalized delivery

revenue attributable to PSE-sponsored energy conservation. ${ }^{8}$ Its sole purpose was to adjust allowed revenues-per-customer in the prior calendar year upward to account for energy conservation that was not otherwise captured in that period's billing determinants - because part of that period's billing determinants would also reflect underlying growth in usage-per-customer that would offset a portion of the energy conservation savings. PSE apparently believes it is entitled to capture the benefits of that underlying growth in usage-per-customer - even if full decoupling is implemented - and the K -factor was proposed as a means to allow the Company to do so. While the merits of PSE's initial K -factor arguments may be debatable, it was at least structured to capture the specific effects of energy conservation on its billing determinants. Fully fourteen pages of Mr. Piliaris's (initial) direct testimony are devoted to explaining and defending the K -factor. This initial conceptualization behind the K -factor has now been completely abandoned by the Joint Parties in favor of a pure cost escalator. The rationale for the "new" K -factor bears no resemblance to the initial proposal. The only thing the new and old K -factors have in common is that they are each a means of increasing rates to customers.

## Q. How does the size of the "new" K-factor compare to the original proposal filed by PSE?

A. In his initial direct testimony, Mr. Piliaris calculated electric system Kfactors of 1.016880 (non-residential) and 1.017231 (residential) for calendar year 2011. ${ }^{9}$ The "new" electric K-factor of 1.03 escalates costs at a 75 percent faster

[^5]rate - and consequently will produce rate impacts on customers that are about 75 percent greater than the original formulation.

## Q. Putting aside the matter of the proposed K-factor, what is your recommendation with respect to the revenue decoupling proposal being advanced by the Joint Parties?


#### Abstract

A. I recommend that the revenue decoupling proposal be rejected, even if the K-factor component is removed. Failing that, I recommend that it be modified in several material ways.

\section*{Q. Please explain the reasons for your recommendation to reject the decoupling proposal.} A. I note at the outset that I have carefully reviewed the Commission's report and policy statement ("Report") on decoupling issued in Docket No. U-100522. I recognize that the Commission determined that it: ...will consider a full decoupling mechanism for electric and natural gas utilities, which will allow a utility to either recover revenue declines related to reduced sales volumes or, in the case of sales volume increases, refund such revenues to its customers. [Report at Par. 28]

However, in reaching this determination, the Commission identified two significant concerns that gave it pause. First, the Commission recognized that relatively few other state commissions have adopted any form of decoupling for electric utilities, and that only some of those mechanisms were full decoupling mechanisms. [Report at Par. 25] This condition is still true today. If the Commission were to adopt full revenue decoupling for PSE's electric service, the Commission would be in the company of a relatively small minority of


commissions nationwide, a fact - and concern - recognized in the report and policy statement.

Second, the Commission expressed concern that full revenue decoupling, particularly in combination with an energy cost recovery mechanism that reduces an electric utility's financial risk due to changes in power costs, could cause a utility to lose some of its incentive to manage itself in a manner that constantly looks to reduce costs. [Report at Par. 26]

In light of these concerns, the Commission's willingness to consider full revenue decoupling places significant weight on the expectation that full revenue decoupling: (1) would benefit customers by reducing utility equity costs and (2) would include proper recognition of "found margin." A cornerstone finding in the Commission's report and policy statement holds as follows:
...while a close call, we believe that a properly constructed full decoupling mechanism that is intended, between general rate cases, to balance out both lost and found margin from any source can be a tool that benefits both the company and its ratepayers. By reducing the risk of volatility of revenue based on customer usage, both up and down, such a mechanism can serve to reduce risk to the company, and therefore to investors, which in turn should benefit customers by reducing a company's debt and equity costs. This reduction in costs would flow through to ratepayers in the form of rates that would be lower than they otherwise would be, as the rates would be set to reflect the assumption of more risk by ratepayers. [Report at Par 27. Footnotes omitted.]

The proposal by the Joint Parties fails to deliver on this key attribute of revenue decoupling identified by the Commission; that is, the proposal fails to reduce the cost of PSE's equity that flows through to customers in exchange for the assumption of greater ratepayer risk. Moreover, the proposal does not provide for full recognition of found margin to offset the lost margin that would be charged to customers, and thus, is deficient in fully providing this offset that is
highly emphasized in the Commission's report and policy statement. In short, the Joint Parties' proposal is a one-sided proposition that burdens customers with the negative characteristics of full revenue decoupling without providing the key benefits that the Commission stressed in its report and policy statement.

## Q. What are the negative characteristics of full revenue decoupling from the perspective of customers?

A.

At the most fundamental level, decoupling is as much a "revenue assurance" mechanism as it is a "conservation enabling" mechanism. As such, it is sure to capture a much wider range of effects than just customer responses to utility-sponsored energy efficiency programs, even though the latter constitutes the underlying justification for its adoption. For example, decoupling provides unwarranted insulation to the utility from the effects of price elasticity. Generally, all sellers of goods face a risk that price increases will reduce sales. But, with full revenue decoupling, if customers respond to utility rate hikes by reducing their electricity, fixed charges are increased to compensate the utility for any resultant reduction in per-customer usage. Such an increase reflects an undue transfer of risk from utilities to customers.

Further, to the extent that customers reduce usage in response to economic conditions or otherwise practice self-funded energy conservation, these behaviors will be captured in the decoupling adjustment and unduly increase rates to customers. The increase in rates to customers from these actions that would accompany full revenue decoupling is a further example of a transfer of utility business risk to customers, which is a negative characteristic of full revenue
decoupling from a customer perspective. Even though, under certain circumstances, full revenue decoupling can result in decreased unit charges as well as increased unit charges, customers are not seeking to have their rates subject to this increased volatility.

Full revenue decoupling also suffers from the infirmities of single-issue ratemaking, which occurs when utility rates are adjusted in response to a change in a single cost or revenue item considered in isolation. Single-issue ratemaking ignores the multitude of other factors that otherwise influence rates, some of which could, if properly considered, move rates in the opposite direction from the single-issue change. To consider some costs or revenues in isolation might cause a commission to increase rates to remedy the single issue of concern without recognizing counterbalancing savings in another area. For this reason, singleissue ratemaking, absent a compelling public interest, is generally not sound regulatory practice.

In light of these drawbacks for customers, if full revenue decoupling is imposed on customers, then it is essential that the benefit of lower equity costs be recognized in customer rates. Failure to adjust ROE would ignore one of the central tenets in the Commission's report and policy statement.

## Q. How is ROE addressed in the Joint Parties' decoupling proposal?

A. The proposal contains no adjustment in the Company's ROE to reflect full revenue decoupling. Rather, the Joint Parties propose to allow PSE to continue to earn the $9.8 \%$ ROE ordered by the Commission in Docket Nos. UE-111048 and UG-111049, subject to an earnings test. The earning test would allow PSE to earn
up 25 basis points above its overall rate of return on rate base before rebating to customers 50 percent of the earnings in excess of this level. ${ }^{10}$

## Q. Have other commissions required reductions in allowed ROE when adopting revenue decoupling?

A. Yes. The reductions have generally ranged between 10 basis points and 50 basis points.

For example, the Public Service Commission of Maryland reduced the ROE for Potomac Electric Power Company ("Pepco") by 50 basis points upon approval of a Bill Stabilization Adjustment ("BSA"), a form of decoupling, stating the following in its July 19, 2007 order:

The BSA, which the Commission has approved, will provide insurance that Pepco will achieve its level of revenue approved in this case. Thus, Pepco is less risky with the BSA than without it. In response to this decline in risk, all parties recognize the appropriateness of reducing Pepco's return on equity by some amount...Given that approval of the BSA will result in improved cost recovery by Pepco, the Commission shall reduce Pepco's ROE by 50 points, to 10 percent. ${ }^{11}$

Concurrent with its decision in the Pepco rate case, the Public Service Commission of Maryland also applied at 50 point reduction to Delmarva Power \& Light Company's ROE due to approval of a BSA. ${ }^{12}$

Pepco received the same 50 basis point ROE reduction in the Washington D.C. jurisdiction, when the District of Columbia Public Service Commission approved a BSA in its September 28, 2009 order, stating:

[^6]Given the positive financial implications associated with the implementation of the BSA as discussed by Pepco Witness Morin, OPC Witness Larkin and AOBA Witness Oliver, the Commission finds that a 50 basis point adjustment to the return on equity is reasonable. A 50 basis point reduction in ROE as part of the approval of the BSA balances the ledger by providing a benefit to consumers in exchange for the benefit to the Company and shareholders of reaping lowered business risk. ${ }^{13}$

The Tennessee Regulatory Authority decided upon a 25 basis point ROE reduction for Chattanooga Gas Company as a result of approving a decoupling mechanism in its November 8, 2010 order, stating:
...[T]he panel found that the evidence presented by the parties made clear that decoupling impacts the return on equity by reducing risks, although both parties presented different views on both the direction and magnitude of the required adjustment. Having carefully reviewed the record, the panel voted unanimously to adopt the conservative estimate of a twenty-five basis point reduction to equity return based upon the rate design adopted by the panel. ${ }^{14}$

Similarly, in 2009, the Public Utilities Commission of Nevada reduced Southwest Gas Company's ROE by 25 basis points due to approval of a decoupling provision. ${ }^{15}$

In 2007, the New York State Public Service Commission ordered a 10 basis point reduction to the allowed ROE of National Fuel Gas Distribution Corporation ("NFG") as a result of adopting a decoupling mechanism, stating:

Given that the revenue decoupling mechanism we are adopting may reduce NFG's earnings volatility, that most of the companies in Staff's proxy group do not have revenue decoupling mechanisms, and that the effects of revenue decoupling mechanisms have long been considered by investors and factored into the financial market data for natural gas firms, we will apply a 10 basis points

[^7]Prefiled Response Testimony of Kevin C. Higgins
reduction to NFG's $9.20 \%$ cost of equity and will set its allowed return on equity at $9.10 \%$. ${ }^{16}$

The New York State Public Service Commission also approved a settlement that reduced St. Lawrence Gas Company's ROE by 10 basis points due to the adoption of a decoupling mechanism on December 18, 2009. ${ }^{17}$

In its February 5, 2008 order, The Illinois Commerce Commission similarly ordered a 10 basis point ROE reduction for North Shore Gas Company and The Peoples Gas Light \& Coke Company upon approval of a Volume Balancing Adjustment ("VBA"), a pilot decoupling program:

The Commission finds that Rider VBA will lessen the Utilities' risk associated with their cash flow. Moreover, we agree with Staff's recommendation that there should be a downward adjustment to the cost of common equity to account for the reduced risk associated with the accepted riders...Overall, we find the record to support a downward adjustment, and in the absence of an exact calculation we find it reasonable to reduce the return on common equity by ten (10) basis points for the duration of the pilot program. ${ }^{18}$

In its January 31, 2011 order, the Massachusetts Department of Public
Utilities set an ROE of $9.60 \%$ for Western Massachusetts Electric Company (which had requested an ROE of $10.50 \%$ ), and stated the following:

In sum, we find that the revenue decoupling mechanism that we have approved in this case will reduce the variability of the Company's revenues and, accordingly, reduce its risks and its investors' return requirement. ${ }^{19}$

[^8]Prefiled Response Testimony of Kevin C. Higgins

In the Northwest, the Public Utility Commission of Oregon reduced the ROE for Portland General Electric Company ("PGE") 10 basis points to reflect the reduction in PGE's risk attributable to the approval of a decoupling mechanism. ${ }^{20}$ I note, however, that PGE's full revenue decoupling mechanism applies only to residential customers and small commercial customers with billing demands of 30 kW or less. Customers with demands between 30 kW and 1000 kW are subject to a lost fixed cost recovery mechanism, but not full revenue decoupling. Customers with billing demands greater than 1000 kW are not subject to any lost fixed cost recovery mechanism at all.

## Q. What is your recommendation to the Commission regarding the treatment of PSE's ROE if full revenue decoupling is adopted?


#### Abstract

A. If full revenue decoupling is adopted, I recommend that PSE's ROE be reduced by 25 basis points for the functions subject to the decoupling mechanism (i.e., electric and gas delivery). This adjustment lies well within the range of ROE adjustments adopted by other commissions and is reasonable in light of the mitigation of earnings volatility that the mechanism would provide for PSE.

\section*{Q. Why is a $\mathbf{2 5}$ basis point reduction in ROE reasonable in light of the mitigation of earnings volatility that the mechanism would provide for PSE?}


A. I examined the volatility of PSE's usage per customer over the period 2002-2011 and measured the ROE impact of this volatility using the ERF volumetric delivery revenue applied to the Company's proposed ERF rate base for electric and gas delivery services. This analysis is presented in Kroger

[^9]Exhibit No. _ ( $\mathrm{KCH}-3$ ), pages 4-7. My analysis shows that the deviations in PSE's usage per customer over this period produces impacts of up to 75 basis points (with an average of 33 basis points absolute value) for the electric delivery system and up to 167 basis points (with an average of 84 basis points absolute value) for the gas delivery system. The 25 basis point ROE adjustment lies well within this range of earnings volatility and is a reasonable adjustment for removing this source of earnings volatility for the Company.
Q. How should a 25 basis point ROE adjustment be applied in this proceeding if full revenue decoupling is adopted?
A. The adjustment should be applied as part of the ERF proceeding. I have presented such adjustments as part of Exhibit No.__(KCH-3), pages 1-2. The adjustments result in a reduction in the ERF electric revenue requirement of approximately $\$ 5.1$ million and in the ERF gas revenue requirement of approximately $\$ 3.1$ million.
Q. Is the ERF proceeding the appropriate venue for making this adjustment?
A. In the current circumstances, yes. As a threshold matter, the

Commission's report and policy statement makes it clear that decoupling would only be considered by the Commission as part of a general rate case. [Report at Par. 18, 28, and 36, also esp. FN 33] The Commission is clear that the requirement for a general rate case is intended to allow for the consideration of the impact of reduced utility risk on ROE:

In the past, the Commission has indicated that it may consider a decoupling mechanism outside the context of a general rate case...However, as was discussed at some length in this proceeding, because a decoupling mechanism may provide reduced risk for the company, it stands to reason that such reduced
risk may impact the company's appropriate return on equity. [Report at FN 33, citation omitted.]

To the extent that decoupling is considered in the current proceeding outside a general rate case - it will obviously require an exception to this requirement as articulated in the report and policy statement. If such an exception is granted, any exception should be limited to making allowances for venue as opposed to substance; that is, an ROE adjustment to recognize the reduction in utility risk attributable to decoupling should be considered just as it would be in a general rate case proceeding. Any arguments by decoupling advocates that ROE cannot be adjusted in this proceeding because it is not a general rate case should be given no weight because considering decoupling outside a general rate case is itself precluded in the first instance. One reasonable course of action is simply to reject the decoupling proposal submitted by the Joint Parties precisely because it is occurring outside a general rate case. However, if an exception is granted to consider decoupling outside a general rate case, then a corollary exception must be granted to considering ROE. The venue selected by the Joint Parties should not be device by which the Commission's intent in considering ROE adjustments is circumvented.

As the ERF is occurring in conjunction with the decoupling mechanism, the ROE adjustment can readily be applied as part of determining the ERF revenue requirement. The Commission has determined an allowed ROE for PSE as recently as May 7, 2012. ${ }^{21}$ This allowed ROE was established in a context in which PSE did not have an approved revenue decoupling mechanism. If full

[^10]revenue decoupling is approved in this proceeding, the ERF would provide the Commission the opportunity to make an explicit adjustment to the Company's allowed ROE to reflect the reduction in the Company's risk, consistent with the considerations discussed in the Commission's report and policy statement.

## Q. Previously in your testimony you stated that the proposal by the Joint Parties

 does not provide for full recognition of found margin to offset the lost margin that would be charged to customers. Please explain.
#### Abstract

The concept of found revenue is discussed at some length in the Commission's report and policy statement. The Commission's statement emphasizes that a properly constructed full decoupling mechanism would balance out both lost and found margin from any source. [Report at Par. 27. Emphasis added.] The full revenue decoupling proposal advanced by the Joint Parties recognizes found margin only to the extent that it may affect allowed revenue per customer. The proposal provides no recognition of found revenue that would be associated with growth in the number of customers. Under the terms of the proposal, the full benefit of incremental fixed cost recovery associated with new customers accrues solely to PSE.


I demonstrate this result in Exhibit No. _(KCH-4) in which I modified the inputs in PSE Exhibit Nos._(JAP-18) and (JAP-22) to assume a faster rate of growth in customer count than PSE is projecting, while holding usage-percustomer (i.e., allowed revenue per customer) constant for both residential and non-residential customers. I also removed the effect of prior deferrals because deferral recovery impacts the decoupling unit charge, but does not change the
apportionment of forward-looking revenue requirements between PSE and customers. As shown in Exhibit No. __ (KCH-4), lines 13-14, 100 percent of the incremental revenue recovered from the incremental customers accrues to PSE, with no recognition as an offset to lost revenues. In my opinion, the proposal is deficient in providing for full recognition of found margins and should be rejected. If full revenue decoupling is approved by the Commission, the mechanism proposed by the Joint Parties should be modified to incorporate any found margin associated with growth in customer count as a credit against the RDA balancing account.

## Q. If full revenue decoupling is adopted should it apply to all electric rate

 schedules?A. No. The Joint Parties have already proposed to exclude lighting and retail wheeling customers. I believe these exclusions are appropriate. However, it does not go far enough.

Maintaining a "fixed-cost recovery per customer" target - as incorporated into the Joint Parties' proposal - is not an appropriate rate design objective for classes of customers that have heterogeneous populations, and/or whose class composition shows a wide range of usage levels, such as occurs with larger nonresidential customers. The fixed-cost recovery per customer of these classes will be very sensitive to the composition of these customers. In short, given the tremendous diversity among non-residential customers, targeting "average fixedcost recovery per customer" as a ratemaking metric for these customers is without merit. Certainly, attempting to attribute to utility-sponsored energy conservation
projects changes in "average fixed-cost recovery per customer" of non-residential customers is an unreasonable stretch.

Changes in the overall economy are far more likely to influence fixed-cost recovery per customer for non-residential customers than energy conservation programs. Application of decoupling to these customers would result in undue changes in rates in response to factors that are unrelated to energy conservation.

The recent experience of Detroit Edison is instructive in this regard. In early 2010, Detroit Edison implemented a full revenue decoupling mechanism tied to average energy usage per customer; the decoupling mechanism included larger non-residential customers, just as proposed by the Joint Parties in this case. This revenue decoupling mechanism ("RDM") had been approved the prior year by the Michigan Public Service Commission ("MPSC") against my recommendation and the recommendations of several other witnesses. ${ }^{22}$ By late 2010, Detroit Edison concluded that that the usage-per-customer revenue RDM was subject to the very shortcomings I am warning about here and was failing to accomplish its intended purpose, particularly for larger customers. In the words of Detroit Edison witness Don M. Stanczak:

Edison's current RDM compares average actual electric use per customer by customer class to the level of average electric use per customer used to set Edison's base rates in the last rate case, Case No. U-15768. Increases, if any, in average energy use per customer will be multiplied by the average per kWh revenue, from the last rate case, for each class; this total amount will result in customer credits. Similarly, any reductions in average energy use per customer will be multiplied by the average per kWh revenue from the last rate case, with the total being surcharged to customers...

Edison's pilot RDM has been in operation since February of 2010. Based on our experience, it is clear that Edison's current RDM does not meet the requirements

[^11]of a well designed RDM. Edison's current RDM is highly sensitive to changes in the number of customers, particularly relative to Commercial and Industrial (C\&I) customer classes, which have far fewer absolute numbers of customers than the residential class. More specifically, small changes in numbers of customers, due to such things as plant closing, customer additions, migration among customer classes, including migration to Electric Choice, and the like, have a huge impact on changes in average use per customer. As I indicated earlier, this is particularly true for the C\&I customer classes which tend to have relatively low customer counts and high average electric use per customer.
...[G]iven the sensitivity to customer counts, Edison's current RDM could result in Edison improperly being required to issue refunds to customers even though Edison's [energy optimization ("EO")] programs are producing the planned sales reductions and or even if Edison's sales are declining on an absolute basis. Similarly, the RDM could as likely result in Edison surcharging customers even though its EO programs are not producing the planned energy reductions. In summary, the current Edison RDM is not accomplishing its intended purpose. ${ }^{23}$

Detroit Edison proposed to abandon its revenue decoupling mechanism in favor of a lost-revenues approach. Although the MPSC did not allow Detroit Edison to make this change, the MPSC's decision was ultimately rendered moot when the Michigan Court of Appeals found that the MPSC lacked authority to approve or direct the use of a revenue decoupling mechanism for an electric utility. The upshot here is that Detroit Edison's experience provides a cautionary tale about the hazards of broadly applying revenue decoupling to all classes of customers and all sources of changes in average customer usage.

## Q. How have jurisdictions in the western United States treated larger nonresidential customers when electric decoupling mechanisms have been adopted?

A. I am aware of only two major electric utilities in the western U.S. outside
of California that have implemented full revenue decoupling: Idaho Power and

[^12]Portland General Electric. Appropriately, neither of these utilities applies revenue decoupling to large non-residential customers. Idaho Power's decoupling mechanism only applies to residential customers and small commercial customers consuming $2,000 \mathrm{kWh}$ per month or less. As discussed above, PGE's revenue decoupling mechanism applies only to residential customers and small commercial customers with billing demands of 30 kW or less. Customers with demands between 30 kW and 1000 kW are subject to a lost fixed cost recovery mechanism, but not revenue decoupling. Customers with billing demands greater than 1000 kW are not subject to any lost fixed cost recovery mechanism.

## Q. Are you aware of any other utilities in the western U.S. that initially

 proposed full revenue decoupling for all customers but ultimately decided to exclude larger customers?A.

Yes. In 2011, Arizona Public Service Company proposed full revenue decoupling as part of a general rate case. Like this Commission, the Arizona Corporation Commission ("ACC") had adopted a policy statement encouraging revenue decoupling. However, consequent to settlement discussions, APS withdrew its full revenue decoupling proposal and, along with a broad spectrum of stakeholders, agreed to a lost fixed cost recovery mechanism ("LFCR") that applies only to residential customers and non-residential customers with demands below 400 kW . The LFCR mechanism includes a rate design option that allows residential customers to "opt out" of the LFCR program.

I helped negotiate the APS settlement agreement that replaced APS's full revenue decoupling proposal with the LFCR. Kroger is signatory to that agreement. The APS settlement agreement was approved by the ACC in 2012.

## Q. What was the rationale for excluding larger non-residential customers from

 APS's LFCR mechanism?A.

APS correctly recognized that much of its concern about recovery of lost margins associated with energy conservation could be addressed through rate design for its larger customers. In particular, a concerted effort was made to ensure that as much of the utility's fixed costs as practicable were recovered from customer and demand charges for demand-billed customers.

This approach mitigated APS's concerns because both APS and the ACC Staff concluded that revenue from demand charges would not be as sensitive to changes in average customer usage as revenue from kilowatt-hour charges would be. Indeed, in determining the revenue adjustment for the LFCR, the mechanism not only excludes the portion of distribution and transmission costs that is recovered through the customer charge, it also excludes 50 percent of such costs recovered through non-generation/non-transmission demand charges.
Q. Does this latter point have implications for the revenue decoupling mechanism proposed by the Joint Parties?
A.

Yes. PSE proposes no such exclusion for the revenues recovered from demand charges. Indeed, the metric that PSE intends to use to measure "actual" revenues-per-customer for non-residential customers is imputed based solely on
changes in kilowatt-hour sales ${ }^{24}$ - even though a substantial portion of the revenues collected for delivery service from demand-billed customers is in the form of demand charges. To the extent that revenue sensitivity of PSE's demand revenues is less than that of kilowatt-hour revenues, this imputation will overstate the changes in revenue-per-customer attributable to changes in -per-customer (for demand-billed customers). In short, the "actual" revenues-per-customer that the Joint Parties propose to use in the calculation of the decoupling rider for demandbilled customers is not actually actual - and will likely overstate the decoupling adjustment for these customers. The likelihood of this overstatement is even greater when one considers that PSE's tariff contains demand ratchets for Schedules 26-P, 31, and 49, which further dampen the volatility of revenues collected from the demand charge.

## Q. What is your recommendation to the Commission regarding PSE's proposed imputation of changes in revenue-per-customer for demand-billed customers using only kilowatt-hour sales?

A. The imputation proposed by the Joint Parties is problematic and underscores the inherent inapplicability of full revenue decoupling for larger nonresidential customers. If full revenue decoupling is adopted by the Commission, customers with billings demands of greater than 350 kW (e.g., Rate Schedules 26, 31, and 40) should be excluded from the mechanism. At a minimum, before subjecting these customers to revenue decoupling, PSE should be required to investigate means through which its potential loss of fixed-cost recovery can be

[^13]mitigated through rate design, including increasing its demand charges for delivery service to better align with recovery of fixed costs.

If these customers are not excluded from the mechanism, then the mechanism should be modified such that a reasonable portion (e.g. 50\%) of the demand-billed delivery revenues are excluded from the revenue decoupling adjustment (i.e., are treated as unvarying with kWh variations), similar to the treatment employed in Arizona.
Q. What rate design is proposed by the Joint Parties for recovering the decoupling rate adjustment?
A. The Joint Parties propose to recover the decoupling rate adjustment (Schedule 139) through a kWh charge.

## Q. If a revenue decoupling mechanism is adopted, do you believe this proposed rate design is reasonable?

A. No. Schedule 139 does not have an appropriate rate design for demandbilled customers. The decoupling adjustment would consist exclusively of delivery-related costs. Although PSE maintains that it is "unable to determine" its current rate design for delivery services (because its rates are not functionally unbundled), ${ }^{25}$ there can be little question that the preponderance of these costs are demand-related.

The costs of distribution service - the major component of delivery service - are properly classified as either customer-related or demand-related; they are not generally considered to be energy-related. There is little or no reason for the cost of distribution service to be recovered using an energy charge from

[^14]7 A.

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

## Complainant,

v.

PUGET SOUND ENERGY, INC.,
Docket No. UE-130137
Docket No. UG-130138
Docket No. UE-121697
Docket No. UG-121705
Respondent.

STATE OF UTAH
AFFIDAVIT OF KEVIN C. HIGGINS

COUNTY OF SALT LAKE
)
)
()

- Kevin C. Higgins, being first duly sworn, deposes and states that:

1. He is a Principal with Energy Strategies, L.L.C., in Salt Lake City, Utah;
2. He is the witness who sponsors the testimony entitled "Response Testimony of

Kevin C. Higgins on Behalf of the Kroger Co.";
3. Said testimony was prepared by him;
4. If inquiries were made as to the facts in said testimony and exhibits he would respond as therein set forth; and
5. The aforesaid testimony is true and correct to the best of his knowledge, information and belief.


Subscribed and sworn to or affirmed before me this $23^{\text {rd }}$ day of April, 2013, by Kevin C. Higgins.


Notary Public


## ELECTRIC K-FACTOR CALCULATION USING 2007 TO 2011 ESCALATION FACTORS WITH ADJUSTMENT FOR NOL CARRYFORWARD IMPACT

| $\begin{aligned} & \text { LINE } \\ & \text { NO. } \\ & \hline \end{aligned}$ | 2011 GRC REVENUE REQUIREMENT A | \% OF REVENUE REQUIREMENT B | ESCALATION FACTOR C | WEIGHTED ESCALATION D |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | ( $\mathrm{Col} \mathrm{B} \mathrm{x} \mathrm{Col} \mathrm{C)}$ |
| 1 ELECTRIC |  |  |  |  |
| 2 Ratebase related | 189,360,556 | 28\% | 5.3\% | 1.48\% |
| 3 Expense excl depn | 338,591,412 | 50\% | 1.9\% | 0.95\% |
| $4 \mathrm{Depn} /$ Amort | 150,830,212 | 22\% | 3.5\% | 0.78\% |
| 5 Total Electric ERF related Revenue Requirement | 678,782,179 | 100\% |  | 3.22\% |

## ELECTRIC K-FACTOR CALCULATION PRESENTED BY PSE ${ }^{1}$

| $\begin{aligned} & \text { LINE } \\ & \text { NO. } \\ & \hline \end{aligned}$ | 2011 GRC REVENUE REQUIREMENT A | \% OF REVENUE REQUIREMENT B | ESCALATION FACTOR C | WEIGHTED ESCALATION D |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $(\mathrm{Col} \mathrm{B} \mathrm{X} \mathrm{Col} \mathrm{C)}$ |
| ELECTRIC |  |  |  |  |
| 2 Ratebase related | 189,360,556 | 28\% | 6.0\% | 1.68\% |
| 3 Expense excl depn | 338,591,412 | 50\% | 1.9\% | 0.95\% |
| 4 Depn/Amort | 150,830,212 | 22\% | 6.5\% | 1.44\% |
| 5 Total Electric ERF related Revenue Requirement | 678,782,179 | 100\% |  | 4.06\% |

1. Data Source: PSE Exhibit No. $\qquad$ (KJB-4)
PUGET SOUND ENERGY
ANNUAL GROWTH RATE BASED ON GRC COMPLIANCE FILING WORKPAPERS - ADJUSTED FOR NOL CARRYFORWARD

| Test Year | 2004 GRC <br> Sep-03 | 2006 GRC <br> Sep-05 | 2007 GRC <br> Sep-07 | 2009 GRC <br> $\frac{\text { Dec-08 }}{(\text { Note } 1)}$ | 2011 GRC$\frac{\text { Dec-10 }}{(\text { Note } 1)}$ | \%Annual Grawth in O\&M |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | 2004GRC-2006GRC-2007GRC-2009GRC 2011GRC 2011GRC 2011GRC 2011GRC |  |  |  |
|  |  |  |  |  |  | $\frac{7.25}{}$ | $\frac{5.25}{}$ | $\frac{3.25}{}$ | 2.00 |
| Load (input tab) |  |  |  |  |  |  |  |  |  |
| Electric | 19,334,018,640 | 20,339,226,968 | 21,283,655,838 | 21,821,673,792 | 21,143,300,002 | 1.2\% | 0.7\% | -0.2\% | -1.6\% |
| 3 ( 3 ( ${ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |
| Electric Expenses |  |  |  |  |  |  |  |  |  |
| Other Power Supply Expense | 52,551,925 | 77,648,296 | 96,183,223 | 107,091,100 | 124,341,933 | 12.6\% | 9.4\% | 8.2\% | 7.8\% |
| PCA Transmission | 485,960 | 862,248 | 1,136,455 | 1,523,617 | 1,419,635 | 15.9\% | 10.0\% | 7.1\% | -3.5\% |
| Transmission \& Distribution Expense | 63,736,286 | 65,086,999 | 75,095,489 | 82,334,864 | 92,084,397 | 5.2\% | 6.8\% | 6.5\% | 5.8\% |
| Customer Account \& Services Expenses | 37,542,803 | 37,706,383 | 41,878,822 | 44,367,720 | 49,173,646 | 3.8\% | 5.2\% | 5.1\% | 5.3\% |
| Admin \& General Expenses | 70,951,920 | 74,379,848 | 81,986,794 | 89,886,009 | 99,871,160 | 4.8\% | 5.8\% | 6.3\% | 5.4\% |
| 10 Total Electric Expenses | 225,268,893 | 255,683,774 | 296,280,783 | 325,203,310 | 366,890,771 | 7.0\% | 7.1\% | 6.8\% | 6.2\% |
| 11 |  |  |  |  |  |  |  |  |  |
| 12 Electric Depreciation |  |  |  |  |  |  |  |  |  |
| 13 Production | 37,335,853 | 59,620,924 | 51,741,842 | 50,072,838 | 93,722,074 | 13.5\% | 9.0\% | 20.1\% | 36.8\% |
| 14 PCA Transmission | 4,859,223 | 4,861,051 | 3,805,774 | 4,056,906 | 3,843,499 | -3.2\% | -4.4\% | 0.3\% | -2.7\% |
| 15 Transmission \& Distribution | 71,715,862 | 76,838,397 | 87,146,104 | 92,434,248 | 101,680,414 | 4.9\% | 5.5\% | 4.9\% | 4.9\% |
| 16 General, Intangible | 11,381,296 | 10,068,281 | 19,226,023 | 15,196,346 | 20,477,642 | 8.4\% | 14.5\% | 2.0\% | 16.1\% |
| 17 Non-Tracker | - | - | - | 13,993,264 | - | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 18 Electric Depreciation | 125,292,233 | 151,388,653 | 161,919,743 | 175,753,602 | 219,723,630 | 8.1\% | 7.4\% | 9.8\% | 11.8\% |
| 19 Total T\&D and General | 83,097,158 | 86,906,678 | 106,372,127 | 107,630,594 | 122,158,056 | 5.5\% | 6.7\% | 4.3\% | 6.5\% |
| 20 |  |  |  |  |  |  |  |  |  |
| 21 Electric Amortization |  |  |  |  |  |  |  |  |  |
| 22 Production | 4,713,860 | 3,004,881 | 5,612,906 | 11,298,008 | 11,275,733 | 12.8\% | 28.6\% | 23.9\% | -0.1\% |
| 23 Transmission \&Distribution | - | - | - | - | - | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 24 General, Intangible | 19,142,502 | 19,349,756 | 25,514,388 | 28,304,530 | 25,477,630 | 4.0\% | 5.4\% | 0.0\% | -5.1\% |
| 25 Non-Tracker | 1,498,249 | 2,793,718 | 1,805,160 | 2,112,845 | 3,194,525 | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 26 Electric Amortization | 25,354,610 | 25,148,354 | 32,932,455 | 41,715,383 | 39,947,889 | 6.5\% | 9.2\% | 6.1\% | -2.1\% |
| 27 Total T\&D and General | 19,142,502 | 19,349,756 | 25,514,388 | 28,304,530 | 25,477,630 | 4.0\% | 5.4\% | 0.0\% | -5.1\% |
| 28 |  |  |  |  |  |  |  |  |  |
| 29 T\&D/General Depn \& Amort ( $\ln 19+\ln 27)$ | 102,239,659 | 106,256,434 | 131,886,516 | 135,935,123 | 147,635,687 | 5.2\% | 6.5\% | 3.5\% | 4.2\% |
| 30 |  |  |  |  |  |  |  |  |  |
| 31 Electric Ratebase |  |  |  |  |  |  |  |  |  |
| 32 Production | 751,245,624 | 1,234,946,228 | 1,246,912,240 | 1,583,950,372 | 2,330,849,778 | 16.9\% | 12.9\% | 21.2\% | 21.3\% |
| 33 PCA Transmission | 120,648,501 | 113,206,055 | 107,422,863 | 102,337,940 | 94,699,228 | -3.3\% | -3.3\% | $-3.8 \%$ | -3.8\% |
| 34 Transmission \& Distribution (Note 1) | 1,408,241,596 | 1,395,944,754 | 1,641,251,984 | 1,922,288,883 | 2,155,751,803 | 6.0\% | 8.6\% | 8.8\% | 5.9\% |
| 35 General, Intangible, Other (Note 1) | 221,758,096 | 203,380,656 | 180,138,722 | - | ${ }^{-}$ | -100.0\% | -100.0\% | -100.0\% | 0.0\% |
| 36 Non-Tracker | 42,776,224 | 29,838,500 | 127,847,726 | 188,037,777 | 255,040,634 | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 37 Electric Ratebase | 2,544,670,041 | 2,977,316,193 | 3,303,573,535 | 3,796,614,971 | 4,836,341,442 | 9.3\% | 9.7\% | 12.4\% | 12.9\% |
| 38 Total T\&D and General | 1,629,999,692 | 1,599,325,411 | 1,821,300,706 | 1,922,288,883 | 2,155,751,803 | 3.9\% | 5.9\% | 5.3\% | 5.9\% |

(Note 1) For the 2009 GRC, 2011 GRC and 2011 CBR, General, Intangibie and Other plant is included on line 35.

## GAS K-FACTOR CALCULATION

## USING 2007 TO 2011 ESCALATION FACTORS WITH ADJUSTMENT FOR NOL CARRYFORWARD IMPACT

| $\begin{aligned} & \text { LINE } \\ & \text { NO. } \\ & \hline \end{aligned}$ | 2011 GRC <br> REVENUE REQUIREMEN A | \% OF REVENUE REQUIREMEN B | ESCALATION FACTOR C | $\begin{aligned} & \text { WEIGHTED } \\ & \text { ESCALATION } \\ & \text { D } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $(\mathrm{Col} \mathrm{B} \times \mathrm{Col} \mathrm{C})$ |
| 1 GAS |  |  |  |  |
| 2 Ratebase related | 127,391,821 | 30\% | 4.9\% | 1.47\% |
| 3 Expense excl depn | 186,153,835 | 44\% | 1.9\% | 0.84\% |
| 4 Depn/Amort | 108,609,792 | 26\% | 2.2\% | 0.56\% |
| 5 Total Gas ERF related Revenue Requirement | 422,155,448 | 100\% |  | 2.87\% |

## GAS K-FACTOR CALCULATION

 PRESENTED BY PSE ${ }^{1}$| $\begin{aligned} & \text { LINE } \\ & \text { NO. } \\ & \hline \end{aligned}$ | 2011 GRC <br> REVENUE REQUIREMEN A | \% OF REVENUE REQUIREMEN B | ESCALATION FACTOR C | $\begin{aligned} & \text { WEIGHTED } \\ & \text { ESCALATION } \\ & \text { D } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | ( $\mathrm{Col} \mathrm{B} \mathrm{x} \mathrm{Col} \mathrm{C)}$ |
| 1 GAS |  |  |  |  |
| 2 Ratebase related | 127,391,821 | 30\% | 5.5\% | 1.66\% |
| 3 Expense excl depn | 186,153,835 | 44\% | 1.9\% | 0.84\% |
| 4 Depn/Amort | 108,609,792 | 26\% | 5.1\% | 1.30\% |
| 5 Total Gas ERF related Revenue Requirement | 422,155,448 | 100\% |  | 3.80\% |

1. Data Source: PSE Exhibit No. $\qquad$ (KJB-4)
Exhibit No._(KCH-2) PUGET SOUND ENERGY
ANNUAL GROWTH RATE BASED ON GRC COMPLIANCE FILING WORKPAPERS - ADJUSTED FOR NOL CARRYFORWARD NATURAL GAS OPERATIONS

| 2004 GRC | 2006 GRC | 2007 GRC | 2009 GRC | 2011 GRC | \% Annual Growth in O\&M |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\underline{\text { Sep-03 }}$ | $\frac{\text { Sep-05 }}{\text { (Note 1) }}$ | $\underline{\text { Sep-07 }}$ | Dec-08 | Dec-10 | $\begin{aligned} & \text { 2004GRC - } \\ & \frac{2011 \mathrm{GRC}}{7.25} \end{aligned}$ | $\begin{aligned} & \text { 2006GRC - } \\ & \frac{\text { 2011GRC }}{5.25} \end{aligned}$ | $\begin{aligned} & \text { 2007GRC- } \\ & \frac{2011 \mathrm{GRC}}{3.25} \end{aligned}$ | $\begin{aligned} & \text { 2009GRC - } \\ & \frac{\text { 2011GRC }}{2.0} \end{aligned}$ |
| 1,033,465,074 | 1,038,450,901 | 1,084,208,169 | 1,120,309,121 | 1,072,668,096 | 0.5\% | 0.6\% | -0.3\% | -2.1\% |
| 1,162,087 | 1,555,800 | 1,769,111 | 1,881,592 | 1,959,232 | 7.5\% | 4.5\% | 3.2\% | 2.0\% |
| 26,259,234 | 34,532,486 | 43,207,192 | 52,101,244 | 49,783,566 | 9.2\% | 7.2\% | 4.5\% | -2.2\% |
| 23,088,164 | 25,038,278 | 27,397,683 | 29,110,812 | 31,704,844 | 4.5\% | 4.6\% | 4.6\% | 4.4\% |
| 32,698,303 | 41,714,840 | 40,022,534 | 43,076,879 | 43,995,146 | 4.2\% | 1.0\% | 3.0\% | 1.1\% |
| 83,207,788 | 102,841,404 | 112,396,520 | 126,170,527 | 127,442,788 | 6.1\% | 4.2\% | 3.9\% | 0.5\% |
| 1,076,351 | 1,294,251 | 934,365 | 1,011,473 | 1,278,337 | 2.4\% | -0.2\% | 10.1\% | 12.4\% |
| 52,617,414 | 59,340,713 | 75,944,262 | 80,729,161 | 85,358,207 | 6.9\% | 7.2\% | 3.7\% | 2.8\% |
| 4,182,553 | 4,321,030 | 10,051,696 | 7,109,187 | 9,195,128 | 11.5\% | 15.5\% | -2.7\% | 13.7\% |
| 57,876,318 | 64,955,994 | 86,930,323 | 88,849,821 | 95,831,672 | 7.2\% | 7.7\% | 3.0\% | 3.9\% |
| 1,076,351 | 1,294,251 | 934,365 | 1,011,473 | 1,278,337 | 2.4\% | -0.2\% | 10.1\% | 12.4\% |
| 56,799,967 | 63,661,743 | 85,995,958 | 87,838,349 | 94,553,335 | 7.3\% | 7.8\% | 3.0\% | 3.8\% |
| - | - | - | - | - | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 21,162 | 82,646 | 303,738 | 403,917 | 219,232 | 38.1\% | 20.4\% | -9.5\% | -26.3\% |
| 9,579,622 | 11,220,066 | 13,783,889 | 15,214,871 | 12,558,889 | 3.8\% | 2.2\% | -2.8\% | -9.1\% |
| 9,600,784 | 11,302,712 | 14,087,627 | 15,618,788 | 12,778,120 | 4.0\% | 2.4\% | -3.0\% | -9.5\% |
| 66,400,751 | 74,964,455 | 100,083,585 | 103,457,137 | 107,331,456 | 6.8\% | 7.1\% | 2.2\% | 1.9\% |
| 22,042,681 | 25,973,805 | 27,896,986 | 27,244,685 | 39,751,535 | 8.5\% | 8.4\% | 11.5\% | 20.8\% |
| 925,750,507 | 1,037,271,755 | 1,191,070,429 | 1,301,847,809 | 1,395,558,583 | 5.8\% | 5.8\% | 5.0\% | 3.5\% |
| 118,543,578 | 106,130,161 | 90,793,405 | 85,446,599 | 101,077,864 | -2.2\% | -0.9\% | 3.4\% | 8.8\% |
| 1,345,790 | 10,976,022 | 37,506,872 | 52,980,352 | 78,334,208 | 75.2\% | 45.4\% | 25.4\% | 21.6\% |
| 1,067,682,556 | 1,180,351,743 | 1,347,267,693 | 1,467,519,443 | 1,614,722,190 | 5.9\% | 6.2\% | 5.7\% | 4.9\% |
| $\begin{array}{r} (22,042,681) \\ (1,345,790) \end{array}$ | $\begin{aligned} & (25,973,805) \\ & (10,976,022) \end{aligned}$ | $\begin{aligned} & (27,896,986) \\ & (37,506,872) \end{aligned}$ | $\begin{aligned} & (27,244,685) \\ & (52,980,352) \end{aligned}$ | $\begin{aligned} & (39,751,535) \\ & (78,334,208) \end{aligned}$ |  |  |  |  |
| 1,044,294,085 | 1,143,401,915 | 1,281,863,835 | 1,387,294,407 | 1,496,636,448 | 5.1\% | 5.3\% | 4.9\% | 3.9\% |
| - | - | - | - | - | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 1,044,294,085 | 1,143,401,915 | 1,281,863,835 | 1,387,294,407 | 1,496,636,448 | 5.1\% | 5.3\% | 4.9\% | 3.9\% |

Note 1) The 2007 GRC depreciation results shown on line 19 , included a $\$ 9.3 \mathrm{M}$ adjustment resulting from the 07 Depreciation study approved in that filing.
Had the adjustment occurred in the 2006 GRC , the compound growth factor for the 2006 to 2011 period would have been $5.1 \%$ the compound growth factor for the 2006 to 2011 period would have been $5.1 \%$
Test Year
를 인

## Gas Expenses

Other Power Supply Expense
Transmission \& Distribution Expense Customer Account \& Services Expenses Admin \& General Expenses Total Gas Expenses
Gas Depreciation
12 Gas Depreciation Transmission \& Distributio
14 Transmission a 15 General, Intangible, Other
Gas Depreciation
Less Prod, Storage, LNG
Net Gas Depreciation ( $\ln 17$
Gas Amortization
Production \& Gas Storage
Transmission \& Distribution
Gas Amortization
$\begin{array}{ll}26 & \text { T\&D/General Depn \& Amort ( } \ln 19+\ln 26 \text { ) } \\ 27 & \\ 28 & \text { Gas Ratebase } \\ \text { 29 } & \text { Production \& Gas Storage } \\ 30 & \text { Transmission \& Distribution } \\ 31 & \text { General, Intangible, Other } \\ 32 & \text { Working Capital } \\ 33 & \text { Gas Ratebase } \\ 34 & \text { Less Production related } \\ 35 & \text { Less Working Capital } \\ 36 & \text { Total T\&D and General } \\ 37 & \text { Misc Adj. (Open) } \\ 38 & \text { Net T\&D and General }\end{array}$
$\begin{array}{ll}26 & \text { T\&D/General Depn \& Amort }(\ln 19+\ln 26) \\ 27 & \\ 28 & \text { Gas Ratebase } \\ 29 & \text { Production \& Gas Storage } \\ \text { 30 } & \text { Transmission \& Distribution } \\ 31 & \text { General, Intangible, Other } \\ \text { 32 } & \text { Working Capital } \\ \text { 33 } & \text { Gas Ratebase } \\ \text { 34 } & \text { Less Production related } \\ \text { 35 } & \text { Less Working Capital } \\ \text { 36 } & \text { Total T\&D and General } \\ \text { 37 } & \text { Misc Adj. (Open) } \\ \text { 38 } & \text { Net T\&D and General }\end{array}$
$\begin{array}{ll}26 & \text { T\&D/General Depn \& Amort }(\ln 19+\ln 26) \\ 27 & \\ 28 & \text { Gas Ratebase } \\ 29 & \text { Production \& Gas Storage } \\ \text { 30 } & \text { Transmission \& Distribution } \\ 31 & \text { General, Intangible, Other } \\ \text { 32 } & \text { Working Capital } \\ \text { 33 } & \text { Gas Ratebase } \\ \text { 34 } & \text { Less Production related } \\ \text { 35 } & \text { Less Working Capital } \\ \text { 36 } & \text { Total T\&D and General } \\ \text { 37 } & \text { Misc Adj. (Open) } \\ \text { 38 } & \text { Net T\&D and General }\end{array}$
$\begin{array}{ll}26 & \text { T\&D/General Depn \& Amort }(\ln 19+\ln 26) \\ 27 & \\ 28 & \text { Gas Ratebase } \\ 29 & \text { Production \& Gas Storage } \\ \text { 30 } & \text { Transmission \& Distribution } \\ 31 & \text { General, Intangible, Other } \\ \text { 32 } & \text { Working Capital } \\ \text { 33 } & \text { Gas Ratebase } \\ \text { 34 } & \text { Less Production related } \\ \text { 35 } & \text { Less Working Capital } \\ \text { 36 } & \text { Total T\&D and General } \\ \text { 37 } & \text { Misc Adj. (Open) } \\ \text { 38 } & \text { Net T\&D and General }\end{array}$
$\begin{array}{ll}26 & \text { T\&D/General Depn \& Amort }(\ln 19+\ln 26) \\ 27 & \\ 28 & \text { Gas Ratebase } \\ 29 & \text { Production \& Gas Storage } \\ \text { 30 } & \text { Transmission \& Distribution } \\ 31 & \text { General, Intangible, Other } \\ \text { 32 } & \text { Working Capital } \\ \text { 33 } & \text { Gas Ratebase } \\ \text { 34 } & \text { Less Production related } \\ \text { 35 } & \text { Less Working Capital } \\ \text { 36 } & \text { Total T\&D and General } \\ \text { 37 } & \text { Misc Adj. (Open) } \\ \text { 38 } & \text { Net T\&D and General }\end{array}$
$\begin{array}{ll}26 & \text { T\&D/General Depn \& Amort }(\ln 19+\ln 26) \\ 27 & \\ 28 & \text { Gas Ratebase } \\ 29 & \text { Production \& Gas Storage } \\ \text { 30 } & \text { Transmission \& Distribution } \\ 31 & \text { General, Intangible, Other } \\ \text { 32 } & \text { Working Capital } \\ \text { 33 } & \text { Gas Ratebase } \\ \text { 34 } & \text { Less Production related } \\ \text { 35 } & \text { Less Working Capital } \\ \text { 36 } & \text { Total T\&D and General } \\ \text { 37 } & \text { Misc Adj. (Open) } \\ \text { 38 } & \text { Net T\&D and General }\end{array}$
$\begin{array}{ll}26 & \text { T\&D/General Depn \& Amort }(\ln 19+\ln 26) \\ 27 & \\ 28 & \text { Gas Ratebase } \\ 29 & \text { Production \& Gas Storage } \\ \text { 30 } & \text { Transmission \& Distribution } \\ 31 & \text { General, Intangible, Other } \\ \text { 32 } & \text { Working Capital } \\ \text { 33 } & \text { Gas Ratebase } \\ \text { 34 } & \text { Less Production related } \\ \text { 35 } & \text { Less Working Capital } \\ \text { 36 } & \text { Total T\&D and General } \\ \text { 37 } & \text { Misc Adj. (Open) } \\ \text { 38 } & \text { Net T\&D and General }\end{array}$
$\begin{array}{ll}26 & \text { T\&D/General Depn \& Amort }(\ln 19+\ln 26) \\ 27 & \\ 28 & \text { Gas Ratebase } \\ 29 & \text { Production \& Gas Storage } \\ \text { 30 } & \text { Transmission \& Distribution } \\ 31 & \text { General, Intangible, Other } \\ \text { 32 } & \text { Working Capital } \\ \text { 33 } & \text { Gas Ratebase } \\ \text { 34 } & \text { Less Production related } \\ \text { 35 } & \text { Less Working Capital } \\ \text { 36 } & \text { Total T\&D and General } \\ \text { 37 } & \text { Misc Adj. (Open) } \\ \text { 38 } & \text { Net T\&D and General }\end{array}$
$\begin{array}{ll}26 & \text { T\&D/General Depn \& Amort }(\ln 19+\ln 26) \\ 27 & \\ 28 & \text { Gas Ratebase } \\ 29 & \text { Production \& Gas Storage } \\ \text { 30 } & \text { Transmission \& Distribution } \\ 31 & \text { General, Intangible, Other } \\ \text { 32 } & \text { Working Capital } \\ \text { 33 } & \text { Gas Ratebase } \\ \text { 34 } & \text { Less Production related } \\ \text { 35 } & \text { Less Working Capital } \\ \text { 36 } & \text { Total T\&D and General } \\ \text { 37 } & \text { Misc Adj. (Open) } \\ \text { 38 } & \text { Net T\&D and General }\end{array}$

## Kroger ROE Adjustment For Revenue Decoupling Adjustment to Electric ERF

$\left.\begin{array}{|lllr|}\hline & & \\ & & \begin{array}{c}\text { PUGET SOUND ENERGY-ELECTRIC } \\ \text { EXPEDITED RATE FILING INCREASE }\end{array} \\ & \text { FOR THE TWELVE MONTHS ENDED JUNE 30, 2012 }\end{array}\right]$

PSE Proposed ERF Revenue Deficiency ${ }^{1}$

| $\begin{aligned} & \text { LINE } \\ & \text { NO. } \end{aligned}$ | PUGET SOUND ENERGY-ELECTRIC EXPEDITED RATE FILING INCREASE FOR THE TWELVE MONTHS ENDED JUNE 30, 2012 |  |  |
| :---: | :---: | :---: | :---: |
|  | DESCRIPTION | $\begin{aligned} & \text { EXPEDITED } \\ & \text { RATE FILING } \end{aligned}$ |  |
| 1 | RATE BASE | \$ | 2,621,991,642 |
| 2 | RATE OF RETURN |  | 7.80\% |
| 3 |  |  |  |
| 4 | OPERATING INCOME REQUIREMENT |  | 204,515,348 |
| 5 |  |  |  |
| 6 | RESTATED OPERATING INCOME |  | 184,563,096 |
| 7 | OPERATING INCOME DEFICIENCY |  | 19,952,252 |
| 8 |  |  |  |
| 9 | CONVERSION FACTOR |  | 0.620346 |
| 10 | REVENUE REQUIREMENT DEFICIENCY | \$ | 32,163,102 |

1. Data Source: PSE Exhibit No. $\qquad$ KJB-03, p. 1 of 3.

## Kroger ROE Adjustment For Revenue Decoupling Adjustment to Gas ERF

| $\begin{array}{\|l} \hline \text { LINE } \\ \text { NO. } \\ \hline \end{array}$ | PUGET SOUND ENERGY-GAS EXPEDITED RATE FILING INCREASE FOR THE TWELVE MONTHS ENDED JUNE 30, 2012 |  |  |
| :---: | :---: | :---: | :---: |
|  | DESCRIPTION |  | XPEDITED <br> TE FILING |
| 1 | RATE BASE | \$ | 1,592,297,567 |
| 2 | RATE OF RETURN |  | 7.68\% |
| 3 |  |  |  |
| 4 | OPERATING INCOME REQUIREMENT |  | 122,288,453 |
| 5 |  |  |  |
| 6 | RESTATED OPERATING INCOME |  | 124,969,751 |
| 7 | OPERATING NNCOME DEFICIENCY |  | $(2,681,297)$ |
| 8 |  |  |  |
| 9 | CONVERSION FACTOR |  | 0.620346 |
| 10 | REVENUE REQUIREMENT DEFICIENCY | \$ | $(4,322,261)$ |
| 11 | REDUCTION FROM PSE DEFICIENCY | \$ | $(3,082,124)$ |

PSE Proposed ERF Revenue Deficiency ${ }^{1}$

| $\begin{aligned} & \text { LINE } \\ & \text { NO. } \\ & \hline \end{aligned}$ | PUGET SOUND ENERGY-GAS EXPEDITED RATE FILING INCREASE FOR THE TWELVE MONTHS ENDED JUNE 30, 2012 |  |  |
| :---: | :---: | :---: | :---: |
|  | DESCRIPTION | EXPEDITED <br> RATE FILING |  |
| 1 | RATE BASE | \$ | 1,592,297,567 |
| 2 | RATE OF RETURN |  | 7.80\% |
| 3 |  |  |  |
| 4 | OPERATING INCOME REQUIREMENT |  | 124,199,210 |
| 5 |  |  |  |
| 6 | RESTATED OPERATING INCOME |  | 124,969,751 |
| 7 | OPERATING INCOME DEFICIENCY |  | $(770,540)$ |
| 8 |  |  |  |
| 9 | CONVERSION FACTOR |  | 0.621335 |
| 10 | REVENUE REQUIREMENT DEFICIENCY | \$ | $(1,240,137)$ |

1. Data Source: PSE Exhibit No. $\qquad$ KJB-04, p. 1 of 3.

# Kroger ROE Adjustment For Revenue Decoupling Kroger Proposed ERF Cost of Capital <br> Basis Point Reduction to ROE = 25 

| $\begin{array}{\|l} \text { LINE } \\ \text { NO. } \\ \hline \end{array}$ | PUGET SOUND ENERGY-ELECTRIC \& GAS <br> ADJUSTED PRO FORMA COST OF CAPITAL <br> FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2010 2011 GENERAL RATE INCREASE |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | DESCRIPTION | PRO FORMA CAPITAL \% | COST \% | COST OF CAPITAL |
| 1 | SHORT TERM DEBT | 4.00\% | 2.68\% | 0.11\% |
| 2 | LONG TERM DEBT | 48.00\% | 6.22\% | 2.99\% |
| 3 | PREFERRED | 0.00\% | 0.00\% | 0.00\% |
| 4 | EQUITY | 48.00\% | 9.55\% | 4.58\% |
| 5 | TOTAL | 100.00\% |  | 7.68\% |
| 6 |  |  |  |  |
| 7 | AFTER TAX SHORT TERM DEBT ( (LINE I)* 65\%) | 4.00\% | 1.74\% | 0.07\% |
|  | AFTER TAX LONG TERM DEBT ( (LINE 2)* 65\%) | 48.00\% | 4.04\% | 1.94\% |
| 9 | PREFERRED | 0.00\% | 0.00\% | 0.00\% |
| 10 | EQUITY | 48.00\% | 9.55\% | 4.58\% |
| 11 | TOTAL AFTER TAX COST OF CAPITAL | 100.00\% |  | 6.59\% |

PSE Proposed ERF Cost of Capital ${ }^{1}$

| Docket Number UE-111048 From Compliance Filing <br> PUGET SOUND ENERGY-ELECTRIC \& GAS <br> PRO FORMA COST OF CAPITAL <br> FOR THE TWELVE MONTHS ENDED DECEMBER 31, 2010 <br> 2011 GENERAL RATE INCREASE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { LINE } \\ & \text { NO. } \end{aligned}$ | DESCRIPTION | PRO FORMA CAPITAL \% | COST \% | COST OF <br> CAPITAL |
| 1 | SHORT TERM DEBT | 4.00\% | 2.68\% | 0.11\% |
| 2 | LONG TERM DEBT | 48.00\% | 6.22\% | 2.99\% |
| 3 | PREFERRED | 0.00\% | 0.00\% | 0.00\% |
| 4 | EQUITY | 48.00\% | 9.80\% | 4.70\% |
| 5 | TOTAL | 100.00\% |  | 7.80\% |
| 6 |  |  |  |  |
| 7 | AFTER TAX SHORT TERM DEBT ( (LINE 1)* 65\%) | 4.00\% | 1.74\% | 0.07\% |
| 8 | AFTER TAX LONG TERM DEBT ( (LINE 2)* 65\%) | 48.00\% | 4.04\% | 1.94\% |
| 9 | PREFERRED | 0.00\% | 0.00\% | 0.00\% |
| 10 | EQUITY | 48.00\% | 9.80\% | 4.70\% |
| 11 | TOTAL AFTER TAX COST OF CAPITAL | 100.00\% |  | 6.71\% |

1. Data Source: PSE Exhibit No. KJB-03 Electric ERF Workpaper.
Exhibit No. $\quad \begin{array}{r}\text { Page } 4 \text { of } 7\end{array}$

$$
\begin{aligned}
& \text { Kroger ROE Adjustment For Revenue Decoupling }
\end{aligned}
$$

|  | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Residential MWhs | 9,862,423 | 9,435,883 | 9,795,652 | 9,874,116 | 10,048,040 | 10,343,830 | 10,661,024 | 10,909,218 | 11,123,905 | 11,147,821 | 10,609,457 | 11,022,331 |
| Commercial MWhs | 7,677,194 | 7,953,165 | 8,012,539 | 8,222,167 | 8,449,565 | 8,647,478 | 8,939,155 | 9,226,215 | 9,453,940 | 9,488,763 | 9,100,518 | 9,181,261 |
| Industrial MWhs | 4,026,344 | 2,540,722 | 1,416,106 | 1,372,815 | 1,352,660 | 1,357,973 | 1,368,672 | 1,364,264 | 1,304,662 | 1,148,060 | 1,160,588 | 1,214,233 |
| Total Non-Residential MWhs | 11,703,538 | 10,493,887 | 9,428,645 | 9,594,982 | 9,802,225 | 10,005,451 | 10,307,827 | 10,590,479 | 10,758,602 | 10,636,823 | 10,261,106 | 10,395,494 |
| Residential Customers | 811,388 | 826,187 | 840,107 | 854,088 | 877,711 | 893,713 | 910,498 | 926,080 | 939,440 | 947,300 | 952,803 | 957,025 |
| Commercial Customers | 98,768 | 100,756 | 103,593 | 108,465 | 109,238 | 112,030 | 114,488 | 115,578 | 117,521 | 118,423 | 118,595 | 119,265 |
| Industrial Customers | 4,095 | 4,002 | 3,934 | 3,952 | 3,980 | 3,913 | 3,883 | 3,772 | 3,744 | 3,695 | 3,660 | 3,633 |
| Total Non-Residential Customers | 102,863 | 104,757 | 107,527 | 112,417 | 113,218 | 115,943 | 118,371 | 119,351 | 121,265 | 122,118 | 122,255 | 122,898 |
| Annual Usage Per Residential Customer (MWhs) | 12.155 | 11.421 | 11.660 | 11.561 | 11.448 | 11.574 | 11.709 | 11.780 | 11.841 | 11.768 | 11.135 | 11.517 |
| Annual Usage Per Commercial Customer (MWhs) | 77.729 | 78.935 | 77.346 | 75.805 | 77.350 | 77.189 | 78.080 | 79.827 | 80.445 | 80.126 | 76.736 | 76.982 |
| Annual Usage Per Industrial Customer (MWhs) | 983.294 | 634.942 | 359.981 | 347.409 | 339.836 | 347.04! | 352.486 | 361.666 | 348.498 | 310.699 | 317.129 | 334.269 |
| Annual Usage Per Residential Custamer (MWhs) | 12.155 | 11.421 | 11.660 | 11.561 | 11.448 | 11.574 | 11.709 | 11.780 | 11.841 | 11.768 | 11.135 | 11.517 |
| 12 Year Trend | 11.752 | 11.730 | 11.708 | 11.686 | 11.664 | 11.642 | 11.620 | 11.598 | 11.576 | 11.554 | 11.532 | 11.510 |
| Annual MWh Deviation from Trend | 0.403 | -0.309 | -0.048 | -0.125 | -0.216 | -0.068 | 0.089 | 0.182 | 0.265 | 0.214 | -0.397 | 0.008 |
| Annual \% Deviation from Trend | 3.43\% | -2.63\% | -0.41\% | -1.07\% | -1.85\% | -0.58\% | 0.77\% | 1.57\% | 2.29\% | 1.86\% | -3.44\% | 0.07\% |
| nnual Usage Per Non-Residential Customer (MWhs) |  |  | 87.686 | 85.352 | 86.578 | 86.296 | 87.081 | 88.734 | 88.720 | 87.103 | 83.932 | 84.587 |
| 10 Year Trend |  |  | 87.324 | 87.165 | 87.005 | 86.846 | 86.687 | 86.527 | 86.368 | 86.209 | 86.049 | 85.890 |
| Annual MWh Deviation from Trend |  |  | 0.362 | -1.812 | -0.427 | -0.550 | 0.394 | 2.207 | 2.352 | 0.894 | -2.117 | -1.303 |
| Annual \% Deviation from Trend |  |  | 0.42\% | -2.08\% | -0.49\% | -0.63\% | 0.46\% | 2.55\% | 2.72\% | 1.04\% | -2.46\% | -1.52\% |

* MWh totals reflect year end figures; customer counts for all classes reflect annual average
Data Sources:

1) Dockets $121697-121705$ PSE Resp Kroger DR4-002, Attach A \& B
2) 2013.02 .27 Workpapers JAP-12 JAP-14 JAP-16 JAP-18 JAP-22.xlsx
3) PSE Response to Public Counsel Data Request No. 105
Exhibit No.__(KCH-3)

$$
\begin{aligned}
& \begin{array}{l}
\text { 1. Data Source: Exhit KCH-3, p. } 7 \text { 2013.02.27 Workpapers JAP-11 JAP-15 JAP-17 JAP-19 JAP-23.xisx } \\
\text { 2. Data Source: PSE Workpaper } 20 \text {. } \\
\text { 3. Data Source: PSE Workpaper K.JB-04-WP Gas ERF.xlsx in Docket UE-130137/UG-130138 }
\end{array}
\end{aligned}
$$

Exhibit No．$\quad$ Page 7 of 7
$\begin{aligned} & \text { Kroger ROE Adjustment For Revenue Decoupling } \\ & \text { Summary of Annual Gas Usage Per Customer（Therms）}\end{aligned}$
$\begin{aligned} & \text { Kroger ROE Adjustment For Revenue Decoupling } \\ & \text { Summary of Annual Gas Usage Per Customer（Therms）}\end{aligned}$
$\begin{array}{cc}54,390 & 54,341 \\ 2,619 & 2,593 \\ 57.009 & 56.933 \\ & \\ 748.505 & 853.482 \\ 6,099.635 & 6,745.087 \\ 61,424.577 & 68,069.388\end{array}$

> 2010
> $\begin{gathered}2009 \\ 585,626,039\end{gathered}$
> $\begin{gathered}54,726 \\ 2,660 \\ 57.386 \\ 849.425 \\ 6,361.011 \\ 61,868.255\end{gathered}$

$$
\begin{aligned}
& \text { 会淢 }
\end{aligned}
$$

[^15]
Found Revenues: Accrual of PSE Delivery Revenues with Growing Customer Counts (Electric Example)

| $\begin{aligned} & \text { Line } \\ & \text { No. } \end{aligned}$ |  | May 1, 2013-April 30, 2014 |  | May 1, 2014-April 30, 2015 |  | May 1, 2015-April 30, 2016 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Residential | Non-ResIdential Schedules | Residential | NonResidential Schedules | Residentia! | NonResidential Schedules |
|  | 2013 Allowed Volumetric Delivery Revenue Per Customer (as Filed by PSE) | \$303.37 | \$1,791.41 | \$315.38 | \$1,852.79 | \$327.75 | \$1,916.01 |
| 2 | Forecasted Rate Year Customer Count (as Filed by PSE) | 963.047 | 122.833 | 980,677 | 124,707 | 1,000, 2/8 | 126,876 |
| 3 | Forecasted Rate Year Usage per Customer (kWhis) | 10,987 | 85,281 | 10,987 | 85,281 | 10,987 | 85,281 |
| 4 | Estimated Recoverable Volumetric Delivery Revenue | \$292,159.612 | \$220,043,840 | \$309,286,008 | \$231,055,062 | \$327,821,562 | \$243,095,759 |
| 5 | Forecasted Rate Year Base Sales (kWh) | 10,580,952,000 | 10,475,312,000 | 10,774,653,716 | 10,635,111,210 | 10,989,350,164 | 10,820,126.982 |
| 6 | Rate Year Volumetric Delivery Revenue Per Unit (\$/kWh) | \$0.027612 | \$0.021006 | \$0.028705 | \$0.021726 | $\mathbf{\$ 0 . 0 2 9 8 3 1}$ | \$0.022467 |
|  |  | Estimated Delivery Revenues based on a $4 \%$ Annual Increase in Customer Count |  |  |  |  |  |
|  |  | May 1, 2013-April 30, 2014 |  | May 1, 2014-April 30, 2015 |  | May 1, 2015-April 30, 2016 |  |
|  |  | Residential | Non-Residential Schedules | Residential | Non- Residential Schedules | Residential | Residential Schedules |
| 7 | 2013 Allowed Volumetric Delivery Revenue Per Customer (as Filed by PSE) | \$303.37 | \$1,791.41 | \$315.38 | \$1,852.79 | \$327.75 | \$1,916.01 |
| 8 | Hypotherical Forecasted Rate Year Customer Count | 1,001,569 | 127.746 | 1,041,632 | 132,856 | 1,083,297 | 138,170 |
| 9 | Forecasted Rate Year Usage per Customer (kWhs) | 10,987 | 85,281 | 10,987 | 85,281 | 10,987 | 85,281 |
| 10 | Estimated Recoverable Volumetric Delivery Revenue | \$303,845,997 | \$228,845,594 | \$328,509,834 | \$246,154,113 | \$355,050,612 | \$264,735,395 |
| 11 | Forecasted Rate Year Base Sales (kWh) | 11,004,190,080 | 10,894,324,480 | $\underline{11,444,357,683}$ | 11,330,097,459 | 11,902,131.991 | 11.783.301.358 |
| 12 | Rate Year Volumetric Delivery Revenue Per Unit (\$/kWh) | \$0.027612 | \$0.021006 | S0.028705 | \$0.021726 | S0.029831 | \$0.022467 |
| 13 | Difference in Recoverable Volumetric Delivery Revenue | \$11,686,384 | 58,801,754 | \$19,223,826 | \$15,099,051 | \$27,229,050 | \$21,639,636 |
| 14 | Difference in Volumetric Delivery Revenue Per Unit | \$0.00 | S0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |

Data Source: 2013.02.27 Workpapers JAP-12 JAP-14 JAP-16 JAP-18 JAP-22.xisx

## CERTIFICATE OF SERVICE

I hereby certify that I have this day served a copy of the parties listed on the attached Certificate of Service by regular U.S. mail and electronic mail (when available) this $26^{\text {th }}$ day of April, 2013 .


Kurt J. Boehm, Esq.
Jody Kyler Cohn, Esq.

## MASTER SERVICE LIST

As of: 4/26/2013
Docket: 130137
Original MSL Date: 2/4/2013

| Status | Name and Address | Phone \& Fax | Added | By |
| :--- | :--- | :--- | :--- | :--- |
| Assistant Attorney | Brown, Sally | Tel: (360) 664-1193 | 2/13/2013 | Higgins, Joni |
| General | Assistant Attorney General | Fax: (360) 586-5522 |  |  |
|  | WUTC |  |  |  |
|  | PO Box 40128 |  |  |  |
|  | Olympia, WA 98504-0128 |  |  |  |


| Intervenor■s | Stokes, Chad M | Tel: (503) 232-2757 | 3/22/2013 | Higgins, Joni |
| :--- | :--- | :--- | :--- | :--- |
| Counsel or | Attorney | Fax: (503) 224-3176 |  |  |
| Representative | Cable Huston Benedick |  |  |  |
| Representing: | Haagensen \& Lloyd, LLP |  |  |  |
| Northwest | 1001 SW 5th Avenue STE 2000 |  |  |  |
| Industrial Gas | Portland, OR 97204 |  |  |  |
| Users | cstokes@cablehuston.com |  |  |  |


| Intervenor $\square$ s | Roseman, Ronald L | Tel: (206) 324-8792 | 3/18/2013 | Higgins, Joni |
| :--- | :--- | :--- | :--- | :--- |
| Counsel or | Attorney At Law | Fax: (206) 568-0138 |  |  |
| Representative | 2011-14th Avenue East |  |  |  |
|  | Seattle, WA 98112 |  |  |  |


| Intervenor $\square$ s | Xenopoulos, Damon E | Tel: (202) 342-0800 | 3/22/2013 | Higgins, Joni |
| :--- | :--- | :--- | :--- | :--- |
| Counsel or | Brickfield, Burchette, Ritts \& | Fax: (202) 342-0807 |  |  |
| Representative | Stone, P.C. |  |  |  |
| Representing: | 1025 Thomas Jefferson Street |  |  |  |
| Nucor Steel | NW; Eighth Floor-West Tower |  |  |  |
| Seattle, Inc. | Washington, DC 20007 |  |  |  |
|  | dex@bbrslaw.com |  |  |  |


| Intervenor | Nucor Steel Seattle, Inc. <br> Nucor Steel | $3 / 28 / 2013$ | Higgins, Joni |
| :--- | :--- | ---: | :--- |
|  | 2424 SW Andover |  |  |
|  | Seattle, WA 98106-1100 |  |  |


| Intervenor | Finklea, Ed | Tel: (503) 303-4061 | 3/22/2013 Higgins, Joni |  |
| :--- | :--- | :--- | :--- | :--- |
|  | Executive Director | Fax: (503) 303-4941 |  |  |
|  | NORTHWEST INDUSTRIAL |  |  |  |
|  | GAS USERS |  |  |  |
|  | 326 Fifth Street |  |  |  |
|  | Lake Oswego, OR 97034 |  |  |  |


| Intervenor $\square$ | Boehm, Kurt J | Tel: (513) 421-2255 | 4/4/2013 | Higgins, Joni |
| :--- | :--- | :--- | :--- | :--- |
| Counsel or | Attorney | Fax: (513) 421-2764 |  |  |
| Representative | Boehm, Kurtz \& Lowry |  |  |  |
| Representing: The | 36 E. Seventh St. STE 1510 |  |  |  |
| Kroger Co. | Cincinnati, OH 45202 |  |  |  |
| Quality Food | kboehm@BKLlawfirm.com |  |  |  |
| Center, Inc. |  |  |  |  |
| Fred Meyer Stores, |  |  |  |  |
| Inc. |  |  |  |  |


| Public Counsel | ffitch, Simon <br> Office of the Attorney General 800 Fifth Avenue STE 2000 Seattle, WA 98104-3188 simonf@atg.wa.gov | $\begin{aligned} & \text { Tel: (206) 389-2055 } \\ & \text { Fax: (206) 464-6451 } \end{aligned}$ | 2/4/2013 | Higgins, Joni |
| :---: | :---: | :---: | :---: | :---: |
| Intervenor | Quality Food Centers, Inc. Quality Food Centers, Inc. 10116 N.E. 8th Street Bellevue, WA 98004 |  | 4/4/2013 | Higgins, Joni |
| Intervenor $\square$ Counsel or Representative | Davison, Melinda Attorney Davison Van Cleve 333 S.W. Taylor STE 400 Portland, OR 97204 mail@dvclaw.com | $\begin{aligned} & \text { Tel: (503) 241-7242 } \\ & \text { Fax: (503) 241-8160 } \end{aligned}$ | 2/6/2013 | Higgins, Joni |


| Intervenor | Carr, John $3 / 28 / 2013$ Higgins, Joni <br> Industrial Customers of   <br>  Northwest Utilities  <br>  818 SW 3rd Avenue \# 266  <br>  Portland, OR 97204  <br>  jcarr@icnu.org  |  |
| :--- | :--- | ---: | :--- |


| Applicant | Johnson, Ken <br> Director, Rates \& Regulatory <br> Affairs <br> Puget Sound Energy (E012) | Tel: (425) 462-3495 <br> Fax: (425) 462-3414 | 2/4/2013 | Higgins, Joni |
| :--- | :--- | :--- | :--- | :--- |
|  | PO BOX 97034, , SSE-08N <br> Bellevue, WA 98009-9734 <br> ken.s.johnson@pse.com |  |  |  |
| Intervenor | The Kroger Co. |  |  |  |
|  | The Kroger Co. | Tel: (513) 762-4538 | 4/4/2013 | Higgins, Joni |
|  | 1014 Vine Street |  |  |  |
| Cincinnati, OH 45202 | Fax: (513) 762-4012 |  |  |  |
|  |  |  |  |  |


| Intervenor | Eberdt, Charles M | Tel: (360) 255-2169 | 3/18/2013 | Higgins, Joni |
| :--- | :--- | :--- | :--- | :--- |
|  | Manager | Fax: (360) 671-2753 |  |  |
|  | The Energy Project |  |  |  |
|  | 3406 Redwood Ave |  |  |  |
|  | Bellingham, WA 98225 |  |  |  |


| Intervenor | Fred Meyer Stores, Inc. | $4 / 4 / 2013$ | Higgins, Joni |
| :--- | :--- | :--- | :--- | :--- |
|  | Fred Meyer Stores, Inc. |  |  |
|  | 3800 Southeast 2nd Street |  |  |
|  | Portland, OR 99202 |  |  |


| Applicant $\square$ s Counsel or Representative | Carson, Sheree <br> Perkins Coie, LLP <br> 10885 N.E. Fourth Street STE <br> 700 <br> Bellevue, WA 98004-5579 <br> scarson@perkinscoie.com | $\begin{aligned} & \text { Tel: (425) 635-1400 } \\ & \text { Fax: (425) } 635-2400 \end{aligned}$ | 3/18/2013 | Higgins, Joni |
| :---: | :---: | :---: | :---: | :---: |
| Intervenor | Furuta, Norman <br> Associate Counsel Department of the Navy 1455 Market Street STE 1744 San Francisco, CA 94103-1399 norman.furuta@navy.mil | Tel: (415) 503-6994 Fax: (415) 503-6688 | 3/22/2013 | iggins, Joni |

## MASTER SERVICE LIST

As of: 4/26/2013
Docket: 121697
Original MSL Date: 10/26/2012

| Status | Name and Address | Phone \& Fax | Added | By |
| :---: | :---: | :---: | :---: | :---: |
| Assistant Attorney General | Brown, Sally <br> Assistant Attorney General WUTC <br> PO Box 40128 <br> Olympia, WA 98504-0128 <br> sbrown@utc.wa.gov | $\begin{aligned} & \text { Tel: (360) 664-1193 } \\ & \text { Fax: (360) 586-5522 } \end{aligned}$ | 2/13/2013 | Higgins, Joni |
| Intervenor $\square \mathbf{s}$ Counsel or Representative | Stokes, Chad M Attorney <br> Cable Huston Benedick <br> Haagensen \& Lloyd, LLP <br> 1001 SW 5th Avenue STE 2000 <br> Portland, OR 97204 <br> cstokes@cablehuston.com | $\begin{aligned} & \text { Tel: (503) 232-2757 } \\ & \text { Fax: (503) 224-3176 } \end{aligned}$ | 11/2/2012 | Higgins, Joni |
| Petitioner $\square \mathbf{s}$ Counsel or Representative | Goodin, Amanda <br> Earthjustice <br> 705 Second Avenue STE 203 <br> Seattle, WA 98104 <br> agoodin@earthjustice.org | $\begin{aligned} & \text { Tel: 206-343-7340 } \\ & \text { Fax: 206-343-1526 } \end{aligned}$ | 10/26/2012 | Wyse, Lisa |
| Intervenor $\square$ s Counsel or Representative Representing: The Energy Project | Roseman, Ronald L Attorney At Law 2011-14th Avenue East Seattle, WA 98112 ronaldroseman@comcast.net | Tel: (206) 324-8792 Fax: (206) 568-0138 | 3/18/2013 | Higgins, Joni |


| Intervenor | Finklea, Ed | Tel: (503) 303-4061 | 11/2/2012 | Higgins, Joni |
| :--- | :--- | :--- | :--- | :--- |
|  | Executive Director | Fax: (503) 303-4941 |  |  |
|  | NORTHWEST INDUSTRIAL |  |  |  |
|  | GAS USERS |  |  |  |
|  | 326 Fifth Street |  |  |  |
|  | Lake Oswego, OR 97034 |  |  |  |
|  | efinklea@nwigu.org |  |  |  |


| Intervenor■s | Boehm, Kurt J | Tel: (513) 421-2255 | 12/12/2012 Higgins, Joni |
| :--- | :--- | :--- | :--- |
| Counsel or | Attorney | Fax: (513) 421-2764 |  |
| Representative | Boehm, Kurtz \& Lowry |  |  |
|  | 36 E. Seventh St. STE 1510 |  |  |
|  | Cincinnati, OH 45202 |  |  |
|  | kboehm@BKLlawfirm.com |  |  |


| Public Counsel | ffitch, Simon Office of the Attorney General 800 Fifth Avenue STE 2000 Seattle, WA 98104-3188 simonf@atg.wa.gov | $\begin{aligned} & \text { Tel: (206) 389-2055 } \\ & \text { Fax: (206) 464-6451 } \end{aligned}$ | 3/22/2013 | Whipple, Amanda |
| :---: | :---: | :---: | :---: | :---: |
| Intervenor $\square$ s Counsel or Representative | Davison, Melinda Attorney Davison Van Cleve 333 S.W. Taylor STE 400 Portland, OR 97204 mail@dvclaw.com | $\begin{aligned} & \text { Tel: (503) 241-7242 } \\ & \text { Fax: (503) } 241-8160 \end{aligned}$ | 1/8/2013 | Wyse, Lisa |
| Intervenor | Carr, John Industrial Customers of Northwest Utilities 818 SW 3rd Avenue \# 266 Portland, OR 97204 jcarr@icnu.org |  | 3/28/2013 | Higgins, Joni |
| Petitioner | Johnson, Ken <br> Director, Rates \& Regulatory Affairs <br> Puget Sound Energy (E012) PO BOX 97034, PSE-08N Bellevue, WA 98009-9734 ken.s.johnson@pse.com | $\begin{aligned} & \hline \text { Tel: (425) 462-3495 } \\ & \text { Fax: (425) 462-3414 } \end{aligned}$ | 10/26/2012 | Wyse, Lisa |
| Intervenor | The Kroger Co. The Kroger Co. 1014 Vine Street Cincinnati, OH 45202 | $\begin{aligned} & \text { Tel: (513) 762-4538 } \\ & \text { Fax: (513) 762-4012 } \end{aligned}$ | 3/28/2013 | Higgins, Joni |
| Intervenor | Eberdt, Charles M Manager <br> The Energy Project 3406 Redwood Ave Bellingham, WA 98225 CHUCK_EBERDT@oppco.org | $\begin{aligned} & \text { Tel: (360) 255-2169 } \\ & \text { Fax: (360) 671-2753 } \end{aligned}$ | 3/18/2013 | Higgins, Joni |
| Petitioner $\square$ Counsel or Representative | Carson, Sheree <br> Perkins Coie, LLP <br> 10885 N.E. Fourth Street STE 700 <br> Bellevue, WA 98004-5579 <br> scarson@perkinscoie.com | $\begin{aligned} & \text { Tel: (425) 635-1400 } \\ & \text { Fax: (425) 635-2400 } \end{aligned}$ | 10/26/2012 Wyse, Lisa |  |


| Intervenor | Furuta, Norman <br> Associate Counsel Department of the Navy 1455 Market Street STE 1744 San Francisco, CA 94103-1399 norman.furuta@navy.mil | Tel: (415) 503-6994 Fax: (415) 503-6688 | 3/21/2013 | Higgins, Joni |
| :---: | :---: | :---: | :---: | :---: |
| Petitioner | Hirsh, Nancy NORTHWEST ENERGY COALITION 811 First Ave. STE 305 Seattle, WA 98104 |  | 3/28/2013 | Higgins, Joni |


[^0]:    ${ }^{1}$ Nucor Exhibit No. _ (KCH-5T).

[^1]:    ${ }^{2}$ Supplemental direct testimony of Katherine J. Barnard, p. 7.
    ${ }^{3}$ Ibid., p. 11.

[^2]:    ${ }^{4}$ The proposed exceptions are gas lighting, gas water heater rental, electric lighting, and electric retail wheeling. The rates for these classes, however, would be subject to the proposed K-factor increases. Gas customers served under special contracts are also excluded from the decoupling proposal.

[^3]:    ${ }^{5}$ Supplemental direct testimony of Katherine J. Barnard, p. 7.
    Prefiled Response Testimony of Kevin C. Higgins

[^4]:    ${ }^{6}$ This can be calculated from the information in PSE Exhibit No._(KJB-3). A similar impact occurs for the gas K-factor calculated by Ms. Barnard which would be reduced to 1.0299 .
    ${ }^{7}$ This exhibit also presents a comparable recalculation of the K-factor for gas (pp. 3-4).

[^5]:    ${ }^{8}$ Direct testimony of Jon A. Piliaris, p. 15.
    ${ }^{9}$ PSE Decoupling Exhibit No._(JAP-5).

[^6]:    ${ }^{10}$ Supplemental direct testimony of Jon A. Piliaris, p. 19.
    ${ }^{11}$ Order No. 81517, Case No. 9092, In the Matter of the Application of Potomac Electric Power Company for Authority to Revise its Rates and Charges for Electric Service and for Certain Rate Design Changes. Order at 72.
    ${ }^{12}$ Order No. 81518, Case No. 9093, In the Matter of the Application of Delmarva Power and Light Company for Authority to Revise its Rates and Charges for Electric Service and for Certain Rate Design Changes. July 19, 2007.

[^7]:    ${ }^{13}$ Order No. 15556, Formal Case No. 1053, In the Matter of the Application of the Potomac Electric Power Company for Authority to Increase Existing Retail Rates and Charges for Electric Distribution Service. Order at 9.
    ${ }^{14}$ Docket No. 09-00183, Petition of Chattanooga Gas Company for a General Rate Increase, Implementation of the EnergySMART Conservation Programs and Implementation of a Revenue Decoupling Mechanism. Order at 45.
    ${ }^{15}$ Docket No. 09-04003, Opening findings of fact and conclusions of law, Application of Southwest Gas Corporation for authority to increase its rates and charges for natural gas service for all classes of customers in Southern and Northern Nevada. November 3, 2009.

[^8]:    ${ }^{16}$ Case 07-G-0141, Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of National Fuel Gas Distribution Corporation for Gas Service. Order at 40-41. December 21, 2007.
    ${ }^{17}$ Case 08-G-1392, Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of St. Lawrence Gas Company, Inc. for Gas Service.
    ${ }^{18}$ Docket No. 07-0241, North Shore Gas Company: Proposed general increase in natural gas rates; Docket No. 07-0242, The Peoples Gas Light and Coke Company: Proposed general increase in natural gas rates (Consolidated). Order at 99.
    ${ }^{19}$ D.P.U. 10-70, Petition of Western Massachusetts Electric Company, pursuant to G.L. c. 164,§94 and 220 C.M.R. $\$ \S 5.00$ et seq. for Approval of a General Increase in Electric Distribution Rates and a Revenue Decoupling Mechanism. Order at 283.

[^9]:    ${ }^{20}$ Order No. 09-020, Docket No. UE 197, In the Matter of Portland General Electric Company, Request for a General Rate Revision. January 22, 2009. Order at 29.

[^10]:    ${ }^{21}$ Docket Nos. UE-111048 and UG-111049.

[^11]:    ${ }^{22}$ Michigan Public Service Commission, Case No. U-15768.

[^12]:    ${ }^{23}$ Michigan Public Service Commission, Case No. U-16472. Pre-filed direct testimony of Don M. Stanczak, pp. 14-16, October 29, 2010.

[^13]:    ${ }^{24}$ See for example, PSE Exhibit No.__(JAP-22), p. 2, lines 5-7.

[^14]:    ${ }^{25}$ PSE Response to Kroger Data Request 3-003.
    Prefiled Response Testimony of Kevin C. Higgins

[^15]:    ＊Thern totals reflect year end figures；customer counts for all classes reflect annual average
    Data Sources：
    1）Dockets 121697 －121705 PSE Resp Kroger DR4－003，Attach A
    2） 2013.02 .27 Workpapers JAP－11 JAP－15 JAP－17 JAP－19 JAP－23．xisx

