

Exhibit No. ____ (DCP-1T)
Dockets UE-121697, et al.
Witness: David C. Parcell

**BEFORE THE WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

**DOCKETS UE-121697 and
UG-121705 (*consolidated*)**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY, INC.

Respondent.

**DOCKETS UE-130137 and
UG-130138 (*consolidated*)**

TESTIMONY

OF

DAVID C. PARCELL

**ON BEHALF OF THE STAFF OF WASHINGTON UTILITIES
AND TRANSPORTATION COMMISSION**

Cost of Common Equity

December 3, 2014

TABLE OF CONTENTS

I.	INTRODUCTION.....	1
II.	RECOMMENDATIONS AND SUMMARY	3
III.	ECONOMIC/LEGAL PRINCIPLES AND METHODOLOGIES	4
IV.	PUGET SOUND ENERGY’S OPERATIONS AND BUSINESS RISKS.....	8
V.	CAPITAL STRUCTURE.....	10
VI.	SELECTION OF PROXY GROUPS.....	12
VII.	DISCOUNTED CASH FLOW ANALYSIS.....	14
VIII.	CAPITAL ASSET PRICING MODEL ANALYSIS.....	18
IX.	COMPARABLE EARNINGS ANALYSIS.....	22
X.	RETURN ON EQUITY RECOMMENDATION	27

LIST OF EXHIBITS

Exhibit No. ____ (DCP-2)	Background and Experience Profile
Exhibit No. ____ (DCP-3)	PSE History of Credit Ratings
Exhibit No. ____ (DCP-4)	PSE Capital Structure Ratios
Exhibit No. ____ (DCP-5)	AUS Utility Reports Electric Utility Groups Average Common Equity Ratios
Exhibit No. ____ (DCP-6)	Proxy Companies Basis for Selection
Exhibit No. ____ (DCP-7)	Proxy Companies DCF Cost Rate
Exhibit No. ____ (DCP-8)	Standard & Poor's 500 Composite Risk Premiums
Exhibit No. ____ (DCP-9)	Proxy Companies CAPM Cost Rates
Exhibit No. ____ (DCP-10)	Proxy Companies Rates of Return on Average Common Equity and Market-to-Book Ratios
Exhibit No. ____ (DCP-11)	Standard & Poor's 500 Composite Returns on Equity and Market-to-Book Ratios
Exhibit No. ____ (DCP-12)	Risk Indicators
Exhibit No. ____ (DCP-13)	Allowed Return on Equity and Common Equity Ratios for Electric Utilities in 2012 and 2013

I. INTRODUCTION

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Q. Please state your name, occupation, and business address.

A. My name is David C. Parcell. I am President and Senior Economist of Technical Associates, Inc. My business address is Suite 580, 9030 Stony Point Parkway, Richmond, Virginia 23235.

Q. Please summarize your educational background and professional experience.

A. I hold B.A. (1969) and M.A. (1970) degrees in economics from Virginia Polytechnic Institute and State University (Virginia Tech) and an M.B.A. (1985) from Virginia Commonwealth University. I have been a consulting economist with Technical Associates since 1970. I have provided cost of capital testimony in public utility ratemaking proceedings dating back to 1972. In this regard, I have previously filed testimony and/or testified in over 500 utility proceedings before about 50 regulatory agencies in the United States and Canada. I have previously filed testimony on behalf of Commission Staff in proceedings involving Puget Sound Energy, Avista Corp., and PacifiCorp. Exhibit No. ____ (DCP-2) provides a more complete description of my education and relevant work experience.

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

A. I have been retained by the Staff of the Washington Utilities and Transportation Commission (“Commission”) to provide analyses and recommendation of the cost of

1 common equity for Puget Sound Energy, Inc. (“PSE”), relative to the early 2013 time
2 period.

3
4 **Q. Please indicate why your analyses of PSE’s cost of equity were performed within an**
5 **early 2013 timeframe.**

6 A. The filings underlying these proceedings were made in early 2013, and included an
7 Expedited Rate Filing (ERF) and an amended Decoupling proposal for both of PSE’s
8 electric and natural gas distribution operations. It is my understanding that the
9 Commission entered its Final Order (Order 07) on June 25, 2013. It is also my
10 understanding that Order 07 was reversed, in part, by the Superior Court in Thurston
11 County on grounds that, in the Decoupling and ERF proceedings, the Commission should
12 have considered the same type of evidence of PSE’s cost of equity that the Commission
13 typically considers in a general rate case.

14 It is also my understanding that Staff testimony in that proceeding, which did not
15 include cost of capital/cost of equity issues, was scheduled to be filed in March 2013. As
16 a result, my analyses primarily focus on the three-month period January–March, 2013.
17 As such, my cost of equity analyses are performed in a time frame consistent with one I
18 would have used if I had testified in that proceeding in 2013. I also note that the
19 Commission’s Order 10 in this proceeding (paragraph 24) cites an expectation that the
20 parties will “provide focused and detailed analyses such as would have informed a
21 determination of return on equity in early 2013. . . .”

22

1 **Q. Have you prepared any exhibits in support of your testimony?**

2 A. Yes. In addition to Exhibit No. ____ (DCP-2), identified above, I have prepared Exhibit
3 Nos. ____ (DCP-3) through (DCP-13). These exhibits were prepared either by me or
4 under my direction. The information contained in these exhibits is correct to the best of
5 my knowledge and belief.

6
7 **II. RECOMMENDATIONS AND SUMMARY**

8
9 **Q. Please summarize your cost of equity analyses and related conclusions for PSE.**

10 A. This proceeding is concerned with PSE's regulated electric utility and natural gas
11 distribution operations in Washington, as of early 2013. In my analyses, I interpret "early
12 2013" as the three month period January–March 2013. I have employed three recognized
13 methodologies to estimate the cost of equity for PSE.

14 Each of these methodologies is applied to three groups of proxy utilities. The first
15 group is compiled of publicly-traded electric utilities (or holding companies) that I have
16 selected based on operating and risk characteristics that are similar to PSE (as of early
17 2013). The second group is the group of utilities employed by the Industrial Customers
18 of Northwest Utilities (ICNU) witness Gorman in his April 26, 2013 Response
19 Testimony in this proceeding. The third group is the combination electric and gas
20 utilities sample group used by PSE witness Morin in his November 5, 2014 Direct
21 Testimony. These three methodologies and my findings are:

22

<u>Methodology</u>	<u>Range</u>	<u>Mid-Point</u>
Discounted Cash Flow	9.1–9.7%	9.4%
Capital Asset Pricing Model	6.5–6.8%	6.7%
Comparable Earnings	9.0–10.0%	9.5%

23

1 Based upon these findings, I conclude that the cost of common equity for PSE, as of early
2 2013, was within a range of 9.0 percent to 10.0 percent. This range approximates the
3 respective end-points of the DCF and CE analyses. Within this range, I recommend the
4 mid-point value, or 9.5 percent. I note, on the other hand, that my range does include the
5 9.8 percent return on equity authorized by the Commission in Order 08 in Dockets UE-
6 111048 and UG-111049 and maintained in Order 07 in this proceeding.

7
8 **III. ECONOMIC/LEGAL PRINCIPLES AND METHODOLOGIES**

9
10 **Q. What are the primary economic and legal principles that establish the standards for**
11 **determining a fair rate of return for a regulated utility?**

12 A. Public utility rates are normally established in a manner designed to allow the recovery of
13 their costs, including capital costs. This is frequently referred to as “cost of service”
14 ratemaking. Rates for regulated public utilities traditionally have been primarily
15 established using the “rate base–rate of return” concept. Under this method, utilities are
16 allowed to recover a level of operating expenses, taxes, and depreciation deemed
17 reasonable for rate-setting purposes, and are granted an opportunity to earn a fair rate of
18 return on the assets that are used and useful (i.e., rate base) in providing service to their
19 customers.

20 The rate base is derived from the asset side of the utility’s balance sheet as a
21 dollar amount and the rate of return is developed from the liabilities/owners’ equity side
22 of the balance sheet as a percentage. The revenue impact of the cost of capital is thus
23 derived by multiplying the rate base by the rate of return (including income taxes).

1 The rate of return is developed from the cost of capital, which is estimated by
2 weighting the capital structure components (i.e., debt, preferred stock, and common
3 equity) by their percentages in the capital structure and multiplying these by their cost
4 rates. This is also known as the weighted cost of capital.

5 Technically, “fair rate of return” is a legal and accounting concept that refers to an
6 *ex post* (after the fact) earned return on an asset base, while the cost of capital is an
7 economic and financial concept which refers to an *ex ante* (before the fact) expected or
8 required return on a liability base. In regulatory proceedings, however, the two terms are
9 often used interchangeably, as I do in my testimony.

10 From an economic standpoint, a fair rate of return is normally interpreted to mean
11 that an efficient and economically managed utility will be able to maintain its financial
12 integrity, attract capital, and establish comparable returns for similar risk investments.
13 These concepts are derived from economic and financial theory and are generally
14 implemented using financial models and economic concepts.

15 Although I am not a lawyer and I do not offer a legal opinion, my testimony is
16 based on my understanding that two United States Supreme Court decisions provide the
17 main standards for a fair rate of return. The first decision is *Bluefield Water Works and*
18 *Improvement Co. v. Public Serv. Comm’n of West Virginia*, 262 U.S. 679 (1923). In this
19 decision, the Court stated:

20 What annual rate will constitute **just compensation** depends upon many
21 circumstances and must be **determined by the exercise of fair and**
22 **enlightened judgment**, having regard to all relevant facts. A public
23 utility is entitled to such rates as will permit it to **earn a return** on the
24 value of the property which it employs for the convenience of the public
25 equal to that **generally being made** at the same time and in the same
26 general part of the country on **investments in other business**
27 **undertakings** which are **attended by corresponding risks and**

1 **uncertainties**; but it has no **constitutional right to profits** such as are
2 realized or anticipated in **highly profitable enterprises or speculative**
3 **ventures**. The **return** should be reasonably sufficient to assure
4 confidence in the **financial soundness** of the utility, and should be
5 adequate, **under efficient and economical management**, to maintain and
6 **support its credit** and **enable it to raise the money** necessary for the
7 proper discharge of its public duties. A rate of return may be reasonable at
8 one time, and become too high or too low by changes affecting
9 opportunities for investment, the money market, and business conditions
10 generally. (Emphasis added.)
11

12 It is my understanding that the *Bluefield* decision established the following standards for
13 a fair rate of return: comparable earnings, financial integrity, and capital attraction. It
14 also noted the changing level of required returns over time as well as an underlying
15 assumption that the utility be operated in an efficient manner.

16 The second decision is *Federal Power Comm'n v. Hope Natural Gas Co.*, 320
17 U.S. 591 (1942). In that decision, the court stated:

18 The rate-making process under the [Natural Gas] Act, i.e., the fixing of
19 ‘just and reasonable’ rates, involves a **balancing** of the **investor** and
20 **consumer interests** From the investor or company point of view it is
21 important that there be enough revenue not only for operating expenses
22 but also for the capital costs of the business. These include service on the
23 debt and dividends on the stock. By that standard the **return** to the equity
24 **owner** should be **commensurate** with **returns on investments in other**
25 **enterprises having corresponding risks**. That return, moreover, should
26 be sufficient to assure confidence in the **financial integrity** of the
27 enterprise, so as to **maintain its credit** and to **attract capital**. (Emphasis
28 added.)
29

30 The *Hope* case is also frequently credited with establishing the “end result” doctrine,
31 which maintains that the methods utilized to develop a fair return are not as important as
32 long as the end result is reasonable.

33 The three economic and financial parameters in the *Bluefield* and *Hope*
34 decisions—comparable earnings, financial integrity, and capital attraction—reflect the
35 economic criteria encompassed in the “opportunity cost” principle of economics. The

1 opportunity-cost principle provides that a utility and its investors should be afforded an
2 opportunity (not a guarantee) to earn a return commensurate with returns they could
3 expect to achieve on investments of similar risk. The opportunity cost principle is
4 consistent with the fundamental premise on which regulation rests, namely, that
5 regulation is intended to act as a surrogate for competition.

6
7 **Q. How can these parameters be employed to estimate the cost of capital for a utility?**

8 A. Neither the courts nor economic/financial theory have developed exact and mechanical
9 procedures for precisely determining the cost of capital. This is the case because the cost
10 of capital is an opportunity cost and is prospective-looking, which dictates that it must be
11 estimated.

12 There are several useful models that can be employed to assist in estimating the
13 cost of equity capital, which is the capital structure item that is the most difficult to
14 determine. These include the Discounted Cash Flow (“DCF”), Capital Asset Pricing
15 Model (“CAPM”), Comparable Earnings (“CE”) and Risk Premium (“RP”) methods.
16 Each of these methods (or models) differs from the others and each, if properly
17 employed, can be a useful tool in estimating the cost of common equity for a regulated
18 utility.

19
20 **Q. Which methods have you employed in your analyses of the cost of common equity in
21 this proceeding?**

22 A. I have utilized three methodologies to determine PSE’s cost of common equity: the DCF,
23 CAPM, and CE methods. For reasons I will explain later in my testimony, I have not

1 strictly employed a RP model in my analyses, although, as I indicate later, my CAPM
2 analysis is a form of the RP methodology. Each of these methodologies will be described
3 in more detail in my testimony that follows.

4
5 **IV. PUGET SOUND ENERGY'S OPERATIONS AND BUSINESS RISKS**

6
7 **Q. Please describe PSE and its operations.**

8 A. PSE is a regulated combination electric and natural gas utility that generates, transmits
9 and distributes electricity to some one million customers and natural gas to over 700,000
10 customers in the Puget Sound area of Western Washington.

11
12 **Q. Please describe PSE's ownership structure.**

13 A. PSE is a subsidiary of Puget Energy ("PE"), which was formed in 1997 by the merger of
14 Puget Sound Power and Light Company and Washington Energy Company (parent of
15 Washington Natural Gas Co.). PE existed as a publicly-traded entity until 2009, when it
16 was acquired by a group of foreign investors (Macquarie Group) in a leveraged private
17 equity buyout. PE is now a Washington-based holding company whose operations are
18 conducted through PSE.

19
20 **Q. What were the "early 2013" security ratings of PSE?**

21 A. The "early 2013" ratings of PSE were as follows:
22

Rating Agency	Issuer Rating	Senior Secured
Moody's	Baa2	A3
S&P	BBB	A-

(Source: Response to UTC Staff Data Request No. 3).

As this indicates, PSE had “split” single A/triple B ratings in early 2013.

Q. What have been the recent trends in PSE’s debt ratings?

A. This is shown on Exhibit No. ____ (DCP-3). Each of PSE’s debt ratings increased by at least one “notch” over the six-year period 2007 to early 2013.

Q. How did the bond ratings of PSE compare to other electric utilities in early 2013?

A. As I indicated in a previous answer, PSE had single A bond ratings on its senior debt, which are investment grade (i.e., Triple-B or above). Of the 50 electric utilities and combination gas and electric utilities covered by AUS Utility Reports, the following numbers of bond ratings existed as of early 2013:

Moody's Rating	Number of Companies	S&P Rating	Number of Companies
Aa2	1	AA-	1
A1	1	A+	--
A2	7	A	3
A3*	19	A-*	18
Baa1	12	BBB+	11
Baa2	7	BBB	10
Baa3	--	BBB-	2
Ba or less	--	BB	--
NR	3	NR	4

* PSE’s ratings.

1 This comparison indicates that PSE's ratings were at or above to the most common rating
2 categories of most electric utilities in early 2013. This implies that PSE had similar risk
3 to that of the industry of which it is a part.

4
5 **V. CAPITAL STRUCTURE**

6
7 **Q. What is the importance of determining a proper capital structure in a regulatory**
8 **framework?**

9 A. A utility's capital structure is important because the concept of rate base–rate of return
10 regulation requires that a utility's capital structure be determined and utilized in
11 estimating the total cost of capital. Within this framework, it is proper to ascertain
12 whether the utility's capital structure is appropriate relative to its level of business risk
13 and relative to other utilities.

14 As discussed in Section III of my testimony, the purpose of determining the
15 proper capital structure for a utility is to help ascertain its capital costs. The rate base–
16 rate of return concept recognizes the assets employed in providing utility services and
17 provides for a return on these assets by identifying the liabilities and common equity (and
18 their cost rates) used to finance the assets. In this process, the rate base is derived from
19 the asset side of the balance sheet and the cost of capital is derived from the
20 liabilities/owners' equity side of the balance sheet. The inherent assumption in this
21 procedure is that the dollar values of the capital structure and the rate base are
22 approximately equal and the former is utilized to finance the latter.

1 The common equity ratio (i.e., the percentage of common equity in the capital
2 structure) is the capital structure item which normally receives the most attention. This is
3 the case because common equity: (1) usually commands the highest cost rate; (2)
4 generates associated income tax liabilities; and (3) causes the most controversy since its
5 cost cannot be precisely determined.

6
7 **Q. Have you evaluated the capital structure of PSE?**

8 A. Yes. I have examined the five year historic (2008–2012; i.e., latest five years as of early
9 2013) capital structure ratios of PSE. These are shown on Exhibit No. ____ (DCP-4). I
10 have summarized below the common equity ratios for PSE. These are seen to be as
11 follows:

Year	PSE	
	Incl. S-T Debt	Excl. S-T Debt
2008	44.7%	47.9%
2009	48.2%	50.2%
2010	46.2%	47.2%
2011	46.7%	47.8%
2012	46.1%	46.8%

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17 This indicates that PSE’s equity ratio was about 46 percent (including short-term debt) as
18 of early 2013.

1 **Q. How do PSE’s actual capital structures compare to those of investor-owned electric**
2 **utilities?**

3 A. Exhibit No. ____ (DCP-5) shows the common equity ratios (including short-term debt in
4 capitalization) for the two groups of electric utilities covered by AUS Utility Reports. As
5 of early 2013, the most recent five-year average common equity ratios were:

Year	Electric	Combination Gas And Electric
2008	45%	43%
2009	46%	45%
2010	46%	46%
2011	47%	46%
2012	47%	46%

(Source: AUS Utility Reports)

11
12 These equity ratios were similar to those of PSE. This is indicative of similar financial
13 risk.

VI. SELECTION OF PROXY GROUPS

17 **Q. How have you estimated the cost of common equity for PSE?**

18 A. PSE is not publicly-traded. Consequently, it is not possible to directly apply cost of
19 equity models to this entity. PE also not publicly-traded. As a result, it is generally
20 preferred to analyze groups of comparison or “proxy” companies as a substitute for PSE
21 to determine its cost of common equity.

1 I have examined three such groups for comparison of PSE. I selected one group
2 of electric and/or combination electric/natural gas utilities using the criteria listed on
3 Exhibit No. ____ (DCP-6). These criteria¹ are as follows:

- 4 (1) Market “cap” of \$1 billion to \$5 billion;
- 5 (2) Electric revenues 50% or greater;
- 6 (3) Common equity ratio 40% or greater;
- 7 (4) Value Line Safety of 1, 2 or 3;
- 8 (5) Moody’s and S&P’s bond ratings of single-A or triple B; and
- 9 (6) Has paid dividends, and has not reduced dividends, in past five years.

10 Second, I have considered the proxy group of electric and combination utilities
11 that ICNU witness Gorman employed in his April 26, 2013 Response Testimony in this
12 proceeding.

13 Third, I have conducted studies of the cost of equity for the same combination
14 electric and gas utilities proxy group that was selected by PSE witness Morin in his
15 November 5, 2014 Direct Testimony, relative to his “first half of 2013” cost of capital
16 analyses.

17
18 **Q. Please explain why you are using three proxy groups in your cost of equity analyses.**

19 A. It has long been my practice to develop my own independently-determined proxy group
20 and to also conduct cost of equity analyses on the utility witness’ proxy group. In
21 addition, given the fact that ICNU witness Gorman filed Response Testimony during the
22 2013 hearing, I also considered his proxy group. My conclusions and recommendations,
23 in turn, are based upon the results of all three proxy groups.

¹ Note: Both the criteria for selection and information for each potential proxy company were as of early 2013.

1
2 **VII. DISCOUNTED CASH FLOW ANALYSIS**
3

4 **Q. What is the theory and methodological basis of the discounted cash flow model?**

5 A. The discounted cash flow (“DCF”) model is one of the oldest, as well as the most
6 commonly-used, models for estimating the cost of common equity for public utilities.
7 The DCF model is based on the “dividend discount model” of financial theory, which
8 maintains that the value (price) of any security or commodity is the discounted present
9 value of all future cash flows.

10 The most common variant of the DCF model assumes that dividends are expected
11 to grow at a constant rate. This variant of the dividend discount model is known as the
12 constant growth or Gordon DCF model. In this framework cost of capital is derived by
13 the following formula:

14
$$K = \frac{D}{P} + g$$

15 where: K = discount rate (cost of capital)

16 P = current price (\$)

17 D = current annual dividend (\$)

18 g = constant rate of expected growth (%)

19 This formula essentially recognizes that the return expected or required by
20 investors is comprised of two factors: the dividend yield (current income) and expected
21 growth in dividends (future income).

22 **Q. Please explain how you have employed the DCF model.**

1 A. I have utilized the constant growth DCF model. In doing so, I have combined the current
2 dividend yield for the groups of proxy utility stocks described in the previous section
3 with several indicators of expected dividend growth.

4

5 **Q. How did you derive the dividend yield component of the DCF equation?**

6 A. There are several methods that can be used for calculating the dividend yield component.
7 These methods generally differ in the manner in which the dividend rate is employed;
8 i.e., current versus future dividends, or annual versus quarterly compounding of
9 dividends. I believe the most appropriate dividend yield component is the version listed
10 below:

$$Yield = \frac{D_0(1 + 0.5g)}{P_0}$$

11

12 This dividend yield component recognizes the timing of dividend payments and dividend
13 increases (i.e., time value of money).

14 The P_0 in my yield calculation is the average (of high and low) stock price for
15 each proxy company for the three month period (January–March, 2013). The D_0 is the
16 current annualized dividend for each proxy company.

17

18 **Q. How have you estimated the dividend growth component of the DCF equation?**

19 A. The dividend growth rate component of the DCF model is usually the most crucial and
20 controversial element involved in using this methodology. The objective of estimating
21 the dividend growth component is to reflect the sustainable long term growth expected by
22 investors that is embodied in the price (and yield) of a company's stock. As such, it is
23 important to recognize that individual investors have different expectations and consider

1 alternative indicators in deriving their expectations. This is evidenced by the fact that
2 every investment decision resulting in the purchase of a particular stock is matched by
3 another investment decision to sell that stock. Obviously, since two investors reach
4 different decisions at the same market price, their expectations differ.

5 A wide array of indicators exists for estimating the growth expectations of
6 investors. As a result, it is evident that no single indicator of growth is always used by all
7 investors. It therefore is necessary to consider alternative indicators of dividend growth
8 in deriving the growth component of the DCF model.

9 I have considered five indicators of growth in my DCF analyses, all of which
10 were available as of the first quarter of 2013. These are:

- 11 1. 2008–2012 (5-year average) earnings retention, or fundamental growth
12 (per Value Line);
- 13 2. 5-year average of historic growth in earnings per share (“EPS”), dividends
14 per share (“DPS”), and book value per share (“BVPS”) (per Value Line);
- 15 3. 2013, 2014 and 2016–2018 projections of earnings retention growth (per
16 Value Line);
- 17 4. 2010–2012 to 2016–2018 projections of EPS, DPS, and BVPS (per Value
18 Line); and
- 19 5. 5-year projections of EPS growth (per First Call).²

20 I believe this diverse combination of growth indicators is a representative and
21 appropriate set with which to begin the process of estimating investor expectations of
22 dividend growth for the groups of proxy companies. I also believe that these growth

² For the Gorman and Morin proxy groups, I utilized the EPS growth projections that were contained in their respective testimonies, since past projections are not readily available from First Call.

1 indicators reflect the types of information that investors consider in making their
 2 investment decisions. As I indicated previously, investors have an array of information
 3 available to them, all of which should be expected to have some impact on their decision-
 4 making process.

5

6 **Q. Please describe your DCF calculations.**

7 A. Exhibit No. ____ (DCP-7) presents my DCF analysis. Page 1 shows the calculation of the
 8 “raw” (i.e., prior to adjustment for growth) dividend yield for each proxy company.

9 Pages 2 and 3 show the various growth rates for the groups of proxy companies.
 10 Pages 4 and 5 show the DCF calculations, which are presented on several bases: mean,
 11 median, and low/high values. These results can be summarized as follows:

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14

15

	Mean	Median	Mean Low ³	Mean High ⁴	Median Low ²	Median High ³
Proxy Group	8.3%	8.2%	7.0%	9.6%	6.6%	9.7%
Gorman Group	8.5%	8.1%	7.7%	9.1%	7.2%	9.4%
Morin Group	8.6%	8.3%	7.8%	9.4%	7.5%	9.1%

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I note that the individual DCF calculations shown on Exhibit No. ____ (DCP-7)
 should not be interpreted to reflect the expected cost of capital for the proxy groups;
 rather, the individual values shown should be interpreted as alternative information
 considered by investors.

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21

22

The results in Exhibit No. ____ (DCP-7) indicate average (mean and median) DCF
 cost rates of 8.1 percent to 8.6 percent. The “high” DCF rates (i.e., using the highest
 growth rates only) are 9.1 percent and 9.7 percent on an average basis and median basis.

³ Using only the lowest growth rate.

⁴ Using only the highest growth rate.

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Q. What do you conclude from your DCF analyses?

A. This analysis reflects a broad DCF range of 8.1 percent to 9.7 percent for the proxy groups. This is approximated by the average/mean value and high values for the proxy groups examined in the previous analysis. I give less weight to the low values and average values of the groups. I believe that 9.1 percent to 9.7 percent (9.4 percent mid-point) reflects the proper DCF cost for PSE. This reflects the highest DCF results.

Q. Why do you focus on the highest DCF rates?

A. I focus on the highest DCF rates, as well as highest CE rates later in my testimony, in order to be conservative. Had I emphasized mean/median values, as other analysts might reasonably have done, my recommended cost of equity for PSE would have been lower.

VIII. CAPITAL ASSET PRICING MODEL ANALYSIS

Q. Please describe the theory and methodological basis of the capital asset pricing model.

A. The Capital Asset Pricing Model (“CAPM”) is a version of the risk premium method. The CAPM describes and measures the relationship between a security’s investment risk and its market rate of return. The CAPM was developed in the 1960s and 1970s as an extension of modern portfolio theory (“MPT”), which studies the relationships among risk, diversification, and expected returns.

1 **Q. How is the CAPM derived?**

2 A. The general form of the CAPM is:

3
$$K = R_f + \beta(R_m - R_f)$$

4 where: K = cost of equity

5 R_f = risk free rate

6 R_m = return on market

7 β = beta

8 $R_m - R_f$ = market risk premium

9 As noted previously, the CAPM is a variant of the risk premium method. I
10 believe the CAPM is generally superior to the simple risk premium method because the
11 CAPM specifically recognizes the risk of a particular company or industry (i.e., beta),
12 whereas the simple risk premium method assumes the same risk premium for all
13 companies exhibiting similar bond ratings.

14

15 **Q. What groups of companies have you utilized to perform your CAPM analyses?**

16 A. I have performed CAPM analyses for the same three groups of proxy utilities evaluated
17 in my DCF analyses.

18

1 **Q. Please explain the risk-free rate as used in your CAPM and indicate what rate you**
2 **employed.**

3 A. The first term of the CAPM is the risk-free rate (R_f). The risk-free rate reflects the level
4 of return that can be achieved without accepting any risk.

5 In CAPM applications, the risk-free rate is generally recognized by use of U.S.
6 Treasury securities. Two general types of U.S. Treasury securities are often utilized as
7 the R_f component: short-term U.S. Treasury bills and long-term U.S. Treasury bonds.

8 I have performed CAPM calculations using the three-month average yield
9 (January–March, 2013) for 20-year U.S. Treasury bonds. I used 20-year U.S. Treasury
10 bonds yields since this is the maturity level employed by the MorningStar source used, in
11 part, to develop the market risk premium. Over this three-month period, these bonds had
12 an average yield of 2.75 percent.

13

14 **Q. What is beta and what betas did you employ in your CAPM?**

15 A. Beta is a measure of the relative volatility (and thus risk) of a particular stock in relation
16 to the overall market. Betas of less than 1.0 are considered less risky than the market,
17 whereas betas greater than 1.0 are more risky. Utility stocks traditionally have had betas
18 below 1.0. I utilized the most recent Value Line betas for each company in the groups of
19 proxy utilities.

20

21 **Q. How did you estimate the market risk premium component in your CAPM analysis?**

22 A. The market risk premium component ($R_m - R_f$) represents the investor-expected premium
23 of common stocks over the risk-free rate, or government bonds. For the purpose of

1 estimating the market risk premium, I considered alternative measures of returns of the
2 S&P 500 (a broad-based group of large U.S. companies) and 20-year U.S. Treasury
3 bonds.

4 First, I have compared the actual annual returns on equity of the S&P 500 with the
5 actual annual yields of U.S. Treasury bonds. Exhibit No. ____ (DCP-8) shows the return
6 on equity for the S&P 500 group for the period 1978–2012 (all available years reported
7 by S&P as of early 2013). This schedule also indicates the annual yields on 20-year U.S.
8 Treasury bonds, as well as the annual differentials (i.e., risk premiums) between the S&P
9 500 and U.S. Treasury 20-year bonds. Based upon these returns, I conclude that this
10 version of the risk premium is about 6.6 percent.

11 I have also considered the total returns (i.e., dividends/interest plus capital
12 gains/losses) for the S&P 500 group as well as for long-term (20-year) government
13 bonds, as tabulated by MorningStar (formerly Ibbotson Associates), using both arithmetic
14 and geometric means. I have considered the total returns for the entire available 1926–
15 2012 period (i.e., most recent period as of early 2013), which are as follows:

	<u>S&P 500</u>	<u>L-T Gov't Bonds</u>	<u>Risk Premium</u>
Arithmetic	11.8%	6.1%	5.7%
Geometric	9.8%	5.7%	4.1%

16
17
18
19 I conclude from this that the expected risk premium is about 5.5 percent (i.e., average of
20 all three risk premiums). I believe that a combination of arithmetic and geometric means
21 is appropriate since investors have access to both types of means and, presumably, both
22 types are reflected in investment decisions and thus stock prices and cost of capital.

1 Investors are routinely provided investment return rates using both arithmetic and
2 geometric averages. I note, for example, that mutual funds report returns on a geometric
3 basis. In addition, Value Line calculates both its historic and estimated EPS growth rates
4 on a compound (i.e., geometric basis).

5
6 **Q. What are your CAPM results?**

7 A. Exhibit No. ____ (DCP-9) shows my CAPM calculations. The results are:

	<u>Mean</u>	<u>Median</u>
8 Proxy Group	6.8%	6.6%
9 Gorman Group	6.6%	6.6%
10 Morin Group	6.6%	6.5%

11 **Q. What is your conclusion concerning the CAPM cost of equity?**

12 A. The result of my CAPM analyses collectively indicates a cost of 6.5 percent to 6.8
13 percent for the groups of proxy utilities. I conclude that the CAPM cost of equity for
14 PSE is 6.8 percent as of early 2013.

15
16 **IX. COMPARABLE EARNINGS ANALYSIS**

17
18 **Q. Please describe the basis of the CE methodology.**

19 A. The CE method is derived from the "corresponding risk" concept discussed in the
20 *Bluefield* and *Hope* cases. This method is thus based upon the economic concept of
21 opportunity cost. As previously noted, the cost of capital is an opportunity cost: the
22 prospective return available to investors from alternative investments of similar risk.

1 The CE method is designed to measure the returns expected to be earned on the
2 original cost book value of similar risk enterprises. Thus, it provides a direct measure of
3 the fair return, since it translates into practice the competitive principle upon which
4 regulation rests.

5 The CE method normally examines the experienced and/or projected returns on
6 book common equity. The logic for examining returns on book equity follows from the
7 use of original cost rate base regulation for public utilities, which uses a utility's book
8 common equity to determine the cost of capital. This cost of capital is, in turn, used as
9 the fair rate of return which is then applied to (multiplied by) the book value of rate base
10 to establish the dollar level of capital costs to be recovered by the utility. This technique
11 is thus consistent with the rate base–rate of return methodology used to set utility rates.

12
13 **Q. How do you apply the CE methodology in your analysis of PSE's common equity**
14 **cost?**

15 A. I apply the CE methodology by examining realized returns on equity for the three groups
16 of proxy electric and combination electric/gas utilities, as well as unregulated companies,
17 and evaluating investor acceptance of these returns by reference to the resulting market-
18 to-book ratios. In this manner it is possible to assess the degree to which a given level of
19 return equates to the cost of capital. It is generally recognized for utilities that market-to-
20 book ratios of greater than one (i.e., 100 percent) reflect a situation where a company is
21 able to attract new equity capital without dilution (i.e., above book value). As a result,
22 one objective of a fair cost of equity is the maintenance of stock prices at or above book

1 value. There is no regulatory obligation to set rates designed to maintain a market-to-
2 book ratio significantly above one.

3 I further note that my CE analysis is based upon market data (through the use of
4 market-to-book ratios) and is thus essentially a market test. As a result, my CE analysis
5 is not subject to the criticisms occasionally made by some who maintain that past earned
6 returns do not represent the cost of capital. In addition, my CE analysis also uses
7 prospective returns and thus is not backward looking.

8
9 **Q. What time periods do you examine in your CE analysis?**

10 A. My CE analysis considers the experienced equity returns of the proxy groups of utilities
11 for the period 2002–2012 (i.e., the last 11 years as of early 2013). The CE analysis
12 requires that I examine a relatively long period of time in order to determine trends in
13 earnings over at least a full business cycle. Further, in estimating a fair level of return for
14 a future period, it is important to examine earnings over a diverse period of time in order
15 to avoid any undue influence from unusual or abnormal conditions that may occur in a
16 single year or shorter period. Therefore, in forming my judgment of the early 2013 cost
17 of equity, I focused on two prior periods: 2009–2012 (the then-current cycle) and 2002–
18 2008 (the most recent complete business cycle). I have also considered the prospective
19 returns on equity for 2013, 2014, and 2016–2018 (i.e., Value Line estimates as of early
20 2013).

1 **Q. Please describe your CE analysis.**

2 A. Exhibit Nos. ____ (DCP-10) and (DCP-11) contain summaries of experienced returns on
3 equity for four groups of companies, while Exhibit No. ____ (DCP-12) presents a risk
4 comparison of utilities versus unregulated firms.

5 Exhibit No. ____ (DCP-10) shows the earned returns on average common equity
6 and market-to-book ratios for the groups of proxy utilities. These can be summarized as
7 follows:

	Proxy Group	Gorman Group	Morin Group
Historic ROE			
Mean	8.3–9.1%	9.4–9.8%	10.0–10.3%
Median	8.8–9.2%	9.5–9.9%	9.8–10.2%
Historic M/B			
Mean	124–152%	130–148%	142–155%
Median	121–143%	129–141%	139–151%
Prospective ROE			
Mean	8.7–9.6%	9.1–9.9%	9.9–10.4%
Median	9.0%	9.0–9.8%	9.5–10.0%

14 These results indicate that historic returns of 8.3 percent to 10.3 percent (page 1 of
15 Exhibit No. ____ (DCP-10)) have been adequate to produce market-to-book ratios of 121
16 percent to 155 percent (page 2 of Exhibit No. ____ (DCP-10)) for the groups of utilities.
17 Furthermore, projected returns on equity for 2013, 2014 and 2016–2018 are within a
18 range of 8.7 percent to 10.4 percent for the utility groups. These relate to 2012 market-
19 to-book ratios of 136 percent or greater (page 2 of Exhibit No. ____ (DCP-10)).

21 **Q. Do you also review the earnings of unregulated firms?**

22 A. Yes. As an alternative, I also examined the S&P 500 Composite group. This is a well
23 recognized group of firms that is widely utilized in the investment community and is

1 indicative of the competitive sector of the economy. Exhibit No. ____ (DCP-11) presents
2 the earned returns on equity and market-to-book ratios for the S&P 500 group over the
3 2002–2012 period. As this schedule indicates, over the two business cycle periods, this
4 group's average earned returns ranged from 12.4 percent to 13.2 percent, with average
5 market-to-book ratios ranging between 204 percent and 275 percent.

6
7 **Q. How can the above information be used to estimate PSE's cost of equity?**

8 A. The recent earnings of the proxy utilities and S&P 500 groups can be viewed as an
9 indication of the level of return realized and expected in the regulated and competitive
10 sectors of the economy. In order to apply these returns to the cost of equity for the proxy
11 utilities, however, it is necessary to compare the risk levels of the utilities and the
12 competitive companies. I do this in Exhibit No. ____ (DCP-12), which compares several
13 risk indicators for the S&P 500 group and the utility groups. The information on page 2
14 of Exhibit No. ____ (DCP-12) indicates that the S&P 500 group is more risky than the
15 utility proxy groups.

16
17 **Q. What cost of equity is indicated by your CE analysis?**

18 A. Based on recent earnings and market-to-book ratios, my CE analysis indicates that the
19 cost of equity for the proxy utilities is no more than 9.0 percent to 10.0 percent. Recent
20 returns of 8.3 percent to 10.3 percent have resulted in market-to-book ratios of more than
21 120 percent. Prospective returns of 8.7 percent to 10.4 percent have been accompanied
22 by most recent market-to-book ratios over 136 percent. As a result, it is apparent that
23 authorized returns below this level would continue to result in market-to-book ratios of

1 well above 100 percent. As I indicated earlier, the fact that market-to-book ratios
2 substantially exceed 100 percent indicates that historic and prospective returns of over
3 10.0 percent reflect earnings levels that are well above the actual cost of equity for those
4 regulated companies. I also note that a company whose stock sells above book value can
5 attract capital in a way that enhances the book value of existing stockholders, thus
6 creating a favorable environment for financial integrity. Finally, I note that my 9.0
7 percent to 10.0 percent CE finding does not incorporate any market-to-book
8 “adjustment,” as it approximates the historic and projected returns on equity for the utility
9 proxy groups.

10
11 **X. RETURN ON EQUITY RECOMMENDATION**

12
13 **Q. Please summarize the results of your three cost of equity analyses.**

14 **A.** My three analyses produce the following results:

15	DCF	9.1–9.7%	(9.4% mid-point)
16	CAPM	6.5–6.8%	(6.7% mid-point)
17	CE	9.0–10.0%	(9.5% mid-point)

18
19 These results indicate an overall broad range of 6.5 percent to 10.0 percent, which
20 focuses on the respective ranges of my individual model results. Focusing on the
21 respective midpoints, the range is 6.7 percent to 9.5 percent. I recommend a return on
22 equity range of 9.0 percent to 10.0 percent for PSE as of the early 2013 time frame.
23 Though this recommendation is higher than my CAPM findings, it approximates the
24 lower end of my DCF and CE ranges (9.0 percent) and the upper end of my CE range

1 (10.0 percent). The mid-point of my range is 9.5 percent, which is my recommended cost
2 of common equity.

3
4 **Q. Does your cost of equity range of 9.0 percent to 10.0 percent contain the 9.8 percent**
5 **cost of equity that was maintained by the Commission in Order 07 of the**
6 **proceeding?**

7 A. Yes, it does. It is my understanding that the last authorized cost of equity for PSE was
8 cited in Order 08 in Dockets UE-111048 and UG-111049, which were decided in 2012.
9 This 9.8 percent cost of equity was maintained in Order 07 in the current proceeding. As
10 my Exhibit No. ____ (DCP-13) indicates, authorized returns on equity were generally
11 declining from 2012 to 2013. Nevertheless, I note that my recommended range of 9.0
12 percent to 10.0 percent does include 9.8 percent.

13
14 **Q. Have you reviewed the authorized returns on equity for electric and gas utilities in**
15 **the early 2013 timeframe?**

16 A. Yes, I have. My Exhibit No. ____ (DCP-13) shows the quarterly averages of returns on
17 equity authorized by state commissions in 2012 and 2013 (note that this exhibit goes
18 through the end of 2013 since some decisions are rendered up to several months after the
19 respective hearings). This exhibit indicates that average authorized equity awards were
20 generally in the 9½ percent to 10 percent range during this period.

21
22 **Q. Does this conclude your direct testimony?**

23 A. Yes, it does.

Exhibit No. ____ (DCP-3)
Dockets UE-121697, et al.
Witness: David C. Parcell

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

**DOCKETS UE-121697 and
UG-121705 (*consolidated*)**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

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PUGET SOUND ENERGY, INC.

Respondent.

**DOCKETS UE-130137 and
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**EXHIBIT TO
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David C. Parcell

**ON BEHALF OF THE STAFF OF WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION**

PSE History of Credit Ratings

December 3, 2014

PUGET SOUND ENERGY, INC.
HISTORY OF SECURITY RATINGS

Date	Moody's		Standard & Poor's	
	Issuer Rating	Senior Secured	Issuer Rating	Senior Secured
As of 12/31/07	Baa3	Baa2	BBB-	BBB+
As of 12/31/08	Baa3	Baa2	BBB-	BBB+
As of 01/16/09	Baa3	Baa2	BBB	A-
As of 8/3/09	Baa3	Baa1	BBB	A-
As of 3/16/11	Baa2	A3	BBB	A-
As of 3/31/13	Baa2	A3	BBB	A-

Source: Response to UTC Staff Data Request No. 3, Attachment A.

Exhibit No. ____ (DCP-4)
Dockets UE-121697, et al.
Witness: David C. Parcell

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

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PSE Capital Structure Ratios

December 3, 2014

**PUGET SOUND ENERGY, INC.
 CAPITAL STRUCTURE RATIOS
 2008 - 2012
 (\$000)**

YEAR	COMMON EQUITY	PREFERRED STOCK	LONG-TERM DEBT	SHORT-TERM DEBT
2008	\$2,546,820 44.7% 47.9%	\$1,889 0.0% 0.0%	\$2,768,131 48.6% 52.1%	\$375,236 6.6%
2009	\$2,923,025 48.2% 50.2%	\$236 0.0% 0.0%	\$2,901,443 47.8% 49.8%	\$241,506 4.0%
2010	\$2,968,785 46.2% 47.2%		\$3,314,652 51.6% 52.8%	\$137,069 2.1%
2011	\$3,220,273 46.7% 47.8%		\$3,509,682 50.9% 52.2%	\$159,106 2.3%
2012	\$3,313,645 46.1% 46.8%		\$3,773,846 52.5% 53.2%	\$94,048 1.3%

Source: Response to UTC Staff Data Request No. 2, Attachment A.

Exhibit No. ____ (DCP-5)
Dockets UE-121697, et al.
Witness: David C. Parcell

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

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*AUS Utility Reports Electric Utility Groups
Average Common Equity Ratios*

December 3, 2014

**AUS UTILITY REPORTS
ELECTRIC UTILITY GROUPS
AVERAGE COMMON EQUITY RATIOS**

Year	Electric	Combination Electric and Gas
2008	45%	43%
2009	46%	45%
2010	46%	46%
2011	47%	46%
2012	47%	46%

Note: Averages include short-term debt.

Source: AUS Utility Reports.

Exhibit No. ____ (DCP-6)
Dockets UE-121697, et al.
Witness: David C. Parcell

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Proxy Companies Basis for Selection

December 3, 2014

**PROXY COMPANIES
BASIS FOR SELECTION**

Company	Market Capitalization (\$ millions)	Percent Reg Electric Revenues	Common Equity Ratio	Value Line Safety	S&P Bond Rating	Moody's Bond Rating
Puget Sound Energy						
Parcell Proxy Group						
ALLETE	\$1,900,000	91%	56%	2	A-	A2
Avista	\$1,500,000	63%	49%	2	A-	A3
Black Hills Corp	\$1,700,000	52%	53%	3	BBB+	A3
Cleco Corp	\$2,700,000	95%	54%	1	BBB	Baa2
Hawaiian Electric Industries	\$2,500,000	92%	54%	2	BBB-	baa2
IDACORP	\$2,200,000	100%	54%	3	A-	A2
NorthWestern Corp	\$1,400,000	75%	47%	3	A-	A2
Otter Tail Corp	\$1,100,000	71%	55%	3	BBB-	Baa2
Pepco Holdings	\$4,500,000	83%	51%	3	A-/BBB+	Baa1/Baa2
Portland General Corp	\$2,100,000	100%	53%	2	A-	A3
TECO Energy	\$3,700,000	65%	44%	2	BBB+	A3
UIL Holdings	\$1,900,000	53%	42%	2	BBB	Baa2
Westar Energy	\$4,000,000	100%	49%	2	BBB+	A3
Gorman Proxy Group						
ALLETE	\$1,900,000	91%	56%	2	A-	A2
Alliant Energy Corp	\$5,400,000	84%	48%	2	A-	A2/A3
American Electric Power Co.	\$23,000,000	92%	49%	3	BBB	Baa2
Avista Corp	\$1,500,000	63%	49%	2	A-	A3
Cleco Corp	\$2,700,000	95%	54%	1	BBB	Baa2
CMS Energy	\$7,100,000	64%	34%	3	BBB/BBB-	Baa2
Consolidated Edison	\$17,000,000	72%	54%	1	A-	A3/Baa1
DTE Energy	\$12,000,000	60%	51%	2	A	A2
Edison International	\$15,000,000	98%	45%	3	BBB+	A1
Great Plains Energy, Inc.	\$3,500,000	100%	54%	3	BBB/BBB-	Baa1/Baa2
IDACORP, Inc.	\$2,200,000	100%	54%	3	A-	A2
Integrus Energy Group	\$4,400,000	29%	60%	2	A-	A2/A3
Northeast Utilities	\$13,000,000	89%	54%	2	A-	A3
NorthWestern Corp	\$1,400,000	75%	47%	3	A-	A2
PG&E Corp	\$18,000,000	80%	51%	3	BBB/BBB-	A3/Baa1
Pinnacle West Capital Corp	\$5,800,000	100%	56%	2	BBB+	Baa1
Portland General Electric	\$2,100,000	100%	53%	2	A-	A3
TECO Energy	\$3,700,000	65%	44%	2	BBB+	A3
UIL Holdings	\$1,900,000	53%	42%	2	BBB	Baa2
Westar Energy	\$4,000,000	100%	49%	2	BBB+	A3
Wisconsin Energy Corp	\$9,500,000	75%	48%	1	A-/BBB+	A2/A3
Xcel Energy Inc.	\$13,000,000	84%	47%	2	A-	A3
Morin Proxy Group						
Alliant Energy Corp	\$5,400,000	84%	48%	2	A-	A2/A3
Avista Corp	\$1,500,000	63%	49%	2	A-	A3
Black Hills Corp.	\$1,700,000	52%	53%	3	BBB+	A3
CenterPoint Energy	\$9,300,000	30%	34%	2	BBB+	Baa1/Baa2
CMS Energy	\$7,100,000	64%	34%	3	BBB/BBB-	Baa2
Consolidated Edison	\$17,000,000	72%	54%	1	A-	A3/Baa1
Dominion Resources	\$31,000,000	54%	39%	2	A	Baa1/Baa2
DTE Energy	\$12,000,000	60%	51%	2	A	A2
Duke Energy	\$49,000,000	80%	53%	2	A-	A3
Integrus Energy Group	\$4,400,000	29%	60%	2	A-	A2/A3
MGE Energy	\$1,300,000	72%	62%	1	AA-	A1
Northeast Utilities	\$13,000,000	89%	54%	2	A-	A3
NorthWestern Corp	\$1,400,000	75%	47%	3	A-	A2
NV Energy	\$4,900,000	96%	43%	3	BBB	Baa1
OGE Energy	\$6,000,000	58%	49%	2	BBB	Baa1
Pepco Holdings	\$4,500,000	83%	51%	3	A-/BBB+	Baa1/Baa2
PG&E Corp	\$18,000,000	80%	51%	3	BBB/BBB-	A3/Baa1
SCANA Corp.	\$6,300,000	59%	45%	2	BBB+	Baa1/Baa2
Sempra Energy	\$18,000,000	33%	47%	2	A/A-	A2
TECO Energy	\$3,700,000	65%	44%	2	BBB	Baa2
UIL Holdings	\$1,900,000	53%	42%	2	BBB	Baa2
UNS Energy	\$2,100,000	91%	38%	3	BBB-	Baa2
Vectren Corp.	\$2,800,000	27%	50%	2	A/A-	A2
Wisconsin Energy Corp	\$9,500,000	75%	48%	1	A-/BBB+	A2/A3
Xcel Energy Inc.	\$13,000,000	84%	47%	2	A-	A3

Sources: AUS Utility Reports, Value Line.

Exhibit No. ____ (DCP-7)
Dockets UE-121697, et al.
Witness: David C. Parcell

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

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Proxy Companies DCF Cost Rate

December 3, 2014

**COMPARISON COMPANIES
DIVIDEND YIELD**

COMPANY	Qtr DPS	January - March, 2013			YIELD	
		DPS	HIGH	LOW		AVERAGE
Parcell Proxy Group						
ALLETE	\$0.475	\$1.90	\$49.50	\$41.39	\$45.45	4.2%
Avista	\$0.305	\$1.22	\$27.48	\$24.10	\$25.79	4.7%
Black Hills Corp	\$0.380	\$1.52	\$44.32	\$36.89	\$40.61	3.7%
Cleco	\$0.338	\$1.35	\$47.17	\$40.39	\$43.78	3.1%
Hawaiian Electric	\$0.310	\$1.24	\$27.92	\$25.50	\$26.71	4.6%
IDACORP	\$0.380	\$1.52	\$48.53	\$43.13	\$45.83	3.3%
NorthWestern Corp	\$0.380	\$1.52	\$40.35	\$35.06	\$37.71	4.0%
Otter Tail Corp	\$0.297	\$1.19	\$31.34	\$25.17	\$28.26	4.2%
Pepco Holdings	\$0.270	\$1.08	\$21.43	\$18.82	\$20.13	5.4%
Portland General Corp	\$0.270	\$1.08	\$30.53	\$27.42	\$28.98	3.7%
TECO Energy	\$0.220	\$0.88	\$17.87	\$16.71	\$17.29	5.1%
UIL Holdings	\$0.432	\$1.73	\$39.89	\$35.86	\$37.88	4.6%
Westar Energy	\$0.340	\$1.36	\$33.35	\$28.59	\$30.97	4.4%
Average						4.2%
Gorman Proxy Group						
ALLETE	\$0.475	\$1.90	\$49.50	\$41.39	\$45.45	4.2%
Alliant Energy Corp	\$0.470	\$1.88	\$50.23	\$43.73	\$46.98	4.0%
American Electric Power Co.	\$0.470	\$1.88	\$48.68	\$42.92	\$45.80	4.1%
Avista Corp	\$0.305	\$1.22	\$27.48	\$24.10	\$25.79	4.7%
Cleco Corp	\$0.338	\$1.35	\$47.17	\$40.39	\$43.78	3.1%
CMS Energy	\$0.255	\$1.02	\$27.95	\$24.60	\$26.28	3.9%
Consolidated Edison	\$0.615	\$2.46	\$61.13	\$54.95	\$58.04	4.2%
DTE Energy	\$0.620	\$2.48	\$68.38	\$60.33	\$64.36	3.9%
Edison International	\$0.338	\$1.35	\$51.24	\$44.92	\$48.08	2.8%
Great Plains Energy, Inc.	\$0.217	\$0.87	\$23.20	\$20.39	\$21.80	4.0%
IDACORP, Inc.	\$0.380	\$1.52	\$48.53	\$43.13	\$45.83	3.3%
Integrus Energy Group	\$0.680	\$2.72	\$58.27	\$52.55	\$55.41	4.9%
Northeast Utilities	\$0.367	\$1.47	\$43.49	\$38.60	\$41.05	3.6%
NorthWestern Corp	\$0.380	\$1.52	\$40.35	\$35.06	\$37.71	4.0%
PG&E Corp	\$0.455	\$1.82	\$44.57	\$40.29	\$42.43	4.3%
Pinnacle West Capital Corp	\$0.545	\$2.18	\$57.96	\$51.50	\$54.73	4.0%
Portland General Electric	\$0.270	\$1.08	\$30.53	\$27.42	\$28.98	3.7%
TECO Energy	\$0.220	\$0.88	\$17.87	\$16.71	\$17.29	5.1%
UIL Holdings	\$0.432	\$1.73	\$39.89	\$35.86	\$37.88	4.6%
Westar Energy	\$0.340	\$1.36	\$33.35	\$28.59	\$30.97	4.4%
Wisconsin Energy Corp	\$0.340	\$1.36	\$42.95	\$37.03	\$39.99	3.4%
Xcel Energy Inc.	\$0.270	\$1.08	\$29.74	\$26.77	\$28.26	3.8%
Average						4.0%
Morin Proxy Group						
Alliant Energy Corp	\$0.470	\$1.88	\$50.23	\$43.73	\$46.98	4.0%
Avista Corp	\$0.305	\$1.22	\$27.48	\$24.10	\$25.79	4.7%
Black Hills Corp.	\$0.380	\$1.52	\$44.32	\$36.89	\$40.61	3.7%
CenterPoint Energy	\$0.207	\$0.83	\$24.05	\$19.34	\$21.70	3.8%
CMS Energy	\$0.255	\$1.02	\$27.95	\$24.60	\$26.28	3.9%
Consolidated Edison	\$0.615	\$2.46	\$61.13	\$54.95	\$58.04	4.2%
Dominion Resources	\$0.563	\$2.25	\$58.25	\$51.92	\$55.09	4.1%
DTE Energy	\$0.620	\$2.48	\$68.38	\$60.33	\$64.36	3.9%
Duke Energy	\$0.765	\$3.06	\$72.68	\$64.44	\$68.56	4.5%
Integrus Energy Group	\$0.680	\$2.72	\$58.27	\$52.55	\$55.41	4.9%
MGE Energy	\$0.263	\$1.05	\$55.87	\$50.89	\$53.38	2.0%
Northeast Utilities	\$0.367	\$1.47	\$43.49	\$38.60	\$41.05	3.6%
NorthWestern Corp	\$0.380	\$1.52	\$40.35	\$35.06	\$37.71	4.0%
NV Energy	\$0.190	\$0.76	\$20.34	\$18.28	\$19.31	3.9%
OGE Energy	\$0.209	\$0.83	\$70.16	\$55.39	\$62.78	1.3%
Pepco Holdings	\$0.270	\$1.08	\$21.43	\$18.82	\$20.13	5.4%
PG&E Corp	\$0.455	\$1.82	\$44.57	\$40.29	\$42.43	4.3%
SCANA Corp.	\$0.507	\$2.03	\$51.23	\$45.57	\$48.40	4.2%
Sempra Energy	\$0.630	\$2.52	\$80.21	\$70.61	\$75.41	3.3%
TECO Energy	\$0.220	\$0.88	\$17.87	\$16.71	\$17.29	5.1%
UIL Holdings	\$0.432	\$1.73	\$39.89	\$35.86	\$37.88	4.6%
UNS Energy	\$0.435	\$1.74	\$36.96	\$31.76	\$34.36	5.1%
Vectren Corp.	\$0.355	\$1.42	\$35.45	\$29.47	\$32.46	4.4%
Wisconsin Energy Corp	\$0.340	\$1.36	\$42.95	\$37.03	\$39.99	3.4%
Xcel Energy Inc.	\$0.270	\$1.08	\$29.74	\$26.77	\$28.26	3.8%
Average						4.0%

Source: Yahoo! Finance.

**COMPARISON COMPANIES
RETENTION GROWTH RATES**

COMPANY	2008	2009	2010	2011	2012	Average	2013	2014	2016-18	Average
Parcell Proxy Group										
ALLETE	3.9%	0.5%	1.5%	2.9%	2.3%	2.2%	2.0%	2.5%	4.0%	2.8%
Avista	3.7%	4.1%	3.3%	3.1%	1.5%	3.1%	2.5%		3.0%	2.8%
Black Hills Corp	0.0%	3.2%	0.7%	0.0%	1.5%	1.1%	1.5%	3.0%	3.5%	2.7%
Cleco	4.5%	4.7%	6.1%	6.3%	5.5%	5.4%	4.5%	4.5%	5.0%	4.7%
Hawaiian Electric	0.5%	0.0%	1.4%	2.1%	2.5%	1.3%	2.5%		3.5%	3.0%
IDACORP	3.4%	4.8%	5.5%	6.5%	5.5%	5.1%	4.5%		3.5%	4.0%
NorthWestern Corp	2.3%	3.2%	3.5%	4.7%	2.5%	3.2%	3.0%		4.0%	3.5%
Otter Tail Corp	0.0%	0.0%	0.0%	0.0%	0.0%		1.0%	1.5%	3.0%	1.8%
Pepco Holdings	4.2%	0.0%	0.8%	0.3%	1.0%	1.3%	1.5%	1.5%	2.5%	1.8%
Portland General Corp	2.0%	1.5%	3.0%	4.1%	3.5%	2.8%	3.5%		4.0%	3.8%
TECO Energy	0.0%	2.1%	3.1%	3.9%	2.4%	2.3%	1.0%	2.0%	4.0%	2.3%
UIL Holdings	1.0%	1.2%	1.7%	1.1%	1.5%	1.3%	2.0%	2.5%	3.0%	2.5%
Westar Energy	1.2%	0.8%	3.1%	2.7%	4.0%	2.4%	3.0%	3.0%	4.0%	3.3%
Average						2.6%				3.0%
Gorman Proxy Group										
ALLETE	3.9%	0.5%	1.5%	2.9%	2.3%	2.2%	2.0%	2.5%	4.0%	2.8%
Alliant Energy Corp	3.8%	0.9%	3.8%	3.3%	3.9%	3.1%	4.0%	4.0%	4.0%	4.0%
American Electric Power Co.	5.1%	4.6%	3.1%	4.2%	3.5%	4.1%	3.5%	4.0%	4.0%	3.8%
Avista Corp	3.7%	4.1%	3.3%	3.1%	1.5%	3.1%	2.5%		3.0%	2.8%
Cleco Corp	4.5%	4.7%	6.1%	6.3%	5.5%	5.4%	4.5%	4.5%	5.0%	4.7%
CMS Energy	8.4%	4.1%	6.9%	5.6%	5.0%	6.0%	5.5%	5.5%	5.0%	5.3%
Consolidated Edison	3.1%	2.5%	3.2%	3.1%	3.5%	3.1%	3.0%	3.5%	3.5%	3.3%
DTE Energy	1.7%	2.9%	4.0%	3.4%	3.5%	3.1%	3.0%	3.5%	3.5%	3.3%
Edison International	8.6%	6.7%	6.5%	6.3%	6.5%	6.9%	6.0%		6.0%	6.0%
Great Plains Energy, Inc.	0.0%	0.9%	3.4%	2.0%	2.2%	1.7%	3.0%	2.5%	2.8%	2.8%
IDACORP, Inc.	3.4%	4.8%	5.5%	6.5%	5.5%	5.1%	4.5%		3.5%	4.0%
Integrus Energy Group	0.0%	0.0%	2.3%	0.7%	2.6%	1.1%	2.0%	2.0%	2.5%	2.2%
Northeast Utilities	5.3%	4.7%	5.0%	5.0%	2.0%	4.4%	3.5%	3.5%	4.0%	3.7%
NorthWestern Corp	2.3%	3.2%	3.5%	4.7%	2.5%	3.2%	3.0%		4.0%	3.5%
PG&E Corp	6.8%	5.5%	3.9%	3.4%	2.5%	4.4%	3.0%		4.0%	3.5%
Pinnacle West Capital Corp	0.3%	0.7%	3.1%	2.8%	3.5%	2.1%	3.5%	3.5%	3.5%	3.5%
Portland General Electric	2.0%	1.5%	3.0%	4.1%	3.5%	2.8%	3.5%		4.0%	3.8%
TECO Energy	0.0%	2.1%	3.1%	3.9%	2.4%	2.3%	1.0%	2.0%	4.0%	2.3%
UIL Holdings	1.0%	1.2%	1.7%	1.1%	1.5%	1.3%	2.0%	2.5%	3.0%	2.5%
Westar Energy	1.2%	0.8%	3.1%	2.7%	4.0%	2.4%	3.0%	3.0%	4.0%	3.3%
Wisconsin Energy Corp	7.0%	6.2%	7.0%	6.8%	6.5%	6.7%	5.5%	5.5%	4.5%	5.2%
Xcel Energy Inc.	3.8%	3.7%	3.6%	4.3%	4.0%	3.9%	4.0%		4.0%	4.0%
Average						3.6%				3.6%
Morin Proxy Group										
Alliant Energy Corp	3.8%	0.9%	3.8%	3.3%	3.9%	3.1%	4.0%	4.0%	4.0%	4.0%
Avista Corp	3.7%	4.1%	3.3%	3.1%	1.5%	3.1%	2.5%		3.0%	2.8%
Black Hills Corp.	0.0%	3.2%	0.7%	0.0%	1.5%	1.1%	1.5%	3.0%	3.5%	2.7%
CenterPoint Energy	9.9%	3.6%	3.8%	5.0%	5.5%	5.6%	4.5%	4.5%	5.0%	4.7%
CMS Energy	8.4%	4.1%	6.9%	5.6%	5.0%	6.0%	5.5%	5.5%	5.0%	5.3%
Consolidated Edison	3.1%	2.5%	3.2%	3.1%	3.5%	3.1%	3.0%	3.5%	3.5%	3.3%
Dominion Resources	8.4%	4.7%	5.3%	4.0%	3.4%	5.2%	4.5%	4.5%	5.0%	4.7%
DTE Energy	1.7%	2.9%	4.0%	3.4%	3.5%	3.1%	3.0%	3.5%	3.5%	3.3%
Duke Energy	0.6%	1.1%	2.1%	2.2%	1.0%	1.4%	2.0%	2.0%	3.0%	2.3%
Integrus Energy Group	0.0%	0.0%	2.3%	0.7%	2.6%	1.1%	2.0%	2.0%	2.5%	2.2%
MGE Energy	4.4%	3.4%	4.4%	4.7%	4.9%	4.4%	5.0%	4.5%	5.0%	4.8%
Northeast Utilities	5.3%	4.7%	5.0%	5.0%	2.0%	4.4%	3.5%	3.5%	4.0%	3.7%
NorthWestern Corp	2.3%	3.2%	3.5%	4.7%	2.5%	3.2%	3.0%		4.0%	3.5%
NV Energy	4.1%	2.7%	3.6%	1.4%	5.0%	3.4%	3.5%		3.5%	3.5%
OGE Energy	5.4%	6.0%	6.7%	7.7%	7.2%	6.6%	6.0%	5.5%	5.0%	5.5%
Pepco Holdings	4.2%	0.0%	0.8%	0.3%	1.0%	1.3%	1.5%	1.5%	2.5%	1.8%
PG&E Corp	6.8%	5.5%	3.9%	3.4%	2.5%	4.4%	3.0%		4.0%	3.5%
SCANA Corp.	4.4%	3.6%	3.8%	3.6%	4.0%	3.9%	4.0%	4.0%	4.5%	4.2%
Sempra Energy	9.7%	9.3%	7.0%	6.5%	4.5%	7.4%	4.5%		6.0%	5.3%
TECO Energy	0.0%	2.1%	3.1%	3.9%	2.4%	2.3%	1.0%	2.0%	4.0%	2.3%
UIL Holdings	1.0%	1.2%	1.7%	1.1%	1.5%	1.3%	2.0%	2.5%	3.0%	2.5%
UNS Energy	0.0%	8.4%	6.7%	5.4%	2.0%	4.5%	3.5%	5.5%	4.5%	4.5%
Vectren Corp.	2.0%	2.6%	1.6%	1.9%	2.9%	2.2%	3.0%	3.5%	4.0%	3.5%
Wisconsin Energy Corp	7.0%	6.2%	7.0%	6.8%	6.5%	6.7%	5.5%	5.5%	4.5%	5.2%
Xcel Energy Inc.	3.8%	3.7%	3.6%	4.3%	4.0%	3.9%	4.0%	0.0%	4.0%	2.7%
Average						3.7%				3.7%

Source: Value Line Investment Survey, as of February and March of 2013.

**COMPARISON COMPANIES
PER SHARE GROWTH RATES**

COMPANY	5-Year Historic Growth Rates				Est'd '10-'12 to '16-'18 Growth Rates			
	EPS	DPS	BVPS	Average	EPS	DPS	BVPS	Average
Parcell Proxy Group								
ALLETE	-2.5%	4.5%	5.5%	2.5%	7.0%	3.5%	4.0%	4.8%
Avista	9.5%	12.5%	4.0%	8.7%	3.5%	5.0%	3.0%	3.8%
Black Hills Corp	-4.0%	2.5%	4.0%	0.8%	9.0%	2.0%	2.0%	4.3%
Cleco	10.0%	2.0%	10.0%	7.3%	7.0%	10.5%	5.5%	7.7%
Hawaiian Electric	-3.0%	0.0%	1.5%	-0.5%	9.0%	2.0%	4.5%	5.2%
IDACORP	8.5%	0.0%	5.0%	4.5%	2.0%	8.0%	4.5%	4.8%
NorthWestern Corp		13.0%	2.0%	7.5%	5.0%	4.5%	4.5%	4.7%
Otter Tail Corp	-18.5%	0.5%	-1.0%	-6.3%	20.0%	1.5%	2.0%	7.8%
Pepco Holdings	-4.5%	1.5%	0.5%	-0.8%	6.0%	1.0%	1.5%	2.8%
Portland General Corp	8.5%		2.0%	5.3%	5.5%	3.5%	3.5%	4.2%
TECO Energy	3.5%	1.5%	6.5%	3.8%	3.5%	2.0%	2.5%	2.7%
UIL Holdings	4.5%	0.0%	-0.5%	1.3%	4.0%	0.0%	4.5%	2.8%
Westar Energy	1.5%	5.0%	4.5%	3.7%	5.0%	3.0%	4.0%	4.0%
Average				2.9%				4.6%
Gorman Proxy Group								
ALLETE	-2.5%	4.5%	5.5%	2.5%	7.0%	4.5%	5.5%	5.7%
Alliant Energy Corp	4.0%	8.0%	3.5%	5.2%	4.5%	4.5%	4.0%	4.3%
American Electric Power Co.	1.0%	4.0%	4.5%	3.2%	4.5%	4.0%	4.0%	4.2%
Avista Corp	9.5%	12.5%	4.0%	8.7%	3.5%	5.0%	3.0%	3.8%
Cleco Corp	10.0%	2.0%	10.0%	7.3%	7.0%	10.5%	5.5%	7.7%
CMS Energy	8.5%		2.0%	5.3%	7.0%	10.0%	5.0%	7.3%
Consolidated Edison	4.5%	1.0%	4.5%	3.3%	3.5%	1.5%	3.5%	2.8%
DTE Energy	6.0%	2.0%	4.0%	4.0%	4.0%	4.5%	4.0%	4.2%
Edison International	6.0%	5.5%	8.5%	6.7%	2.5%	4.5%	2.0%	3.0%
Great Plains Energy, Inc.	-6.0%	-12.5%	5.0%	-4.5%	6.5%	6.0%	2.5%	5.0%
IDACORP, Inc.	8.5%	0.0%	5.0%	4.5%	2.0%	8.0%	4.5%	4.8%
Integrus Energy Group	-0.5%	3.0%	0.5%	1.0%	3.5%	0.5%	3.0%	2.3%
Northeast Utilities	18.0%	8.5%	3.5%	10.0%	6.5%	8.5%	7.5%	7.5%
NorthWestern Corp		13.0%	2.0%	7.5%	5.0%	4.5%	4.5%	4.7%
PG&E Corp	3.5%	16.0%	6.5%	8.7%	3.5%	2.0%	4.0%	3.2%
Pinnacle West Capital Corp	1.0%	1.5%		1.3%	6.5%	3.0%	3.5%	4.3%
Portland General Electric	8.5%		2.0%	5.3%	5.5%	3.5%	3.5%	4.2%
TECO Energy	3.5%	1.5%	6.5%	3.8%	3.5%	2.0%	2.5%	2.7%
UIL Holdings	4.5%	0.0%	-0.5%	1.3%	4.0%	0.0%	4.5%	2.8%
Westar Energy	1.5%	5.0%	4.5%	3.7%	5.0%	3.0%	4.0%	4.0%
Wisconsin Energy Corp	10.0%	17.0%	7.0%	11.3%	6.5%	13.0%	3.5%	7.7%
Xcel Energy Inc.	4.5%	3.5%	4.5%	4.2%	6.0%	5.0%	4.5%	5.2%
Average				4.7%				4.6%
Morin Proxy Group								
Alliant Energy Corp	4.0%	8.0%	3.5%	5.2%	4.5%	4.5%	4.0%	4.3%
Avista Corp	9.5%	12.5%	4.0%	8.7%	3.5%	5.0%	3.0%	3.8%
Black Hills Corp.	-4.0%	2.5%	4.0%	0.8%	9.0%	2.0%	2.0%	4.3%
CenterPoint Energy	3.0%	7.0%	13.5%	7.8%	4.0%	3.0%	5.5%	4.2%
CMS Energy	8.5%	0.0%	2.0%	3.5%	7.0%	10.0%	5.0%	7.3%
Consolidated Edison	4.5%	1.0%	4.5%	3.3%	3.5%	1.5%	3.5%	2.8%
Dominion Resources	6.5%	6.5%	3.5%	5.5%	5.5%	6.0%	3.5%	5.0%
DTE Energy	6.0%	2.0%	4.0%	4.0%	4.0%	4.5%	4.0%	4.2%
Duke Energy	7.0%		-4.0%	1.5%	4.5%	2.0%	3.5%	3.3%
Integrus Energy Group	-0.5%	3.0%	0.5%	1.0%	3.5%	0.5%	3.0%	2.3%
MGE Energy	6.0%	2.0%	5.5%	4.5%	4.5%	3.5%	5.0%	4.3%
Northeast Utilities	18.0%	8.5%	3.5%	10.0%	6.5%	8.5%	7.5%	7.5%
NorthWestern Corp		13.0%	2.0%	7.5%	5.0%	4.5%	4.5%	4.7%
NV Energy	4.0%		4.0%	4.0%	11.5%	14.0%	3.5%	9.7%
OGE Energy	8.5%	2.0%	8.5%	6.3%	4.0%	5.0%	7.0%	5.3%
Pepco Holdings	-4.5%	1.5%	0.5%	-0.8%	6.0%	1.0%	1.5%	2.8%
PG&E Corp	3.5%	16.0%	6.5%	8.7%	3.5%	2.0%	4.0%	3.2%
SCANA Corp.	2.0%	4.0%	4.5%	3.5%	4.5%	2.0%	5.0%	3.8%
Sempra Energy	2.5%	8.5%	9.5%	6.8%	4.5%	9.0%	5.0%	6.2%
TECO Energy	3.5%	1.5%	6.5%	3.8%	3.5%	2.0%	2.5%	2.7%
UIL Holdings	4.5%	0.0%	-0.5%	1.3%	4.0%	0.0%	4.5%	2.8%
UNS Energy	10.5%	14.5%	5.5%	10.2%	6.5%	5.5%	5.5%	5.8%
Vectren Corp.	1.0%	2.5%	3.0%	2.2%	6.0%	2.5%	4.0%	4.2%
Wisconsin Energy Corp	10.0%	17.0%	7.0%	11.3%	6.5%	13.0%	3.5%	7.7%
Xcel Energy Inc.	4.5%	3.5%	4.5%	4.2%	6.0%	5.0%	4.5%	5.2%
Average				5.0%				4.7%

Source: Value Line Investment Survey, as of February and March of 2013.

**COMPARISON COMPANIES
 DCF COST RATES**

COMPANY	ADJUSTED YIELD	HISTORIC RETENTION GROWTH	PROSPECTIVE RETENTION GROWTH	HISTORIC PER SHARE GROWTH	PROSPECTIVE PER SHARE GROWTH	FIRST CALL EPS GROWTH	AVERAGE GROWTH	DCF RATES	
Parcell Proxy Group									
ALLETE	4.2%	2.2%	2.8%	2.5%	4.8%	4.00%	1/	3.3%	7.5%
Avista	4.8%	3.1%	2.8%	8.7%	3.8%	4.30%		4.5%	9.4%
Black Hills Corp	3.8%	1.1%	2.7%	0.8%	4.3%	6.00%		3.0%	6.8%
Cleco	3.2%	5.4%	4.7%	7.3%	7.7%	8.00%		6.6%	9.8%
Hawaiian Electric	4.7%	1.3%	3.0%	neg	5.2%	3.30%		3.2%	7.9%
IDACORP	3.4%	5.1%	4.0%	4.5%	4.8%	3.30%		4.4%	7.7%
NorthWestern Corp	4.1%	3.2%	3.5%	7.5%	4.7%	5.30%		4.8%	9.0%
Otter Tail Corp	4.3%		1.8%	neg	7.8%	6.00%		5.2%	9.5%
Pepco Holdings	5.4%	1.3%	1.8%	neg	2.8%	5.40%		2.8%	8.3%
Portland General Corp	3.8%	2.8%	3.8%	5.3%	4.2%	5.86%	1/	4.4%	8.2%
TECO Energy	5.2%	2.3%	2.3%	3.8%	2.7%	1.80%		2.6%	7.7%
UIL Holdings	4.6%	1.3%	2.5%	1.3%	2.8%	8.59%		3.3%	7.9%
Westar Energy	4.5%	2.4%	3.3%	3.7%	4.0%	6.50%	1/	4.0%	8.5%
Mean	4.3%	2.6%	3.0%	4.5%	4.6%	5.3%		4.0%	8.3%
Median	4.3%	2.3%	2.8%	4.2%	4.3%	5.4%		4.0%	8.2%
Composite - Mean		7.0%	7.3%	8.9%	8.9%	9.6%		8.3%	
Composite - Median		6.6%	7.1%	8.5%	8.6%	9.7%		8.3%	
Gorman Proxy Group									
ALLETE	4.3%	2.2%	2.8%	2.5%	5.7%	5.33%	1/	3.7%	8.0%
Alliant Energy Corp	4.1%	3.1%	4.0%	5.2%	4.3%	6.01%	1/	4.5%	8.6%
American Electric Power Co.	4.2%	4.1%	3.8%	3.2%	4.2%	3.71%	1/	3.8%	8.0%
Avista Corp	4.8%	3.1%	2.8%	8.7%	3.8%	4.17%	1/	4.5%	9.3%
Cleco Corp	3.2%	5.4%	4.7%	7.3%	7.7%	8.00%	1/	6.6%	9.8%
CMS Energy	4.0%	6.0%	5.3%	5.3%	7.3%	5.89%	1/	6.0%	10.0%
Consolidated Edison	4.3%	3.1%	3.3%	3.3%	2.8%	2.77%	1/	3.1%	7.4%
DTE Energy	3.9%	3.1%	3.3%	4.0%	4.2%	4.55%	1/	3.8%	7.8%
Edison International	2.9%	6.9%	6.0%	6.7%	3.0%	3.71%	1/	5.3%	8.1%
Great Plains Energy, Inc.	4.1%	1.7%	2.8%	neg	5.0%	5.88%	1/	3.8%	7.9%
IDACORP, Inc.	3.4%	5.1%	4.0%	4.5%	4.8%	4.00%	1/	4.5%	7.9%
Integrus Energy Group	5.0%	1.1%	2.2%	1.0%	2.3%	5.67%	1/	2.5%	7.4%
Northeast Utilities	3.7%	4.4%	3.7%	10.0%	7.5%	7.61%	1/	6.6%	10.3%
NorthWestern Corp	4.1%	3.2%	3.5%	7.5%	4.7%	4.89%	1/	4.8%	8.9%
PG&E Corp	4.4%	4.4%	3.5%	8.7%	3.2%	1.46%	1/	4.2%	8.6%
Pinnacle West Capital Corp	4.1%	2.1%	3.5%	1.3%	4.3%	6.13%	1/	3.5%	7.5%
Portland General Electric	3.8%	2.8%	3.8%	5.3%	4.2%	5.65%	1/	4.3%	8.1%
TECO Energy	5.2%	2.3%	2.3%	3.8%	2.7%	2.89%	1/	2.8%	8.0%
UIL Holdings	4.6%	1.3%	2.5%	1.3%	2.8%	6.08%	1/	2.8%	7.4%
Westar Energy	4.5%	2.4%	3.3%	3.7%	4.0%	5.47%	1/	3.8%	8.2%
Wisconsin Energy Corp	3.5%	6.7%	5.2%	11.3%	7.7%	5.30%	1/	7.2%	10.8%
Xcel Energy Inc.	3.9%	3.9%	4.0%	4.2%	5.2%	5.11%	1/	4.5%	8.4%
Mean	4.1%	3.6%	3.6%	5.2%	4.6%	5.0%		4.4%	8.5%
Median	4.1%	3.1%	3.5%	4.5%	4.3%	5.3%		4.3%	8.1%
Composite - Mean		7.7%	7.7%	9.3%	8.7%	9.1%		8.5%	
Composite - Median		7.2%	7.6%	8.6%	8.3%	9.4%		8.4%	

Note: Negative values not used in calculations.

1/ Projected EPS growth rates as shown in Exhibit No. ___ (MPG-10).

Sources: Prior pages of this exhibit.

**COMPARISON COMPANIES
 DCF COST RATES**

COMPANY	ADJUSTED YIELD	HISTORIC RETENTION GROWTH	PROSPECTIVE RETENTION GROWTH	HISTORIC PER SHARE GROWTH	PROSPECTIVE PER SHARE GROWTH	FIRST CALL EPS GROWTH 1/	AVERAGE GROWTH	DCF RATES
Morin Proxy Group								
Alliant Energy Corp	4.1%	3.1%	4.0%	5.2%	4.3%	6.1%	4.5%	8.6%
Avista Corp	4.8%	3.1%	2.8%	8.7%	3.8%	4.3%	4.5%	9.4%
Black Hills Corp.	3.8%	1.1%	2.7%	0.8%	4.3%	6.0%	3.0%	6.8%
CenterPoint Energy	3.9%	5.6%	4.7%	7.8%	4.2%	5.7%	5.6%	9.5%
CMS Energy	4.0%	6.0%	5.3%	3.5%	7.3%	6.0%	5.6%	9.6%
Consolidated Edison	4.3%	3.1%	3.3%	3.3%	2.8%	3.3%	3.2%	7.5%
Dominion Resources	4.2%	5.2%	4.7%	5.5%	5.0%	5.0%	5.1%	9.3%
DTE Energy	3.9%	3.1%	3.3%	4.0%	4.2%	5.0%	3.9%	7.8%
Duke Energy	4.5%	1.4%	2.3%	1.5%	3.3%	4.1%	2.5%	7.1%
Integrus Energy Group	5.0%	1.1%	2.2%	1.0%	2.3%	5.3%	2.4%	7.4%
MGE Energy	2.0%	4.4%	4.8%	4.5%	4.3%	4.0%	4.4%	6.4%
Northeast Utilities	3.7%	4.4%	3.7%	10.0%	7.5%	7.2%	6.6%	10.2%
NorthWestern Corp	4.1%	3.2%	3.5%	7.5%	4.7%	5.3%	4.8%	9.0%
NV Energy	4.1%	3.4%	3.5%	4.0%	9.7%	15.1%	7.1%	11.2%
OGE Energy	1.4%	6.6%	5.5%	6.3%	5.3%	5.4%	5.8%	7.2%
Pepco Holdings	5.4%	1.3%	1.8%	neg	2.8%	5.4%	2.8%	8.3%
PG&E Corp	4.4%	4.4%	3.5%	8.7%	3.2%	2.5%	4.5%	8.8%
SCANA Corp.	4.3%	3.9%	4.2%	3.5%	3.8%	4.8%	4.0%	8.3%
Sempra Energy	3.4%	7.4%	5.3%	6.8%	6.2%	4.3%	6.0%	9.4%
TECO Energy	5.2%	2.3%	2.3%	3.8%	2.7%	1.8%	2.6%	7.7%
UIL Holdings	4.6%	1.3%	2.5%	1.3%	2.8%	4.5%	2.5%	7.1%
UNS Energy	5.2%	4.5%	4.5%	10.2%	5.8%	6.3%	6.3%	11.5%
Vectren Corp.	4.4%	2.2%	3.5%	2.2%	4.2%	5.0%	3.4%	7.9%
Wisconsin Energy Corp	3.5%	6.7%	5.2%	11.3%	7.7%	5.4%	7.3%	10.8%
Xcel Energy Inc.	3.9%	3.9%	2.7%	4.2%	5.2%	4.9%	4.2%	8.1%
Mean	4.1%	3.7%	3.7%	5.2%	4.7%	5.3%	4.5%	8.6%
Median	4.1%	3.4%	3.5%	4.3%	4.3%	5.0%	4.5%	8.3%
Composite - Mean		7.8%	7.8%	9.3%	8.8%	9.4%	8.6%	
Composite - Median		7.5%	7.6%	8.5%	8.5%	9.1%	8.6%	

Note: Negative values not used in calculations.

1/ Projected EPS growth rates as shown in Exhibit No. ____ (RAM-5).

Sources: Prior pages of this exhibit.

Exhibit No. ____ (DCP-8)
Dockets UE-121697, et al.
Witness: David C. Parcell

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

**DOCKETS UE-121697 and
UG-121705 (*consolidated*)**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY, INC.

Respondent.

**DOCKETS UE-130137 and
UG-130138 (*consolidated*)**

**EXHIBIT TO
TESTIMONY OF**

David C. Parcell

**ON BEHALF OF THE STAFF OF WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION**

Standard & Poor's 500 Composite Risk Premiums

December 3, 2014

**STANDARD & POOR'S 500 COMPOSITE
 20-YEAR U.S. TREASURY BOND YIELDS
 RISK PREMIUMS**

Year	EPS	BVPS	ROE	20-YEAR T-BOND YIELD	RISK PREMIUM
1977		\$79.07			
1978	\$12.33	\$85.35	15.00%	7.90%	7.10%
1979	\$14.86	\$94.27	16.55%	8.86%	7.69%
1980	\$14.82	\$102.48	15.06%	9.97%	5.09%
1981	\$15.36	\$109.43	14.50%	11.55%	2.95%
1982	\$12.64	\$112.46	11.39%	13.50%	-2.11%
1983	\$14.03	\$116.93	12.23%	10.38%	1.85%
1984	\$16.64	\$122.47	13.90%	11.74%	2.16%
1985	\$14.61	\$125.20	11.80%	11.25%	0.55%
1986	\$14.48	\$126.82	11.49%	8.98%	2.51%
1987	\$17.50	\$134.04	13.42%	7.92%	5.50%
1988	\$23.75	\$141.32	17.25%	8.97%	8.28%
1989	\$22.87	\$147.26	15.85%	8.81%	7.04%
1990	\$21.73	\$153.01	14.47%	8.19%	6.28%
1991	\$16.29	\$158.85	10.45%	8.22%	2.23%
1992	\$19.09	\$149.74	12.37%	7.29%	5.08%
1993	\$21.89	\$180.88	13.24%	7.17%	6.07%
1994	\$30.60	\$193.06	16.37%	6.59%	9.78%
1995	\$33.96	\$215.51	16.62%	7.60%	9.02%
1996	\$38.73	\$237.08	17.11%	6.18%	10.93%
1997	\$39.72	\$249.52	16.33%	6.64%	9.69%
1998	\$37.71	\$266.40	14.62%	5.83%	8.79%
1999	\$48.17	\$290.68	17.29%	5.57%	11.72%
2000	\$50.00	\$325.80	16.22%	6.50%	9.72%
2001	\$24.69	\$338.37	7.43%	5.53%	1.90%
2002	\$27.59	\$321.72	8.36%	5.59%	2.77%
2003	\$48.73	\$367.17	14.15%	4.80%	9.35%
2004	\$58.55	\$414.75	14.98%	5.02%	9.96%
2005	\$69.93	\$453.06	16.12%	4.69%	11.43%
2006	\$81.51	\$504.39	17.03%	4.68%	12.35%
2007	\$66.17	\$529.59	12.80%	4.86%	7.94%
2008	\$14.88	\$451.37	3.03%	4.45%	-1.42%
2009	\$50.97	\$513.58	10.56%	3.47%	7.09%
2010	\$77.35	\$579.14	14.16%	4.25%	9.91%
2011	\$86.58	\$613.14	14.52%	3.81%	10.71%
2012	\$86.51	\$666.97	13.52%	2.40%	11.12%

Average

6.60%

Source: Standard & Poor's Analysts' Handbook, Ibbotson Associates Handbook.

Exhibit No. ____ (DCP-9)
Dockets UE-121697, et al.
Witness: David C. Parcell

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

**DOCKETS UE-121697 and
UG-121705 (*consolidated*)**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY, INC.

Respondent.

**DOCKETS UE-130137 and
UG-130138 (*consolidated*)**

**EXHIBIT TO
TESTIMONY OF**

David C. Parcell

**ON BEHALF OF THE STAFF OF WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION**

Proxy Companies CAPM Cost Rates

December 3, 2014

**COMPARISON COMPANIES
CAPM COST RATES**

COMPANY	RISK-FREE RATE	BETA	RISK PREMIUM	CAPM RATES
Parcell Proxy Group				
ALLETE	2.75%	0.70	5.50%	6.6%
Avista	2.75%	0.70	5.50%	6.6%
Black Hills Corp	2.75%	0.80	5.50%	7.1%
Cleco	2.75%	0.65	5.50%	6.3%
Hawaiian Electric	2.75%	0.70	5.50%	6.6%
IDACORP	2.75%	0.70	5.50%	6.6%
NorthWestern Corp	2.75%	0.70	5.50%	6.6%
Otter Tail Corp	2.75%	0.90	5.50%	7.7%
Pepco Holdings	2.75%	0.75	5.50%	6.9%
Portland General Corp	2.75%	0.75	5.50%	6.9%
TECO Energy	2.75%	0.85	5.50%	7.4%
UIL Holdings	2.75%	0.70	5.50%	6.6%
Westar Energy	2.75%	0.70	5.50%	6.6%
Mean				6.8%
Median				6.6%
Gorman Proxy Group				
ALLETE	2.75%	0.70	5.50%	6.6%
Alliant Energy Corp	2.75%	0.70	5.50%	6.6%
American Electric Power Co.	2.75%	0.65	5.50%	6.3%
Avista Corp	2.75%	0.70	5.50%	6.6%
Cleco Corp	2.75%	0.65	5.50%	6.3%
CMS Energy	2.75%	0.75	5.50%	6.9%
Consolidated Edison	2.75%	0.60	5.50%	6.0%
DTE Energy	2.75%	0.75	5.50%	6.9%
Edison International	2.75%	0.75	5.50%	6.9%
Great Plains Energy, Inc.	2.75%	0.75	5.50%	6.9%
IDACORP, Inc.	2.75%	0.70	5.50%	6.6%
Integrus Energy Group	2.75%	0.90	5.50%	7.7%
Northeast Utilities	2.75%	0.70	5.50%	6.6%
NorthWestern Corp	2.75%	0.70	5.50%	6.6%
PG&E Corp	2.75%	0.50	5.50%	5.5%
Pinnacle West Capital Corp	2.75%	0.70	5.50%	6.6%
Portland General Electric	2.75%	0.75	5.50%	6.9%
TECO Energy	2.75%	0.85	5.50%	7.4%
UIL Holdings	2.75%	0.70	5.50%	6.6%
Westar Energy	2.75%	0.70	5.50%	6.6%
Wisconsin Energy Corp	2.75%	0.60	5.50%	6.0%
Xcel Energy Inc.	2.75%	0.60	5.50%	6.0%
Mean				6.6%
Median				6.6%

Sources: Value Line Investment Survey, Standard & Poor's Analysts' Handbook, Federal Reserve.

<u>20-year Treasury Bonds</u>	
Month	Rate
January, 2013	2.68%
February, 2013	2.78%
March, 2013	2.78%
Average	2.75%

**COMPARISON COMPANIES
 CAPM COST RATES**

COMPANY	RISK-FREE RATE	BETA	RISK PREMIUM	CAPM RATES
Morin Proxy Group				
Alliant Energy Corp	2.75%	0.70	5.42%	6.5%
Avista Corp	2.75%	0.70	5.42%	6.5%
Black Hills Corp.	2.75%	0.80	5.42%	7.1%
CenterPoint Energy	2.75%	0.80	5.42%	7.1%
CMS Energy	2.75%	0.75	5.42%	6.8%
Consolidated Edison	2.75%	0.60	5.42%	6.0%
Dominion Resources	2.75%	0.65	5.42%	6.3%
DTE Energy	2.75%	0.75	5.42%	6.8%
Duke Energy	2.75%	0.60	5.42%	6.0%
Integrus Energy Group	2.75%	0.90	5.42%	7.6%
MGE Energy	2.75%	0.60	5.42%	6.0%
Northeast Utilities	2.75%	0.70	5.42%	6.5%
NorthWestern Corp	2.75%	0.70	5.42%	6.5%
NV Energy	2.75%	0.85	5.42%	7.4%
OGE Energy	2.75%	0.75	5.42%	6.8%
Pepco Holdings	2.75%	0.75	5.42%	6.8%
PG&E Corp	2.75%	0.50	5.42%	5.5%
SCANA Corp.	2.75%	0.65	5.42%	6.3%
Sempra Energy	2.75%	0.80	5.42%	7.1%
TECO Energy	2.75%	0.85	5.42%	7.4%
UIL Holdings	2.75%	0.70	5.42%	6.5%
UNS Energy	2.75%	0.70	5.42%	6.5%
Vectren Corp.	2.75%	0.70	5.42%	6.5%
Wisconsin Energy Corp	2.75%	0.60	5.42%	6.0%
Xcel Energy Inc.	2.75%	0.60	5.42%	6.0%
Mean				6.6%
Median				6.5%

Sources: Value Line Investment Survey, Standard & Poor's Analysts' Handbook, Federal Reserve.

20-year Treasury Bonds	
Month	Rate
January, 2013	2.68%
February, 2013	2.78%
March, 2013	2.78%
Average	2.75%

Exhibit No. ____ (DCP-10)
Dockets UE-121697, et al.
Witness: David C. Parcell

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY;

Respondent.

**DOCKETS UE-121697 and
UG-121705 (*consolidated*)**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY, INC.

Respondent.

**DOCKETS UE-130137 and
UG-130138 (*consolidated*)**

**EXHIBIT TO
TESTIMONY OF**

David C. Parcell

**ON BEHALF OF THE STAFF OF WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION**

***Proxy Companies Rates of Return on Average Common Equity
and Market-to-Book Ratios***

December 3, 2014

COMPARISON COMPANIES
 RATES OF RETURN ON AVERAGE COMMON EQUITY

COMPANY	2002-2008										2011	2012	2013	2014	2015-16	
	2002	2003	2004	2005	2006	2007	2008	2009	2010	Average						
Parsons Proxy Group																
ALLETE	4.5%	6.7%	12.7%	12.0%	13.2%	13.4%	11.4%	7.3%	8.2%	9.5%	8.7%	12.5%	8.4%	8.0%	8.5%	10.0%
Astar	1.1%	1.1%	4.6%	8.6%	8.6%	4.1%	7.5%	10.2%	8.5%	8.6%	8.6%	10.3%	6.4%	8.0%	8.5%	10.0%
Black Hills Corp	13.0%	11.6%	12.5%	11.8%	9.4%	8.2%	9.5%	7.5%	11.4%	11.4%	11.3%	11.0%	10.9%	10.5%	10.5%	11.0%
Constellation	11.1%	11.1%	9.3%	8.3%	7.7%	7.7%	7.0%	8.3%	7.7%	10.4%	10.4%	9.5%	8.3%	8.5%	9.0%	10.0%
ICACORP	7.1%	4.2%	8.2%	7.3%	8.0%	9.4%	9.3%	9.8%	9.8%	10.5%	10.5%	7.3%	9.3%	9.0%	9.0%	8.3%
NorthWestern Corp	16.3%	13.8%	10.8%	18.6%	16.4%	16.4%	16.4%	16.4%	21.1%	21.1%	6.5%	10.8%	3.9%	3.0%	3.0%	10.5%
Piedmont	9.8%	7.6%	6.3%	8.1%	7.1%	7.9%	9.9%	5.5%	6.5%	6.5%	6.5%	8.4%	6.1%	7.0%	8.0%	10.5%
Portland General Corp	18.5%	-0.7%	9.2%	14.2%	14.7%	14.3%	15.1%	10.4%	8.0%	8.0%	8.3%	8.0%	7.9%	8.0%	10.0%	9.0%
TECO Energy	5.9%	8.1%	7.1%	8.1%	8.1%	8.1%	8.1%	10.4%	12.3%	9.4%	9.4%	8.2%	9.6%	10.0%	9.5%	9.0%
UL Holdings	5.0%	10.6%	7.7%	9.6%	11.1%	10.0%	6.7%	6.3%	6.6%	8.2%	8.2%	8.2%	8.2%	8.5%	9.0%	9.0%
Average	10.2%	7.8%	9.9%	10.1%	9.6%	9.4%	7.7%	7.7%	8.3%	8.5%	8.8%	9.1%	8.3%	8.7%	8.1%	9.6%
Median	10.9%	8.3%	8.3%	9.7%	8.4%	10.0%	8.0%	8.4%	8.5%	5.1%	9.3%	9.2%	9.8%	9.0%	9.0%	9.0%
Comman Proxy Group																
ALLETE	5.7%	7.6%	12.7%	12.0%	13.2%	13.4%	11.4%	7.3%	8.2%	9.5%	8.7%	12.5%	8.4%	8.0%	8.5%	10.0%
Alliant Energy Corp	12.3%	12.4%	12.7%	11.8%	12.7%	11.4%	10.2%	7.5%	10.8%	10.3%	10.3%	10.0%	9.9%	11.0%	11.0%	8.7%
American Electric Power Co.	10.5%	11.5%	12.6%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%
Astoria Corp	10.5%	11.5%	12.6%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%	11.8%
Constellation Edison	11.5%	10.0%	10.2%	10.4%	9.7%	10.9%	9.9%	6.7%	9.3%	9.3%	9.3%	9.3%	9.3%	9.3%	9.3%	9.0%
DTE Energy	13.7%	8.7%	5.0%	17.7%	14.9%	13.4%	10.6%	4.9%	10.7%	10.3%	10.3%	15.5%	11.5%	11.0%	11.0%	10.0%
Edison International	15.6%	18.6%	16.9%	13.7%	14.9%	13.4%	10.6%	4.9%	10.7%	10.3%	10.3%	15.5%	11.5%	11.0%	11.0%	10.0%
Great Plains Energy, Inc.	7.1%	4.2%	8.2%	7.3%	7.1%	7.1%	6.0%	9.3%	9.6%	5.6%	6.2%	12.7%	8.1%	8.5%	7.0%	8.0%
ICACORP	11.9%	10.7%	14.4%	13.2%	10.3%	6.3%	3.9%	5.8%	4.0%	10.9%	10.9%	7.3%	9.9%	8.5%	8.0%	8.0%
Inergy Energy Group	6.4%	7.1%	5.1%	16.6%	6.4%	5.9%	6.4%	5.4%	6.6%	10.9%	10.9%	9.3%	9.5%	9.0%	10.0%	10.0%
Northwest Utilities	nmtf	20.9%	13.8%	11.7%	13.2%	11.9%	11.3%	11.3%	10.0%	9.6%	9.6%	14.1%	9.5%	8.5%	8.5%	10.0%
PG&E Corp	6.6%	8.3%	9.2%	6.7%	8.2%	8.5%	8.1%	6.8%	8.3%	8.7%	8.8%	7.7%	9.0%	9.5%	9.5%	10.0%
Pinnacle West Capital Corp	18.5%	-0.7%	9.2%	14.2%	14.7%	14.3%	15.1%	10.4%	8.0%	8.0%	8.3%	8.0%	7.9%	8.0%	10.0%	9.0%
PL Energy	8.9%	8.1%	7.1%	8.1%	8.1%	8.1%	8.1%	10.4%	12.3%	9.4%	9.4%	10.6%	11.2%	10.0%	9.5%	10.0%
UP Energy	5.0%	10.6%	7.7%	9.6%	11.1%	10.0%	10.7%	10.2%	9.8%	8.2%	8.2%	8.6%	8.2%	8.5%	9.0%	8.0%
Wastar Energy	12.8%	11.8%	10.6%	11.8%	11.1%	11.1%	10.9%	10.6%	8.5%	8.2%	8.2%	8.1%	8.2%	8.5%	9.0%	8.0%
Wisconsin Energy Corp	2.8%	10.0%	5.5%	8.1%	3.8%	9.3%	8.7%	9.8%	9.5%	10.1%	10.4%	8.6%	9.3%	8.5%	9.5%	13.0%
Xcel Energy, Inc.	9.9%	10.0%	8.4%	10.7%	9.8%	9.7%	9.1%	8.7%	9.5%	9.8%	9.8%	9.8%	9.4%	9.4%	9.1%	9.9%
Average	11.5%	10.0%	6.4%	10.4%	9.6%	10.1%	9.8%	9.0%	9.6%	9.8%	9.7%	9.9%	9.5%	9.8%	9.0%	9.6%
Median	11.5%	10.0%	6.4%	10.4%	9.6%	10.1%	9.8%	9.0%	9.6%	9.8%	9.7%	9.9%	9.5%	9.8%	9.0%	9.6%
Merlin Proxy Group																
Alliant Energy Corp	5.7%	7.6%	12.7%	12.0%	13.2%	13.4%	11.4%	7.3%	8.2%	9.5%	8.7%	12.5%	8.4%	8.0%	8.5%	10.0%
Astoria Corp	4.5%	6.7%	12.7%	12.0%	13.2%	13.4%	11.4%	7.3%	8.2%	9.5%	8.7%	12.5%	8.4%	8.0%	8.5%	10.0%
Black Hills Corp	12.1%	8.5%	7.9%	8.4%	10.9%	4.1%	7.6%	10.2%	8.5%	8.6%	8.6%	6.4%	6.0%	6.0%	6.0%	11.0%
CenterPoint Energy	9.6%	26.1%	13.1%	17.2%	28.1%	22.1%	12.5%	12.5%	12.5%	12.5%	12.5%	12.5%	12.5%	12.5%	12.5%	12.5%
Constellation	11.5%	10.0%	10.2%	10.4%	9.7%	10.9%	9.9%	6.7%	9.3%	9.3%	9.3%	9.3%	9.3%	9.3%	9.3%	9.0%
Dominion Resources	14.5%	12.0%	12.5%	9.4%	14.3%	12.2%	18.1%	14.7%	14.7%	13.6%	14.3%	14.3%	14.3%	14.3%	14.3%	15.0%
DTE Energy	13.7%	8.7%	5.0%	17.7%	14.9%	13.4%	10.6%	4.9%	10.7%	10.3%	10.3%	15.5%	11.5%	11.0%	11.0%	10.0%
Edison International	15.6%	18.6%	16.9%	13.7%	14.9%	13.4%	10.6%	4.9%	10.7%	10.3%	10.3%	15.5%	11.5%	11.0%	11.0%	10.0%
ICACORP	7.1%	4.2%	8.2%	7.3%	7.1%	7.1%	6.0%	9.3%	9.6%	5.6%	6.2%	12.7%	8.1%	8.5%	7.0%	8.0%
Inergy Energy Group	6.4%	7.1%	5.1%	16.6%	6.4%	5.9%	6.4%	5.4%	6.6%	10.9%	10.9%	9.3%	9.5%	9.0%	10.0%	10.0%
Northwest Utilities	nmtf	20.9%	13.8%	11.7%	13.2%	11.9%	11.3%	11.3%	10.0%	9.6%	9.6%	14.1%	9.5%	8.5%	8.5%	10.0%
PG&E Corp	6.6%	8.3%	9.2%	6.7%	8.2%	8.5%	8.1%	6.8%	8.3%	8.7%	8.8%	7.7%	9.0%	9.5%	9.5%	10.0%
Pinnacle West Capital Corp	18.5%	-0.7%	9.2%	14.2%	14.7%	14.3%	15.1%	10.4%	8.0%	8.0%	8.3%	8.0%	7.9%	8.0%	10.0%	9.0%
PL Energy	8.9%	8.1%	7.1%	8.1%	8.1%	8.1%	8.1%	10.4%	12.3%	9.4%	9.4%	10.6%	11.2%	10.0%	9.5%	10.0%
UP Energy	5.0%	10.6%	7.7%	9.6%	11.1%	10.0%	10.7%	10.2%	9.8%	8.2%	8.2%	8.6%	8.2%	8.5%	9.0%	8.0%
Wastar Energy	12.8%	11.8%	10.6%	11.8%	11.1%	11.1%	10.9%	10.6%	8.5%	8.2%	8.2%	8.1%	8.2%	8.5%	9.0%	8.0%
Wisconsin Energy Corp	2.8%	10.0%	5.5%	8.1%	3.8%	9.3%	8.7%	9.8%	9.5%	10.1%	10.4%	8.6%	9.3%	8.5%	9.5%	13.0%
Xcel Energy, Inc.	9.9%	10.0%	8.4%	10.7%	9.8%	9.7%	9.1%	8.7%	9.5%	9.8%	9.8%	9.8%	9.4%	9.4%	9.1%	9.9%
Average	10.7%	10.6%	8.8%	10.5%	10.8%	10.3%	9.9%	9.8%	10.1%	10.1%	10.1%	9.9%	10.0%	10.3%	10.3%	10.4%
Median	11.5%	10.0%	8.8%	10.2%	9.6%	10.9%	9.9%	9.6%	9.9%	10.0%	9.7%	10.2%	9.8%	9.6%	10.0%	10.0%

Source: Calculations made from data compiled in Value Line Investment Survey.

COMPARISON COMPANIES
 MARKET TO BOOK RATIOS

COMPANY	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2002-2009 Average	2008-2012 Average
Parcell Proxy Group													
ALLETE	85%	94%	322%	212%	219%	195%	156%	113%	127%	148%	180%	271%	129%
Avalara	12%	11%	111%	125%	129%	129%	124%	77%	106%	130%	123%	111%	111%
Black Hills Corp	154%	134%	177%	153%	154%	154%	124%	77%	106%	105%	121%	146%	104%
Hawaiian Electric	153%	151%	179%	181%	192%	185%	133%	129%	140%	150%	166%	157%	147%
IDACORP	134%	112%	125%	138%	122%	138%	104%	94%	113%	119%	123%	126%	142%
NorthWestern Corp	265%	208%	282%	282%	176%	176%	187%	108%	120%	123%	162%	185%	128%
Oiler Tail Corp	110%	103%	109%	122%	123%	141%	108%	108%	120%	123%	126%	185%	128%
Portland General Corp	135%	111%	174%	243%	202%	153%	140%	75%	92%	96%	101%	118%	92%
TECO Energy	126%	113%	133%	135%	174%	189%	171%	131%	164%	172%	189%	178%	159%
UIL Holdings	57%	109%	132%	142%	159%	140%	107%	91%	111%	119%	133%	144%	116%
Westar Energy	135%	127%	162%	173%	164%	161%	133%	103%	121%	130%	139%	163%	124%
Average	135%	127%	162%	173%	164%	161%	133%	103%	121%	130%	139%	163%	124%
Median	135%	113%	134%	171%	160%	162%	124%	105%	120%	123%	135%	163%	121%
Genman Proxy Group													
ALLETE	110%	97%	322%	212%	216%	195%	156%	113%	127%	138%	165%	271%	129%
Aliant Energy Corp	120%	135%	120%	135%	155%	155%	127%	110%	118%	126%	134%	162%	131%
American Electric Power Co.	177%	177%	111%	115%	135%	137%	110%	113%	106%	126%	124%	154%	123%
Chico Corp	154%	134%	177%	177%	162%	162%	132%	126%	139%	151%	168%	157%	147%
CMS Energy	137%	80%	90%	125%	142%	177%	177%	117%	148%	170%	182%	125%	151%
Consolidated Edison	144%	146%	146%	154%	149%	151%	123%	110%	155%	121%	137%	134%	116%
DTE Energy	146%	142%	142%	142%	142%	142%	142%	142%	142%	142%	142%	142%	142%
Edison International	145%	142%	142%	142%	142%	142%	142%	142%	142%	142%	142%	142%	142%
Genman Energy, Inc.	133%	188%	218%	189%	181%	203%	146%	101%	111%	117%	146%	162%	119%
IDACORP, Inc.	134%	112%	122%	139%	132%	132%	113%	73%	87%	89%	87%	176%	87%
Inspire Energy Group	154%	162%	166%	174%	155%	139%	139%	62%	126%	126%	147%	151%	112%
NorthWestern Corp	89%	95%	109%	108%	131%	153%	105%	105%	122%	138%	146%	175%	128%
NorthWestern Corp	146%	203%	198%	179%	201%	203%	144%	148%	148%	146%	145%	147%	147%
PG&E Corp	116%	114%	130%	130%	129%	127%	100%	90%	113%	125%	141%	121%	117%
Portland General Corp	135%	111%	174%	243%	202%	140%	101%	63%	97%	108%	117%	131%	102%
TECO Energy	126%	113%	133%	135%	174%	189%	171%	131%	164%	172%	189%	178%	159%
UIL Holdings	57%	109%	132%	142%	159%	140%	107%	91%	111%	119%	133%	144%	116%
Westar Energy Corp	120%	143%	166%	168%	183%	179%	153%	147%	171%	186%	213%	189%	179%
Xcel Energy Inc.	113%	113%	132%	139%	150%	154%	127%	121%	135%	143%	166%	133%	139%
Average	127%	120%	154%	164%	151%	164%	128%	108%	126%	137%	147%	148%	130%
Median	134%	113%	130%	154%	155%	163%	127%	108%	125%	138%	146%	141%	129%
Merlin Proxy Group													
Aliant Energy Corp	110%	97%	322%	212%	216%	195%	156%	113%	127%	138%	165%	271%	129%
Avalara	85%	94%	111%	115%	135%	137%	110%	113%	106%	126%	134%	162%	131%
Black Hills Corp	143%	134%	177%	153%	154%	154%	124%	77%	106%	105%	121%	146%	111%
CenterPoint Energy	116%	142%	209%	239%	312%	377%	127%	110%	148%	210%	232%	241%	189%
CMS Energy	144%	146%	143%	154%	149%	151%	124%	110%	148%	170%	192%	125%	157%
Consolidated Edison	158%	180%	185%	242%	229%	255%	236%	186%	207%	236%	272%	144%	132%
Dominion Resources	146%	140%	132%	140%	143%	143%	101%	91%	116%	121%	137%	134%	226%
Duke Energy	171%	109%	138%	157%	153%	102%	102%	82%	126%	129%	147%	151%	121%
Integrus Energy Group	154%	162%	166%	174%	155%	139%	139%	62%	126%	126%	147%	151%	112%
NorthWestern Corp	89%	95%	109%	108%	131%	153%	105%	105%	122%	138%	146%	175%	128%
NorthWestern Corp	146%	203%	198%	179%	201%	203%	144%	148%	148%	146%	145%	147%	147%
PG&E Corp	116%	114%	130%	130%	129%	127%	100%	90%	113%	125%	141%	121%	117%
Portland General Corp	135%	111%	174%	243%	202%	140%	101%	63%	97%	108%	117%	131%	102%
TECO Energy	126%	113%	133%	135%	174%	189%	171%	131%	164%	172%	189%	178%	159%
UIL Holdings	57%	109%	132%	142%	159%	140%	107%	91%	111%	119%	133%	144%	116%
Westar Energy Corp	120%	143%	166%	168%	183%	179%	153%	147%	171%	186%	213%	189%	179%
Xcel Energy Inc.	113%	113%	132%	139%	150%	154%	127%	121%	135%	143%	166%	133%	139%
Average	136%	134%	160%	173%	172%	174%	140%	120%	137%	149%	160%	166%	142%
Median	137%	142%	144%	160%	160%	173%	131%	121%	136%	146%	153%	151%	139%

Source: Calculations made from data contained in Value Line Investment Survey.

Exhibit No. ____ (DCP-11)
Dockets UE-121697, et al.
Witness: David C. Parcell

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

**DOCKETS UE-121697 and
UG-121705 (*consolidated*)**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY, INC.

Respondent.

**DOCKETS UE-130137 and
UG-130138 (*consolidated*)**

**EXHIBIT TO
TESTIMONY OF**

David C. Parcell

**ON BEHALF OF THE STAFF OF WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION**

*Standard & Poor's 500 Composite Returns on Equity
and Market-to-Book Ratios*

December 3, 2014

**STANDARD & POOR'S 500 COMPOSITE
RETURNS AND MARKET-TO-BOOK RATIOS
2002 - 2012**

YEAR	RETURN ON AVERAGE EQUITY	MARKET-TO BOOK RATIO
2002	8.4%	296%
2003	14.2%	278%
2004	15.0%	291%
2005	16.1%	278%
2006	17.0%	277%
2007	12.8%	284%
2008	3.0%	224%
2009	10.6%	187%
2010	14.2%	208%
2011	14.6%	208%
2012	13.5%	214%
Averages:		
2002-2008	12.4%	275%
2009-2012	13.2%	204%

Source: Standard & Poor's Analysts' Handbook.

Exhibit No. ____ (DCP-12)
Dockets UE-121697, et al.
Witness: David C. Parcell

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

**DOCKETS UE-121697 and
UG-121705 (*consolidated*)**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY, INC.

Respondent.

**DOCKETS UE-130137 and
UG-130138 (*consolidated*)**

**EXHIBIT TO
TESTIMONY OF**

David C. Parcell

**ON BEHALF OF THE STAFF OF WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION**

Risk Indicators

December 3, 2014

RISK INDICATORS 1/

COMPANY	VALUE LINE SAFETY	VALUE LINE BETA	VALUE LINE FINANCIAL STRENGTH		S&P STOCK RANKING	
Parcell Proxy Group						
ALLETE	2	0.70	A	4.00	B	3.00
Avista	2	0.70	A	4.00	A-	3.67
Black Hills Corp	3	0.80	B+	3.33	B	3.00
Cleco	1	0.65	A	4.00	B	3.00
Hawaiian Electric	2	0.70	B++	3.67	B	3.00
IDACORP	3	0.70	B+	3.33	B+	3.33
NorthWestern Corp	3	0.70	B+	3.33	nr	
Otter Tail Corp	3	0.90	B+	3.33	B	3.00
Pepco Holdings	3	0.75	B	3.00	B	3.00
Portland General Corp	2	0.75	B++	3.67	nr	
TECO Energy	2	0.85	B++	3.67	B	3.00
UIL Holdings	2	0.70	B++	3.67	B	3.00
Westar Energy	2	0.70	B++	3.67	B+	3.33
	2.3	0.74	B++	3.59	B	3.12
Gorman Proxy Group						
ALLETE	2	0.70	A	4.00	A	4.00
Alliant Energy Corp	2	0.70	A	4.00	B	3.00
American Electric Power Co.	3	0.65	B++	3.67	B	3.00
Avista Corp	2	0.70	A	4.00	A-	3.67
Cleco Corp	1	0.65	A	4.00	B	3.00
CMS Energy	3	0.75	B+	3.33	B	3.00
Consolidated Edison	1	0.60	A+	4.33	B+	3.33
DTE Energy	2	0.75	B++	3.67	B+	3.33
Edison International	3	0.75	B+	3.33	B	3.00
Great Plains Energy, Inc.	3	0.75	B+	3.33	B	3.00
IDACORP, Inc.	3	0.70	B+	3.33	B+	3.33
Integrus Energy Group	2	0.90	B++	3.67	B	3.00
Northeast Utilities	2	0.70	B++	3.67	B	3.00
NorthWestern Corp	3	0.70	B+	3.33	nr	
PG&E Corp	3	0.50	B++	3.67	B	3.00
Pinnacle West Capital Corp	2	0.70	B++	3.67	B	3.00
Portland General Electric	2	0.75	B++	3.67	nr	0.00
TECO Energy	2	0.85	B++	3.67	B	3.00
UIL Holdings	2	0.70	B++	3.67	B	3.00
Westar Energy	2	0.70	B++	3.67	B+	3.33
Wisconsin Energy Corp	1	0.60	A	4.00	A-	3.67
Xcel Energy Inc.	2	0.60	B++	3.67	B+	3.33
Average	2.2	0.70	B++	3.70	B	3.05
Morin Proxy Group						
Alliant Energy Corp	2	0.70	A	4.00	B	3.00
Avista Corp	2	0.70	A	4.00	A-	3.67
Black Hills Corp.	3	0.80	B+	3.33	B	3.00
CenterPoint Energy	2	0.80	B++	3.67	B	3.00
CMS Energy	3	0.75	B+	3.33	B	3.00
Consolidated Edison	1	0.60	A+	4.33	B+	3.33
Dominion Resources	2	0.65	B++	3.67	B+	3.33
DTE Energy	2	0.75	B++	3.67	B+	3.33
Duke Energy	2	0.60	A	4.00	A-	3.67
Integrus Energy Group	2	0.90	B++	3.67	B	3.00
MGE Energy	1	0.60	A	4.00	B+	3.33
Northeast Utilities	2	0.70	B++	3.67	B	3.00
NorthWestern Corp	3	0.70	B+	3.33	nr	
NV Energy	3	0.85	B	3.00	B	3.00
OGE Energy	2	0.75	A	4.00	A-	3.67
Pepco Holdings	3	0.75	B	3.00	B	3.00
PG&E Corp	3	0.50	B++	3.67	B	3.00
SCANA Corp.	2	0.65	B++	3.67	A-	3.67
Sempra Energy	2	0.80	A	4.00	A-	3.67
TECO Energy	2	0.85	B++	3.67	B	3.00
UIL Holdings	2	0.70	B++	3.67	B	3.00
UNS Energy	3	0.70	B+	3.33	A-	3.67
Vectren Corp.	2	0.70	A	4.00	B+	3.33
Wisconsin Energy Corp	1	0.60	A	4.00	A-	3.67
Xcel Energy Inc.	2	0.60	B++	3.67	B+	3.33
Average	2.2	0.71	B++	3.69	B+	3.28

1/ Indicator values as of first quarter of 2013.

Sources: Value Line Investment Survey, Standard & Poor's Stock Guide.

RISK INDICATORS

GROUP	VALUE LINE SAFETY	VALUE LINE BETA	VALUE LINE FIN STR	S & P STK RANK
S & P's 500 Composite	2.7	1.05	B++	B
Parcell Proxy Group	2.3	0.74	B++	B
Gorman Proxy Group	2.2	0.70	B++	B
Morin Proxy Group	2.2	0.71	B++	B+

Sources: Value Line Investment Survey, Standard & Poor's Stock Guide.

Definitions:

Safety rankings are in a range of 1 to 5, with 1 representing the highest safety or lowest risk.

Beta reflects the variability of a particular stock, relative to the market as a whole. A stock with a beta of 1.0 moves in concert with the market, a stock with a beta below 1.0 is less variable than the market, and a stock with a beta above 1.0 is more variable than the market.

Financial strengths range from C to A++, with the latter representing the highest level.

Common stock rankings range from D to A+, with the latter representing the highest level.

Exhibit No. ____ (DCP-13)
Dockets UE-121697, et al.
Witness: David C. Parcell

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

**DOCKETS UE-121697 and
UG-121705 (*consolidated*)**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY, INC.

Respondent.

**DOCKETS UE-130137 and
UG-130138 (*consolidated*)**

**EXHIBIT TO
TESTIMONY OF**

David C. Parcell

**ON BEHALF OF THE STAFF OF WASHINGTON
UTILITIES AND TRANSPORTATION COMMISSION**

*Allowed Return on Equity and Common Equity Ratios
for Electric Utilities in 2012 and 2013*

December 3, 2014

**AUTHORIZED RETURNS ON EQUITY FOR ELETRIC AND
 NATURAL GAS UTILITIES**

Period	Regulatory Research		EEI
	Electric 1/	Gas	Electric
1Q 2012	10.30%	9.63%	10.84%
2Q 2012	9.92%	9.83%	9.92%
3Q 2012	9.78%	9.75%	9.78%
4Q 2012	10.05%	10.06%	10.05%
1Q 2013	9.73%	9.57%	10.23%
2Q 2013	9.84%	9.47%	9.77%
3Q 2013	9.83%	9.60%	10.06%
4Q 2013	9.81%	9.83%	9.90%
2012 Avg.	10.01%	9.94%	
2013 Avg.	9.80%	9.68%	

1/ Excludes Virginia surcharge/ rider generation cases, as noted by RRA in its publication.

Sources: Regulatory Research Associates, Regulatory Focus;
 Edison Electric Institute, Rate Case Summary.