EXH. DAD-1Tr DOCKETS UE-190529/UG-190530 2019 PSE GENERAL RATE CASE WITNESS: DANIEL A. DOYLE

#### BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

Docket UE-190529 Docket UG-190530

**PUGET SOUND ENERGY,** 

Respondent.

PREFILED DIRECT TESTIMONY (NONCONFIDENTIAL) OF

DANIEL A. DOYLE

**ON BEHALF OF PUGET SOUND ENERGY** 

REVISED August 22, 2019

JUNE 20, 2019

#### PUGET SOUND ENERGY

### PREFILED DIRECT TESTIMONY (NONCONFIDENTIAL) OF DANIEL A. DOYLE

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#### PUGET SOUND ENERGY

#### PREFILED DIRECT TESTIMONY (NONCONFIDENTIAL) OF DANIEL A. DOYLE

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	PUGET SOUND ENERGY					
	PREFILED DIRECT TESTIMONY (NONCONFIDENTIAL) OF DANIEL A. DOYLE					
	I. INTRODUCTION					
Q.	Please state your name, business address, and position with Puget Sound					
	Energy.					
А.	My name is Daniel A. Doyle. My business address is 355 110th Avenue NE,					
	P.O. Box 97034, Bellevue, WA 98009-9734. I am Senior Vice President and					
	Chief Financial Officer of Puget Sound Energy ("PSE").					
Q.	Have you prepared an exhibit describing your education, relevant					
	employment experience, and other professional qualifications?					
A.	Yes. Please see the First Exhibit to the Prefiled Direct Testimony of Daniel A.					
	Doyle, Exh. DAD-2, which also describes my duties as PSE's Chief Financial					
	Officer.					
Q.	What is the nature of your prefiled direct testimony in this proceeding?					
A.	This prefiled direct testimony addresses the following:					
	(i) actions taken by PSE prior to and during the test year to improve its earnings;					
	<ul> <li>the request for an attrition adjustment to address the backward-looking, historical nature of traditional ratemaking;</li> </ul>					
(Non	led Direct Testimony Exh. DAD-1Tr confidential) of Page 1 of 49 el A. Doyle					

1 2		<ul><li>(iii) PSE's request for a 9.8 percent return on equity and a</li><li>48.5 percent equity ratio; and</li></ul>
3		(iv) PSE's credit ratings.
4	Q.	Please summarize your testimony
5	A.	PSE is requesting a 9.8 percent return on equity and a 48.5 percent equity ratio. It
6		is important to understand the context within which PSE makes this request. Tax
7		reform had a significant negative impact on PSE's cash flow. The Prefiled Direct
8		Testimony of Matthew R. Marcelia, Exh. MRM-1T, quantifies the test year
9		reduction to PSE's cash flow at \$107 million. This reduction in cash flow resulted
10		in significant degradation of PSE's cash flow-based credit metrics,
11		notwithstanding the actions taken by PSE prior to and during the test year to
12		improve its earnings. Accordingly, PSE's requested 9.8 percent return on equity
13		and 48.5 percent are important components of restoring the negative cash flow
14		impacts caused by tax reform.
15		PSE considered the impact of two significant requests that are an integral part of
16		this filing in connection with restoring the negative impacts of tax reform. The
17		first is the requested attrition adjustment that will increase rate year after-tax cash
18		flows by approximately \$40 million. The second is the use of end-of-period rate
19		base to determine the revenue requirement in this filing, which will increase test
20		year after-tax flows by approximately \$51 million. The end-of-period rate base
21		cash flow increase includes depreciation and the after tax equity return. These two
22		items will restore approximately \$91 million of the \$107 million test year after-

tax cash flow deficit related to tax reform and will improve PSE's cash-based credit metrics toward pre-tax reform levels.

As discussed in this prefiled direct testimony, PSE's authorized returns on equity and equity ratios have historically been below industry averages, which has been and continues to be a credit rating negative. Over time, PSE believes its ability to compete for capital would be improved if its return on equity and equity ratio were closer to industry averages. PSE's requested return on equity of 9.8 percent would be very close to industry averages, but PSE's requested capital structure with an equity ratio of 48.5 percent would remain below industry averages.

10PSE's requested capital structure with an equity ratio of 48.5 percent is consistent11with a more gradual, flexible approach to improve PSE's ability to compete for12capital and restore pre-tax reform cash flow and funds from operations over time.13Given the significant cash flow benefits that arise from PSE's requested attrition14and end of period rate base adjustments to the equity ratio toward industry15averages can be made incrementally over time to mitigate rate impacts to16customers.

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#### II. ACTIONS TAKEN BY PSE PRIOR TO AND DURING THE TEST YEAR TO IMPROVE ITS EARNINGS

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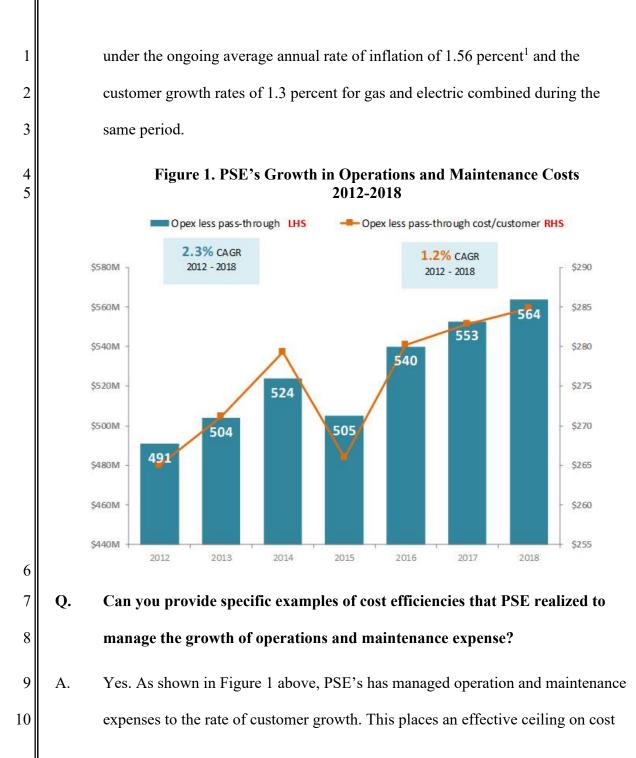
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Q. Did PSE earn its authorized rate of return during the test year?

A. No, as discussed in detail later in this testimony, PSE did not earn either its
authorized rate of return of 7.6 percent or its authorized return on equity of

9.5 percent during the test year. As reported in the Commission Basis Reports

1		filed with the Commission on March 28, 2019, in Dockets UE-190211 and UG-				
2		190212 (the "2018 Commission Basis Reports"), PSE's earned the following rates				
3		of return and returns on equity:				
4 5 6		(i) the 2018 Commission Basis Reports states that PSE's electric business earned a rate of return of 7.12 percent and a return on equity of 8.54 percent during the test year; and				
7 8 9		<ul> <li>(ii) the 2018 Commission Basis Reports states that PSE's gas business earned a rate of return of 5.64 percent and a return on equity of 5.5 percent during the test year.</li> </ul>				
10	Q.	What actions has PSE taken during the test year to improve its earnings in				
11		addition to its request for increased rates?				
12	A.	As an organization that provides essential services to its customers, it is				
13		incumbent upon PSE to provide that service at a reasonable price to customers				
14		and simultaneously maintain its financial performance to adequately reward both				
15		debt and equity investors and maintain access to the capital markets at a				
16		reasonable cost. To meet these important ends, PSE implemented a broad-based				
17		approach to manage operating expenditures. Simply put, growth in budgets and				
18		spending were targeted at the rate of customer growth during both the rate plan				
19		and test year in this proceeding. It should be noted that this approach is intended				
20		to be more of a guideline to manage spending rather than a strict target.				
21		As illustrated in Figure 1 below, PSE continues to manage the growth of				
22		operation and maintenance expense per customer (excluding pass-through items				
23		such as low income and Commission fees) to an annual average increase of				
24		1.2 percent compound average growth rate during the 2012-2018 period, which is				



<sup>&</sup>lt;sup>1</sup> Federal Reserve Bank of Minneapolis, *Consumer Price Index, 1913*-, available at <u>https://www.minneapolisfed.org/community/financial-and-economic-education/cpi-calculator-information/consumer-price-index-and-inflation-rates-1913</u>

growth and ensures that limited cash resources are driven toward higher priority initiatives for the benefit of customers.

3 Another example of cost-saving measures implemented by PSE to manage the 4 growth of operations and maintenance expense is the cost efficiency and 5 innovation program, commonly known within PSE as the "Be Excellent" 6 program. This program has generated estimated savings totaling \$11.9 million 7 over three years (annual average savings of about \$4 million). These savings have 8 been generated from a number of small activities, including deactivating under-9 utilized mobile devices and identifying opportunities for process improvement 10 and automation. The "Be Excellent" program is clearly producing tangible cost 11 efficiency benefits. Finally, PSE's "Get to Zero" initiative has delivered cost efficiencies, which are

Finally, PSE's "Get to Zero" initiative has delivered cost efficiencies, which are
described in more detail in the Prefiled Direct Testimony of Joshua J. Jacobs,
Exh. JJJ-1T, and the Financial Transparency and Improvement Program ("FTIP")
has provided the costs saving described in the Prefiled Direct Testimony of
Matthew R. Marcelia, Exh. MRM-1T.

#### 17 Q. Has PSE continued to manage its cost of debt financing?

18 A. Yes. PSE has continued to manage its cost of debt financing. For example, the
19 following three transactions had a material impact on cost containment in the test
20 year:

(i) in October 2017, PSE refinanced and reduced the size of its operating company credit facility, resulting in an approximate \$350,000 reduction in commitment fees annually;

Prefiled Direct Testimony (Nonconfidential) of Daniel A. Doyle

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1 2 3 4		(ii)	in March 2018, PSE tendered and called \$250 million floating rate junior subordinated notes, thereby eliminating floating interest rate risk and resulting in an approximate \$625,000 in annual interest savings based on current rates;
5 6 7		(iii)	in June 2018, PSE refinanced the 6.740% \$200 million 20-year notes with new 4.223% \$600 million 30-year notes, which resulted in an approximate \$5 million in annual interest savings.
8		In sum total,	hese three refinancings will save customers approximately
9		\$6 million in	annual pretax interest costs and eliminated some floating interest
10		rate risk. Plea	se see the Prefiled Direct Testimony of Matthew D. McArthur,
11		Exh. MDM-1	T, for a discussion of PSE's financings.
12	Q.	Please descri	be PSE's capital investment program.
13	A.	PSE makes si	gnificant capital investment in a number of areas, and PSE's capital
14		investments p	rogram can be categorized into the following six major areas:
15 16 17 18 19 20 21 22 23 24		(i)	<b>Strategic and Risk Mitigation Investments</b> are (a) investments that have a significant impact on how PSE does business and/or serves the customer (e.g., Get to Zero, AMI, grid modernization, integrated work management) or (b) are investments made to mitigate corporate risks identified through the company's enterprise risk management process (e.g., replacement of data centers, improving disaster recovery capabilities for PSE's information technology systems, the Lower Baker Dam re- grouting project).
25 26 27 28 29 30		(ii)	<b>Distribution and Transmission Investments</b> are investments that focus primarily on electric and gas system safety, dependability, and reliability (e.g., worst-performing circuits, replacing failing underground wiring, replacing underground plastic and wrapped steel gas piping, substation and transmission upgrades).
31 32 33		(iii)	<b>Regulatory and Compliance Investments</b> are investments that emanate from external demand and compliance requirements, which are largely nondiscretionary in nature
	(Non	ed Direct Testir confidential) of el A. Doyle	nony Exh. DAD-1Tr Page 7 of 49

12 13		(v)	inves (a)	tments in three key areas: system modernization and optimization investments
14 15 16 17 18 19				to upgrade and maintain key and critical information technology applications and infrastructure platforms ensuring the availability, stability, security, and technical currency, examples of which include the energy management system, gas control system, outage management system;
20 21 22 23			(b)	new system development and support which includes strategic projects such as the "Get to Zero" program, AMI, and an array of other projects such, as the FTIP; and
24 25			(c)	risk mitigating projects such as replacing the data centers.
26 27 28 29 30		(vi)	corpo and e plant	<b>r Investments</b> are investments that arise from PSE's prate shared services (e.g., fleet, facilities, real estate) invironmental remediation (e.g., manufactured gas clean-up initiatives and ash pond remediation and inment at the Colstrip Steam Electric Station).
31	Q.	How does P	SE prio	oritize spending within the six categories identified above?
32	А.	As a general	matter,	PSE makes significant capital investment across the six
33		categories in	(i) elec	tric distribution, transmission, and generation facilities;
34		(ii) natural ga	as distri	bution facilities; (iii) common assets and facilities that serve

both the electric and gas businesses; and (iv) information and digital technology.
These investments are primarily focused on service reliability, safety, customer
and public demand, management of enterprise risks, and enhancement of the
customer experience.

5 The competition for capital across the six categories identified above is such that 6 it is impossible for PSE to fund all requests for capital that arise in a given year. 7 PSE prioritizes requests for capital initially within the six categories identified 8 above and subsequently at the corporate level where differing allocations of 9 capital are analyzed through a series of customer benefit, financial and customer 10 rate impact filters. The allocation of capital at the corporate level requires 11 significant judgment to ultimately balance the corporate and customer benefit 12 received from each dollar of capital spend all the while maintaining acceptable 13 financial performance and reasonable customer rate impacts.

For strategic and risk mitigation investments, PSE accomplishes the initial round of prioritization through significant dialogue between the Board of Directors and PSE's officer team. Due to the fact that the vast majority of these investments are high priority, the dialogue between the Board of Directors and the PSE officer team generally focuses on corporate capacity, pace of strategic and risk mitigation progress, and timing of customer rate impacts.

Please see the Prefiled Direct Testimony of Booga K. Gilbertson, Exh. BKG-1T,
 for a discussion of the prioritization process with respect to Distribution and
 Transmission Investments and Regulatory/Compliance Investments. Please see

Prefiled Direct Testimony (Nonconfidential) of Daniel A. Doyle

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	Prefil	led Direct Testimony Exh. DAD-
13		planned capital expenditures for calendar years 2019-2021.
12		categorization of actual capital expenditures for calendar years 2016-2018 and
11		UE-170033 and UG-170034 (the "2017 GRC"). Figure 2 below provides a
10	A.	Yes. PSE has increased capital spending since its last rate proceeding in Docke
9	Q.	Has PSE increased capital spending since its last rate proceeding?
8		departmentally across PSE.
7		generation fleet. The Other Investment category is generally prioritized
6		availability factors) to provide the most cost-effective power possible from the
5		environmental compliance, and reliability (focusing on capacity factors and
4		Energy delivery and generation investments are prioritized by balancing safety,
3		and Digital Investments.
2		discussion of the prioritization process with respect to Information Technology
1		the Prefiled Direct Testimony of Margaret F. Hopkins, Exh. MFH-1T, for a

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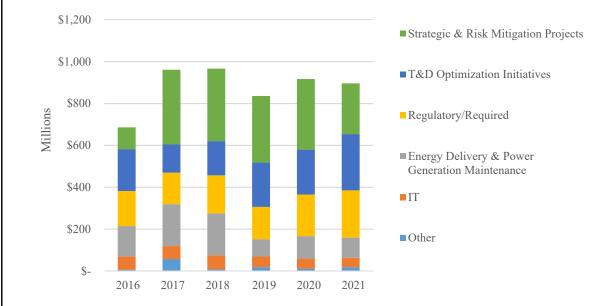


Figure 2. PSE Actual Capital Expenditures (2016-2018) and Planned Capital Expenditures (2019-2021)

As illustrated in Figure 2 above, Strategic and Risk Mitigation Investments has been the category with the largest increase in capital expenditures since the 2017 GRC and captures investments made to fund diverse projects such as the (i) advanced metering infrastructure conversion, (ii) a new data center, (iii) construction of PSE's share of the Tacoma LNG Facility, and (iv) the "Get to Zero" call reduction initiative to improve the customer experience and optimize call center and field operations.

### Q. What actions has PSE taken prior to the test year to improve its earnings in addition to its request for increased rates?

A. Although PSE has a long history of pursuing and realizing cost control and
efficiencies, the subject was addressed directly by the Commission in connection
with the company's multiyear rate plan that was in effect from July 1, 2013

	through December 31, 2017. Specifically, in Order No. 07, in Dockets UE-						
121697 and UG-121706 (consolidated) and Dockets UE-130137 and UG-130							
(consolidated), <sup>2</sup> the Commission approved a multi-year rate plan for PSE an							
	expressed an expectation that PSE would implement cost control and efficiencies						
	during the course of the rate plan. Specifically, the Commission stated as follows						
	This multi-year rate plan will provide the Company with ample opportunity to implement efficiencies that will afford the Company with the earnings opportunities it seeks. And these cost savings, which we will monitor carefully, will then be incorporated into rates for the benefit of ratepayers. <sup>3</sup>						
Q.	Can you summarize the cost efficiencies that PSE produced during the rate						
	plan?						
A.	PSE achieved the following cost savings over the course of the rate plan:						
	<ul> <li>PSE estimates that it saved approximately \$136 million against historical operational spending trends through its efforts to limit growth in operational spending to the rate of customer growth.</li> </ul>						
	<ul> <li>PSE saved \$19.3 million annually through refinancings and managing its capital structure.</li> </ul>						
	<ul> <li>PSE saved \$23.7 million through its voluntary bonus depreciation elections and resulting rate base reductions, which will continue into the future.</li> </ul>						
	<ul> <li>(iv) PSE provided customers \$65.9 million in interest credits through September 2016 associated with the Lower Snake River wind farm Treasury Grants related to the elimination of normalization requirements for Treasury Grants, an effort which also made it possible to repurpose Treasury Grants to offset future Colstrip Units 1 &amp; 2</li> </ul>						
	WUTC v. Puget Sound Energy, Inc., Order 07, Dockets UE-121697 and UG-121705 (consolidated) and Dockets UE-130137 and UG-130138 (consolidated) ("Order 07").						

1 2 3			decommissioning and remediation. (It should be similar benefits exist with respect to Wild Hors Treasury Grants in the amount of \$8.1 million.	se Wind farm
4 5 6 7 8		(v)	PSE will save customers an estimated \$71.2 m nominally and \$49.5 million on a net present v through the repurposing of certain Treasury G Production Tax Credits to offset future Colstrip decommissioning and remediation costs.	alue basis ants and
9 10 11 12 13 14		(vi)	PSE restructured certain employee benefit plan operating expense portion of those savings are the \$136 million discussed in (i) above. The ca component is "netted" in PSE's rate base in thi proceeding. PSE expects these savings to conti future as well.	included in pital is
15 16 17		ADDR	IS REQUESTING AN ATTRITION ADJUST ESS THE BACKWARD-LOOKING, HISTO ATURE OF TRADITIONAL RATEMAKING	RICAL
18	Q.	Why is PSE	requesting an attrition adjustment in this pro	ceeding:
19	A.	PSE is reques	sting an attrition adjustment in this proceeding to	address the
20		backward-loc	oking, historical nature of traditional ratemaking,	which contributes
21		significantly	to regulatory lag and attrition.	
22		PSE's adjuste	ed actual, normalized, and authorized, rate of retu	urn and return on
23		equity perfor	mance for calendar years 2013 to 2018 for the el	ectric and gas
24		businesses pr	ovide evidence of the effects of traditional gener	al rate case
25 ratemaking on regulatory lag and attrition. Table 1 below provides PSE'				
26		actual, norma	lized, and authorized rates of return and returns	on equity for
27		calendar year	rs 2013 to 2018 for the electric business.	
	(Non	ed Direct Testin confidential) of el A. Doyle	•	Exh. DAD-1Tr Page 13 of 49

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### Table 1. PSE's Adjusted Actual, Normalized, and AuthorizedRates of Return and Returns on Equity forCalendar Years 2013 to 2018 for the Electric Business

		Rate of Return	<b>Return on Equity</b>			
Year	Adjusted Actual (1)	Normalized (2)	Authorized	Adjusted Actual (1)	Normalized (2)	Authorized
2018	7.49%	7.12%	7.60%	9.30%	8.54%	9.50%
2017	8.66%	8.11%	7.77%	11.42%	10.30%	9.80%
2016	7.90%	8.06%	7.77%	9.96%	10.28%	9.80%
2015	7.52%	8.05%	7.77%	9.13%	10.25%	9.80%
2014	7.53%	7.74%	7.77%	9.01%	9.44%	9.80%
2013	7.50%	7.56%	7.77%	8.95%	9.06%	9.80%
Notes:						

Notes:

(1) Adjusted actual returns: Excludes ASC 815 (formerly FAS 133) gains or losses and include tax benefits of interest.

(2) Normalized returns: 2013 - 2018 Commission Basis Reports

Table 2 below provides PSE's adjusted actual, normalized, and authorized rates of

return and returns on equity for calendar years 2013 to 2018 for the gas business.

### Table 2. PSE's Adjusted Actual, Normalized, and AuthorizedRates of Return and Returns on Equity forCalendar Years 2013 to 2018 for the Gas Business

	Rate of Return			<b>Return on Equity</b>			
Year	Adjusted Actual (1)	Normalized (2)	Authorized	Adjusted Actual (1)	Normalized (2)	Authorized	
2018	5.94%	5.64%	7.60%	6.12%	5.50%	9.50%	
2017	8.09%	8.16%	7.77%	10.26%	10.41%	9.80%	
2016	7.80%	7.93%	7.77%	9.75%	10.01%	9.80%	
2015	7.62%	8.17%	7.77%	9.34%	10.49%	9.80%	
2014	7.80%	7.87%	7.77%	9.56%	9.71%	9.80%	
2013	7.22%	7.34%	7.77%	8.37%	8.62%	9.80%	
Notes:							

N

(1) Adjusted actual returns: Excludes ASC 815 (formerly FAS 133) gains or losses and include tax benefits of interest.

(2) Normalized returns: 2013 - 2018 Commission Basis Reports

1	During the years	2013 through ar	nd including 2017, PS	E was operating under a						
2	Commission-app	roved rate plan t	that increased eligible	electric revenues and						
3	eligible gas rever	eligible gas revenues every January 1 by 3 percent for electric operations and								
4	2.2 percent for ga	2.2 percent for gas operations. The data clearly show, for both rates of return and								
5	returns on equity	returns on equity, that PSE slightly under-earned its authorized rate of return and								
6	return on equity of	during the early	years of the rate plan	for both electric and gas						
7	operations and be	egan to marginal	ly over-earn its author	rized rate of return and						
8	return on equity f	for both electric	and gas operations in	the latter years of the rate						
9	plan.									
0	The combination	of the expedited	l rate filing increase a	nd the annual K-factor						
1	increases from th	e rate plan impa	rted a more predictabl	e and gradual increase to						
2	PSE's base rates	PSE's base rates as compared to increases resulting from general rate cases,								
3	which tend to be	larger and less p	predictable from a cust	comer perspective. In fact						
4	had PSE filed its	2017 GRC with	out the benefit of the a	aforementioned rate plan						
5	the requested inc	rease would hav	e been approximately	\$160 million higher, as						
6	illustrated in Tab	le 3 below.								
7			7 General Rate Case ffects of the Rate Pla							
	Summary (\$ millions)	2013 Expedited Rate Filing Impact	2014-2017 K- factor Impact	Total Impact						
	Electric	\$30	\$89	\$119						
	Electric	<b>Gas</b> (\$2) \$43 \$41								

ļ	Q.	Would	PSE have e	arned its auth	orized rate	of return v	without the					
	2013 Expedited Rate Filing and K-factor based rate plan?											
	A.	A. No. PSE would not have earned its authorized rate of return without the										
		2013 Expedited Rate Filing and the K-factor based rate plan. Table 4 below										
		adjusts	return bench	marks and met	trics for elec	etric operati	ons during the r	ate plan				
		by exclu	iding the cu	mulative effect	ts of the 201	3 Expedited	d Rate Filing an	d the				
		annual I	K-factor inc	reases.								
)			ed Rates of		eturns on E	Equity for I Filing and I	Electric Operat K-factor Increa Return on Equity	ases				
		Year	Adjusted Actual (1)	Normalized (2)	Authorized	Adjusted Actual (1)	Normalized (2)	Authorized				
		2018	7.49%	7.12%	7.60%	9.30%	8.54%	9.50%				
		2017	7.16%	6.61%	7.77%	8.40%	7.29%	9.80%				
		2016	6.67%	6.82%	7.77%	7.43%	7.75%	9.80%				
		2015	6.55%	7.09%	7.77%	7.13%	8.24%	9.80%				
		2014	6.82%	7.03%	7.77%	7.54%	7.97%	9.80%				
		2013	7.03%	7.08%	7.77%	7.97%	8.08%	9.80%				
		tax	benefits of in			-	3) gains or losses a	nd include				
		Table 5	below adjus	sts return bench	nmarks and 1	metrics for	gas operations o	luring				
-		Table 3				4 <b>-</b> - <b>-</b>	)13 Expedited R	late				
			plan by exc	luding the cum	ulative effec	cts of the 20	15 Enpeated I					
		the rate		luding the cum	ulative effec	cts of the 20	no Expedited i					
		the rate		-	ulative effec	cts of the 20	no Expedica i					

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### Table 5. PSE's Adjusted Actual andNormalized Rates of Return and Returns on Equity for Gas Operationsexcluding the effects of 2013 ERF and K-factor Increases

		Rate of Return	<b>Return on Equity</b>				
Year	Adjusted Actual (1)	Normalized (2)	Authorized	Adjusted Actual (1)	Normalized (2)	Authorized	
2018	5.94%	5.64%	7.60%	6.12%	5.50%	9.50%	
2017	6.60%	6.68%	7.77%	7.28%	7.43%	9.80%	
2016	6.63%	6.76%	7.77%	7.36%	7.62%	9.80%	
2015	6.80%	7.35%	7.77%	7.64%	8.79%	9.80%	
2014	7.33%	7.40%	7.77%	8.59%	8.74%	9.80%	
2013	7.12%	7.24%	7.77%	8.15%	8.40%	9.80%	

Notes:

(1) Adjusted actual returns: Excludes ASC 815 (formerly FAS 133) gains or losses and include tax benefits of interest.

(2) Normalized returns: 2013 - 2018 Commission Basis Reports.

8 The conclusions are obvious. Without the benefit of the 2013 Expedited Rate 9 Filing and the K-factor increases, PSE would have substantially under-earned 10 against its allowed rate of return and return on equity on both an actual and 11 normalized basis for both electric and gas operations. It is important to note that 12 neither the 2013 Expedited Rate Filing nor the K-factor increases would have 13 been sufficient on its own or in combination to consistently close the return gap created by regulatory lag and attrition under traditional general ratemaking. 14 15 Additionally, without the expedited rate filing or the K-factor increases, PSE 16 would have been required to file one or more general rate cases during the rate 17 plan period.

1	Q.	Why do the rates of return and returns on equity for the electric and gas
2		operations for calendar year 2018 decrease so significantly from the rates of
3		return and returns on equity for 2017, which was the last year of the rate
4		plan?
5	A.	In Order 07 in Docket No. UE-121697, footnote 9, the Commission required PSE
6		to file a general rate case no sooner than April 1, 2015, and no later than April 1,
7		2016. In that order, the Commission stated as follows:
8 9 10 11 12		The mechanism will remain in place, at a minimum, until the effective date of new rates set in PSE's next general rate case. PSE will file a general rate case no sooner than April 1, 2015, and no later than April 1, 2016, unless otherwise agreed to by the parties to PSE's last general rate case. <sup>4</sup>
13		After a hearing on a motion to amend Order 07, however, the Commission, in its
14		Notice of Action, dated March 17, 2016, relieved PSE of its obligation under
15		Order 07 to file a general rate case by April 1, 2016, and instead, required the
16		general rate case to be filed no later than January 17, 2017. PSE filed the
17		2017 GRC in time to meet the Commission's filing timeline. The 2017 GRC
18		filing was based on a historical test year for the twelve (12) months ending
19		September 30, 2016.
20		Importantly, the rate base in the 2017 GRC filing was calculated using the
21		traditional average of monthly averages ("AMA") methodology. Accordingly, the
22		revenue requirement in that general rate case filing reflected a "middle-of-the-
23		test-year" rate base value or a rate base value that existed as of roughly March 31,
	4 W	UTC v. Puget Sound Energy, Inc., Docket UE-121697, Order 07 at ¶ 8 (2013).

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1		2016. During the period April 1, 2016 through the beginning of the rate year
2		(roughly January 1, 2018), PSE spent over \$1.53 billion on capital expenditures.
3		Very few, if any, of the return of and return on these capital expenditures were
4		included in the approved revenue requirement that went into effect at the
5		beginning of the rate year. This is one example of the backward-looking,
6		historical nature of traditional general rate case ratemaking that contributes
7		significantly to regulatory lag and attrition.
8		Indeed, regulatory lag and attrition were a major source of the decreased rates of
9		return and returns on equity from 2017 to 2018 as illustrated in Tables 1 and 2
10		above. Regulatory lag and attrition are also major components of the underlying
11		rationale for requesting both an attrition adjustment and the use of an end of test
12		year rate base calculation versus the traditional AMA methodology in this
13		proceeding.
14	Q.	What other factors contribute to the need for an attrition adjustment?
15	A.	A number of other factors contributed to the need for an attrition adjustment.
16		First, under traditional ratemaking, a 27-month time span exists from the
17		beginning of the test year to the beginning of the rate year. Although the
18		traditional ratemaking process in Washington allows for a limited number of pro
19		forma adjustments to capture cost growth from the test year to the rate year, those
20		pro forma adjustments do not capture the complete impact of inflationary forces
21		and other expense growth between the test year and the rate year. This contributes
22		to regulatory lag and attrition.

Prefiled Direct Testimony (Nonconfidential) of Daniel A. Doyle Second, PSE, like its utility counterparts, has experienced significant increases in information technology capital expenditures in the past several years. These investments often require related software licensing and maintenance contract cost increases, in addition to the return of and return on the capital expenditures. These costs place upward pressure on operations and maintenance expense. In addition, many information technology investments are new investments versus replacements to existing technology applications. To the extent that these new investments are not captured in the ratemaking process, they contribute significantly to attrition.

10 Additionally, information technology investments tend to be short-lived with 11 estimated useful lives of between three and ten years. To the extent technology 12 investments are placed in service in between rate filings, the utility will recover 13 neither a substantial portion of software licensing and maintenance contract cost 14 increases nor the return of and return on the capital expenditures. For example, as 15 mentioned in the Prefiled Direct Testimony of Susan E. Free, Exh. SEF-1T, the 16 typical lives of transmission and distribution assets range between 30 to 50 years, 17 which means the annual depreciation on those assets range between two and three 18 percent per year. However, technology investments typically have a depreciable 19 life of ten years or less and, in many circumstances, only a three- to five-year life. 20 Therefore, the impact of the typical 27-month regulatory lag is far greater on these 21 short-lived assets and creates significant earnings erosion if not addressed. PSE's 22 request for an attrition adjustment seeks to ameliorate these sources of regulatory 23 lag and attrition.

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## Q. What cost increases contribute to PSE's request for increased rates that are out of the company's control?

A. Over the past several years, PSE and customers alike have enjoyed a relatively
stable market for power and gas supply. As discussed in the Prefiled Direct
Testimony of Paul K. Wetherbee, Exh. PKW-1CT, power costs have increased for
a variety of reasons and are a major contributor to PSE's electric business rate
increase.

8 Next, PSE estimates that tax reform reduced cash flows by approximately 9 \$107 million, which required PSE to increase borrowing to fund its operations 10 and capital expenditure program. On the margin, PSE borrowed more than half of 11 the estimated \$107 million in reduced cash flow attributable to tax reform to fund 12 its capital expenditure program. As shown in the Second Exhibit to Prefiled 13 Direct Testimony of Daniel A. Doyle, Exh. DAD-3, Standard and Poor's Ratings 14 Group ("S&P") Funds from Operations to Debt (FFO/Debt) metric for PSE, after 15 restating for the effects of tax reform, would have increased to 23.9% from the 16 actual test year result of 21.7%. Tax reform similarly affected PSE's cash flow-17 based metrics for Moody's Investors Service, Inc. ("Moody's") and Fitch Ratings, 18 Inc. ("Fitch") during the test year.

Finally, as mentioned above, PSE is allocating more of its capital expenditure
program to information technology investments than was the case in prior years.
As described above, the short-lived nature of these investments places significant
cost pressure on depreciation and amortization, return of and return on the initial

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1		capital investment, and cost pressures relating to software licensing and
2		maintenance contracts. Without timely rate relief, including the requested attrition
3		adjustment, PSE will not be able to absorb these cost pressures and will be denied
4		an opportunity to earn its allowed return on equity.
5 6		IV. PSE'S REQUESTED RETURN ON EQUITY AND EQUITY RATIO IN CAPITAL STRUCTURE
7	<u>A.</u>	PSE Requests an Authorized Return on Equity of 9.8 Percent
8	Q.	What authorized return on equity is PSE requesting in this proceeding?
9	A.	PSE is requesting an authorized return on equity of 9.8 percent in this proceeding.
10	Q.	Has PSE prepared an analysis of the projected return on equity of PSE
11		during the rate year?
12	A.	Yes. PSE has retained the services of Dr. Roger A. Morin to prepare an analysis
13		of the projected return on equity for PSE during the rate year. Please see the
14		Prefiled Direct Testimony of Dr. Roger A. Morin, Exh. RAM-1T, for Dr. Morin's
15		analysis regarding the projected return on equity for PSE during the rate year.
16		PSE has adopted Dr. Morin's analysis and conclusion that an authorized return on
17		equity of 9.8 percent is fair and reasonable compared to test year authorized
18		returns on equity industry wide (average 9.6 percent) and authorized returns on
19		equity in Dr. Morin's peer group (average 9.8 percent). It should be noted that
20		PSE's requested weighted-average return on equity is 4.75 percent (i.e., the
21		product of PSE's requested return on equity 9.80 percent multiplied by PSE's

1		requested equity ratio 48.5 percent) is lower than the weighted-average return on
2		equity of 4.86 percent for electric and gas utility cases approved nationwide for
3		the test year. Please see Section IV.C. of this prefiled direct testimony for a
4		discussion of PSE's requested weighted-average return on equity of 4.75 percent.
5	Q.	What returns on equity have regulatory commissions authorized for
6		vertically-integrated electric utilities during the test year (i.e., calendar
7		year 2018) and the first quarter of 2019?
8	A.	As reported by Regulatory Research Associates, a group within S&P Global
9		Market Intelligence, the industry-average authorized return on equity for
10		vertically-integrated electric utilities was (i) 9.70 percent during the test year and
11		(ii) 9.72 percent during the first quarter of 2019.5
12	Q.	What returns on equity have regulatory commissions authorized for natural
13		gas utilities during the test year (i.e., calendar year 2018) and the first
14		quarter of 2019?
15	A.	As reported by Regulatory Research Associates, the industry-average authorized
16		return on equity for natural gas utilities was (i) 9.59 percent for the test year and
17		(ii) 9.55 percent for the first quarter of 2019.6 Although PSE's request
	Ja	&P Global Market Intelligence, <i>RRA Regulatory Focus Major Rate Case Decisions</i> — unuary – March 2019, at page 4 (Apr. 11, 2019). . at page 1.
	Ducfil	ad Direct Testimony

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<u>B.</u>	<u>PSE Requests the Ability to Maintain a Capital Structure with an</u> <u>Equity Ratio of 48.5 Percent</u>								
Q.	What is the capital structure that PSE is requesting in this proceeding?								
A.	PSE's is requesting a capital structure that consists of the following components:								
	(i) a long-term debt ratio of 49.2 percent,								
	(ii) a short-term debt ratio of 2.3 percent, and								
	(iii) an equity ratio of 48.5 percent.								
	Please see the Prefiled Direct Testimony of Matthew D. McArthur, Exh. MDM-								
	1T, for a discussion and calculations of the actual capital structure of PSE during								
	the test year and PSE's projected capital structure during the rate year.								
Q. Is the proposed capital structure consisting of a 48.5 percent equity rati									
	appropriate for PSE?								
A.	Yes, the proposed capital structure consisting of a 48.5 percent equity ratio is								
	appropriate for PSE for several reasons.								
	First, a capital structure that contains a 48.5 percent equity ratio is lower than the								
	actual capital structure that PSE maintained during the test year. PSE's average								
	capital structure (calculated using an average of the monthly averages								
	methodology) during the test year resulted in a 49 percent equity ratio, as shown								
	in Table 6 below:								

1	Table 6. Adjusted Test Year Capital Structure							
	Capital Component	Test Year (Average)						
	Short Term Debt	2.32%						
	Long Term Debt	<u>48.67%</u>						
	Total Debt	51.0%						
	Common Equity	49.0%						
	Total Capitalization	100.0%						
2	Please see the Second Exhibit to the Pr	refiled Direct Testimony of Matthew D.						
3	McArthur, Exh. MDM-3, for an exhibit	t that illustrates the components of PSE's						
4	test year capital structure.							
5	Second, PSE considers a capital structu	are that includes an equity ratio of						
6	48.5 percent to be an appropriate level	of equity to attract debt investment at a						
7	reasonable cost, when coupled with a r	eturn on equity of 9.8 percent. PSE seeks						
8	the comparative and competitive finan-	cial strength to maintain its current credit						
9	ratings and restore pre-tax reform cash	flow over time.						
10	Third, an equity ratio of 48.5 percent, o	combined with a return on equity of						
11	9.8 percent and other cash flow enhance	ing adjustments (e.g. attrition and end of						
12	period rate base), will improve rate yea	ar cash flow-based credit metrics toward						
13	pre-tax reform levels.							
14	Fourth, a capital structure that contains	an equity ratio of 48.5 percent contains a						
15	lower equity ratio than the average equ	ity ratios for natural gas and electric						
16	utilities approved by regulatory bodies	across the country in the test year period						
17	for this proceeding.							

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1	The average authorized equity ratio for electric utility cases nationwide was
2	(i) 49.02 percent for the test year and
3	(ii) 49.51 percent for the first quarter of 2019. <sup>7</sup>
4	The average authorized equity ratio for gas utilities nationwide was
5	(i) 50.09 percent for the test year and
6	(ii) 51.40 percent for the first quarter of $2019.^8$
7	Accordingly, PSE's requested equity ratio of 48.5 percent is 50 basis points lower
8	than the average authorized equity ratio for electric utility cases nationwide for
9	the test year and more than 150 basis points lower than the average authorized
10	equity ratio for gas utility cases nationwide for the test year.
11	PSE intends to move its equity ratio closer to industry averages incrementally and
12	gradually over time to mitigate rate impacts. In turn, this will allow PSE to
13	maintain its credit ratings and provide the flexibility to access the capital markets
14	during varying and volatile financial market conditions to finance its operations
15	cost-effectively.
	<ul> <li><sup>7</sup> RRA Regulatory Focus Major Rate Case Decisions — January – March 2019, supra note 5, at page 3.</li> <li><sup>8</sup> Id.</li> </ul>

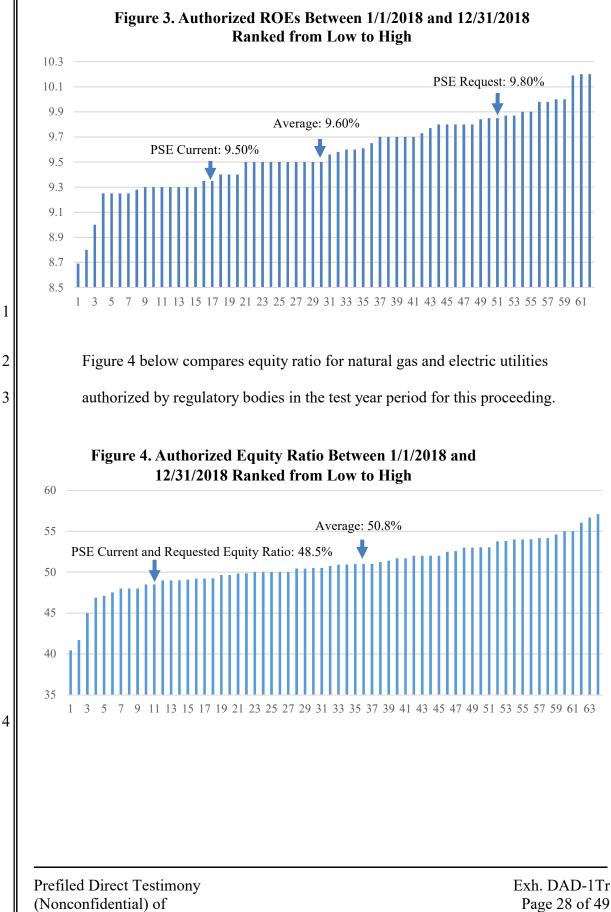
C.

#### PSE Requests a Weighted-Average Return on Equity of 4.75 Percent

# Q. How does PSE's requested weighted-average return on equity compare against weighted-average returns on equity authorized during the test year for electric and gas utility cases nationwide?

5 A. PSE's requested weighted-average return on equity is 4.75 percent, which is a 6 product of PSE's requested return on equity 9.80 percent multiplied by PSE's 7 requested equity ratio 48.5 percent. This requested weighted-average return on 8 equity is lower than the weighted-average return on equity of 4.86 percent for 9 electric and gas utility cases approved nationwide for the test year. Please see the 10 Third Exhibit to the Prefiled Direct Testimony of Daniel A. Doyle, Exh. DAD-4, 11 for the returns on equity, equity ratios and weighted-average returns on equity 12 authorized for electric and natural gas utilities for the period January 1, 2018, 13 through December 31, 2018.

Figure 3 below compares return on equity for natural gas and electric utilities
authorized by regulatory bodies across the country in the test year period for this
proceeding.



Daniel A. Doyle

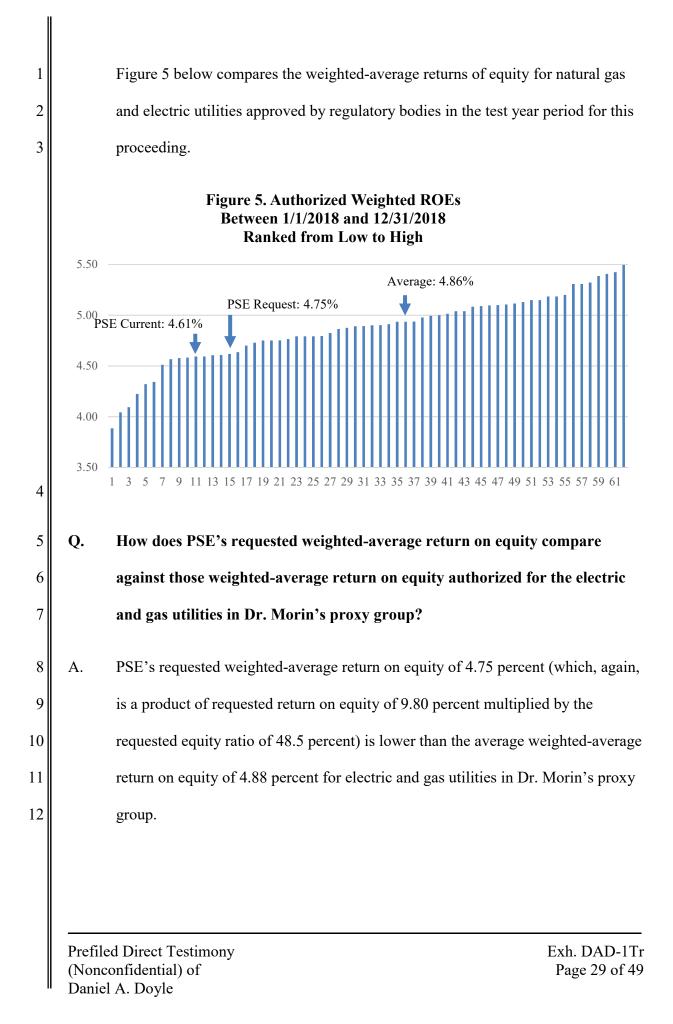
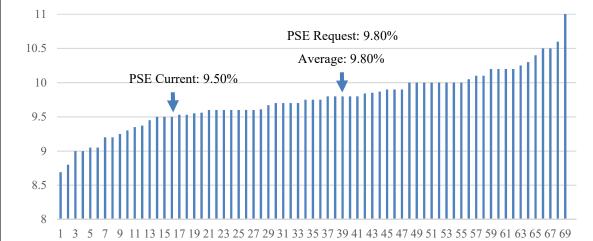


Figure 6 compares returns on equity for natural gas and electric utilities in

Dr. Morin's proxy group.

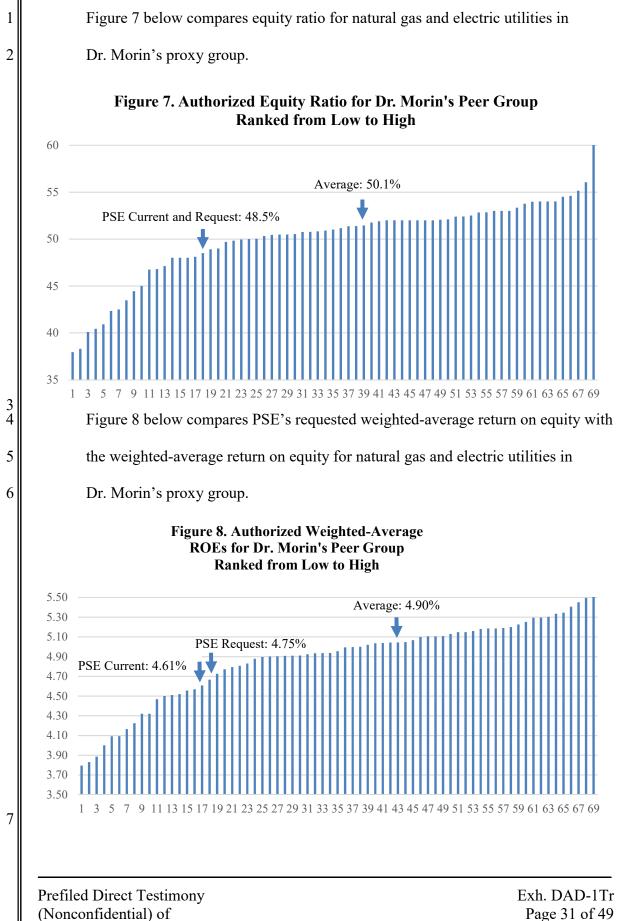
Figure 6. Authorized ROE for Dr. Morin's Peer Group Ranked From Low to High



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Please note that the data provided in Figures 6, 7, and 8 in this testimony reflects all 69 operating utilities within Dr. Morin's proxy group. As discussed in the
Prefiled Direct Testimony of Dr. Roger A. Morin, Exh. RAM-1T, he has selected a proxy group for PSE that consists of 20 companies. Please see the Third Exhibit to the Prefiled Direct Testimony of Dr. Roger A. Morin, Exh. RAM-4, for Dr. Morin's proxy group. There are, however, 69 distinct operating utilities owned by the 20 holding companies in Dr. Morin's proxy group, and the data provided in Figures 6, 7, and 8 in this testimony reflects all 69 operating utilities. Please see the Fourth Exhibit to the Prefiled Direct Testimony of Daniel A. Doyle, Exh. DAD-5, for the returns on equity, equity ratios and weighted-average returns on equity authorized for Dr. Morin's proxy group of electric and natural gas utilities for the period January 1, 2018, through December 31, 2018.

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Daniel A. Doyle

1		As can be seen in Figure 8 above, PSE's requested weighted-average return on
2		equity of 4.75 percent is below the average weighted-average return on equity of
3		4.90 percent of the companies in Dr. Morin's peer group.
4	<u>D.</u>	PSE's Request Adequately Balances Safety and Economy
5	Q.	What does the Commission usually consider when determining an
6		appropriate equity ratio in a utility's capital structure?
7	A.	In selecting the appropriate capital structure, the Commission seeks to balance
8		safety and economy:
9 10 11 12 13 14 15 16 17 18 19 20		We develop a weighted cost of capital for the Company based on a capital structure that balances safety and economy. Capital structure, and particularly the equity ratio and cost of equity, materially impacts the price customers pay for service. Due to the relative difference between the higher cost of equity and the lower cost of debt, a capital structure with relatively more debt and less equity may result in a lower overall cost of capital. This results in lower rates for customers. This is commonly referred to as "economy." On the other hand, a capital structure with relatively more equity and less debt may result in a higher overall cost of capital and higher rates for customers, but enhanced financial integrity. This is commonly referred to as "safety." <sup>9</sup>
21		In other words, the economy of lower cost debt, on which PSE has an obligation
22		to pay interest, must be weighed against the safety of relatively higher cost
23		common equity, on which PSE does not have a legal obligation to pay a dividend
24		and provide a return.
	9 W	UTC v. Pac. Power & Light Co., a division of PacifiCorp, Dockets UE-140762, et al., Order 08 at

*WUTC v. Pac. Power & Light Co., a division of PacifiCorp*, Dockets UE-140762, *et al.*, Order 08 at page 11 (Mar. 25. 2015) (footnotes omitted).

1	Q.	Why	is it app	ropriate	e to cons	ider bot	h the eq	uity rati	o in the	capital	
2		structure and the return on equity in reaching an appropriate balance									
3		between safety and economy?									
4	А.	Simply put, it is the weighted-average return on equity that ultimately matters									
5		when	balancin	g safety	and ecor	nomy in	the conte	ext of ov	erall cos	t of capi	tal.
6	Q.	Has P	PSE prep	pared an	ı exampl	le that il	lustrates	s this pe	rspectiv	e?	
7	А.	Yes. 7	Fable 7 b	elow pro	esents we	eighted-a	verage r	eturns of	n equity	of variou	us capital
8		struct	ures and	authoriz	ed returr	ns on equ	ity.				
9				Т	able 7. V	Weightee	l-Avera	ge Retu	rns on E	lquity	
							Return o	n Equity			
				9.30%	9.40%	9.50%	9.60%	9.70%	9.80%	9.90%	10.00%
			48.5%	4.51%	4.56%	4.61%	4.66%	4.70%	4.75%	4.80%	4.85%
		atio	49.0%	4.56%	4.61%	4.66%	4.70%	4.75%	4.80%	4.85%	4.90%
		Equity Ratio	49.5%	4.60%	4.65%	4.70%	4.75%	4.80%	4.85%	4.90%	4.95%
		Equi	50.0%	4.65%	4.70%	4.75%	4.80%	4.85%	4.90%	4.95%	5.00%
			50.5% 51.0%	4.70% 4.74%	4.75% 4.79%	4.80% 4.85%	4.85% 4.90%	4.90% 4.95%	4.95% 5.00%	5.00% 5.05%	5.05% 5.10%
10		PSE i	s reauest	ing weig	ghted-ave	erage retu	irn on ec	uity of 4	1.75 perc	ent (bas	ed on a
11			1	0 0	in equity	C			1		
		_					_				
12		equity	v of 9.8 p	ercent.)	Table 8	below pr	esents co	ombinati	ons of ea	quity rati	los and
13		author	rized retu	urns on e	equity the	at also pr	oduce a	weighted	l-averag	e return	on
14		equity	v of 4.75	percent	(except f	for minor	roundin	g differe	ences.)		
	Prefil	ed Direo	et Testim	nony						Exh. l	DAD-1Tr

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		Α	В	$\mathbf{C}$ ( $\mathbf{A} \times \mathbf{B}$ )	
		Equity Ratio	Return of Equity	Weighted-Average Return on Equity	
		48.5%	9.8%	4.75%	
		49.0%	9.7%	4.75%	
		49.5%	9.6%	4.75%	
		50.0%	9.5%	4.75%	
		50.5%	9.4%	4.75%	
		51.0%	9.3%	4.74%	
	PSE believes	that a weig	hted-average re	turn on equity of 4.75 per	rcent reasonab
	balances safe	ty and econ	omy, in the cor	ntext of total cost of capita	al, and this
	analysis illus	trates that th	nere are many c	ombinations that can achi	ieve that result
Q.	Why is the c	apital struc	cture proposed	by PSE appropriate an	d reasonable
	for rate setti	ng purpose	es in this proce	eding?	
А.	The capital s	tructure requ	uested by PSE i	s appropriate and reasona	ble for the
	following rea	isons:			
	(i)	it is derive	ed from actual 1	results during the test year	r;
	(ii)	a capital structure with an equity ratio of 48.5 percent, while lower than the average authorized equity ratios recently reflected in customer rates of other regulated utilities (see Figure 4 above), produces a competitive weighted-average return on equity of 4.75 percent when combined with PSE's requested return on equity of 9.8 percent.			
	(iii)	customers	s; because when	safety and economy for a combined with a request the requested capital strue	

1 2 3 4		maintain its current credit ratings, contribute to the restoration of pre-tax reform cash flow and compete for cost-effective debt capital against natural gas and electric utilities across the country.
5	Q.	Why does the capital structure requested by PSE in this proceeding
6		appropriately balance the risks and costs of funding PSE's utility
7		operations?
8	А.	The capital structure requested by PSE in this proceeding appropriately balances
9		the risks and costs of funding PSE's utility operations for the following reasons:
10 11 12 13 14 15 16		<ul> <li>(i) the capital structure requested by PSE in this proceeding, when combined with a requested return on equity of 9.8 percent and other cash flow enhancing adjustments in this filing, will allow PSE to maintain its current credit ratings, contribute to the restoration of pre-tax reform cash flows, and attract debt capital necessary to fund PSE's capital expenditures and operations;</li> </ul>
17 18 19 20 21 22		<ul> <li>(ii) the capital structure requested by PSE in this proceeding, when combined with a requested return on equity of 9.8 percent and other cash flow enhancing adjustments in this filing, will allow PSE to satisfy regulatory commitments and debt covenants related to capital structure; and</li> </ul>
23 24 25 26		<ul><li>(iii) the capital structure requested by PSE in this proceeding, when combined with a requested return on equity of</li><li>9.8 percent, will allow PSE to provide electric and gas service to customers on reasonable economic terms.</li></ul>
27	Q.	Does PSE intend to manage its capital structure to maintain a capital
28		structure with an equity ratio of 48.5 percent during the rate year and
29		beyond?
30	А.	Yes. Although the marginal impact of PSE's operations can cause volatility in
31		PSE's short-term debt balances from month to month (which will create the same
	(None	ed Direct Testimony confidential) of el A. Doyle El A. Doyle

	month-to-month volatility in	PSE's actual eq	uity ratio), the Co	mmission can		
	expect PSE to manage, on av	verage and over t	time, a capital stru	cture with an		
	equity ratio that meets or exceeds the capital structure authorized by the					
	Commission for inclusion in rates. Indeed, PSE has consistently maintained, on					
	average, over time, a capital	,				
				has met of		
	exceeded the capital structur	e authorized by t	the Commission.			
	V. Ps	SE'S CREDIT	RATINGS			
Q.	What are rating agencies a	nd credit rating	<u>1</u> 5?			
A.	Rating agencies are independ	dent agencies that	t assess risks for a	lebt investors. The		
	three most widely recognized	d rating agencies	are S&P, Fitch, a	nd Moody's. Thes		
rating agencies issue credit ratings to corporate issuers (generally referred to as						
	the unsecured debt rating of	the institution) a	nd their individua	l debt securities.		
	_					
	These ratings provide information to investors regarding risks associated with					
	such companies and their del	bt securities.				
Q.	What are PSE's current cr	edit ratings?				
A.	PSE's current credit ratings a	are shown in Tab	ble 9 below:			
	Table	9. PSE Credit l	Ratings			
	Security	S&P	Moody's	Fitch		
	Corporate credit/issuer rating	BBB	Baa1	BBB+		
Ś	Senior Secured Debt	A-	A2	А		
(	Commercial Paper	A-2	P-2	F-2		
]	Bank Facilities	BBB	Baa1	BBB+		
	Outlook	Negative	Stable	Stable		
	iled Direct Testimony			Exh. DAD-17		

1	Q.	Have the credit ratings of PSE changed since the 2017 GRC?
2	А.	No. PSE's credit ratings have not changed since the 2017 GRC. However, S&P
3		revised PSE's outlook from stable to negative in December 2018.
4	Q.	Why are credit ratings important to PSE?
5	А.	Credit ratings are important because PSE will need to re-finance existing debt and
6		access the debt capital markets anew to incrementally finance PSE's growth and
7		utility operations into the future. In addition, credit ratings have a direct impact on
8		PSE's liquidity position through short-term borrowings. Finally, PSE agreed to
9		continue to be rated by S&P and Moody's in Regulatory Commitment 26 in the
10		multi-party settlement agreement <sup>10</sup> approved by the Commission in Docket U-
11		180680.
12	Q.	Why are credit ratings important to customers?
13	А.	Credit ratings are important to customers because they are an overall
14		representation of a company's financial health. As a result, they are a major factor
15		in determining the cost of capital to PSE and ultimately its customers. For
16		example, low credit rating signifies increased risk for investors, which, in turn,
17		results in a higher cost of capital, which increases the cost of service to customers.
18		The converse is also true.

<sup>&</sup>lt;sup>10</sup> In the Matter of the Joint Application of Puget Sound Energy, Alberta Investment Management Corporation, British Columbia Investment Management Corporation, OMERS Administration Corporation, and PGGM Vermogensbeheer B.V. for an Order Authorizing Proposed Sales of Indirect Interests in Puget Sound Energy, Docket U-180680, Order 6, App. A (Settlement Stipulation and Appendices) (Mar. 7, 2019).

1	Q.	What is PSE's view on its credit ratings at the present time?						
2	А.	PSE is seeking, at a minimu	im, to retain its cur	rent senior secured debt ra	atings of			
3		"A-", "A2", "A" and its corporate ratings of "BBB", "Baa1" and "BBB+" by						
4		S&P, Moody's and Fitch, re	espectively. In add	ition, PSE seeks to mainta	in its			
5		current ratings and improve	its cash flow-base	d credit metrics to pre-tax	reform			
6		levels over time. This filing	makes substantial	progress toward this end	as			
7		explained previously in this	testimony. These	are important consideration	ons as PSE			
8		accesses the debt capital ma	arket in the near ter	m and beyond.				
9	Q.	Do the rating agencies hav	ve targets or guide	elines that relate certain	credit			
10		metrics with specific credi	t ratings?					
11	A.	Yes. On November 19, 2013, S&P issued a report that revised its ratings						
12		criteria. <sup>11</sup> In that report, S&	P published the fo	llowing table related to ind	dicative			
13		ratios for medial volatility in	ndustries, <sup>12</sup> in whi	ch category PSE falls:				
14 15		Table 10. S&P Select Cash Flow/Leverage Analysis Ratios– Medial Volatility Core Ratios						
			FFO/debt (%)	Debt/EBITDA (x)				
		Minimal	50+	less than 1.75				
		Modest	35-50	1.75-2.5				
		Intermediate	23-35	2.5-3.5				
		Significant	13-23	3.5-4.5				
		Aggressive	9-13	4.5-5.5				
		Highly leveraged	Less than 9	Greater than 5.5				

<sup>11</sup> S&P, Corporate Methodology: Ratios and Adjustments (Nov. 19, 2013).

<sup>12</sup> See id. at page 35 (Table 18 (Cash Flow/Leverage Analysis Ratios--Medial Volatility)).

		ese criteria, PSI				
			E is classified as h	aving a Business Risk l	Profile of	
	"Excellent" and a Financial Risk Profile of "Significant" with a credit rating of					
	BBB.				C	
Q.	Does Mo	oody's publish	similar target me	trics?		
A.	Yes. In a	December 201	3 report, Moody's	revised its rating meth	odology for	
	regulated	l gas and electri	c utilities. Moodv	's shows benchmark ra	nges for	
	-	-			1900 101	
	financial	metrics associa	ted with its variou	is ratings levels. <sup>13</sup>		
	Table 11	below includes	the Moody's bene	chmark range for certai	n credit	
	ratings:14	4				
	-					
			-	-		
		CFO pre- W/C to Debt	CFO pre-W/C to Interest	CFO pre-W/C less Dividends to Debt	Debt Ratio	
"A	,,	22% to 30%	4.5x to 6.0x	17% to 25%	35% to 45%	
"Ba	aa"	13% to 22%	3x to 4.5x	9% to 17%	45% to 55%	
"Ва	a"	5% to 13%	2x to $3x$	0% to 9%	55% to 65%	
Q.	Does Fit	ch publish sim	ilar target metric	s?		
			<b>—</b>		1 1170	
А.	Yes. In M	March 2018 repo	ort, Fitch updated	rating methodology for	regulated US	
	gas and p	power utilities. I	Fitch shows sector	-specific key ratios ass	ociated with its	
	various r	atings levels. <sup>15</sup>				
12						
1010		stors Service, Rating	g Methodology Regul	ated Electric and Gas Utilit	ies (December 23,	
			•	2)		
•• Fit	cnkatings, I	rinancial Profile K	ey Factors (Mar. 2018	5).		
			REVISE	D	Exh. DAD-1Tr	
·		/	AUGUST 22,	2019	Page 39 of 49	
	A. "A" "B" "B" Q. A. $1^3$ Md 20 $1^4$ Sec $1^5$ Fit Prefile (Nonce	A. Yes. In a regulated financial Table 11 ratings: $^{11}$ "Baa" "Ba" Q. Does Fit A. Yes. In M gas and p various n $^{13}$ Moody's Inves 2013). $^{14}$ See id. at page $^{15}$ FitchRatings, $H$	A. Yes. In a December 2011 regulated gas and electric financial metrics associa Table 11 below includes ratings: <sup>14</sup> Table "A" 22% to 30% "Baa" 13% to 22% "Ba" 5% to 13% Q. Does Fitch publish sime A. Yes. In March 2018 report gas and power utilities. If various ratings levels. <sup>15</sup>	A. Yes. In a December 2013 report, Moody's regulated gas and electric utilities. Moody' financial metrics associated with its variou Table 11 below includes the Moody's bend ratings: <sup>14</sup> Table 11. Moody's Sele <u>CFO pre-CFO pre-W/C W/C to Debt</u> CFO pre-W/C w/C to Debt CFO pre-W/C to Interest "Baa" 13% to 22% 3x to 4.5x "Ba" 5% to 13% 2x to 3x Q. Does Fitch publish similar target metric A. Yes. In March 2018 report, Fitch updated to gas and power utilities. Fitch shows sector various ratings levels. <sup>15</sup> <sup>13</sup> Moody's Investors Service, <i>Rating Methodology Regult</i> 2013). <sup>14</sup> See id. at page 3438 (Factor 4: Financial Strength). <sup>15</sup> FitchRatings, <i>Financial Profile Key Factors</i> (Mar. 2018) Prefiled Direct Testimony (Nonconfidential) of ReviseI	A. Yes. In a December 2013 report, Moody's revised its rating meth- regulated gas and electric utilities. Moody's shows benchmark ran financial metrics associated with its various ratings levels. <sup>13</sup> Table 11 below includes the Moody's benchmark range for certai ratings: <sup>14</sup> Table 11 below includes the Moody's Select Key Ratios <u>CFO pre-W/C to Debt to Interest Dividends to Debt</u> "A" 22% to 30% 4.5x to 6.0x 17% to 25% "Baa" 13% to 22% 3x to 4.5x 9% to 17% "Ba" 5% to 13% 2x to 3x 0% to 9% Q. Does Fitch publish similar target metrics? A. Yes. In March 2018 report, Fitch updated rating methodology for gas and power utilities. Fitch shows sector-specific key ratios asso various ratings levels. <sup>15</sup> Table 10 Divestors Service, Rating Methodology Regulated Electric and Gas Utilit 2013). <sup>14</sup> See id. at page 2438 (Factor 4: Financial Strength). <sup>15</sup> FitchRatings, Financial Profile Key Factors (Mar. 2018).	

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Table 12 below includes the Fitch benchmark range for certain credit ratings:16

Table 12. Fitch Select Key Ratios

	Total Adjusted Debt to Operating EBITDAR <sup>17</sup>	FFO Gross Adjusted Leverage	FFO Fixed Charge Coverage
"A"	3.25x	3.5x	5.0x
"BBB"	3.75x	5.0x	4.5x
"BB"	4.75x	6.5x	3.5x
"В"	6.00x	7.0x	2.0x
"CCC"	>8.00x	>9.0x	<1.0x subject to material execution risk

It should be noted that these benchmarks represent guidelines and are not strict targets as the rating process for S&P, Moody's and Fitch alike require a balance

of quantitative and qualitative considerations. I explain this more completely later

in this testimony.

<sup>16</sup> *Financial Profile Key Factors, supra*\_note 15, at page 205.

EBITDAR is the acronym used for earnings before income taxes, interest expense, depreciation and amortization and rent expense. EBITDAR is the use of operating earnings before income taxes, interest expense, depreciation and amortization and rent expense (EBITDA) plus gross rental expense. Fitch uses EBITDAR as a metric because

[t]he use of operating EBITDA plus gross rental expense (EBITDAR, including operating lease payments) improves comparability across industries (eg, retail and manufacturing) that exhibit different average levels of lease financing and within industries (eg, airlines) where some companies use lease financing more than others.

FitchRatings, *Corporate Rating Criteria* at 47 (Feb. 2019), available at <a href="https://www.fitchratings.com/site/search?content=research&filter=CRITERIA%20STATUS%5ECriteria%20-%20Active%2BRESEARCH%20LANGUAGE%5EEnglish%2BREPORT%20TYPE%5ERating%20Criteria%2BMARKET%20SECTOR%5ECorporate%20Finance%2BCRITERIA%20TYPE%5EMaster.">https://www.fitchratings.com/site/search?content=research&filter=CRITERIA%20STATUS%5ECriteria%20-%20Active%2BRESEARCH%20LANGUAGE%5EEnglish%2BREPORT%20TYPE%5ERating%20Criteria%2BMARKET%20SECTOR%5ECorporate%20Finance%2BCRITERIA%20TYPE%5EMaster.</a>

1	Q.	What are PSE's S&P credit metrics for the test year?				
2	A.	S&P credit metrics for PSE's financial statements are as follows for the year				
3		ended December 31, 2018:				
4		(i) Funds from operations to debt: 21.7%; and				
5		(ii) Debt to EBITDA: 3.6x.				
6		Please see the Fifth Exhibit to the Prefiled Direct Testimony of Daniel A. Doyle,				
7		Exh. DAD-6, for the S&P credit metrics for PSE for the test year.				
8	Q.	What are PSE's Moody's credit metrics for the test year?				
9	A.	Moody's credit metrics for PSE's financial statements are as follows for the year				
10		ended December 31, 2018:				
11 12		(i) adjusted cash from operations pre-working capital to debt: 20.3%;				
13 14		(ii) adjusted cash from operations pre-working capital to interest: 4.8x;				
15 16		<ul> <li>(iii) adjusted cash from operations pre-working capital less dividends to debt: 16.5%; and</li> </ul>				
17		(iv) adjusted Debt to total capitalization: 49.9%.				
18		Please see the Fifth Exhibit to the Prefiled Direct Testimony of Daniel A. Doyle,				
19		Exh. DAD-6, for the Moody's credit metrics for PSE for the test year.				
	(Non	led Direct Testimony Exh. DAD-1Tr confidential) of Page 41 of 49 el A. Doyle				

1	Q.	What are PSE's Fitch credit metrics for the test year?
1	Q,	what are 1.5E s Fitch creat metrics for the test year.
2	A.	Fitch credit metrics for PSE's financial statements are as follows for the year
3		ended December 31, 2018:
4		(i) FFO Fixed Charge Coverage: 4.4x
5		(ii) FFO Adjusted Leverage: 3.9x
6		(iii) Total Adjusted Debt to Operating EBITDAR: 3.3x
7		Please see the Fifth Exhibit to the Prefiled Direct Testimony of Daniel A. Doyle,
8		Exh. DAD-6, for the Fitch credit metrics for PSE for the test year.
9	Q.	What will PSE's projected S&P credit metrics be in the rate year, assuming
10		the revenue requirement requested by PSE in this proceeding?
11	A.	Assuming the revenue requirement requested by PSE in this proceeding, S&P
12		credit metrics for PSE in the rate year would materially improve as follows:
13		(i) Funds from operations to debt: 23.3%; and
14		(ii) Debt to EBITDA: 3.4x.
15		Please see the Fifth Exhibit to the Prefiled Direct Testimony of Daniel A. Doyle,
16		Exh. DAD-6, for the projected S&P credit metrics for PSE for the rate year.
		led Direct TestimonyExh. DAD-1Trconfidential) ofPage 42 of 49
		el A. Doyle

1	Q.	What will PSE's projected Moody's credit metrics be in the rate year,			
2		assuming the revenue requirement requested by PSE in this proceeding?			
3	А.	Assuming the revenue requirement requested by PSE in this proceeding, Moody's			
4		credit metrics for PSE in the rate year would materially improve as follows:			
5 6		<ul> <li>(i) adjusted cash from operations pre-working capital to debt: 22%;</li> </ul>			
7 8		(ii) adjusted cash from operations pre-working capital to interest: 5.2x;			
9 10		(iii) adjusted cash from operations pre-working capital less dividends to debt: 18.2%; and			
11		(iv) adjusted Debt to total capitalization: 49.9%.			
12		Please see the Fifth Exhibit to the Prefiled Direct Testimony of Daniel A. Doyle,			
13		Exh. DAD-6, for the projected Moody's credit metrics for PSE for the rate year.			
14	Q.	What will PSE's projected Fitch credit metrics be in the rate year, assuming			
15		the revenue requirement requested by PSE in this proceeding?			
16	A.	Assuming the revenue requirement requested by PSE in this proceeding, Fitch			
17		credit metrics for PSE in the rate year would materially improve as follows:			
18		(i) FFO Fixed Charge Coverage: 4.7x			
19		(ii) FFO Adjusted Leverage: 3.6x			
20		(iii) Total Adjusted Debt to Operating EBITDAR: 3.2x			
21		Please see the Fifth Exhibit to the Prefiled Direct Testimony of Daniel A. Doyle,			
22		Exh. DAD-6, for the projected Fitch credit metrics for PSE for the rate year.			
	(Non	led Direct Testimony Exh. DAD-1Tr aconfidential) of Page 43 of 49 el A. Doyle			

1	Q.	What other	What other considerations do the credit rating agencies make when issuing					
2		credit rating	s?					
3	A.	The credit rat	The credit rating agencies consider a number of categories, which can be both					
4		quantitative a	nd qualitative in nature. For example,	the credit ratings agencies also				
5		consider regu	lation, markets, competition, operation	s and management.				
6	Q.	What catego	ries of additional consideration does	S&P include in its rating				
7		analysis?						
8	A.	S&P rating m	ethodology bases its ratings on three n	najor categories. These				
9		categories are	e shown below: <sup>18</sup>					
10 11		(i)	Business Risk Profile, which assesses regulation and competitive position	s industry risk,				
12 13		(ii) Financial Risk Analysis, which assesses commodity trackers, accounting and capital expenditures						
14 15		(iii) Rating Modifiers, which assesses capital structure, financial policy, management and governance						
16	Q.	What catego	ries of additional consideration does	Moody's include in its				
17		rating analy	sis?					
18	A.	Moody's revi	sed rating methodology bases its rating	gs on four major categories.				
19		These categories, and the weights assigned to each are shown below:19						
20		(i)	Regulatory Framework	25 percent				
		&P Global Ratings 013).	, Key Credit Factors for The Regulated Utilitie	es Industry, at pages 2-18 (Nov. 19,				
		· · · · · · · · · · · · · · · · · · ·	Regulated Electric and Gas Utilities, supra no	ote 13, at page 46.				
	(Non	led Direct Testin confidential) of el A. Doyle	• <b>NEVISED</b>	Exh. DAD-1Tr Page 44 of 49				

1 2		(ii)	Ability to Recover Costs and Earn Returns	25 percent
3		(iii)	Diversification	10 percent
4 5		(iv)	Financial Strength, Liquidity and Key Metrics	40 percent
6		As indicated	here, the regulatory framework an	nd the ability to recover prudently
7		incurred costs	s and earn allowed returns compr	ise 50 percent of Moody's ratings
8		consideration	s.	
9	Q.	What catego	ries of additional consideration	does Fitch include in its rating
10		analysis?		
11	А.	Fitch rating n	nethodology bases its ratings on f	our major categories. These
12		categories are	e shown below: <sup>20</sup>	
13 14 15		(i)	Regulation, which assesses pre- cost recovery, trends in authoriz mechanisms supportive of cred	zed returns on equity,
16 17		(ii)	Market and Franchise, which as customer trends and supply-der	
18 19		(iii)	Asset Base and Operations, wh environmental and capital and t	•
20 21		(iv)	Commodity Exposure, which as hedging and fuel diversity	ssesses supply diversity,
	$\frac{20}{20}$ Fi			
	-• Fi	nanciai Profile Ke	y Factors, supra note 15, at page 204.	

1	Q.	How does S&P characterize the importance of supportive regulation?
2	A.	Supportive regulation is an important component of credit assessment, including
3		reducing the impact of regulatory lag as noted below by S&P:
4 5 5 7		The regulatory framework/regime's influence is of critical importance when assessing regulated utilities' credit risk because it defines the environment in which a utility operates and has a significant bearing on a utility's financial performance.
8 9 0 1 2 3		We base our assessment of the regulatory framework's relative credit supportiveness on our view of how regulatory stability, efficiency of tariff setting procedures, financial stability, and regulatory independence protect a utility's credit quality and its ability to recover its costs and earn a timely return. Our view of these four pillars is the foundation of a utility's regulatory support <sup>21</sup>
4	Q.	How does Moody's characterize the importance of supportive regulation?
5	A.	The regulatory environment and how a utility adapts to that environment are the
6		most important credit consideration as noted below by Moody's:
7 8 9 0 1 2 3 4 5 6 7 8		The regulatory environment is comprised of two rating factors - the Regulatory Framework and its corollary factor, the Ability to Recover Costs and Earn Returns. Broadly speaking, the Regulatory Framework is the foundation for how all the decisions that affect utilities are made (including the setting of rates), as well as the predictability and consistency of decision-making provided by that foundation. The Ability to Recover Costs and Earn Returns relates more directly to the actual decisions, including their timeliness and the rate-setting outcomes. Utility rates are set in a political/regulatory process rather than a competitive or free-market process; thus, the Regulatory Framework is a key determinant of the success of [the] utility. <sup>22</sup>
	$\frac{1}{21}$ K	ey Credit Factors for the Regulated Utilities Industry, supra note 18, at page 6.

<sup>&</sup>lt;sup>22</sup> Moody's Investors Service, Rating Methodology Regulated Electric and Gas Utilities, at pages 6-7 (June 23, 2017). Rating Methodology Regulated Electric and Gas Utilities, supra note 13, at page 9.

1	Q.	How does Fitch characterize the importance of supportive regulation?
2	A.	Fully regulated utilities are subject to conducive tariff regulations. There exists
3		significant regulatory oversight regarding costs of service, operating performance,
4		financing and other strategic activities. Assessing the regulatory framework in
5		which a utility operates is one of the key factors to help with the stability of cash
6		flows as noted below by Fitch:
7 8 9 10 11 12		The nature of tariff-setting mechanisms, consistency in rule-making and regulatory outcomes, and the level of political influence exerted on regulations have a significant bearing on the stability of cash flows. State regulatory frameworks do not affect a competitive generator by a similar magnitude, yet regulatory and political interests can still interfere with market mechanisms <sup>23</sup> .
13	Q.	What is S&P's view on the current state of PSE's regulatory environment?
14	A.	In the Rationale section of its report dated December 14, 2018, <sup>24</sup> S&P states:
15 16 17 18 19 20 21 22 23 24 25 26 27		While the company has taken some steps to gradually improve its management of regulatory risk, we view the regulatory environment in Washington as generally less constructive compared to other jurisdictions, in part reflecting the lack of consistency in the regulatory construct in the state. Previously, PSE benefitted from annual preset rate increases and annual revenue decoupling adjustments under its 2013 rate plan. With the expiration of this rate plan in 2017, PSE will need to seek cost recovery using more frequent Expedited Rate Filings (ERF) or general rate cases to recover its costs. This approach introduces more regulatory risk, since adverse or delayed outcomes from these filings may introduce regulatory lag, potentially constraining the company's ability to receive timely recovery of its costs. <sup>25</sup>
	<sup>24</sup> So N	<i>Tinancial Profile Key Factors, supra</i> note 15, at page <del>203</del> 202. &P Global Ratings, <i>Puget Energy Inc. And Subsidiary Ratings Affirmed; Outlooks Revised to</i> <i>Vegative On Weakening Financial Measures</i> (Dec. 14, 2018). <i>d.</i> at page 4.
	(Non	led Direct Testimony aconfidential) of el A. DoyleREVISED AUGUST 22, 2019Exh. DAD-1Tr Page 47 of 49

1	2.	What is Moody's view on the current state of PSE's regulatory environment
2 A	A.	In the Outlook section of its report dated August 31, 2018, <sup>26</sup> Moody's states:
3 4 5 6 7 8		The stable outlook reflects PSE's credit supportive relationship with the WUTC and its stable and predictable cash flow. The outlook also incorporates our view that the current regulatory relationship in Washington will support its current financial profile, including a ratio of cash flow from operations before changes in working capital (CFO pre-WC) to debt above 20% over the next 12-18 months. <sup>27</sup>
9	<b>)</b> .	What is Fitch's view on the current state of PSE's regulatory environment?
0 A	<b>\</b> .	In the Key Rating Driver section of PSE's report dated October 26, 2018, <sup>28</sup> Fitch
1		states:
2 3		PE and PSE's rating and Outlook take into consideration the relatively restrictive regulation in the state of Washington.
4 5 6 7 8 9 0 1 2		Revenue requirements in rate case proceedings are largely based on historical test years. Authorized ROEs and equity ratios are relatively low. Expedited rate filing (ERF) allows recovery of delivery revenues between general rate cases (GRCs). However, PSE recently withdrew its ERF filing to work through the details with the commission and staff, a process that Fitch Ratings will monitor closely. Additionally, a court order related to a peer utility has cast doubts on the continuation of attrition adjustments for rate base calculation.
3 4 5 6 7 8		On the positive side, PSE benefits from full revenue decoupling for both electric and gas operations that mitigates revenue fluctuation from weather, conservation and changes in energy usage patterns. PSE also benefits from trackers and recovery mechanisms for power costs, conservation, property taxes, pipeline replacement, purchased gas and low income. <sup>29</sup>
20		body's Investors Service, Credit Opinion Puget Sound Energy (Aug. 31, 2018). at page 2.
28	<sup>8</sup> Fit	the page 2. The Ratings, <i>Fitch Affirms Puget Energy at 'BBB-' and Puget Sound Energy at 'BBB+'; Outlook able</i> (Oct. 10, 2018).
29		at pages 1-2.

## Q. Does PSE expect that its credit ratings will be upgraded during the rate year or relative near term?

3 No. PSE does not expect that its credit ratings will be upgraded during the rate Α. 4 year or relative near term, particularly in light of the projected rate year credit 5 metrics set forth above. PSE does believe that the improved rate year credit 6 metrics discussed above will go far to persuade S&P to restore PSE's outlook 7 from negative to stable and will provide ratings adequate protection from future 8 negative outlooks from the rating agencies. PSE desires to maintain its current 9 credit ratings and restore, over time, its cash flow-based credit metrics to pre-tax 10 reform levels to cost-effectively finance operations for the benefit of customers 11 and to provide it with a measure of financial flexibility in varying and volatile 12 economic conditions. Additionally, PSE is hopeful that the recent settlement of 13 the Expedited Rate Filing in Dockets UE-180899 and UG-180900 and the 14 significant and credit supportive regulatory reform aspects of the Washington 15 Clean Energy Transformation Act (Engrossed Second Substitute Senate Bill 16 5116) which was signed into law by Governor Inslee on May 7, 2019, will further 17 persuade S&P to return PSE's rating outlook back to stable from negative.

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## VI. CONCLUSION

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Q. Does that conclude your prefiled direct testimony?

20 A. Yes, it does.

Prefiled Direct Testimony (Nonconfidential) of Daniel A. Doyle