#### EXHIBIT NO. \_\_\_(MBM-1T ) DOCKETS UE-151871/UG-151872 PSE EQUIPMENT LEASING SERVICE WITNESS: MALCOLM B. MCCULLOCH

Dockets UE-151871

**UG-151872** 

#### BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

#### WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

PUGET SOUND ENERGY,

**Respondent.** 

#### PREFILED DIRECT TESTIMONY OF MALCOLM B. MCCULLOCH ON BEHALF OF PUGET SOUND ENERGY

February 25, 2016

# PUGET SOUND ENERGY

## PREFILED DIRECT TESTIMONY OF MALCOLM B. MCCULLOCH

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1		PUGET SOUND ENERGY
2 3		PREFILED DIRECT TESTIMONY OF MALCOLM B. MCCULLOCH
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6		I. INTRODUCTION
7	Q.	Please state your name, business address, and position with Puget Sound
8		Energy.
9	А.	My name is Malcolm B. McCulloch. My business address is 10885 N.E. Fourth
10		Street Bellevue, WA 98004. I am the Manager, Leasing for Puget Sound Energy
11		("PSE" or the "Company").
12	Q.	Have you prepared an exhibit describing your education, relevant
13		employment experience, and other professional qualifications?
14	А.	Yes, I have. It is Exhibit No. (MBM-2).
15	Q.	What are your duties as Manager, Leasing for PSE?
16	А.	As Manager, Leasing, I am responsible for the management, coordination, profit
17		and loss of all residential and commercial leased products and services. This
18		includes coordination of all activities involved in leasing, including marketing,
19		selling, purchasing, materials, billing, service and maintenance. Additionally, I
20		am responsible for the development and deployment of the expanded Lease
21		Solutions service options discussed in this testimony.

**Q**.

#### Please summarize your testimony.

A. PSE's Lease Solutions service provides a turn-key service that allows residential
and commercial customers to lease new efficient-energy products from PSE. This
service builds off the Company's existing water heat rental service, which has
been offered by PSE for over four decades, by implementing several key
improvements to enhance both the scope of customer offerings and the long-term
financial stability of the program.

#### 8 Q. What is the purpose of your testimony?

9 A. My testimony will outline how PSE established market parameters and tested
10 customer interest, describe the leasing service's features, discuss how it differs
11 from the existing rental service, detail how the Company will establish service
12 partnerships to conduct activities at customers' sites, and provide an explanation
13 of the rates and rate structure of the program.

14

#### II. MARKET AND CUSTOMER INSIGHTS

# Q. How did PSE establish market parameters for PSE's proposed Lease Solutions service?

A. In order to establish a detaile percent understanding of existing market
conditions, an analysis was conducted to pinpoint the types of space heat and
water heat equipment currently being used in the existing market. The Northwest
Energy Efficiency Alliance's (NEEA) 2012 Residential Building Stock
Assessment, NEEA's 2009 Commercial Building Stock Assessment, and PSE's
2012 Fact book, were used as reference points for this exercise to ensure the data
appropriately reflected customers within PSE's service territory.

1		1. Space Heat Equipment
2		The findings for space heat equipment indicated that 70 percent of
3		PSE's single-family residential customers use gas forced-air
4		furnaces or air-source heat pumps to heat their homes; 71% of PSE
5		customers use natural gas as their primary heat source. See Figure
6		1 in Exhibit No (MBM-3).
7		2. Water Heat Equipment
8		As illustrated in Exhibit No (MBM-3), Figures No. 2 and 3,
9		the water heat markets in both the residential and commercial
10		sectors are largely dominated by tank-style water heaters. In
11		Washington State, 97 percent of single-family residential water
12		heat equipment is tank-style; 61 percent of PSE customers use
13		natural gas to heat their water while 35 percent use electricity. In
14		the commercial market, 80 percent of PSE customers also use self-
15		contained water heaters, and the largest sector within that is tank-
16		style; both natural gas (42 percent) and electricity (54 percent) are
17		used for fuel.
18	Q.	Is there a gap in these markets that Lease Solutions is designed to address for
19		these products? Please elaborate on this gap.
20	A.	A significant portion of the market is utilizing furnaces, heat pumps and water
21		heaters that have far exceeded their useful life and this service will help either
22		increase or accelerate the rate of replacement of such equipment.
23	Q.	What does PSE mean by "useful life"?
	Prefil	ed Direct Testimony Exhibit No(MBM-IT)

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A. "Useful life" was defined using the below industry useful life standards; taking a
 simple average of these standards results in a mean 15-year useful life.

Equipment	Useful Life (Years)
Residential Gas Furnace	181,2
Residential Heat Pump	153
Commercial and Residential Tank-Style Water Heater	124

# 3 Q. How was this 15-year "useful life" standard used to define a gap in the

#### market?

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5A.Using the above useful life average, an assessment of the Northwest Energy

Efficiency Alliance's 2012 Residential Building Stock data was conducted to

determine what percentage of installed equipment was installed on or before

2000, which represents equipment that is 15 or more years old. As detailed in Mr.

Teller's testimony, this analysis revealed that approximately 40 percent of the

10 products in service today have exceeded their useful lives.

# 11 Q. Has PSE measured customer interest in PSE's proposed Lease Solutions?

- 12 A. Yes. PSE conducted customer surveys to determine specific customer
  - preferences and interest with respect to leasing space heat and water heat
    - equipment. Surveys were completed in partnership with PSE's Customer

<sup>2</sup> Washington State Office of Financial Management, State Administrative & Accounting Manual (SAAM), 30.50 Capital asset class codes and useful life schedule http://www.ofm.wa.gov/policy/30.50.htm.

<sup>&</sup>lt;sup>1</sup> Energy Star Furnace Calculator Assumptions tab

 $http://www.energystar.gov/sites/default/uploads/buildings/old/files/Furnace_Calculator.xls.$ 

<sup>&</sup>lt;sup>3</sup> Washington State Office of Financial Management, State Administrative & Accounting Manual (SAAM), 30.50 Capital asset class codes and useful life schedule http://www.ofm.wa.gov/policy/30.50.htm.

<sup>&</sup>lt;sup>4</sup> Air Conditioning, Heating, and Refrigeration Institute http://www.ahrinet.org/site/589/Homeowners/Save-Energy/Water-Heating-Products & Gas Tariff Increase Filing, under WUTC Docket No. UG-101644.

1 Intelligence team, leveraging the existing residential customer panel, as well as 2 with a third-party research consultant, Cocker Fennessy. As the Cocker Fennessy 3 research survey is most recent and most specifically targeted to the product 4 portfolio as currently filed, I describe their research methodology and survey 5 findings below. 6 **Q**. Please describe the Cocker Fennessy survey methodology? 7 A. Cocker Fennessy conducted an online survey of PSE customers between January 8 30 and February 4, 2016. Eligible respondents lived in the PSE service area, were 9 homeowners and were responsible for or informed about household decisions 10 about major appliance purchases. *See* Exhibit No. \_\_\_\_ (MBM-4). 11 **Q**. What information was provided to customers taking the survey? 12 A. To determine potential participation in a lease offer, customers were informed that 13 PSE is considering offering a new service where customers would pay an all-14 inclusive, fixed monthly fee to lease various types of energy equipment. These 15 monthly fees would cover the cost of the equipment, installation, permitting fees, and future maintenance and repair costs. Customers were further informed of the 16 17 following lease components: No upfront cost, energy-efficient equipment, 24-18 hour customer service, ability to transfer the lease when you sell a home and the 19 option to start a new lease when the term has ended. As an example, below is 20 how customers were informed of the leasing program features for a residential 21 natural gas furnace:

### NATURAL GAS FURNACE

	PROPOSED LEASING PROGRAM CHARACTERISTICS	Natural Gas Furnace
	Estimated Monthly Fee	\$60/month
	Lease Term	17 years
	Maintenance	Every 2 years
2 Q.	What were the key findings from this sur	vey?
3 A.	There were five key findings from the surve	ey, which are detailed below.
4 5	1. Customers expressed strong program.	interest in the proposed leasing
5	• As shown in the table below, am	ong all customers, 25 percent a
7	interested in the water heater lea	sing program; 18 percent are
3	interested in the natural gas furn	ace leasing program; and 13 pe
)	are interested in the heat pump le	easing program. In addition to
	interested, there was a large shar	e of customers that are neutral
	idea of leasing with 29 percent n	nore in water heating, 22 perce
	in notural gas furnaces, and 20 n	ercent more in heat pumps. In
2	in natural gas furnaces, and 20 p	
3	33-54 percent of customers are n	neutral to very interested in leas
		eutral to very interested in leas
	33-54 percent of customers are n	
	33-54 percent of customers are n Lease Product	Interested Net
	33-54 percent of customers are n           Lease Product           Residential Water Heater	Interested         Net           25%         29           18%         22
3	33-54 percent of customers are n Lease Product Residential Water Heater Residential Gas Furnace	Interested         Net           25%         29           18%         22           np         13%         20
5	33-54 percent of customers are n Lease Product Residential Water Heater Residential Gas Furnace Residential Air Source Heat Pun	InterestedNet25%2918%22np13%20nong customers with older equiparts
4	<ul> <li>33-54 percent of customers are not see in the second second</li></ul>	InterestedNet25%2918%22np13%20nong customers with older equeful life:32 percent of those w
	<ul> <li>33-54 percent of customers are not see the second second</li></ul>	InterestedNet25%2918%22np13%20nong customers with older equeful life:32 percent of those wlder are interested in leasing;2
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3 4 5 7	<ul> <li>33-54 percent of customers are not see in the second sec</li></ul>	InterestedNet25%2918%22np13%20nong customers with older equeful life:32 percent of those wlder are interested in leasing;2

1	1 interested; and 16 percent of th	nose with a 16 year or older heat pump
2	2 are interested.	
3 4	3     2.     The presence of a leasing p       4     acquisition.	program would accelerate equipment
5	5 • If a leasing program were avai	lable, 17 percent of customers surveyed
6	6 say that they "probably" or "de	efinitely" would replace their home
7	7 heating or hot water equipment	t earlier than if they had to make
8	8 purchase decisions and mainta	in the equipment themselves. Another
9	9 27 percent say they "possibly"	would accelerate their purchase.
10	10         3.         Customers strongly support	t key concepts of the leasing program.
11	• 87 percent of customers survey	yed expressed interest in the 24-hour
12	12 customer service and same-day	y repairs; 72 percent of customers
13	13 surveyed reported that the prog	gram's maintenance and repair would
14	14 provide added peace-of-mind;	and 70 percent say it is important to
15	15 help people switch to technolo	gically-advanced equipment to help
16	16 people save money on their en	ergy bills.
17	17 <u>4.</u> Access to smart technolog	y is appealing.
18	• 39 percent of customers said th	hat if their leased water heater was
19	19 equipped with the appropriate	technology, they would enroll in a
20	20 demand response program in e	exchange for a monthly incentive.
21	• 38 percent of customers said th	hat if their leased furnace or heat pump
22	22 was equipped with a web-enab	oled thermostat, they would enroll in a
23	23 demand response program in e	exchange for a monthly incentive.
	Prefiled Direct Testimony	Exhibit No. (MBM-IT)

1		5. PSE is trusted to deliver an equipment leasing program.
2		• 66 percent of surveyed customers say PSE is trusted and will provide
3		customers with the information, equipment and services they need.
4	Q.	What did PSE learn from this survey?
5	A.	PSE learned that its customers view PSE as a trusted partner and that the Lease
6		Solutions service can help meet customers' critical needs when faced with the
7		task of replacing and managing their existing energy equipment. Additionally,
8		the survey shows that customers value solutions that have low upfront cost,
9		provide piece of mind through inclusive maintenance and repair, and provide the
10		ability to save on their energy bills. Customers expressed a considerable interest
11		in Lease Solutions, validating that the product portfolio, inclusive services, lease
12		terms, and estimated monthly costs would provide value to many customers and
13		that there is a clear market demand for this service.
14		III. LEASE SOLUTIONS SERVICE AND TARIFF SCHEDULES
15	Q.	Please briefly describe the equipment leasing service proposed by PSE.
16	A.	The equipment leasing service is a turn-key, all-inclusive service where PSE will
17		lease tank-style natural gas and electric water heaters, natural gas furnaces and
18		electric air source heat pumps to customers. For one monthly lease payment, PSE
19		will manage the installation of the equipment, provide ongoing maintenance, and
20		perform any needed repairs or failed-equipment replacement throughout the lease
21		term with no additional cost to the customer. The equipment leasing service
22		removes barriers to the replacement of older, inefficient equipment by using a
23		streamlined credit approval process, affordable access to energy-efficient and
	Prefil	led Direct Testimony Exhibit No(MBM-IT)

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1		connected equipment options, and a simple product selection model. To deliver
2		this service, as described below, PSE will rely on the expertise of service partners
3		in the market to install and maintain the equipment according to the service's
4		parameters. Customers will have the convenience and peace of mind knowing
5		that their heating and water heating equipment is efficient, dependable, and safe.
6	Q.	Does PSE currently offer tariffs that authorize the rental of water heaters
7		and other end use equipment?
8	A.	Yes, PSE and a predecessor company, Washington Natural Gas, have offered
9		rental of natural gas equipment since 1962. This includes Schedule 71 – Natural
10		Gas Residential Water Heater Rental Service; Schedule 72 – Natural Gas Large
11		Volume Water Heater Rental Service; and Schedule 74 – Natural Gas Conversion
12		Burner Rental Service. PSE has approximately 35,000 customers that currently
13		utilize this service. In 2000, these schedules were closed to new customers
14		because at that time, PSE determined it was unable to cost-effectively provide
15		these services to new residential and commercial customers under the existing
16		program and rate structure.
17	Q.	Does PSE anticipate it can cost-effectively provide the Lease Solutions
18		services that it proposes under Schedule 75?
19	A.	Yes, as discussed below, there are several significant differences between the
20		Lease Solutions service PSE proposes to offer under Schedule 75 and the rental
21		services offered in Schedules 71, 72 and 74.

1	Q.	Describe the specific features of PSE's proposed Lease Solutions and how it
2		differs from PSE's existing equipment rental program.
3	A.	The Lease Solutions service differs from the existing rental tariff in several
4		distinct categories. PSE has listened to input from various stakeholders and
5		reviewed current market conditions. As a result, PSE has incorporated various
6		components into the expanded lease service as outlined below.
7		1. Fixed-lease term.
8		The rental agreement for the existing rental program does not have a set
9		end date while the Lease Solutions service will have specified lease terms
10		for each product. With respect to the Lease Solutions service, at the end
11		of the lease term, at the customer's request and option (i) PSE will replace
12		the equipment with identical or similar equipment, and the customer will
13		enter into a new lease agreement for the new equipment at the then current
14		monthly lease payment and lease term; or (ii) the customer can return the
15		equipment to PSE, and permit PSE or its agents to enter the premises
16		where the equipment is located for the purpose of removal. If the
17		customer chooses replacement equipment, PSE will replace the leased
18		equipment as soon as is commercially reasonable after PSE is notified by
19		the customer. Prior to installation of the new equipment, PSE and the
20		customer will execute a new equipment lease agreement containing the
21		new lease terms.

I

# 2. Fixed-lease price.

2	The existing rental rate is not fixed, as the service does not have a
3	distinctive term, therefore a customer's rate may change over time. In
4	contrast, the Lease Solution service rates are predicated on an all-inclusive
5	fixed lease price that includes the equipment, installation, and operating
6	and maintaining the equipment over the entire life of the lease. Lease
7	rates can change over time for new customers entering into a new lease
8	service but rates will not change for customers currently in a lease as the
9	rates are fixed during the term.
10	3. Comprehensive maintenance and repairs.
11	Under the existing rental tariff, PSE gas service technicians provide all
12	repair services for the program; however no scheduled preventive
13	maintenance service is included. The Lease Solutions service is inclusive
14	of both repair and preventive maintenance activities, which will be
15	fulfilled by contracted service partners. If PSE cannot repair equipment,
16	PSE will replace the equipment at no cost to the customer during the life
17	of the lease term.
18	4. Broader product portfolio with energy-efficient equipment.
19	The existing rental service is restricted for all models of residential natural
20	gas water heaters with energy factors less than .60. The existing rental
21	service also includes commercial natural gas large volume water heaters.
22	The Lease Solutions service includes a broader range of energy-efficient
23	and connected equipment choices. Connected equipment options will

1	allow the Company, when there is a Demand Response Conservation
2	Program available to customers, to leverage these deployed connected
3	assets to quickly dispatch load control and energy storage capabilities for
4	those customers who choose to enroll. The initial Lease Solutions
5	portfolio will offer:
6	• Residential natural gas and electric tank-style water heaters
7	Residential natural gas furnaces
8	• Residential electric air source heat pumps
9 10	• Commercial natural gas and electric tank-style water heaters
11	5. Access to energy-efficient rebates.
12	The Lease Solutions service, through this broader product portfolio, will
13	complement PSE's Energy Efficiency (Conservation) Programs by
14	promoting the installation of energy-efficient equipment and stimulating
15	the replacement of inefficient equipment that has exceeded its useful life,
16	beyond what PSE has been able to achieve through its Conservation
17	Programs funded through Schedule 120. Since those choosing this service
18	will be paying the incremental cost to access more efficient products, all
19	eligible customers will have the benefit of applicable energy efficiency
20	rebates, and the associated savings from these rebates will be accounted
21	for under applicable approved Conservation Programs. Through the Lease
22	Solutions service, all eligible customers will benefit from automated
23	rebate dispensation, as well as other energy-efficiency related services.

1	6. Lease Solutions is supported by only participating customers.	
2	In May 2000, PSE requested that tariff schedules for its rental of natural	
3	gas equipment be closed to new customers, because at that time, the	
4	Company was unable to cost-effectively provide rental services to new	
5	residential and commercial customers under the existing program and rat	e
6	structure. This structure did not provide for appropriate ring-fencing of	
7	the program financials, which resulted in unanticipated costs and revenue	•
8	adjustments as a result of general rate case activities. By appropriately	
9	assessing all costs to this specific rate class under the Lease Solutions	
10	service, the Company can assure that those customers who also elect to	
11	use the expanded optional energy equipment lease service do not burden	
12	other customers.	
13	Q. How is Lease Solutions an improvement to PSE's existing rental programs?	
14	A. Lease Solutions contains several important improvements to PSE's existing renta	al
15	programs:	
16	• By providing a fixed-lease price for a specified lease term, the Lease	
17	Solutions service will provide customers with a clear understanding of the fu	11
18	costs of the service with which they can assess whether the optional service	
19	provides value and is appropriate for their needs.	
20	• The inclusive scheduled maintenance by a certified technician provides	
21	customers the additional peace of mind in knowing that their leased	
22	equipment will perform to the manufacturers' specification during the life of	
23	the lease and that they will not have to pay for any repairs. In the recent	
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1		survey, 72 percent of customers stated this was important to them and
2		provided clear value.
3		• Having more product options available through the Lease Solutions service
4		will allow customers to choose the equipment that is right for their individual
5		needs.
6		• The inclusion of energy-efficient and connected equipment will help
7		customers save more energy and money. Both of these features may not have
8		been affordable absent the lease option. In the recent survey, 70 percent of
9		customers said it is important to help people switch to technologically-
10		advanced equipment to help people save money on their energy bills.
11		Customers who choose this option should have access to applicable energy-
12		efficiency rebates, allowing them to benefit from the rider funding to which
13		they contribute.
14		• Finally, the structure of the rates provides long-term assurance that the service
15		will remain a viable platform, and that both participating and new customers
16		will continue to receive the above-mentioned benefits.
17	Q.	Will Lease Solutions incorporate demand response capabilities?
18	A.	Yes. The Lease Solutions portfolio will also include connected equipment
19		options, so that when there is a Demand Response Conservation Program
20		available to customers, the service will have optional products for participation in
21		the program.

1		IV. SERVICE PARTNERSHIPS
2	Q.	How will PSE implement the Leasing Program?
3	А.	To effectively deliver a comprehensive lease service that will expand participation
4		in the existing market, PSE will engage its valued service partners to facilitate the
5		equipment distribution and in-home fulfillment tasks, including pre-installation
6		site checks, permitting, installation, maintenance, and repair services. The service
7		will ensure that the service partner who performs the initial site check will be the
8		same service partner responsible for the equipment through installation,
9		maintenance, and service. This promotes a greater sense of continuity from the
10		customer's perspective while simultaneously increasing the potential for repeat
11		business for PSE's service partners. If for some reason, the original contractor is
12		unable to perform, PSE will place repair and maintenance work up for bid to all
13		eligible PSE contractors.
14	Q.	Please describe the service partner models that will be utilized in support of
15		this service.
16	A.	The Lease Solutions service will offer the flexibility for contracted service
17		partners to source and manage the equipment, should that choice be preferred.
18		Figures 1 through 5 on Exhibit No (MBM-5) illustrate the three service
19		partner paths for which contractors may elect to contract with PSE, and the
20		respective roles for contracted service partners under each of these paths. All
21		paths are available to all service partners, and each service partner can determine
22		through the procurement process whether to contract with PSE through one, two,
23		or all three paths simultaneously.
	Prefil	ed Direct Testimony Exhibit No. (MBM-IT)

1	PSE's goal is to create a partnership agreement and contract with local service
2	partners who are capable of providing services for its leasing customers. PSE will
3	identify service partners that can provide a high level of service at a competitive
4	price while addressing an innovative approach. In order to provide flexibility and
5	convenience for the service partner and the customer, there will be three possible
6	service paths as shown in Figure No. 2 on Exhibit No (MBM-5).
7	<u>1. The PSE Path</u>
8	This path is triggered when a customer contacts PSE and expresses
9	interest in the leasing service. The PSE Path will be supported by a three-
10	year or five-year contract with a service partner to provide site inspection,
11	permitting, installation, maintenance/repair services as well as supporting
12	parts, and removal services for approved water heater and/or HVAC
13	products. PSE will manage the customer acquisition, lease financing and
14	administration activities, and all equipment selection and procurement
15	processes. All equipment will be made available to contracted service
16	partners on a consignment basis through local contracted distribution
17	partners. PSE will manage any necessary equipment warranty processes
18	directly with those distribution partners.
19	2. The Hybrid Path
20	This path is also triggered when a customer contacts PSE and expresses
21	interest in the leasing service. The Hybrid Path will be supported by a
22	three-year or five-year contract with a service partner to supply
23	equipment, provide site inspection, permitting, installation,
	Prefiled Direct Testimony Exhibit No. (MBM-IT)

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1		maintenance/repair services as well as supporting parts, warranty
2		management, and removal services for approved water heater and or
3		HVAC products. PSE will manage the customer acquisition, lease
4		financing and administration activities.
5		3. The Partner Path
6		This path is triggered when a customer contacts a Lease Solutions
7		contracted service partner and expresses interest in the leasing service, or
8		when a partner presents the Lease Solutions service option to an existing
9		customer. The Partner Path will be supported by a three-year or five-year
10		contract with a service partner to promote and manage customer
11		acquisition, supply equipment, provide site inspection, permitting,
12		installation, maintenance/repair services as well as supporting parts,
13		warranty management, and removal services for approved water heater
14		and or HVAC products. PSE will only manage the lease financing and
15		administration activities in this path.
16	Q.	What steps has PSE taken to identify service partners?
17	A.	Requests for Qualifications ("RFQ") were distributed to qualified service
18		providers in both May 2015 and again in January 2016 after PSE expanded its
19		service partner paths. PSE assessed proposals of prospective service partners and
20		conducted a number of prospective partner interviews. Information gathered
21		through this process was utilized to develop rates filed in support of this service.
22		Selection criteria include a combination of product capabilities, territory
23		coverage, past performance, and price.
	Prefil	ed Direct Testimony Exhibit No. (MBM-IT)

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1	Q.	How will PSE collaborate with the service partners to ensure that the service
2		is successful and provides mutual benefit?
3	А.	PSE understands that the success of the Lease Solutions service is contingent on
4		the flawless execution of the customer experience and believes that its service
5		partners play a critical role in this process. PSE is committed to working with its
6		partners to ensure the appropriate policies and processes are in place to support
7		the success of the program and is committed to working collaboratively in the
8		services' deployment and ongoing implementation.
9	V.	EXPLANATION AND SUPPORT OF RATES AND RATE STRUCTURE
10	Q.	Can you explain how the monthly lease rates are calculated?
11	А.	The monthly lease price charged to a customer is calculated based on discounted
12		cash flow methodology. The rates are built on estimates of all costs borne by the
13		Company in installing, operating and maintaining the equipment over the life of
14		the lease term. These costs are totaled and discounted to today's terms using the
15		Company's approved cost of capital in order to calculate the Company's total
16		revenue requirement in net-present value ("NPV"). This amount is then
17		converted into a levelized monthly rate a customer must pay for the Company to
18		earn its approved return for each specific leasing product. The levelized rate
19		remains constant over the life of the lease and does not escalate or change.
20	Q.	Is PSE's weighted cost of capital assessed to the capital costs or the entire
21		bundled service?
22	А.	In calculating the return on rate base for the annual revenue requirement, PSE's
23		weighted cost of capital is assessed to the capital costs, which includes the leased
		ed Direct Testimony Exhibit No. (MBM-IT) lcolm B. McCulloch Page 18 of 21

1		equipment and installation costs. The weighted cost of capital is also used to
2		discount the total revenue requirement into NPV terms in order to calculate the
3		levelized monthly lease rate.
4	Q.	What specifications were provided to ascertain equipment costs?
5	A.	The RFQs required bidders to provide flat rates, excluding taxes, for specific
6		types of equipment based on product size, input capacity, efficiency, system
7		capabilities, and performance qualifications.
8	Q.	How did PSE gather costs for installation and maintenance services?
9	A.	The RFQs required bidders to provide flat rates, excluding taxes, for services
10		based on detailed work specifications for a standard installation. Figure 1 in
11		Exhibit No (MBM-6), details the specifications provided for residential gas
12		furnace installation service.
13	Q.	How did PSE determine what costs should be treated as supplemental
14		expenditures for installation?
15	А.	The RFQs detailed what service tasks were to be considered out of scope. Figure
16		2, in Exhibit No (MBM-6), details the excluded tasks provided for
17		residential gas furnace installation service.
18	Q.	How did PSE use these costs inputs to inform the rates for each product?
19	A.	PSE used the individual bidder response inputs, as available for each of the three
20		service partner paths, to establish average costs for each product and the
21		associated services. Products were then bundled based on aligned characteristics
22		and the average costs were then used in development of the rates filed on
23		February 17, 2016.
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1	Q.	Are these optional rates in addition to other service rates customers receive
2		from PSE?
3	А.	Yes, the monthly lease price is in addition to the charges for natural gas and
4		electric service billed in accordance with the rate schedule(s) on which the
5		customer is served.
6	Q.	Does PSE intend to update the rates periodically?
7	А.	The rate inputs may be reviewed annually, or as deemed appropriate, to determine
8		if certain rates require modification to ensure accurate monthly lease prices.
9	Q.	What type of input changes could result in re-calculated rates?
10	А.	Rate inputs that may change include, but are not limited to, equipment costs,
11		installation costs, forecasted operation and maintenance costs, the Company's
12		approved return and other pricing inputs.
13	Q.	What happens if a rate needs to be modified?
14	А.	If a rate needs to be changed, then PSE will file an update to the tariff with the
15		necessary supporting documentation for WUTC approval. Upon approval, the
16		rate would then be assessed to only new customers, or customers renewing their
17		lease for the service.
18	Q.	Will future rate changes affect customers who already participate in the
19		lease services prior to the rate modification?
20	А.	No, those customers who already participate in the lease service will not see a
21		change in their monthly lease rate if a modification is submitted to and approved
22		by the WUTC. Only those new customers who choose the leasing service after

1		the rate change would pay the new rate. Once a customer begins leasing
2		equipment, the lease price is fixed for the term of the lease.
3	Q.	Has the rate structure been designed to ensure that customers choosing the
4		Lease Solutions service pay the full cost of the service?
5	A.	Yes. PSE was deliberate in the design of the rates to ensure that those natural gas
6		and/or electric customers who also elect to use the expanded optional energy
7		equipment lease service, do not burden other customers. The prices in the tariff
8		sheets filed on February 17, 2016, ensure that the Company recovers its expenses
9		and its weighted average cost of capital approved by the WUTC effective upon
10		the start date of the lease. Over time, the prices can be updated for new leases, as
11		necessary to best reflect the current or expected costs of providing the service.
12		This will also help ensure that the provision of this optional service will not
13		unduly burden any non-participating customers.
14		VI. CONCLUSION
15	Q.	Does this conclude your prefiled direct testimony?
16	A.	Yes.
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