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November 16, 2012

VIA ELECTRONIC FILING AND OVERNIGHT DELIVERY

Oregon Public Utility Commission 550 Capitol Street NE, Ste 215 Salem, OR 97301-2551

Attn: Filing Center

RE: UM 1182 – Direct Testimony and Confidential Exhibit of Stacey J. Kusters

PacifiCorp d/b/a Pacific Power submits for filing an original and five copies of the direct testimony and confidential exhibit of Stacey J. Kusters.

Confidential material in support of the filing has been provided to parties under the protective order in this docket (Order No. 11-506).

PacifiCorp respectfully requests that all data requests regarding this matter be addressed to:

By e-mail (preferred): <u>datarequest@pacificorp.com</u>

By regular mail:

Data Request Response Center PacifiCorp 825 NE Multnomah, Suite 2000 Portland, OR 97232

Please direct any informal inquiries to Bryce Dalley, Director, Regulatory Affairs & Revenue Requirement, at (503) 813-6389.

Sincerely,

Grippith / PBD

William R. Griffith Vice President, Regulation

Enclosures

cc: Service List in UM 1182

CERTIFICATE OF SERVICE

I hereby certify that I served a true and correct copy of the foregoing document, in Docket UM 1182, on the date indicated below by email and/or US Mail, addressed to said parties at his or her last-known address(es) indicated below.

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DATED: November 16, 2012

Amy Eissler Coordinator, Regulatory Operations

Docket No. UM-1182 Exhibit PAC/100 Witness: Stacey J. Kusters

BEFORE THE PUBLIC UTILITY COMMISSION OF THE STATE OF OREGON

PACIFICORP

Direct Testimony of Stacey J. Kusters

November 2012

1	Q.	Please state your name, business address, and present position with
2		PacifiCorp (the Company).
3	А.	My name is Stacey J. Kusters. My business address is 825 NE Multnomah Street,
4		Suite 600, Portland, Oregon 97232. I am Director of Origination in Commercial
5		and Trading for the Company.
6	Qual	lifications
7	Q.	Briefly describe your education and business experience.
8	А.	I hold a Bachelor of Arts in political science from Simon Fraser University and an
9		Executive Master of Business Administration from the University of British
10		Columbia. I joined PacifiCorp Energy in January 2001 as a manager of
11		origination and assumed my current position as Director of Origination in 2006.
12		From 1996 to 2001, I was employed at Powerex, the marketing arm for BC Hydro
13		in Vancouver, British Columbia, as the marketing manager to develop the
14		Northwest and California regions. I held various positions at Powerex, which
15		included business development, energy trading, and origination. I also
16		represented Powerex on the board of both the California Independent Operator
17		(CAISO) and the California Power Exchange (CalPX) from 1999 through
18		January 1, 2001.
19	Q.	Please explain your responsibilities as Director of Origination.
20	А.	I manage the procurement of new generation resources, contract administration,
21		the market forecast group, the integrated resource plan (IRP), and structuring and
22		pricing. Most relevant to this docket, I am responsible for acquisition of power
23		resources for the Company's east and west balancing authority areas through

1		negotiated power purchase agreements (PPAs) and the acquisition of generation
2		resources, including implementation of requests for proposals (RFPs) consistent
3		with applicable law and guidelines.
4	Purp	ose and Summary of Testimony
5	Q.	What is the purpose of your testimony?
6		The purpose of my testimony is to provide recommendations to the Public Utility
7		Commission of Oregon (Commission) regarding an analytic framework and
8		methodologies to enable Independent Evaluators (IEs) to better compare power
9		supply contracts between the Company and third parties to cost-based utility
10		ownership resources during a Commission approved resource solicitation. My
11		analysis is limited to those items identified by the Commission in Order No. 12-
12		324 as those to be initially addressed in this phase of the docket: 1) wind capacity
13		factor; 2) heat rate degradation; 3) construction cost over- under-runs; and 4)
14		counterparty risk.
15	Q	Please provide a summary of your testimony.
16	A.	My testimony includes: 1) a description of the process used by the Company to
17		ensure a fair evaluation of resource options in the context of the four factors listed
18		above; 2) a discussion of how the risks and benefits associated with each of the
19		four factors may be allocated; and 3) a recommendation for each factor for how
20		IEs may evaluate resource options in future resource solicitations. In general, I
21		conclude that, given the evolving utility and energy industry and the uniqueness
22		of individual resource solicitations and evaluation processes, the adoption of pre-

23 determined quantitative assumptions will not benefit customers nor result in

1		mitigation of a perceived utility self-build bias. Furthermore, I conclude in all
2		cases that a pre-deterministic quantitative tool, while not advisable as a policy
3		matter, is also simply not possible in the context of evaluating unique bid
4		solicitations. However, the adoption of specific methodologies and evaluation
5		approaches could provide a framework under which an IE can fairly evaluate the
6		risks and benefits associated with utility owned resources as compared to
7		contracted resources. As will be explained further below, if the Commission does
8		adopt such quantitative assumptions, the robustness of those assumptions, and
9		whether any potential benefit is actually realized by customers, will depend on
10		whether or not the Commission also adopts corresponding mandatory non-
11		negotiable pro-forma contract terms that allocate risks and benefits in all cases
12		that are tied directly to specific factors associated with each assumption. Non-
13		negotiable pro-forma contract terms would be necessary to ensure that customers
14		receive the risk allocation benefit intended by the Commission in establishing
15		such quantitative assumptions and to prevent a bidder from attempting to shift risk
16		toward customers once they have been selected for the final short list and have
17		made it to the negotiation stage of a resource solicitation.
18	Back	ground
19	Q.	Please explain Guideline 10(d) of the Commission's competitive bidding
20		guidelines (Order No. 06-446).
21	A.	Guideline 10(d) states "if the RFP allows affiliate bidding or includes ownership
22		options, the IE will independently score the utility Benchmark (if any) and all or a
23		sample of the bids to determine whether the selections for the initial and final

	shortlists are reasonable. In addition, the IE will evaluate the unique risks and
	advantages associated with the Benchmark (if used), including the regulatory
	treatment of costs or benefits related to actual construction cost and plant
	operation differing from what was projected in the RFP." This guideline requires
	the IE, whose role is to help ensure that all offers are treated fairly through an
	independent review; to evaluate a utility cost-based ownership option on a
	comparable basis with other offers received.
Q.	Please briefly explain the Company's process used to evaluate resource
	options received in response to a RFP solicitation.
А.	The Company first performs an initial screening which results in an initial
	shortlist. The initial screening consists of both price and non-price scores.
	Bidders on the initial shortlist are then asked to submit best and final offers. The
	Company then evaluates the best and final offers and incorporates the results from
	the best and final offer into the models from the Company's most recently
	acknowledged IRP to produce a final shortlist of resource options.
Q.	If the Company submits a cost-based benchmark resource, is a detailed price
	and non-price score completed?
A.	Yes. The benchmark resource is submitted to the IE prior to the bid due dates set
	forth in the RFP. The IE conducts a review and independently scores the
	benchmark in accordance with Guideline 10(d).
Q.	Briefly, please describe the non-price scores used in initial screening.
А.	While each RFP is unique, the non-price score usually consists of 30 points out of
	100 possible points. The remaining 70 points are the price score. The non-price
	А. Q. Д.

score will typically depend on the unique nature of the resource for which the
 Company is soliciting proposals. Typical criteria include factors such as site
 control, permitting, schedule, fuel supply, guarantees offered, development risk,
 safety and environmental compliance, operational experience, and pro forma
 contract compliance.

6

Q. Who is responsible for the development of the non-price scores?

7 A. The Company is responsible for the development of the non-price scores. 8 However, the Company files the RFPs with the Commission and ultimately 9 requests approval under the Commission's competitive bidding guidelines. 10 Stakeholders and the IE have the opportunity to be involved in the overall 11 development of the RFP by providing comments throughout the development of 12 the RFP. The IE files a report with the Commission on the design of the RFP 13 prior to the Commission approval of the RFP. In addition, the IE evaluates the 14 non-price scores and files an initial shortlist report with the Commission that 15 assesses whether or not the Company applied the non-price scores fairly and in a 16 manner consistent with the approved RFP methodology.

Q. Given this background, what is your understanding of reason for the current
investigation regarding Guideline 10(d).

A. In Order No. 11-011, the Commission expressed a desire to improve the IE's
evaluation of the comparative risks and advantages of utility benchmark resources
in accordance with Guideline 10(d). The Commission indicated that it wanted a
more comprehensive accounting and comparison of all relevant risks, including
consideration of construction risks, operation and performance risks, and

environmental regulatory risks. The Commission requested comment on the 1 2 analytic framework and methodologies that should be used to evaluate and 3 compare utility owned resources to contracting for power with a third party. My 4 testimony provides recommendations regarding this analytic framework as it 5 relates to the four risk factors listed above. 6 **Capacity Factors for Wind-Based Renewable Resources** 7 Please explain the Company's current methodology for evaluating expected 0. 8 capacity factors associated with wind resources, regardless of ownership. 9 A. As described above, the RFP process has two key stages: (1) initial screening, and 10 (2) developing the final shortlist. During the screening stage of the RFP process, 11 all alternatives are evaluated using the expected capacity factor provided by the 12 bidder or associated with the utility's cost-based benchmark. For example, the 13 expected capacity factor associated with a PPA bid or Asset Purchase and Sale 14 Agreement (APSA) bid will be utilized for analytical purposes until the initial 15 shortlist stage of the RFP. After the initial screening is complete and an initial 16 shortlist is developed the Company retains a qualified and independent third-party 17 technical expert (the Capacity Factor Expert) to assess the expected wind resource 18 capacity factor associated with each alternative on the initial short list, including 19 the cost-based utility ownership benchmark resource. Due to the technical 20 expertise required, the Capacity Factor Expert would not typically be the IE for 21 the overall RFP, however; the IE reviews and evaluates the reports prepared by the Capacity Factor Expert. 22

1	Q.	How does the Company ensure the Capacity Factor Expert is objective in its
2		evaluation?
3	А.	If a cost-based utility benchmark resource is one of the resource alternatives, the
4		Capacity Factor Expert is not allowed to be the same technical expert the
5		Company relied on in preparing its benchmark submittal to the IE. Likewise, the
6		Capacity Factor Expert is required to disclose if it has any conflicts associated
7		with any of the bidders or project bids on the initial shortlist.
8	Q.	What information does the Capacity Factor Expert provide to the Company
9		for all wind resources?
10	А.	The Capacity Factor Expert provides the Company a report consisting of a
11		capacity factor estimate for each resource on the initial shortlist. The Company
12		then uses the capacity factor estimates for its final analysis of the initial
13		shortlisted alternatives to determine the final shortlist.
14	Q.	Has the Company always used a Capacity Factor Expert to assess the
15		capacity factors in request for proposals?
16	A.	No. The Company first retained a Capacity Factor Expert for the purpose of
17		evaluating third party resources and the cost-based utility option resource in its
18		2009R RFP. A Capacity Factor Expert was utilized to ensure the capacity factor
19		in each alternative was evaluated fairly, regardless of ownership, during the
20		shortlist stage of a solicitation. The Capacity Factor Expert was instituted with
21		the 2009R RFP because that represented the first time the Company provided a
22		cost-based utility owned wind resource alternative for consideration during a RFP
23		process.

Q. What is the capacity factor metric the Company currently uses during the
 RFP process to acquire a weather-dependent variable energy resource like a
 wind resource?

4 The metric is based on the estimated long-term annual capacity factor validated A. 5 by the Capacity Factor Expert on an annual 50 percent probability (P50) basis; meaning there is a reasonable expectation that there is a fifty percent probability 6 7 that the actual calendar year production in megawatt-hours (MWh) will be higher 8 or lower than the long term predicted MWh production during any given calendar 9 year. The use of a P50 estimate is commonly applied in the wind industry. The 10 P50 estimate represents the net capacity factor associated with the project and is 11 used to calculate annual MWh production that is then used for analysis purposes. 12 О. Does the Company recommend that future renewable RFPs use a Capacity 13 Factor Expert once the initial shortlist has been prepared to ensure a fair 14 and balanced outcome between a utility benchmark resource and other 15 proposals? 16 Yes. The Company's experience has been that employing a Capacity Factor Α. 17 Expert is an objectively reasonable method to compare alternatives, regardless of 18 ownership. 19 If a third party owned wind resource does not perform as predicted, what is **Q**. 20 the effect upon customers?

A. The effect upon customers is that they may not get the benefit of the bargain. The
Company has attempted to negotiate a capacity factor guarantee (i.e. a Wind
Guarantee) instead of a mechanical availability guarantee from wind resource

1		PPA counterparties. However, citing risk associated with tax laws, wind resource
2		PPA counterparties have been unwilling or unable to provide such a guarantee. In
3		contracts negotiated to date, if the wind resource performs worse than expected
4		during a time period, the Company is only expected to purchase the MWh
5		produced, and it may need to purchase replacement power in the market. If the
6		wind resource performs better than expected during a time period, the Company is
7		required to purchase the excess output of the PPA wind facility at the contract
8		price which may be higher or lower than the market price. In this way, both the
9		utility and PPA counterparty are responsible for the risks associated with over or
10		under performance during a time period and therefore both are appropriately
11		incented to accurately forecast production. The effect upon customers is
12		determined by then-applicable regulatory rulings or rate making processes.
12 13	Q.	determined by then-applicable regulatory rulings or rate making processes. If a utility owned wind resource does not perform as predicted, what is the
	Q.	
13	Q. A.	If a utility owned wind resource does not perform as predicted, what is the
13 14		If a utility owned wind resource does not perform as predicted, what is the effect upon customers?
13 14 15		If a utility owned wind resource does not perform as predicted, what is the effect upon customers? The effect is similar to that associated with a third party owned wind resource. If
13 14 15 16		If a utility owned wind resource does not perform as predicted, what is the effect upon customers? The effect is similar to that associated with a third party owned wind resource. If the wind resource performs worse than expected during a time period, the
13 14 15 16 17		If a utility owned wind resource does not perform as predicted, what is the effect upon customers? The effect is similar to that associated with a third party owned wind resource. If the wind resource performs worse than expected during a time period, the Company only receives the energy produced, and it may need to purchase
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 13 14 15 16 17 18 19 20 		If a utility owned wind resource does not perform as predicted, what is the effect upon customers? The effect is similar to that associated with a third party owned wind resource. If the wind resource performs worse than expected during a time period, the Company only receives the energy produced, and it may need to purchase replacement power on the market. If the wind resource performs better than expected during a time period, the Company receives more energy than expected and as well as any associated benefits (e.g., tax benefits). Therefore, the

1	Q	What does the Company recommend to the Commission with respect to
2		analyzing wind resource capacity factors during an RFP process?
3	А.	The Company recommends a continuation of the process described above,
4		including the employment of a Capacity Factor Expert to evaluate all resource
5		alternatives on the initial shortlist, regardless of ownership. The Company makes
6		this recommendation for a number of reasons: 1) it ensures that wind capacity
7		forecasts for third party owned wind resources and cost-based utility benchmark
8		resources are evaluated on an objective, consistent and comparable basis; 2) it
9		allows flexibility to continue to account for evolutions of the science of
10		forecasting the production of weather-dependent variable resources; and 3) it
11		maintains appropriate incentives for the utility and the third party that owns a
12		wind resource, to the extent feasible, to produce the most accurate wind capacity
13		factor forecasts as possible when bidding into a RFP and during the operational
14		stage.
15	Q.	Is it possible to incorporate pre-determined assumptions that will be utilized
16		in all future RFP analyses to quantify costs, risks and benefits of third party
17		owned wind resources versus utility benchmark resources?
18	A.	No. The associated costs and risks associated with a third party owned wind
19		resource versus a utility benchmark resource cannot be predetermined
20		quantitatively in the context of an RFP. The appropriate regulatory treatment of
21		an RFP outcome and selected resources should be handled as part of ratemaking
22		proceedings. It is not possible to accurately quantify the costs and risks at the
23		RFP stage because the regulatory treatment of the cost-based utility benchmark is

	cost-based and subject to the regulatory compact whereas the costs and risks of a
	contract are subject to the contract terms and conditions. While the Company is
	supportive of improvements to the evaluation process to ensure that it is as fair as
	possible, as discussed above, it firmly opposes any RFP evaluation process that
	would involve the predetermined quantification of risks and benefits of any
	resource. The Company recommends however, including application of
	methodologies that ensure a fair and reasonable evaluation process between third
	party bidders and cost-based utility ownership. The appropriate forum for
	evaluating actual costs and the prudency of the Company's resource decisions is a
	ratemaking proceeding.
Heat	Rate Degradation
Q.	Please explain the importance of heat rate as part of the Company's current
	methodology to evaluate thermal resources.
А.	The heat rate is the convention used to represent the overall thermal efficiency of
	a resource. Fuel costs, especially for a natural gas-fired resource, are one of the
	major components of the total cost of electricity; the fuel cost of the total energy
	cost is directly proportional to the heat rate. Therefore it is important to correctly
	identify the expected heat rate of a thermal resource.
Q.	Please explain where the heat rate information comes from that the
	Company uses to evaluate thermal resources, regardless of ownership.
А.	For the cost based utility benchmark resource, and the asset purchase and sale
	agreement (APSA), the Company utilizes the "new and clean" heat rate
	information as provided by the engineer-procure-construct (EPC) contractor or
	Q. A. Q.

1		the APSA bidder. These values are based on the performance information
2		provided by the Original Equipment Manufacturer (OEM) as adjusted for site-
3		specific characteristics and the third party's design. The heat rates are converted
4		to a long term annual schedule of performance through the application of the heat
5		rate degradation curve, which is supplied by the OEM. To ensure a common
6		approach is used, the same degradation values are applied for proposals that use
7		the same OEM equipment. For third party tolling services agreement (TSA)
8		proposals the Company utilizes the heat rate information that is submitted in the
9		bidder's proposal.
10	Q.	Is the OEM the best source for heat rate degradation data?
11	A.	Yes. The OEM has the most information about the expected performance over
12		time of its equipment. However, actual plant performance is dependent on the
13		maintenance of the plant. The Company enters into long-term maintenance
15		
14		contracts (LTP) for the major OEM equipment to ensure the equipment is
14		contracts (LTP) for the major OEM equipment to ensure the equipment is
14 15		contracts (LTP) for the major OEM equipment to ensure the equipment is maintained and overhauled according to the OEM's recommendations. The heat
14 15 16		contracts (LTP) for the major OEM equipment to ensure the equipment is maintained and overhauled according to the OEM's recommendations. The heat rate degradation schedule is prepared based on the OEM's recommended
14 15 16 17		contracts (LTP) for the major OEM equipment to ensure the equipment is maintained and overhauled according to the OEM's recommendations. The heat rate degradation schedule is prepared based on the OEM's recommended maintenance schedule and used in the evaluation process. This may or may not
14 15 16 17 18		contracts (LTP) for the major OEM equipment to ensure the equipment is maintained and overhauled according to the OEM's recommendations. The heat rate degradation schedule is prepared based on the OEM's recommended maintenance schedule and used in the evaluation process. This may or may not be accurate for a third party bidder as it may in fact do this work itself and choose
14 15 16 17 18 19		contracts (LTP) for the major OEM equipment to ensure the equipment is maintained and overhauled according to the OEM's recommendations. The heat rate degradation schedule is prepared based on the OEM's recommended maintenance schedule and used in the evaluation process. This may or may not be accurate for a third party bidder as it may in fact do this work itself and choose not to have an LTP contract compliant with the OEM's recommended overhaul

customers, third parties consistent with OEM maintenance guidelines could pose

Direct Testimony of Stacey J. Kusters

23

1		increased risks to customers.
2	Q.	Does the IE assess the reasonableness of heat rate and degradation values
3		used to evaluate resource proposals as it pertains to a Company owned
4		benchmark resource or the third party bidder?
5	А.	Yes. In general the IE assesses the reasonableness of the heat rate and
6		degradation values used to evaluate the resource proposals. However, it would
7		also depend on how the third party bidder proposal is structured and if the third
8		party bidder intends to operate and maintain in the plant equipment. Without
9		this information, it is difficult to determine a third party bidder's maintenance
10		assumptions and therefore whether or not they are reasonable.
11	Q.	Are customers typically protected from impaired performance versus the
12		guaranteed heat rate provided in EPC and Asset Purchase and Sale (APSA)
13		contracts?
14	А.	Yes. The Company negotiates liquidated damages for impaired performance (i.e.
15		higher heat rates than guaranteed) under an EPC or an APSA in the event the
16		resource does not meet its guaranteed heat rate value at the completion of the
17		project's commissioning period. For example, in the Company's most recent
18		EPC contract for the Lake Side 2 resource, the EPC contains provisions to recover
19		liquidated damages in the event the heat rate is greater than the guaranteed
20		contract heat rate value.
21	Q.	Can heat rates of utility owned resources improve over time?
22	А.	Yes. The OEMs periodically make available mechanical and controls upgrades
23		that can result in improved heat rates if purchased and installed. The Company

1		has implemented these types of upgrades on its natural gas-fired combustion
2		turbine resources. These prudent and cost-effective opportunities to upgrade
3		generation assets are taken by the Company to benefit customers. These benefits
4		are not factored into the economical analysis of either the Company utility
5		benchmark or third party EPC or APSA proposals.
6	Q.	Should one expect reported heat rates to be higher than full-load heat rates,
7		even after a degradation factor is applied?
8	А.	Yes. Typically. thermal generation resources are most efficient when they
9		operate at full-load. However, reported heat rates are often higher than full-load
10		heat rates. There are a number of factors that contribute to reported heat rate
11		values being higher than the full load heat rates, including operation at reduced
12		load, variations in ambient conditions and the effects of startups and shut downs.
13		Many natural gas-fired facilities regularly operate at reduced load, which is less
14		efficient, in order to hold reserves for system reliability and to integrate
15		intermittent generation resources. In addition, fuel consumed during startups and
16		shutdowns also contributes to reported heat rates being higher than the full load
17		heat rates.
18	Q.	What is the effect on customers if reported heat rates are higher than full
19		load heat rates?
20	A.	Customers are not affected. To illustrate, suppose the Company were
21		considering purchasing a thermal unit versus entering into a tolling services
22		agreement (TSA), which is a form of PPA, with a "guaranteed" heat rate, and
23		the thermal unit's modeled full-load heat rate is equal to the TSA guaranteed

1		heat rate. Inasmuch as the thermal unit would also be used to provide reserves,
2		integrate wind, or track load, its realized heat rate will be higher than that of the
3		TSA contract. However if the TSA is selected, the other requirements (reserve
4		holding, etc.) do not disappear. The Company may need to operate other units
5		less efficiently to meet these requirements, causing a similar economic impact
6		to customers. However, ultimately the effect upon customers is determined by
7		then-applicable regulatory rulings or rate-making processes.
8	Q.	Does a "guaranteed" heat rate fully protect customers against performance
9		fluctuations with respect to energy delivered under a TSA?
10	А.	No. A guaranteed heat rate is a contractual concept in which regardless of the
11		actual operational efficiency of the resource used to supply energy under the
12		TSA, the price paid for that energy would be calculated based upon a the
13		contract heat rate. Therefore the seller of the TSA is encouraged to ensure plant
14		performance and is harmed in the case of poor plant performance. If
15		performance is poor enough, the seller of the TSA may choose or be forced to
16		default under the TSA, leaving the Company to either step into the poor
17		performing project, or otherwise replace the power with market purchases (if
18		available). For this reason, the value of a guaranteed heat rate is limited by the
19		creditworthiness of the TSA contracting party and its guarantor. Often, these
20		guarantees are capped which would minimize the overall harm to customers in
21		the case of nonperformance.
22	Q.	Is there an impact of a "guaranteed" heat rate to the seller of the TSA?

A. Yes. The Company would expect any seller of a TSA with a guaranteed heat

rate to embed a risk premium into the price of the TSA in the form of a heat rate
 margin to address degradation. Therefore any benefit of a "guaranteed" heat
 rate the customer realizes is also paid for by customers.

Q. Does the Company currently address the fact that reserve requirements will
need to be met regardless of the asset or product type chosen as a result of a
resource solicitation?

7 Yes. In the initial screening process the costs and benefits of reserves are not Α. 8 captured. In the final shortlist, the IRP models capture the costs and benefits of 9 reserves in the Company's planning and risk models when evaluating the performance characteristics of a utility asset versus the characteristics and 10 performance of third party asset under a TSA. The Company assets are modeled 11 12 with the heat rate degradation curves and part load performance curves. The costs associated with heat rate degradation are attributed to the Company assets as well 13 14 as any benefits associated with holding operating reserves. The benefits, if any, 15 of a TSA guaranteed heat rate are attributed to a TSA proposal, however, no 16 additional benefits associated with a contribution to the operating reserve 17 requirements of the system is attributed to a TSA proposal. 18 What are the Company's recommendation for an analytical framework that **Q**. 19 may be applied by the IE to compare risks associated with heat rate 20 degradation of utility benchmark resources and third party proposals?

A. As discussed above, a number of factors contribute to the appropriate allocation
 of risks and benefits associated with heat rate degradation. The Company
 proposes that the best method of ensuring parity among proposals is to apply the

1 same or a similar methodology for estimating heat rate degradation in order to 2 ensure that both the utility benchmark resource and the third party proposals are 3 using reasonable assumptions. The current process of using OEM and proposal 4 data could be established at the outset of the RFP as the method to be reviewed by 5 the IE during the evaluation process. 6 Q. Is it possible to incorporate pre-determined assumptions that would be 7 utilized in all future RFP analyses to quantify costs, risks and benefits of 8 third party owned resources versus utility benchmark resources? 9 Α. No. The costs and risks associated with a third party owned resource versus a 10 utility benchmark resource cannot be predetermined quantitatively in the context 11 of an RFP. The appropriate regulatory treatment of an RFP outcome and selected 12 resources should be handled as part of ratemaking proceedings. It is not possible 13 to accurately quantify the differing costs and risks at the RFP stage because the 14 regulatory treatment of the utility benchmark resource is cost-based while the cost 15 of a performance-based contract is the contract price. While the Company is 16 supportive of improvements to the evaluation process to ensure that it is as fair as 17 possible, as discussed above, it firmly opposes any RFP evaluation process that 18 would involve the up-front *quantification* of risks and benefits of any resource. 19 The appropriate forum for evaluating actual costs and the prudency of the 20 Company's resource decisions is a ratemaking proceeding.

1	Construction Cost Over- and Under-Runs	
2	Q.	Please explain how the Company currently addresses cost over and under-
3		runs as part of its resource solicitation process.
4	Á.	For third party proposals, the Company requests fixed-price bids. For a utility
5		cost-based benchmark resource, the Company's current practice is to obtain fixed
6		price proposals from EPC contractors, with fixed performance, scope and
7	a.	schedule. Cost contingency is included in the utility cost-based benchmark
8		resource to account for potential EPC change orders, change in law provisions,
9		required scope modifications and other unforeseen project costs. Contingency is
10		included in the evaluation process, as more fully described below.
11	Q.	How do utility benchmark resources differ from third party proposals with
12		respect to construction costs?
13	А.	By and large, the Company procures the design and construction of a new
14		resource the same way a third party does, namely through qualified equipment
15		suppliers and contractors.
16	Q.	Has the Company always receive fixed price bids?
17	А.	No. During the 2007-2008 time period, market conditions were such that
18		materials, resources and equipment escalated at very high rates and many
19		suppliers were only willing or able to provide firm prices with very limited
20		validity periods. At the time, both the third party proposals and the utility
21		benchmark resource required pricing from contractors for new resources whether
22		in the form of a PPA, TSA, APSA or an EPC for the utility benchmark resource.
23		Market participants at the time would not provide firm pricing that they were

1		willing to hold for several months during a period of high cost uncertainty for
2		materials, resources and equipment. Their proposals were not based on
3		underlying firm fixed prices and therefore bidders indicated to the Company that
4		the cost to receive a fixed price bid would require large premiums to account for a
5		price risk to hold a bid firm for several months. To address this issue, some
6		bidders provided proposals that had a portion of their bids indexed and a portion
7		fixed. Although the RFP process allowed for a portion of the bids to be indexed
8		to such indices as the PPI labor index, PPI metals index, CPI inflation index, etc.,
9		EPC contractors indicated that these indices did not adequately correlate to their
10		actual cost risk. Since that period, because there is now less price volatility and
11		uncertainty under current market conditions with respect to materials, resources,
12		and equipment, firm fixed prices can currently be secured from market
13		participants who are typically willing to hold pricing for several months without
14		extraordinary price premiums.
15	Q.	Is there flexibility within an RFP process to allow for non-fixed price
16		proposals?
17	А.	Yes. Although in the Company's EPC contracting experience this is not a
18		desirable method, due to the increased risk to customers, the Company has
19		provided this option in past RFPs for bidders to provide a portion of their
20		proposed EPC prices to float and be re-priced at the earlier of the execution of the
21		EPC contract but no later than two years from the execution of the contract with
22		the Company. In prior RFPs, when the EPC market was significantly more
23		volatile than it is today, the RFP process allowed bidders to fix the floating price

1		portion of the EPC contract at a later date; that was the later of the execution of
2		the EPC contract for new construction (APSA, PPA or TSA) but no later than two
3		years from the execution of the APSA, PPA or TSA contract.
4	Q.	Did the Company account for indexed cost risk being passed on to the
5		Customer?
6	А.	Yes. For a bid with any portion that is not provided as a fixed price, the Company
7		applied an incremental risk adder that was calculated for each bid and the
8		Company benchmark.
9	Q.	How does the Company minimize cost uncertainty in its bid solicitation
10		process?
11	A.	In general terms, the Company requires bidders to provide fixed pricing for
12		fixed scope, performance and schedule with liquidated damages for non-
13		performance. Risk adjustments, if any, are imputed to the bidders or utility
14		benchmark resource based on the risk associated with the unfixed capital
15		portion in the proposals or the utility benchmark resource. These values are
16		reviewed by the IE.
17	Q.	How does the Company minimize cost uncertainty with respect to a utility
18		benchmark or third party proposal?
19	А.	The Company requires that bidders submitting third party proposals and utility
20		cost-based benchmark EPC contracts provide fixed pricing for fixed scope,
21		performance and schedule with liquidated damages for non-performance. For
22		third party proposals or the utility cost-based benchmark resource, contingency
23		reserves are applied to the proposal price consistent with industry practices.

Risk adjustments, if any, are imputed and reviewed associated with any unfixed
 portion of the utility benchmark resource or third party proposals. These values
 are reviewed by the IE.

4 Q. How does the Company ensure that customers are protected from
5 imprudent cost overruns from change orders that may occur with EPC
6 contracts associated with a utility benchmark resource?

7 Contingency reserves are applied to EPC as described above. EPC contractual A. 8 terms are applied to minimize scope or project related events that could result in 9 cost change orders. Additional costs or benefits not initially contemplated are 10 subject to a prudence review before the Company may include those costs in 11 customer's rates. It is proper that unforeseen but prudently incurred costs are 12 recoverable, as they are incurred for the benefit of customers. However costs 13 determined to be imprudently incurred should not be and are not recoverable. In 14 this way, the current regulatory framework encourages utilities to be prudent with 15 respect to the minimization of cost overruns and also to protect its customers from 16 such cost overruns that are not in the Company's ability to control.

17 Q. Is there a potential for customers to benefit from cost under-runs that may
18 occur with regard to EPC and APSA construction?

A. Yes. As reviewed by the IE, the Company also budgets reasonable contingency
reserves in the total cost that is submitted to the Commission. Only the actual
costs, plus any contingency reserves, are ultimately sought to be recovered from
customers.

1

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Q.

with a third party developed resource?

Who is responsible for the risks associated with cost overruns associated

3 In general, the Company seeks to protect its customers from cost overruns A. 4 associated with a third party developer by ensuring that the third party developer 5 is responsible for any cost overruns. If the Company is not successful in ensuring 6 this during contract negotiations, customers may remain at risk for any cost 7 overruns if the third party is unwilling to cap its costs or not pass through change 8 orders. However, because the utility does not have control over the timing and 9 schedule of the third party developed project, it does not have the same ability to 10 ensure that controls are in place to address those issues that can result in cost 11 overruns. Thus, unless the third party agrees to be responsible for all cost 12 overruns, both the Company and its customers may be put at an unreasonable 13 disadvantage because the Company is responsible for the cost overruns and yet 14 has no control over those costs because they are not developing, engineering or 15 constructing the resources. Furthermore, even if the third party agrees to bear the 16 risk associated with cost overruns, it may not perform and customers may still be 17 at risk if the third party defaults under the contract.

19

Q.

18

TSA structures?

A. No. In the event there is a construction cost under-run for a third party PPA or
TSA, any cost reductions would accrue to the owner of the project, not to
customers.

Is it likely that customers will benefit from cost under-runs under PPA and

1 Q. What are the Company's recommendation for an analytical framework that 2 may be applied by the IE to compare risks associated with cost over- and 3 under-runs for utility benchmark resources and third party developers? 4 A. The Company recommends that the risk adjusted methodology, described above, 5 be applied (and reviewed by the IE) to compare the respective risks. This ensures 6 that the utility benchmark resource is risk adjusted based on the unfixed capital 7 costs from a cost over-run and a cost under-run and third party proposals are 8 evaluated on a cost overrun basis only, because if the costs are below the contract 9 prices the savings are not realized by the Company. This is appropriate because 10 third party resource cost under-runs are not returned to customers. It is very 11 difficult to compare the risks and benefits associated with cost over and under-12 runs between utility benchmark resources and third party bidders. This is because 13 the cost recovery mechanism for each is fundamentally different – in the case of 14 the utility benchmark, cost equals cost, in the case of the third party bidder, the 15 cost equals a contract amount. Contracts are subject to contract law and third 16 party resource developers are not subject to regulatory oversight in the same way 17 as a public utility with an obligation to serve. This can only be changed with a 18 change to the regulatory process – this fundamental difference cannot and should 19 not be overlooked when looking for improvements to the bid evaluation process.

1	Q.	Is it possible to incorporate pre-determined assumptions that will be utilized
2		in all future RFP analyses to quantify costs, risks and benefits associated
3		with cost over- and under-runs for third party bidders and utility
4		benchmark resources?
5	A.	No. The costs and risks associated with a third party bidder versus a cost-based
6		utility benchmark resource cannot be predetermined quantitatively in the context
7		of an RFP. The appropriate regulatory treatment of an RFP outcome and selected
8		resources should be handled as part of rate-case proceedings. It is not possible to
9		definitively quantify the costs and risks at the RFP stage because the regulatory
10		treatment of the utility benchmark resource is cost-based while the cost of a
11		performance-based contract is the contract price. While the Company is
12		supportive of improvements to the evaluation process to ensure that it is as fair as
13		possible, as discussed above, it firmly opposes any RFP evaluation process that
14		would involve the up-front quantification of risks and benefits of any resource.
15		The appropriate forum for evaluating actual costs and the prudency of the
16		Company's resource decisions is a ratemaking proceeding.
17	Coun	iterparty Risk
18	Q.	Does the Company consider counterparty credit risk to be a significant item
19		to be addressed in its competitive RFP process?
20	А.	Yes. The Company's obligation is to procure the least-cost resource, as adjusted
21		for risk. Counterparty credit risk is a risk to customers that must be taken into
22		account as part of the resource selection process. The creditworthiness of the
23		counterparty, as well as the entity providing adequate credit assurances on the

1		counterparty's behalf, if applicable, are important because the selected
2		counterparty's ability to perform its obligations under the contract can impact the
3		overall cost for the customer. The Company's IRP models do not capture the risk
4		associated with the counterparty credit requirements or default risk. The
5		Company performs a credit evaluation on the counterparty (and the entity
6		providing credit assurances on its behalf, as applicable) based on the
7		counterparty's audited financial statements (as well as those of the entity
8		providing credit assurances on the counterparty's behalf, as applicable), and
9		assigns an internal credit rating to the counterparty (and the entity providing credit
10		assurances on its behalf, as applicable), utilizing a proprietary credit scoring
11		model developed in conjunction with a third party, if no external credit ratings
10		
12		exist.
12	Q.	exist. Does the Company require credit assurances of all bidders when the bidders
	Q.	
13	Q. A.	Does the Company require credit assurances of all bidders when the bidders
13 14		Does the Company require credit assurances of all bidders when the bidders submit their initial proposals?
13 14 15		Does the Company require credit assurances of all bidders when the bidders submit their initial proposals? No. Bidders have argued that providing credit assurances at the time of bid
13 14 15 16		Does the Company require credit assurances of all bidders when the bidders submit their initial proposals? No. Bidders have argued that providing credit assurances at the time of bid submission is costly and overly burdensome. The Company understands that
13 14 15 16 17		Does the Company require credit assurances of all bidders when the bidders submit their initial proposals? No. Bidders have argued that providing credit assurances at the time of bid submission is costly and overly burdensome. The Company understands that these costs may burden bidders in the early stages of the process, however the
 13 14 15 16 17 18 		Does the Company require credit assurances of all bidders when the bidders submit their initial proposals? No. Bidders have argued that providing credit assurances at the time of bid submission is costly and overly burdensome. The Company understands that these costs may burden bidders in the early stages of the process, however the Company does need to protect customers to ensure a resource is selected from a
 13 14 15 16 17 18 19 		Does the Company require credit assurances of all bidders when the bidders submit their initial proposals? No. Bidders have argued that providing credit assurances at the time of bid submission is costly and overly burdensome. The Company understands that these costs may burden bidders in the early stages of the process, however the Company does need to protect customers to ensure a resource is selected from a creditworthy counterparty and requires the commitment to provide credit
 13 14 15 16 17 18 19 20 	A.	Does the Company require credit assurances of all bidders when the bidders submit their initial proposals? No. Bidders have argued that providing credit assurances at the time of bid submission is costly and overly burdensome. The Company understands that these costs may burden bidders in the early stages of the process, however the Company does need to protect customers to ensure a resource is selected from a creditworthy counterparty and requires the commitment to provide credit assurances (if applicable) from those bidders selected for the final shortlist.

1		proposal until the time a bid is selected is approximately twelve months. Credit
2		requirements are included in the RFP solicitation, and the evaluation of the credit
3		quality of the bidder is completed at the time a bidder is selected for the final
4		shortlist. During the period of time from the initial bid submission to the final
5		short listing, a bidder's creditworthiness could deteriorate, which is not presently
6		captured in the RFP evaluation process. A reasonable approach would be to use
7		credit as a non-price score prior to the final shortlist determination. One method
8		to establish a non-price score would be to determine, utilizing the bidder's credit
9		rating (either a published rating or an internal credit rating if the bidder is not
10		externally rated), the probability of a default between the time of the final
11		shortlist and the on line date of the proposed resource. Moody's Investor
12		Services, a public ratings agency, assigns default probabilities based on its ratings
13		and the time horizon considered. These default probabilities could be utilized to
14		make this determination for those counterparties that are rated by Moody's. As an
15		example, the default probabilities from Moody's (as of 2011, which is the most
16		recent data available) are attached as Confidential Exhibit PAC/101. Another
17		method that could be employed to establish a non-price score would be to
18		determine, utilizing the bidder's credit rating (either a published rating or an
19		internal credit rating if the bidder is not externally rated), the inferred probability
20		of default from corporate bond yield spreads over United States Treasury yields.
21	Q.	Are all bidders currently rated by either Moody's or Standard and Poor's
22		when they submit proposals?
23	Α.	No. The Company has historically seen a wide range in the creditworthiness of

A. No. The Company has historically seen a wide range in the creditworthiness of

1		bidders. At one end of the spectrum are large, established, highly creditworthy
2		EPC entities with published ratings from the rating agencies. At the other end are
3		small, limited liability companies that do not have published ratings from the
4		rating agencies and are not creditworthy, and who may eventually use the
5		Company's credit as a means to finance the PPA or TSA that the Company enters
6		into.
7.	Q.	Can the Company determine the probability of default in assessing a
8	·	counterparty risk?
9	A.	Yes. For example, using the information from Moody's in the Confidential
10		Exhibit PAC/101 referenced previously, the Company could assign a probability
11		of default based on the counterparty's credit rating and the period of time from the
12		execution of the TSA or PPA to the commercial operation date (tenor). This
13		would indicate the likelihood of defaulting during that period of time.
14	Q.	How would default probabilities be used to differentiate bids?
15	А.	As indicated previously, the Company performs a credit evaluation on the
16		bidder/counterparty (and the entity providing credit assurances on its behalf, as
17		applicable), and will assign an internal credit rating (for the counterparty and the
18		entity providing credit assurances on its behalf, as applicable), utilizing external
19		credit ratings or a proprietary credit scoring model developed in conjunction with
20		a third party, if no external credit ratings exist. By definition, a credit rating
21		implies a probability of default: the higher the credit rating, the lower the
22		probability of default; the lower the credit rating, the higher the probability of
23		default. The Company may also require the bidder provide credit assurances to

1		support its performance under the contract, depending upon its credit rating and
2		the project's time horizon. For those counterparties that are rated by Moody's,
3		utilizing the credit rating (with its corresponding probability of default), for each
4		bid, the Company could multiply the probability of default for the relevant tenor
5		(e.g., four years), by the incremental cost to the customer (above the amount of
6		any credit assurances posted), should default occur. If default is driven by cost
7		overruns in a given RFP project, then those costs could be paid by the Company
8		(if project completion remained prudent, and after utilizing any posted credit
9		assurances from the counterparty) and ultimately be borne by the customer. This
10		expected cost of default could then be added to each bid's cost.
11	Q.	Does the Company require credit assurances from bidders on the final
12		shortlist?
13	A.	No. The Company requires the commitment to provide credit assurances (if
14		applicable) from those bidders selected for the final shortlist. Specifically, all
15		bidders are required to provide acceptable commitment letters to provide credit
16		assurances (if applicable), within twenty business days of being notified that they
17		have been selected for the final shortlist.
18	Q.	Does the Company require credit assurances in the PPA and TSA in addition
19		to a letter of credit, and/or a parental guarantee?
20	A.	Yes. The Company may require additional terms and conditions in the contract
21		that pertain to other forms of credit protection. However, in order to ensure these
22		terms are included in the final contract, the Company would request that these
23		terms be approved as part of the approval of the RFP and considered non-

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negotiable, so that when bidders submit their proposals they would not be allowed to change these terms.

3 Q. Does counterparty credit risk change over time?

4 Yes. As discussed above, the average timeframe for the RFP process is eighteen A. 5 months, during which time a counterparty's financial standings may improve or 6 worsen. Additionally, when a third party enters into a PPA or TSA with the 7 Company, the third party will often establish a special purpose entity which relies 8 on the PPA or the TSA and the Company's credit to finance the project. 9 Furthermore, some sellers engage in "portfolio financing," in which a number of 10 projects support a single bank loan. If the PPA or TSA does not specify a 11 maximum debt-to-equity ratio in the contract, the seller could highly leverage the 12 project, using the project as collateral to finance other projects, either initially or 13 subsequently. Over time the seller may not be able to continue to profitably 14 operate the other projects, and customers may be deprived of a well-functioning 15 resource in order to satisfy deficiencies in a project seller's affiliated projects that 16 do not serve the Company or its customers. The seller could also deplete the 17 equity in the project serving the Company in order to collateralize other projects. 18 If the seller defaults, the Company may be required to step into the contract and 19 the seller's debt, which may be potentially entangled with the cross-collateralized 20 projects. If the Company does not have alternative capacity choices at the point 21 in time necessary to step into the project, the cost to the Company could be more 22 than what the Company would pay under the PPA or TSA. This risk could be 23 addressed with a non-negotiable contract term that requires the seller to maintain

1		a specific debt-to-equity ratio in the project, so that in the event the Company is
2		required to step into the contract, it steps into the asset with a certain level of
3		equity. This could also be addressed with a non-negotiable term in the PPA to
4		prohibit cross-collateralization. This would provide the Company with a
5		subordinated security interest in the project.
6	Q.	What is the Company's recommendation for an analytical framework that
7		may be applied by the IE to compare risks associated with counterparty risk
8		for utility benchmark resources and third party bidders?
9		The Company proposes the following evaluation framework. First, the Company
10		would request that the Commission approve a template APSA, PPA, and TSA
11		with non-negotiable credit terms as part of the RFP approval process. Second, in
12		the initial evaluation, the non-price score would include scoring criteria for credit
13		and the determination of the probability of default.
14	Q.	Is it possible to incorporate an analysis into the RFP that will quantify costs,
15		risks and benefits associated with counterparty risk?
16	A.	No. The associated costs and risks associated with a third party bidder cannot be
17		quantified in the context of an RFP. While the Company is supportive of
18		improvements to the evaluation process to ensure that it is as fair as possible, as
19		discussed above, it firmly opposes any RFP evaluation process that would involve
20		the up-front quantification of risks and benefits of any resource. The Company
21		would however, recommend that the third party bidder's credit evaluation be
22		conducted at the initial shortlist phase from a non-price scoring perspective and, a
23		credit rating be determined, along with its inherent probability of a default both at

1 the time of the initial shortlist and as well as at the time the Company determines 2 the final shortlist. This should be done and validated by the IE in order to ensure 3 the credit rating and probability of the risk of default is continuously taken into 4 account while evaluating the resources. 5 **Further Recommendations** 6 0. Other than the foregoing, does the Company have any other proposals or 7 recommendations regarding improvements to the resource evaluation 8 process? 9 Yes. As noted in a number of places throughout my testimony, there are a Α. 10 number of instances whereby the institution of non-negotiable contract terms may 11 serve to level the playing field between third party bidders and the cost based 12 utility benchmark resources. In doing so, the Commission would essentially be 13 incorporating some regulatory certainty into what is currently a completely 14 negotiated process. Any risks and benefits associated with a third party resource 15 versus a utility benchmark resource are dependent on the terms of the four corners 16 of the contract governing the relationship between the utility and the third party. 17 If the Commission assumes there is a benefit to customers associated with a third 18 party project, that benefit will only be realized if the utility is able to negotiate 19 that benefit in the contract. While it is true that third parties are asked to carry the 20 risk of cost overruns, they typically do not do so willingly or voluntarily – to the 21 extent they are able to negotiate away some of that risk, they are incented to do so. If the Commission adopts non-negotiable contract terms, it will eliminate the 22

- 1 current uncertainty regarding the ability of a utility to negotiate benefits to
- 2 customers in a contract with a third party.
- 3 Q. Does this conclude your testimony?
- 4 A. Yes.

CONFIDENTIAL

Docket No. UM-1182 Exhibit PAC/101 Witness: Stacey J. Kusters

BEFORE THE PUBLIC UTILITY COMMISSION OF THE STATE OF OREGON

PACIFICORP

CONFIDENTIAL Exhibit Accompanying Direct Testimony of Stacey J. Kusters

November 2012

This Exhibit is Confidential and Provided Under Separate Cover