BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

In the Matter of the Application)	
of PacifiCorp for Approval)	Docket No. 03-035-14
of an IRP Based Avoided Cost)	
Methodology for QF Projects)	Direct Testimony of
Larger than 1 Megawatt)	Mahendra B. Shah
)	

May 2005

- 1 Q. Please state your name, business address and present position with
- 2 **PacifiCorp.**
- 3 A. My name is Mahendra B. Shah. My business address is 825 N.E.
- 4 Multnomah, Suite 1900, Portland, Oregon 97232. I am the Director of
- 5 Treasury at PacifiCorp.

Qualifications

- 7 Q. Please briefly describe your education and business experience.
- 8 A. I received a Ph.D. degree in Finance from University of Houston in 1979.
- In 1984, I received the CFA Charter Designation. Since November 2004,
- I have been employed at PacifiCorp. Previously, I was employed for 24
- years at Portland General Electric Company. My business experience has
- included financing of Utility electric operations and non-utility activities,
- investment management, investor relations and management of credit
- exposure. I have testified before the Oregon Commission on matters
- related to financing applications, project financing and leveraged lease
- transactions.
- 17 Q. Please describe your present duties.
- 18 A. I am responsible for the Company's pension and other investment
- management and support the Utility financing activities.
- 20 **Purpose of Testimony**
- 21 Q. What is the purpose of your testimony?
- 22 A. As Mr. Larson explains in his direct testimony, Emerging Issues Taskforce
- 23 01-08 ("EITF 01-08") and Financial Accounting Standards Board (FASB)

No. 13 require PacifiCorp to recognize its obligations under certain Qualifying Facility ("QF") contracts as capital lease obligations. Because these QF capital lease obligations are considered to be debt and would be treated like any other debt obligation of the Company, they have impacts on both the Company's financial commitments and credit quality. Further, even if a QF contract is not treated as a capital lease obligation, it may have similar debt impacts pursuant to Financial Interpretation No. 46R ("FIN 46R") and/or it would have similar debt-like impacts on the Company under guidelines established by rating agencies.

My testimony will provide an overview of the way in which PacifiCorp finances its operations and discuss the reasons why the recognition of additional debt associated with purchases from QFs will impose additional costs on the Company and its customers. I will also explain how to calculate the incremental cost associated with the additional debt and the Company's proposal for how to recover that additional cost.

Financing Overview

Q. How does PacifiCorp finance its electric utility operations?

A. PacifiCorp requires large amounts of capital to construct and maintain its electrical infrastructure. In order to raise that capital, PacifiCorp relies on a mix of first mortgage bonds, other secured debt, tax exempt debt, unsecured debt, preferred stock and common equity.

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Much of the Company's long-term financing is done using secured first mortgage bonds issued under a PacifiCorp Mortgage Indenture dated January 9, 1989. As of December 31, 2004, PacifiCorp had \$3,143 million of first mortgage bonds outstanding. In addition, the Company regularly borrows tens of millions of dollars to meet more short term financing requirements.

PacifiCorp has a large capital program that is expected to further increase in order to serve the growing needs of its customers. In order to have access to the capital markets and attract the capital that will be necessary to fund this expansion, PacifiCorp must maintain its credit quality and comply with its financing agreements and other commitments.

Regulatory Commitments

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Q. Does PacifiCorp have commitments that limit the amount of debt in its capital structure?

Yes. For example, PacifiCorp and ScottishPower have made commitments to state utility commissions and the U.S. Securities and Exchange Commission ("SEC") concerning PacifiCorp's minimum level of common equity as a percentage of capitalization. These commitments must be met for PacifiCorp to continue to utilize financing authority from the SEC. To the extent that obligations under QF contracts are treated as debt under accounting standards, it will impact PacifiCorp's ability to meet those tests. This may lead to the likelihood of seeking new common

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equity or delaying or reducing capital spending programs that would otherwise be occurring to meet the growing needs of our customers.

70 Additional Costs Imposed by QF Contracts

- Q. Could the direct recognition of QF obligations as debt on the
 Company's balance sheet impose additional costs associated with
 credit quality?
- 74 A. Yes. It is important to have a balanced capital structure and additional 75 debt through QF contracts will lead to a need for additional equity to avoid 76 adverse impacts on credit quality. The debt related to a QF power purchase reduces the amount of debt the Company might otherwise issue. 77 There is a cost when the Company's ability to issue debt is reduced. 78 Specifically, because equity is more expensive than debt, the increase in 79 equity required to offset the QF-related debt and allow PacifiCorp to 80 81 maintain credit quality and compliance with its financing agreements and other commitments would impose additional costs on PacifiCorp and its 82 83 customers.

Would all QF contracts result in debt being added directly to PacifiCorp's balance sheet?

A. No. As Mr. Larson discussed, the only QF agreements that would result in debt being added directly to PacifiCorp's balance sheet and interest expense being included on the income statement are those agreements where the application of EITF 01-08 or FIN 46R accounting rules would dictate such an application. However, even if debt is not added directly to

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- the Company's balance sheet due to accounting treatment, in certain situations, credit rating agencies infer debt associated with power purchase agreements.
- Q. If a contract results in debt being added to the Company's balance sheet, yet it does not require the utility to immediately issue equity to balance the capital structure, is there an additional cost?
- 97 A. Yes. All QF contracts, whether large or small, that result in debt
 98 equivalent recognition on the financial statements or by the credit rating
 99 agencies, diminish the credit capacity of the utility. There is a cost related
 100 to the diminished credit capacity.

O. Can that cost be calculated or observed?

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Yes. The additional cost associated with a QF contract is equal to the prorata share of the cost of diminished credit capacity. The additional cost is the difference between the cost of equity and the blended cost of capital required to balance the capital structure, times the amount of equity that must be infused as a result of the recognized debt due to the QF contract. The size of the additional cost is large or small depending upon the amount of debt that arises as a result of the contract. Whether the absolute magnitude of the impact is large or small, the cost should be recognized, calculated, and borne by the party that imposes the cost. In simple terms, the cost is the difference between the pre-tax cost of equity and the pre-tax weighted average cost of capital times the amount of equity needed to rebalance the capital structure.

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114	Q.	Even if a QF obligation is not recognized as debt on PacifiCorp's
115		books, does it adversely impact PacifiCorp's credit quality and result
116		in an additional cost, such as that described previously?

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Yes. Rating agencies view long-term purchased-power agreements as debt-like in nature. Cash flow is one of the more important items in credit analysis. For rating purposes, the rating agencies do not simply assess a company's revenues, but also all of the expenses a company must cover with its revenues. Cash flow is measured as the cash available from operations plus any non-cash expenses and is compared against various debt and fixed obligation measures, including an amount of inferred debt associated with fixed payment obligations associated with QF purchased power.

Even when the accounting standards do not classify a contract as a capital lease, in certain situations, rating agencies (such as Standard & Poor's) will calculate an amount to impute as a debt equivalent related to purchased-power agreements. This amount of debt equivalent is added to a utility's reported debt to calculate adjusted debt and evaluate cash flow to debt metrics. Similarly, rating agencies impute an associated interest expense related to the debt equivalent which is then added to reported interest expense to calculate adjusted interest coverage ratios. The attached Exhibit UP&L ____ (MBS-1) details Standard &Poor's views on this matter.

136	Q.	What debt level (accounting-related or rating agency methodology)
137		should be utilized in determining these additional costs?
138	A.	The debt that should be utilized for determining additional debt-related
139		costs associated with QF agreements should be the higher of: (1) the debt
140		directly added to the Company's balance sheet as a result of applying
141		applicable accounting rules or, (2) the debt determined by the most
142		transparent rating agency methodology.
143	Q.	Which rating agency currently has the most transparent
144		methodology?
145	A.	At present, it is Standard & Poors.
146	Q.	What risk factor should be applied under the Standard & Poor's
147		methodology to calculate the amount of debt equivalent for QF
148		obligations?
149	A.	Standard & Poor's has stated that a 50% risk factor is appropriate for long-
150		term commitments (e.g. terms greater than three years) as a generic
151		guideline for utilities with purchased power agreements. Standard &
152		Poor's presently uses a 50% risk factor in their credit evaluation of
153		PacifiCorp. PacifiCorp will track changes in the rating agency perspective
154		on the debt equivalence of power purchase commitments as and when the
155		agencies update their methodology. The rating agencies have also

indicated to the Company that it should reduce that risk factor to 30% for

resources acquired through the Energy Resource Procurement Act process.

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- Q. How does S&P use the risk factor to translate the costs associated 158 with PPAs into an amount of debt it will impute or infer on the 159 160 purchaser's financial statements?
- Standard & Poor's calculates the amount of debt by multiplying the risk 161 A. factor by the present value of fixed payments, discounted at 10%. 162
- 163 Q. Does PacifiCorp propose that the QF generator bear the cost it imposes on the utility to maintain credit quality either because of 164 imputed or direct debt? 165

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A. Yes. The Company believes that since the QF generator imposes the need 166 to rebalance the capital structure, it should bear the related cost. Whether a QF contract results in debt being added directly to the Company's balance sheet because of the new accounting standards or being imputed onto the Company's balance sheet by rating agencies, there is a real and calculable additional cost to the Company. If the cost is not borne by the QF, the cost will effectively be shifted to customers and result in compensation to the QF that exceeds the avoided cost. In that case, the PURPA ratepayer indifference standard will be violated. In order to maintain ratepayer indifference, PacifiCorp proposes to calculate the additional costs associated with the direct or imputed debt on an agreement-by-agreement basis and then make a debt-related adjustment to the QF payment.

Q. How can the cost of diminished credit be equitably borne by the QF?

PacifiCorp proposes that the total revenue requirement of a QF contract should equal the avoided cost. QF contracts have two cost impacts, cash payments and the cost of rebalancing the capital structure to offset the diminished credit related the debt or debt equivalence of the contract. Cash payment to the QF would equal the avoided cost less the change in revenue requirement due to rebalancing the capital structure required by the contract.

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For illustration purposes, if the avoided cost determined by the Public Service Commission is \$46/MWh and the average cost per MWh impact of rebalancing the capital structure is \$2/MWh, then the cash payment to the QF would equal the avoided cost less the cost of rebalancing, or \$44/MWh. The cash payment to the QF is reduced by an amount equal to the revenue requirement impact of rebalancing the capital structure. This method results in a combined cost of power to customers that equals the avoided cost. Failure to adjust the avoided cost payment for costs the QF imposes on utility customers will result in a contract cost that exceeds the avoided cost.

Q. How does the Company calculate the additional costs imposed on the Company related to direct or imputed debt?

A. As the cost equals the incremental equity required to rebalance the capital structure times the difference between the pre-tax cost of equity and the pre-tax weighted average cost of capital, the Company determines the amount of equity needed to offset the debt or debt equivalent (imputed

debt) in order to maintain the capital structure at the same level that was in place prior to entering into the contract. An example of a theoretical calculation is provided in Exhibit UP&L (MBS-2). In the example, the beginning equity ratio is 48%, shown on line 2. In this example, \$100 million of debt is added to the Company's balance sheet as a result of a capital lease, reducing the equity ratio to 43.6%, shown on line 6. \$92.3 million of equity is then issued to offset the direct debt. As can be seen on line 11, the equity ratio returns to the original 48% ratio from this equity infusion. The revenue requirement of the incremental equity is calculated in lines 13 through 17, which shows an annual cost of \$5.149 million. Simply stated, the revenue requirement cost equals the cost of equity minus the weighted average cost of capital times the amount of equity issued to rebalance the capital structure. This cost or revenue requirement would then be converted to a basis for adjusting compensation to the QF. A similar method would be used to calculate the costs associated with imputed debt; however, as noted above, the higher of the two calculations should be used for determining additional debt-related costs.

Q. How will the Company ensure that ratepayers receive the benefit of a debt-related cost adjustment to the avoided cost payment?

Each period when a payment is remitted to a QF, PacifiCorp will record the full amount of the avoided cost in Purchased Power Account 555, with a credit entry or contra-expense in the same account for the amount of the debt imputation adjustment. The net expense in Purchased Power expense

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will equal the amount remitted to the QF, while the contra-expense amount is clearly presented in the Company accounts. This practice will serve to demonstrate that the cost is real and measurable. By reducing purchased power expense, the financial records will be explicitly clear that the adjustment to QF payments directly reduces revenue requirement, thereby flowing through directly to ratepayers and offsetting the increase in cost of capital.

Q. Does this conclude your testimony?

234 A. Yes.