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May 13, 2011

VIA ELECTRONIC AND U.S. MAIL

PUC Filing Center Public Utility Commission of Oregon PO Box 2148 Salem, OR 97308-2148

UM 1396 - In the Matter of the Public Utility Commission of Oregon Investigation Re: into Determination of Resource Sufficiency Pursuant to Order No. 06-538

Attention Filing Center:

Enclosed for filing in the above-referenced docket are an original and five copies of Idaho Power's Opening Comments.

A copy of this filing has been served on all parties to this proceeding as indicated on the attached certificate of service. Please contact me with any questions.

Very truly yours,

Wendy McIndoo Wendy McIndoo

Legal Assistant

Enclosures cc: Service List

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2	I hereby certify that I served a true and correct copy of the foregoing document in Docket UM	
3	1396 on the following named person(s) on the date indicated below by email and first-class mail	
4	addressed to said person(s) at his or her last-known address(es) indicated below.	
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Page 1 - CERTIFICATE OF SERVICE

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1	BEFORE THE PUBLIC UTILITY COMMISSION OF OREGON		
2	Un	Л 1396	
3			
4	In the Matter of:		
5		Opening Comments of Idaho Power	
6	PUBLIC UTILITY COMMISSION OF OREGON	Company	
7			
8	Investigation into determination of resource sufficiency, pursuant to Order No. 06-538		
9	sumplemely, pursuant to Order No. 00-000		

10 Pursuant to Administrative Law Judge ("ALJ") Patrick Power's Prehearing 11 Conference Memorandum, Idaho Power Company ("Idaho Power" or "Company") submits 12 the following Opening Comments to the Public Utility Commission of Oregon 13 ("Commission").

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I. INTRODUCTION

The purpose of this phase of UM 1396 is to determine how to calculate the avoided cost rate for renewable generation by Qualifying Facilities ("QFs") under the Public Utility Regulatory Policies Act of 1978 ("PURPA"). To address the treatment of renewable QFs, ldaho Power requests that the Commission authorize it to use its Integrated Resource Plan ("IRP") methodology to calculate its avoided costs for all resource types rather than the previously approved surrogate avoided resource ("SAR") method. The IRP methodology utilizes the Company's most recently acknowledged IRP along with its power cost model, AURORA, to comprehensively develop an avoided cost based upon the specific generation characteristics of particular QF projects. Adoption of the IRP methodology provides a workable solution to the issues posed by renewable QFs and results in a more accurate svoided cost rate for Idaho Power that conforms to all state and federal requirements. Thus, while the scope of this proceeding is not necessarily intended to address the underlying

1 - OPENING COMMENTS OF IDAHO POWER COMPANY McDowell Rackner & Gibson PC 419 SW 11th Avenue, Suite 400 Portland, OR 97205 1 method for calculating the avoided costs, as described below, the use of an IRP 2 methodology does address the specific questions posed by the Commission.

3 The IRP methodology proposed here is currently used by the Company both here 4 and in Idaho as a starting point in negotiations to determine the avoided cost for large QFs 5 (*i.e.* in Oregon, a QF with a nameplate capacity larger than 10 MW and in Idaho, a QF with a 6 total project capacity greater than 10 aMW).¹ In the context of small QFs (*i.e.* smaller than 7 10 MW in Oregon), the Company proposes using the IRP methodology to develop resource 8 specific avoided costs for both renewable and non-renewable QFs. Under this proposal, the 9 Company would develop an avoided cost rate for each type of generator, *e.g.* wind, solar, 10 geothermal, etc., based on its unique generation characteristics. These rates would be 11 updated every two years as part of the IRP process and made available to QFs.

12 This request is consistent with the treatment the Company is also seeking before the 13 Idaho Public Utilities Commission ("IPUC").² Allowing the Company to use the IRP 14 methodology in Oregon encourages administrative efficiency—the basis for the 15 Commission's past decision to allow Idaho Power to use a different method than Portland 16 General Electric ("PGE") and PacifiCorp.

17 II. BACKGROUND

18 The Commission opened UM 1396 to address the impact of a utility's resource 19 position on its avoided cost calculation.³ In the first phase of this docket, the Commission 20 adopted policies for determining resource sufficiency or deficiency for PacifiCorp and PGE. 21 The Commission did not adopt policies applicable to Idaho Power because it concluded that

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 ¹ In Idaho, the Idaho Public Utilities Commission has issued a temporary cap of 100 kW for eligibility for wind and solar QFs to receive the published avoided cost rate. Order No. 32176, Case No. GNR ²⁴ E-10-04.

² See Re Commission's Investigation into Disaggregation and an Appropriate Published Avoided Cost
25 Rate Eligibility Cap Structure for PURPA Qualifying Facilities, Case No. GNR-E-11-01 (IPUC).

^{26 &}lt;sup>3</sup> Re Investigation Into Determination of Resource Sufficiency, Order No. 10-488 at 1-2 (Dec. 22, 2010).

1 the Company's resource position would not be used to calculate its avoided costs. The 2 Commission noted that, "administrative efficiency interests . . . justify authorizing Idaho 3 Power to continue using the SAR methodology to calculate avoided costs regardless of its 4 resource position."⁴ The Commission specifically recognized that Idaho Power exclusively 5 uses the SAR methodology in its Idaho service territory, "where it serves far more customers 6 than its Oregon service territory . . ." and that "the costs of developing and applying new 7 avoided cost methodologies in Oregon outweigh the potential benefits."⁵

8 Currently in Idaho, the published avoided cost rate is available to wind and solar QFs 9 that are 100 kW or less and all other types of QF projects that are up to 10 aMW in size. The 10 published avoided cost rate is based upon the SAR methodology. The SAR methodology 11 uses a natural gas-fired combined cycle combustion turbine ("CCCT") as the proxy resource 12 avoided by the purchase of the QF's output. This methodology is highly dependent on 13 forecast natural gas prices and calculates the avoided cost based on a limited number of 14 factors. Moreover, using the natural gas-fired CCCT is no longer representative of typical 15 QFs that are transacting, or seeking to transact, with Idaho Power, most of which are large 16 wind or solar projects whose generation profile is intermittent in nature. Therefore, the 17 Company has asked the IPUC to authorize it to use the IRP methodology rather than the 18 SAR method, to determine the avoided cost rate.⁶

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III. DISCUSSION

20 A. The IRP Methodology Is More Comprehensive than the SAR Methodology.

The IRP methodology uses the Company's current IRP along with its power cost 22 model, AURORA, to develop an avoided cost rate that considers a wide range of relevant

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 ²⁴ ⁴ Re Public Utility Commission of Oregon Staff's Investigation Relating to Electric Utility Purchases
 ²⁵ from Qualifying Facilities, Docket UM 1129, Order No.0 5-584 at 26 (May 13, 2005).

⁵ Order No. 05-584 at 26.

²⁶ ⁶ See generally IPUC Case Nos. GNR-E-10-04 and GNR-E-11-01.

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1 factors and results in a rate that more accurately reflects the actual costs the Company 2 avoids by purchasing the energy and capacity from a QF. This method takes into account 3 the generation profile of the proposed QF project and values the energy based on future 4 market prices calculated in the model. Capacity costs are based on the IRP's cost estimate 5 for a CCCT and this component is added to the value of the energy to establish the total 6 avoided cost rate. The IRP methodology ties into the same process, procedures, and 7 analysis that the Company utilizes in its Commission-approved IRP planning process to 8 acquire its other generation resources to meet its obligation to reliably serve customer load 9 in its service territory. Thus, the focus of the inquiry is not solely on the specific resource 10 that is avoided, but rather, on a holistic examination of the actual costs that the Company 11 will avoid as a result of its acquisition of energy and capacity from a QF. As compared to 12 the SAR methodology, the IRP methodology yields a rate that is more reflective of the actual 13 energy and capacity value provided by each type of QF.

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Calculating the Avoided Cost Rate Using the IRP Methodology. 1.

As indicated by its name, the IRP methodology begins with the Company's most 15 16 recent Commission acknowledged IRP. This IRP considers a range of load forecasts for 17 various sets of possible economic conditions. The IRP also considers all possible resources 18 for meeting load, including both supply and demand side resources. Thus, the IRP 19 considers existing resources, the ability to import electricity, and the performance of current 20 demand-side management ("DSM") programs, which are accounted for in the load and 21 resource balance. The IRP also considers risks and uncertainties associated with each 22 scenario examined and ultimately results in a preferred resource portfolio. The preferred 23 portfolio is selected on the basis that it is the best combination of expected costs and 24 associated risks and uncertainties for the utility and its customers.

Using the preferred portfolio from the Company's acknowledged resource plan, the 25 26 first step in the IRP methodology calculates the present value of revenue requirements

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1 ("PVRR") of the preferred portfolio over a 20-year planning horizon. This "base case"2 calculation is performed using the AURORA model and is done as part of the IRP analysis.

The Company then performs a second simulation analysis in AURORA, including the QF resource and the energy Idaho Power would expect to receive from the QF project (the 5 "Study Case"). In the Study Case, the AURORA model is used to simulate how the energy 6 received from a proposed QF project would displace the cost of other resources in the 7 preferred portfolio identified in Idaho Power's IRP. The total cost of the Study Case is then 8 compared to the total cost of the preferred portfolio from the IRP, with the difference being 9 the gross avoided cost of energy.

Next, a capacity (fixed) cost credit using a CCCT generator as a surrogate resource sadded to the value of the energy calculated in the AURORA model. The fixed cost credit is based on the QF project's capacity factor during the hours from 3:00 p.m. to 7:00 p.m. in the month of July. A 90th percentile criterion is used to determine the capacity factor for intermittent and variable generation projects (e.g. wind and solar), which is consistent with the peak-hour planning criteria Idaho Power uses in the IRP process. The stream of annual avoided costs (for energy and capacity) is uniformly escalated and then discounted using Idaho Power's weighted average cost of capital to establish a levelized avoided cost rate for the proposed QF project.

While the IRP methodology has been previously used to develop negotiated rates for specific projects on an individual basis, this same methodology could be applied to develop a set of standard, resource-specific avoided cost rates that would completely replace the SAR-based rate. The IRP methodology provides numerous advantages over the SAR methodology. For example, the IRP methodology considers numerous factors including Idaho Power's actual need for the power and the Company's planned resource acquisitions from its preferred resource portfolio in its Commission-acknowledged IRP. It examines the specific generation characteristics of the QF and its availability to serve load during daily

5 - OPENING COMMENTS OF IDAHO POWER COMPANY and seasonal peaks. The SAR methodology, on the other hand, calculates the avoided cost
 based on a generic gas-fired CCCT and relies heavily on the Northwest Power and
 Conservation Council's natural gas price forecast to determine a rate, which results in a less
 accurate representation of an electric utility's actual avoided costs.

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2.

Idaho Power Has Extensive Experience with the IRP Methodology.

6 For over 16 years, Idaho Power has used the IRP methodology as the starting point 7 in negotiations to calculate an avoided cost rate for large QFs in Idaho.⁷ The Company has 8 requested that the IPUC approve a broader application of the IRP methodology to all QFs 9 with a capacity greater than 100 kW.⁸ The Company has also requested that the IPUC 10 approve the use of the IRP methodology for establishing a published rate similar to the 11 proposal here. In addition to using this method in Idaho, the IRP methodology also forms 12 the basis for the Company's large QF avoided cost rates in Oregon (*i.e.* larger than 10 MW).

13 The Commission has previously recognized the value of administrative efficiency for 14 Idaho Power and authorized it to calculate its published avoided cost rate in Oregon 15 consistent with the method approved by the IPUC. Because the Company is seeking this 16 same treatment in Idaho, it requests that the Commission authorize it to use the IRP 17 methodology to determine is avoided cost rate in Oregon.

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3. The IRP Methodology Is Consistent with Both Federal and State Law.

Federal law mandates that rates under PURPA be just and reasonable, not 20 discriminate, and not exceed the utility's avoided cost.⁹ The avoided cost is defined in 21 PURPA as, "the cost to the electric utility of the electric energy which, but for the purchase

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²³ ⁷ See Schedule 85 at 8-9.

 ⁸ See generally Re Commission's Investigation into Disaggregation and an Appropriate Published Avoided Cost Rate Eligibility Cap Structure for PURPA Qualifying Facilities, Case No. GNR-E-11-01
 (IPUC).

⁹ See 16 U.S.C. §§ 824a-3(b), (d) (rates for purchases by utilities must be at the avoided cost); and 18 C.F.R. § 292.304(a)(2) (electric utilities are not required to pay more than avoided costs).

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1 from [the QF], such utility would generate or purchase from another source.^{*10} This 2 requirement ensures that a utility's customers remain indifferent to the purchase of QF 3 power and that QFs are not subsidized at ratepayers' expense.¹¹ The Commission has 4 made clear that when determining the avoided cost, the overriding goal is to ensure that a 5 utility's customers are unaffected by the purchase of the QF's output and that QF 6 transactions create no additional costs for the ratepayer.¹² In discussing PURPA, the 7 Commission noted: "We seek to provide maximum incentive for the development of QFs of 8 all sizes, while ensuring that ratepayers remain indifferent to QF power by having utilities 9 pay no more than their avoided costs.^{*13}

10 FERC's regulations set forth specific factors that can be considered when 11 determining the avoided costs. Among these factors are the following:

12 (1) The availability of capacity or energy from a QF during the system
13 daily and seasonal peak periods;

14 (2) The ability of the utility to dispatch the qualifying facility;

15 (3) The expected or demonstrated reliability of the qualifying facility;

- 16 (4) The individual and aggregate value of energy and capacity from QFs 17 on the utility's system; and
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¹⁰ 16 U.S.C. § 824a-3.

23 ¹² See Order No. 07-360 at 1.

- (PURPA is designed "to encourage the economically efficient development of QFs, while protecting
 ratepayers by ensuring that utilities incur costs no greater than they would have incurred in lieu of purchasing QF power.").
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 ¹¹ Independent Energy Producers Association v. California Public Utilities Comm'n, 36 F.3d 848, 858
 (9th Cir. 1994) ("If purchase rates are set at the utility's avoided cost, consumers are not forced to subsidize QFs because they are paying the same amount they would have paid if the utility had generated energy itself or purchased energy elsewhere.").

 ²⁴ ¹³ Order No. 05-584 at 11; see also In the Matter of Staff's Investigation Relating to Electric Utility
 ²⁵ Purchases from Qualifying Facilities, Docket UM 1129, Order No. 07-360 at 1 (Aug. 20, 2007)
 ²⁶ (PURPA is designed "to encourage the economically efficient development of QFs, while protecting

1(5)The relationship of the availability of energy or capacity from the QF to2the ability of the utility to avoid costs, including the deferral of capacity3additions and the reduction of fossil fuel use.14

The avoided cost rate can also specifically account for the technology used by the GR "on the basis of the supply characteristics" of the technology.¹⁵ FERC has noted that this provision must be read in concert with the avoided cost requirement.¹⁶ Thus, the particular supply characteristics of a renewable resource, *e.g.* the intermittent and variable nature of wind generation, can be (and should be) considered when determining the actual costs the utility avoids because of the purchase of electricity from the QF.

10 The IRP methodology is consistent with PURPA's mandates and its underlying 11 policy. The methodology results in more accurate avoided costs because it determines the 12 cost based on a more comprehensive examination of the impact on the Company resulting 13 from the purchase of electricity from the QF. In doing so, it more accurately reflects the 14 costs "that the utility would generate itself or purchase from another source but for the 15 purchase from a [QF]."¹⁷

To the extent that the method differentiates among resources, *e.g.* by using the specific generation profile of the QF to determine the avoided cost, it is also consistent with FERC's regulations, which specifically authorize the avoided cost calculation to differentiate among resources "on the basis of the supply characteristics" of the technology, to take into account the ability of the QF to provide energy and capacity during system peaks, and to consider the relationship of the availability of energy or capacity from the QF to the ability of

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¹⁴ 18 C.F.R. § 292.304(e).

 ²⁴ ¹⁵ See 18 C.F.R. § 292.304(c)(3)(ii) (avoided cost rates "may differentiate among qualifying facilities
 ²⁵ using various technologies on the basis of the supply characteristics of the different technologies").

¹⁶ Southern California Edison Co., 70 F.E.R.C. P 61,215 at n. 15 (Feb. 23, 1995).

²⁶ ¹⁷ ORS 758.505(1); see also OAR 860-029-0010(1).

1 the utility to actually avoid costs.¹⁸ The IRP methodology includes in its analysis all of these 2 factors.¹⁹

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IV. DISCUSSION OF SUBSTANTIVE ISSUES

A. Should the Commission require that each utility determine its avoided cost for a renewable resource? If so, how should the Commission decide what
 5 renewable resource would be avoided and at what cost?

6 The Commission should require Idaho Power to use the IRP methodology to 7 determine the avoided cost of renewable QF resources. For Idaho Power, this renewable 8 avoided cost, however, should not be uniform across all types of renewable generators. 9 Because each type of generator, *e.g.* wind, solar, or geothermal, has unique supply 10 characteristics, Idaho Power proposes developing an avoided cost rate for each type of 11 resource using a representative generation profile for that resource type for the Company's 12 system and service territory using the IRP methodology. Developing resource-specific 13 avoided costs better reflects the actual costs avoided by Idaho Power by transacting with 14 the QF.

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1.

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18 In the Company's IRP methodology, the IRP Action Plan is used to develop the

Should the IRP Action Plan be used to identify when a renewable

resource acquisition would be avoided, or should a utility purchase of unbundled RECs signal the start of a renewable resource deficiency

19 resource-specific avoided cost because the methodology includes in its calculation the

period?

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^{20 &}lt;sup>18</sup> See 18 C.F.R. § 292.304(c)(3)(ii) and (e).

 ¹⁹ In Order No. 10-488 the Commission specifically noted that FERC had issued an order on October
 21, 2010, that had implications on the issues in this proceeding. In that FERC order, and the subsequent order denying rehearing in the same docket, FERC clarified that under PURPA a state
 commission may adopt a multi-tiered avoided cost rate structure for renewable QFs based upon the

 ²³ avoidance of costs resulting from a state-mandated procurement requirement. *California Public Utilities Commission*,133 F.E.R.C. P 61,059 (October 21, 2010); *California Public Utilities*

²⁴ Commission, 134 F.E.R.C. P 61,044 (Jan. 20, 2011). Because Idaho Power has no mandated procurement requirements until 2020 and 2025 (for the solar capacity standard and Renewable

²⁵ Portfolio Standards ("RPS") respectively), these orders are not material to the Company's current proposal. *See* ORS 469A.055 (RPS applies in 2025); ORS 757.370 and OAR 860-084-0020(3) (500

 ²⁶ kW solar capacity standard applies in 2020).

1 Company's planned resource acquisitions. The IRP methodology determines the actual 2 costs, including the reduced costs associated with planned resource acquisitions, that are 3 avoided because of the energy and capacity provided by the QF. This results in a more 4 accurate calculation of the actual costs avoided by Idaho Power. In this context, the 5 Company agrees that the IRP Action Plan should be considered when determining the 6 avoided cost for renewable resources. Developing an avoided cost specific to each type of 7 renewable resource better reflects the Company's actual avoided cost and the value of the 8 energy and capacity provided by the QF and theoretically displaced on the Company's 9 system.

10 11

2. Should out-of-state RPS be taken into account when determining when a renewable resource can be avoided by a purchase from an Oregon QF?

It is important to point out that the Commission's rules state: "unless otherwise agreed to by separate contract, the owner of the renewable energy facility retains ownership of the [renewable energy credits] associated with the electricity the facility generates and sells to an electric company pursuant to" a PURPA contract.²⁰ Thus, the energy a utility purchases from a QF in Oregon is not renewable energy for purposes of Oregon's renewable portfolio standards ("RPS") because the utility cannot use that energy for RPS compliance.²¹ Accordingly, whether an RPS should be taken into account is immaterial to energy acquires renewable QF resources does not affect whether it can avoid acquiring non-QF renewable resources for the purpose of RPS compliance. In other words, when a utility acquires renewable QF energy in Oregon, the utility is not avoiding anything, and, in fact, may have to acquire additional renewable, intermittent generation above and beyond what it purchases from QFs to comply with state RPS requirements. A change in current

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²⁰ OAR 860-022-0075(2)(b).

²⁶ ²¹ See ORS 469A.070 (utilities must comply with RPS using bundled or unbundled RECs).

1 Commission policy regarding the role of renewable energy credits ("RECs") in the utility-QF 2 transaction is necessary to consider the interplay between renewable QF purchases and 3 utility compliance with state RPS requirements.

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3. Should the renewable avoided cost be based on the estimated cost of the renewable resources identified in the IRP Action Plan, or should the Commission use a "proxy" resource approach similar to the current approach used by PGE and PacifiCorp for standard avoided costs?

7 Under its proposed IRP methodology, Idaho Power would develop a standard 8 avoided cost rate for each type of generator. For example, wind and solar generators 9 produce vastly different generation profiles. Wind is a variable energy resource that 10 generates intermittently and unpredictably throughout heavy and light load hours. Solar, on 11 the other hand, is less intermittent and tends to provide generation during Idaho Power's 12 system peaks (*i.e.* daytime and/or summer months). These vastly different supply 13 characteristics warrant different avoided costs because a wind QF allows the Company to 14 avoid different costs than does a solar QF.

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4. When should the renewable avoided cost stream reflect an avoided purchase of an unbundled REC?

17 As described above, when an electric utility in Oregon purchases energy from a 18 renewable QF generator, it does not receive any of the environmental attributes associated 19 with that energy. Thus, an electric utility does not avoid the need to purchase an unbundled 20 REC (or purchase other renewable energy) when it purchases energy from a renewable QF.

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21 **B**. Should the Commission require that a renewable QF be able to choose among two avoided cost streams-the renewable avoided cost stream, and the nonrenewable avoided cost stream?

23 No. As discussed above, allowing a QF to choose an avoided cost stream that does 24 not accurately reflect the actual costs avoided by the utility by acquiring that QFs output 25 results in the utility paying a rate that is not the avoided cost. The IRP methodology 26 develops avoided cost rates specific to the type of generator, based upon many factors

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1 including the supply characteristics of the generator, the timing of the generator's electricity 2 delivery, and the costs the utility actually avoids by purchasing the QF output. This method 3 ensures that customers remain indifferent to QF transactions and pay no more than they 4 would if the utility were obtaining that electricity from another source. Allowing QFs to pick 5 and choose among different avoided costs violates PURPA's most basic mandate that rates 6 paid to a QF do not exceed a utility's avoided cost and that customers remain neutral and 7 indifferent to the QF transaction.

8 C. When is a planned resource acquisition avoidable?

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10

1. If no irreversible commitment has been made to the project, is the project avoidable?

The use of the Company's proposed IRP methodology makes this determination less important to the avoided cost calculation because the avoided cost is not determined based exclusively on when a similar resource acquisition was planned. Notwithstanding this fact, the Company believes that *for purposes of determining the avoided cost* a project is source acquisition of the Company commits material resources to the development and/or acquisition of the resource. This determination will be fact-specific and therefore should be to determined on a case-by-case basis.

18 **2.** What constitutes an irreversible commitment?

19 See the discussion above.

20

V. DISCUSSION OF PROCEDURAL ISSUES

21 A. Which of these issues should be the subject of evidentiary proceedings?

At this time the Company believes that there are no issues that necessarily require an evidentiary proceeding. The Company reserves the right to modify this position after reviewing other parties' comments and participating in the workshop scheduled for this docket.

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1	B. Should the evidentiary proceedings be generic, or conducted on a utility-by- utility basis?	
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3	To the extent evidentiary proceedings are necessary, it may be advantageous to	
4	have them conducted on a utility-by-ut	ility basis in light of the fact that Idaho Power's
5	proposal is specific to its unique circumstances.	
6	VI.	CONCLUSION
7	Idaho Power appreciates the opportunity to file these comments and looks forward to	
8	3 continuing to work with Staff and stakeholders in the upcoming workshop.	
9		
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