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#### BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

IN THE MATTER OF THE APPLICATION ) OF IDAHO POWER COMPANY FOR ) AUTHORITY TO ESTABLISH NEW SCHEDULES FOR RESIDENTIAL AND SMALL GENERAL SERVICE CUSTOMERS WITH ON-SITE GENERATION.

) CASE NO. IPC-E-17-13

#### IDAHO POWER COMPANY

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) 

SURREBUTTAL TESTIMONY

OF

CONNIE G. ASCHENBRENNER

1 Ο. Please state your name. 2 Α. My name is Connie G. Aschenbrenner. 3 Are you the same Connie G. Aschenbrenner that Ο. 4 previously presented direct and rebuttal testimony? 5 Α. Yes. 6 What is the purpose of your surrebuttal 0. 7 testimonv? 8 My surrebuttal testimony is intended to Α. 9 provide the Idaho Public Utilities Commission 10 ("Commission") with a final update on customer 11 participation in the Idaho Power Company's ("Idaho Power" or "Company") net metering service and to provide 12 13 additional information to the Commission and parties in 14 response to certain statements made by parties in rebuttal 15 testimony. My testimony is comprised of two sections. 16 In Section I, I provide the Commission with an 17 update on customer participation in net metering service as 18 of January 31, 2018. 19 In Section II, I respond to statements made by 20 parties related to rate design considerations regarding 21 customers' ability to access energy consumption data and 22 the capabilities of the Company's billing system. 23 In Section III, I clarify the scope of the Company's 24 proposed modifications to Schedule 72. 25

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#### I. UPDATE ON NET METERING PARTICIPATION

Q. Please provide an update on participation in
 the Company's net metering service.

A. The Company has continued to experience rapid growth in its net metering service since I last reported participation as of December 31, 2017. The Company received 95 applications during January 2018, making the total number of active and pending systems 2,089 in Idaho through January 31, 2018.

10 Tables 1 and 2 represent updated Idaho system counts 11 and nameplate capacity.

$\perp Z$	Table	1	-	Idaho	Net	Metering	C	ustomers	5

Class	Photovoltaic	Wind	Hydro/Other	Total
Residential	1,874	42	6	1,922
Commercial & Industrial	145	5	4	154
Irrigation	12	1		13
Total	2,031	48	10	2,089

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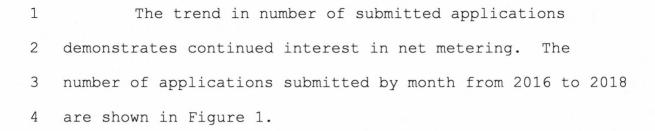
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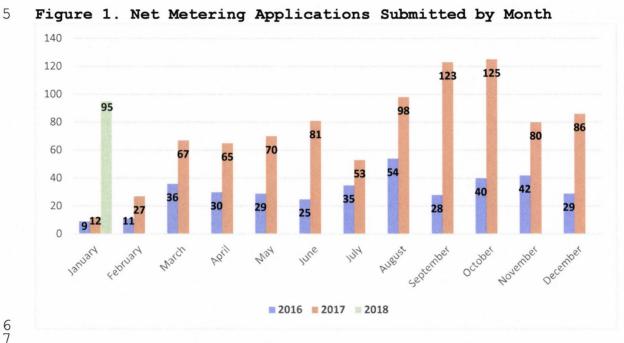
### 14 Table 2 - Idaho Net Metering Nameplate Capacity (in MW)

Class	Photovoltaic	Wind	Hydro/Other	Total
Residential	12.896	0.189	0.061	13.146
Commercial & Industrial	2.731	0.030	0.085	2.846
Irrigation	0.916	0.040	0.000	`0 <b>.</b> 956
Total	16.543	0.258	0.146	16.948

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8 Q. Do you believe the "pending" applications 9 should be included in the reported system counts and 10 capacity?

11 Α. Yes. In Idaho Power's experience, once an 12 application for a net metering system is submitted, that 13 system will generally come online within approximately five 14 months. Figure 2 shows, by month, the number of net 15 metering systems that have been energized between 2016 and 16 2018. The trend follows the trend reported in Figure 1; 17 however, it generally lags by a few months.



1 Figure 2. Net Metering Systems by Month of Operation

Q. What has been the rate of growth in net metering system counts and nameplate capacity since the Company filed its 2017 Net Metering Report?

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A. In the 2017 Net Metering Report, the Company reported that as of March 31, 2017, there were 1,277 active and pending net metering systems in Idaho. As of January 31, 2018, there are 2,089 active and pending systems in Idaho. This represents a 64 percent increase in net metering systems over a ten-month period.

As of March 31, 2017, the total nameplate capacity of active and pending systems was 9.58 megawatts ("MW") in Idaho. The total nameplate capacity of active and pending systems in Idaho was 16.95 MW as of January 31, 2018. This represents a 77 percent increase in nameplate capacity over a ten-month period. 1

#### II. INTERVAL DATA & BILLING SYSTEM CAPABILITIES

2 Ο. In his rebuttal testimony, witness Beach 3 suggests, "hourly data are not currently recorded or 4 provided to customers" and that "the meters are programmed 5 to record only monthly net usage." 1 Mr. Beach goes on to 6 say: "The utility admits that it would have to re-program 7 its meters and revise its billing system in order to make 8 such data available."2 Are the assertions made by Mr. Beach 9 accurate?

10 A. No.

11

Q. Why not?

12 Α. In addition to providing daily register reads, 13 Idaho Power's Automated Metering Infrastructure ("AMI") 14 meters record hourly kilowatt-hour readings (sometimes 15 referred to as hourly interval data) and a 15-minute 16 maximum demand for the bill month. Because AMI meters are 17 installed on approximately 99 percent of residential and 18 small service ("R&SGS") customer accounts, the Company 19 currently collects hourly interval data for 99 percent of 20 its R&SGS customers -- those with on-site generation and 21 those without on-site generation.

Q. Do customers have access to their hourlyinterval data?

<sup>1</sup> Beach Rebuttal, p. 4, 11. 19-21.

<sup>2</sup> Beach Rebuttal, p. 4, 11. 21-23.

Yes. All customers with an AMI meter have 1 Α. 2 access to their hourly interval data on Idaho Power's 3 website via My Account, an online resource. Customers must sign up for My Account to view and manage their energy 4 5 consumption. 6 How much historical data is available to Ο. 7 customers through My Account? 8 Customers currently have access to hourly Α. 9 interval data for the most recent 60 to 90 days. 10 Ο. If a customer requests access to historical hourly interval data beyond the 60 to 90 days, is the 11 12 Company able to accommodate that request? 13 Yes. In fact, the Company already does this Α. 14 upon customer request. 15 Ο. If the Commission implemented Staff's proposal 16 for net hourly billing, would the Company be able to 17 provide all R&SGS customers with historical hourly interval 18 data? Yes. The Company would be able to provide 19 Α. 20 more data than is currently available on its website; 21 however, this would require some modification to the 22 Company's My Account application and would require time to make these modifications. Once those modifications have 23 24 been completed, this data could be made available to customers who currently have, or who are considering an 25

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investment in on-site generation, so long as an AMI meter
 is installed at the service location.

3 Ο. Would the Company be able to implement net hourly billing for customers who do not have an AMI meter? 4 5 Yes; however, the Company would have to Α. replace any existing non-AMI meters with meters capable of 6 7 providing hourly interval data. In those instances, historical hourly interval data would not be available for 8 9 the approximately 1 percent of customers who do not 10 currently have AMI meters. 11 Ο. Is the Company's billing system capable of 12 billing net metering customers on a net hourly basis? 13 Not as it is currently configured; however, if Α. 14 the billing structure for net metering customers required 15 that net metering customers be billed on a net hourly 16 basis, the Company estimates it would need approximately 17 one year to modify its metering and billing systems in 18 order to bill net metering customers on a net hourly basis. 19 Is the Company's billing system capable of Ο. 20 billing net metering customers on time-of-use ("TOU") 21 rates? 22 Not as it is currently configured; however, if Α. 23 the billing structure for net metering customers required

25 Company estimates it would need approximately ten months to

that net metering customers be billed on TOU rates, the

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ASCHENBRENNER, SURR REB 7 Idaho Power Company 1 modify its systems in order to bill net metering customers 2 on TOU rates.

Q. What systems would need to be modified to implement net hourly billing or TOU rates for net metering customers?

A. As stated above, the existing meters are recording the information required to implement net hourly billing or TOU; however, the meter data collection, meter data validation, customer billing system, and the integration between those systems would need to be modified to implement either net hourly billing or TOU rates for net metering customers.

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#### III. MODIFICATIONS TO SCHEDULE 72 ARE MINOR

Q. Did any of the parties who filed rebuttal testimony agree with Commission Staff's suggestions that the Company's proposed modification to Schedule 72 "are not minor, and constitute a major revision to Schedule 72"<sup>3</sup> and "the proposed modification to Schedule 72 includes a large number of revisions that were not described in the Company's Application or testimony"?<sup>4</sup>

A. Yes. In his rebuttal testimony, Idaho Clean
Energy Association witness King notes his appreciation for

<sup>&</sup>lt;sup>3</sup> Dr. Morrison DI, p. 21, 11. 16-17.

<sup>&</sup>lt;sup>4</sup> Dr. Morrison DI, p. 23, 11. 6-8.

Commission Staff's recognition that "the changes to
 Schedule 72 are more significant than represented by Idaho
 Power in its application" and are "outside the scope of
 this docket."<sup>5</sup>

5 Q. Would you please clarify what modifications 6 the Company has proposed to Schedule 72?

7 Α. The modifications proposed by the Company are to (1) add reference to the newly proposed Schedules 6 and 8 8, referred to as "Small On-site Generation," and (2) add 9 10 the words "barring conditions beyond the Company's control" 11 to the inspection process to allow the Company additional 12 time to complete the on-site inspection of a newly 13 installed on-site generation system when circumstances 14 beyond the Company's control arise.

Q. How do you respond to Dr. Morrison's suggestion that there are "a large number of revisions that were not described in the Company's Application or testimony?"<sup>6</sup>

A. I disagree with Dr. Morrison's characterization. The changes to Schedule 72 are in fact very minor. I can see that at a glance, it may *appear* that there are additional and substantial revisions; however, most of the revisions shown in "mark-up" form are due to

<sup>5</sup> King Rebuttal, p. 8, 11. 8-10.

<sup>6</sup> Dr. Morrison DI, p. 23, 11. 7-8

ASCHENBRENNER, SURR REB 9 Idaho Power Company 1 formatting changes. These formatting changes result when 2 the page break occurs in a different location and causes 3 the text to be moved from one page to the next.

4 0. Do you believe that the proposed changes to 5 Schedule 72 are outside the scope of this docket? 6 No. Adding reference to the newly proposed Α. 7 Schedules 6 and 8 is in fact very much necessary and 8 relevant to this case if the proposed new schedules are 9 approved. The proposed changes accommodate the addition of 10 Schedules 6 and 8 where previously only Schedule 84 was 11 referenced.

12 The other revision, to allow the Company additional 13 time to complete the on-site inspection of a newly 14 installed on-site generation system when circumstances 15 beyond the Company's control arise, is very minor. The 16 need for this flexibility became evident during the 2016-17 2017 winter which brought heavy snows and icy conditions 18 throughout the Company's service area.

19 Did the Company share with installers and Ο. 20 Commission Staff that the Company was considering a modification to Schedule 72 that would allow the Company 21 22 additional time to complete the on-site inspection of a 23 newly installed on-site generation system when 24 circumstances beyond the Company's control arise? 25 Α. Yes.

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Q. Did anyone express concern with this
 2 modification?

3 A. No.

Q. Are any of the proposed changes to Schedule 72 related to the Company's request for the Commission to acknowledge that smart inverters provide functionality that is necessary to support the ongoing stability and reliability of the distribution system smart inverter grequest?

10 No. In this case, the Company requested that Α. 11 the Commission order the Company to submit a compliance 12 filing in the form of a tariff advice within 60 days of the adoption of the revised Institute of Electrical and 13 Electronic Engineers standards, or 60 days of the 14 15 conclusion of this case (whichever occurs later) if it 16 agrees that smart inverters provide functionality that is 17 necessary to support the ongoing stability and reliability 18 of the distribution system.

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#### IV. CONCLUSION

20 Q. Please summarize your surrebuttal testimony. 21 A. The continued pace at which R&SGS customers 22 are installing on-site generation underscores the 23 importance of addressing the Company's net metering service 24 now.

1 Idaho Power's AMI meters currently collect both 2 hourly interval data and daily register reads for 99 3 percent of its R&SGS customers. Further, customers currently have access to this hourly interval data on Idaho 4 5 Power's website via the My Account application. 6 While the Company's billing system is not currently 7 configured to bill R&SGS net metering customers on a TOU or 8 net hourly basis, TOU or net hourly billing for R&SGS

9 customers with on-site generation can be accomplished in 10 approximately one year.

11 The proposed changes to Schedule 72 are relevant to 12 this case, and while the modifications may appear to be 13 substantial, they are in fact very minor.

14 Q. Does this conclude your testimony?
15 A. Yes, it does.
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1	ATTESTATION OF TESTIMONY
2 3	STATE OF IDAHO ) ) ss.
4	County of Ada )
5	I, Connie G. Aschenbrenner, having been duly sworn
6	to testify truthfully, and based upon my personal
7	knowledge, state the following:
8	I am employed by Idaho Power Company as the Rate
9	Design Manager of Regulatory Affairs and am competent to be
10	a witness in this proceeding.
11	I declare under penalty of perjury of the laws of
12	the state of Idaho that the foregoing surrebuttal testimony
13	is true and correct to the best of my information and
14	belief.
15	DATED this 23 <sup>rd</sup> day of February, 2018.
16 17	Convie Clella Sommer
18	Connie G. Aschenbrenner
19	SUBSCRIBED AND SWORN to before me this 23 <sup>rd</sup> day of
20	February, 2018.
21 22 23 24 25 26 27 28 28 29	Notary Public for Idaho Residing at Boise, Idaho My commission expires: 12/20/20

ASCHENBRENNER, SURR REB 13 Idaho Power Company



# **CERTIFICATE OF SERVICE**

I HEREBY CERTIFY that on the 23<sup>rd</sup> day of February 2018 I served a true and correct copy of SURREBUTTAL TESTIMONY OF CONNIE G. ASCHENBRENNER upon the following named parties by the method indicated below, and addressed to the following:

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