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April 24, 2019

Via Electronic Filing

Public Utility Commission of Oregon
Attn: Filing Center
201 High St. SE, Suite 100
Salem OR 97301

Re: In the Matter of PORTLAND GENERAL ELECTRIC CO.
Application for the Deferral of Storm-Related Restoration Costs
Docket No. UM 1817

Dear Filing Center:

Please find enclosed the Reply Testimony and Exhibits of Dr. Marc M. Hellman (AWEC/100 – AWEC/103) on behalf of the Alliance of Western Energy Consumers in the above-referenced docket.

Thank you for your assistance. If you have any questions, please do not hesitate to call.

Sincerely,

/s/ Jesse O. Gorsuch
Jesse O. Gorsuch

Enclosures

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

UM 1817

In the Matter of)
)
PORTLAND GENERAL ELECTRIC)
COMPANY,)
)
Application for the Deferral of Storm-Related)
Restoration Costs.)
_____)

**REPLY TESTIMONY OF DR. MARC M. HELLMAN
ON BEHALF OF THE
ALLIANCE OF WESTERN ENERGY CONSUMERS**

April 24, 2019

1 **I. INTRODUCTION AND SUMMARY**

2 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

3 A. Dr. Marc Hellman. My business address is 2760 Eagle Eye Ave. NW, Salem, Oregon,
4 97304.

5 **Q. PLEASE STATE YOUR OCCUPATION AND ON WHOSE BEHALF YOU ARE**
6 **TESTIFYING.**

7 A. I am an economist by training with significant experience in energy utility regulation. I
8 am testifying on behalf of the Alliance of Western Energy Consumers (“AWEC”).

9 **Q. PLEASE SUMMARIZE YOUR EDUCATION AND WORK EXPERIENCE.**

10 A. I have a Masters and PhD in Economics awarded by Claremont Graduate School and a
11 Bachelor’s degree in both Economics and Mathematics awarded by California State
12 Polytechnic University, Pomona.

13 With regards to my prior work experience, I was employed for 38 years in various
14 capacities by the Public Utility Commission of Oregon, with the last twenty years or so in
15 a management capacity leading economists, accountants and financial analysts in the
16 review of utility general rate filings and rate proposals, financing and affiliated-interest
17 applications, property sales, and merger and acquisitions. I have also provided consulting
18 services for a varied set of clients including the Commonwealth Utilities Corporation
19 with headquarters in Saipan, the Smart Energy Alliance in a Nevada Power general rate
20 filing before the Public Utilities Commission of Nevada, the South Dakota Intrastate
21 Pipeline Company for a general rate filing before the South Dakota Utilities Commission,
22 and have begun work for the Renewable Energy Coalition and the Rocky Mountain

1 Coalition for Renewable Energy in a Wyoming QF-related docket. A copy of my work
2 history is provided as Exhibit AWEC/101.

3 **Q. WHAT IS THE PURPOSE OF THIS TESTIMONY?**

4 A. This testimony addresses the PGE deferral application regarding its 2017 Level III storm
5 costs. On April 12, 2019, PGE filed corrected testimony reducing its deferral request
6 from \$9.4 million to \$8 million. Unless otherwise explicitly noted, all references to PGE
7 Direct Testimony are to that filed as a revision on April 12, 2019.

8 **Q. WHAT IS YOUR RECOMMENDATION?**

9 A. I recommend the Commission deny PGE's request to establish a deferral. In prior
10 comments to the Commission, AWEC indicated that it did not believe PGE's petition met
11 the legal standard for a deferral. AWEC will expand on these arguments in briefing. My
12 testimony shows that, regardless of the legal hurdles to PGE's request, its petition also
13 does not meet the Commission's discretionary standard for granting a deferral, a standard
14 that is well grounded in regulatory policy.

15 The UE 335 Commission order stated an openness to consider a deferral of the
16 2017 Level III storm if the costs were shown to be extreme or a result of climate change
17 causing greater storm intensity.^{1/} PGE has failed to demonstrate the former and never
18 discussed the latter. While I recommend against it for reasons discussed below, if the
19 Commission is to consider the magnitude of PGE's Level III storm costs relative to
20 previous years' storm costs rather than relative to its costs overall, then with regard to an

^{1/} Docket No. UE 335, Order 18-464 at 14 (Dec. 14, 2018).

1 extreme storm event, the threshold for a deferral should be costs that at least exceed \$8.6
2 million. PGE requests a deferral of only \$8 million.

3 Additionally, in the event the Commission declines to approve PGE's application,
4 I recommend the Commission direct PGE to accrue a credit, with interest, of \$100,000
5 annually, for later return to customers.^{2/}

6 Finally, in the event the Commission approves PGE's application to defer a
7 portion of 2017 Level III storm costs, the Commission should direct PGE to recalculate
8 the 10-year Level III storm cost average excluding the portion of the 2017 Level III storm
9 costs allowed to be deferred, consistent with the methodology adopted in UM 1234, and
10 accrue the difference from the \$3.8 million that is currently in rates, with interest, for
11 later return to PGE customers.^{3/}

12 II. DISCUSSION

13 Q. PLEASE DESCRIBE THE REGULATORY RATE MECHANISM THAT 14 RELATES TO PGE LEVEL III STORM COSTS.

15 A. PGE's Level III storm accrual mechanism was adopted in Docket No. UE 215
16 (Commission Order No. 10-478), and applies to Level III storm restoration costs. Under
17 the rate mechanism, PGE accrues an amount of expected Level III storm costs equal to a

^{2/} The \$100,000 value is derived using PGE's corrected 2017 Level III storm costs of \$10.6 million, versus the \$11.4 million value used in UE 335. The revised 10-year Level III storm costs average is \$3.7 million. The UE 335 Order adopted a 10-year Level III Storm cost average of \$3.8 million based on an incorrect 2017 Level III storm cost of \$11.4 million. The \$100,000 value is calculated as the difference between \$3.8 million and \$3.7 million.

^{3/} In PGE's response to AWEC Data Request 002, attached hereto as AWEC/102, PGE provided an updated amount of calendar 2017 Level III storm total costs of \$10.6 million, while the UE 335 2017 value was \$11.4 million and used to derive the 10-year average value. The \$11.4 million is escalated to 2019 dollars for purposes of deriving the \$3.8 million average. The revised 10-year average Level III storm costs for use in UE 335 is \$2.6 million using a \$0 value for 2017 Level III storm costs.

1 10-year rolling average of PGE-recorded Level III storm costs. The rate mechanism
2 allows positive, unspent balances to carry forward to future years. So, if the 10-year
3 average of Level III storm costs was \$2 million and PGE did not incur any Level III
4 storm damage costs in a year (call it the first year), the full \$2 million would be available
5 to meet future Level III storm costs. Now assume in this illustrative example that in the
6 following year (second year), Level III storm costs were \$3 million. PGE would have the
7 10-year average of \$2 million plus the \$2 million carry-forward from the previous year.
8 That means there would be \$1 million carry forward to the following year (third year).
9 $(\$2 + \$2 - \$3 = \$1)$ The discussion excludes interest for ease of discussion.

10 It should be pointed out, however, that the Level III storm accrual mechanism
11 does not allow for negative balances. The lowest value for the account is zero.
12 Therefore, in the prior example, if in that second year, instead of Level III storm costs of
13 \$3 million, the Level III storm costs were \$9 million, PGE shareholders would absorb \$5
14 million. $(\$2 + \$2 - \$9 = -\$5)$

15 This latter scenario is essentially what happened in 2017. PGE's filing is seeking
16 Commission approval to defer \$8 million.^{4/} PGE's Direct Testimony, Nicholson-
17 Bekkedahl, page 3, lines 10-16, states that the 10-year average at the time for calendar
18 year 2017 was \$2 million. From PGE's testimony it appears that there were not any
19 monies carried over to 2017. PGE states it incurred \$10.6 million in 2017 Level III storm
20 costs.^{5/} After subtracting the \$2 million 10-year average included in rates, and a total of

^{4/} In response to AWEC Data Request 001, PGE states that its \$9.4 million amount is not correct. See
AWEC/102 at 1-2.

^{5/} PGE/100, Nicholson-Bekkedahl/4, line 2.

1 \$10 million in costs incurred by the date of filing its deferral application, PGE still has a
2 remaining \$8 million it is seeking approval to defer in this UM 1817 filing.^{6/}

3 **Q. PLEASE PROVIDE SOME BACKGROUND ON THIS DOCKET.**

4 A. PGE filed its application in this docket on January 11, 2017. Subsequently, PGE filed a
5 rate case in 2018, docketed as UE 335, where the 2017 Level III storm costs were
6 addressed. In that docket, and as argued in brief, PGE proposed that its accrual
7 mechanism for Level III storm costs described above be revised to allow negative
8 balances to be carried over to future years – that is, to create a balancing account rather
9 than an accrual. The Commission order in that docket concluded the following:

10 *We reject PGE's proposal, but we invite the company to return with an*
11 *alternative that provides more justification, and a chain of causation*
12 *justifying the change. Additionally, we commit to examine and resolve*
13 *PGE's 2017 major storm deferral request and require that Staff bring that*
14 *request before us within three months. We observe that Level III storm*
15 *costs that can be justified as extreme may warrant a deferral under ORS*
16 *757.259(2)(e). We have held in the past that the magnitude of harm*
17 *associated with an unforeseen event, or an event that cannot be effectively*
18 *modelled, may justify an exercise of our discretion to authorize deferred*
19 *accounting. Any request for an alternative Level III storm deferral*
20 *mechanism based, in part, on claims of greater storm intensity due to*
21 *climate change, however, should include some foundational analysis to*
22 *justify this claim, and provide a chain of causation that connects evidence*
23 *of expected increases in storm frequency and intensity to increased costs.*
24 *There are implications in the record that the frequency and intensity of*
25 *storms is being driven by climate change, yet this conclusion, while*
26 *intuitively attractive, is not supported by evidence in the record for this*
27 *case. While storm modeling is even more uncertain than the temperature*
28 *modeling discussed above, we welcome a full discussion of both the*
29 *modeling and the uncertainties around analysis specific to this region. As*
30 *PGE works to refine and improve its proposals for major storm recovery,*
31 *PGE should also work to ensure that there is balance in the mechanism*
32 *that operates to encourage PGE to develop a robust and resilient*

^{6/} PGE/100, Nicholson-Bekkedahl/1, line 11.

1 *distribution system. Adapting to climate change should be a holistic*
2 *undertaking in that recovery costs from more frequent high-impact events*
3 *are balanced with investments and practices that mitigate the negative*
4 *consequences from those events. If PGE's proposal will increase the ease*
5 *of recovery of Level III storm costs for the company, PGE must explain*
6 *and discuss the allocation of risks with customers and company incentives*
7 *for developing a more resilient system that requires less expense to*
8 *recover from Level III storms.*^{7/}

9 Following this order, the Commission opened a contested case in this docket. PGE filed
10 its Direct Testimony on March 27, 2019. On April 10, 2019, I received PGE's response
11 to AWEC Data Request ("DR") 001, included in the attached Exhibit AWEC/102, where
12 PGE noted a few errors. PGE filed revisions to its originally filed testimony on April 12,
13 2019. In its revised testimony, PGE is now requesting to defer \$8 million, which is net of
14 the \$2 million it recovered in 2017 from its storm accrual mechanism, which I discuss
15 below.

16 **Q. DOES PGE'S TESTIMONY PROVIDE ADDITIONAL EVIDENCE ON**
17 **WHETHER ITS 2017 LEVEL III STORM COSTS WERE DRIVEN BY**
18 **CLIMATE CHANGE?**

19
20 A. No. PGE chose not to address that broader issue in this docket. I did not see the word
21 "climate" anywhere in the text of PGE's testimony of Nicholson-Bekkedahl. Indeed,
22 PGE's response to AWEC DR 002 provides its Level III Storm costs for the past 20
23 years. Over this period, storm costs have been consistently sporadic with a few years in a
24 row with no Level III Storms, followed by a few years in a row with Level III storms
25 with no clear pattern or frequency. Additionally, while PGE did incur higher than
26 average Level III storm costs in 2017, it incurred none in 2018. Thus, to the extent the

^{7/} Docket No. UE 335, Order 18-464 at 14.

1 Commission wishes to examine the connection between storm costs and climate change,
2 it should do so outside of this docket and limit its inquiry here to the appropriateness of
3 PGE's request to defer \$8 million in storm-related costs.

4 **Q. DO YOU HAVE MUCH EXPERIENCE WITH THE COMMISSION'S**
5 **TREATMENT OF DEFERRED ACCOUNTING PETITIONS?**

6 A. Yes. In my 38 years employed with the Commission I reviewed or oversaw the
7 disposition of dozens of deferred accounting petitions.

8 **Q. IN YOUR EXTENSIVE EXPERIENCE, WHAT IS THE MOST IMPORTANT**
9 **CONSIDERATION IN WHETHER THE COMMISSION GRANTS OR DENIES A**
10 **DEFERRED ACCOUNTING PETITION?**

11 A. Deferred accounting petitions are filed for different reasons. Sometimes it is because
12 they are authorized under federal or state law or by a stipulation that the Commission has
13 approved. Absent that circumstance, however, the most important consideration has
14 traditionally been the financial impact to the utility. For example, deferrals that come to
15 mind have been filed for poor hydroelectric conditions, extended power plant outages or
16 changes in pension costs.

17 **Q. DOES THE FINANCIAL IMPACT TO THE UTILITY DEPEND ON THE TYPE**
18 **OF COST INVOLVED? IN OTHER WORDS, PGE IS REQUESTING**
19 **RECOVERY OF STORM-RELATED COSTS. WOULD THE ANALYSIS BE**
20 **DIFFERENT IF IT WERE SEEKING RECOVERY OF EMPLOYMENT-**
21 **RELATED COSTS SUCH AS PENSIONS?**

22 A. The Commission has made a distinction between costs that are the result of a "stochastic
23 risk" and costs that are the result of a "scenario risk," which I will discuss in more detail
24 below. Other than that distinction, however, the type of cost incurred has been, and
25 should be, irrelevant. This is because rates are set on overall projected revenue
26 requirements, keeping in mind that Oregon has a long tradition of using future test

1 periods. When setting rates, it is generally understood that some forecasted costs will
2 turn out to be higher than actual and some forecasted costs will be lower than actual. The
3 purpose of setting rates is to provide the utility sufficient revenue *overall* to have the
4 opportunity to earn its authorized rate of return. It is to the benefit of all parties that we
5 look at the totality of rates because parties might not agree on individual issues within the
6 case. Settlements often bundle issues together for that very reason—namely, parties can
7 support the package on a revenue requirements or expense basis, while not agreeing to
8 the specific level of each item. And again, with this in mind, it is certainly not expected
9 that a specific cost turns out to be exactly as forecast.

10 **Q. DOES THE COMMISSION’S ORDER IN UE 335 SUGGEST A DEVIATION**
11 **FROM THIS PRECEDENT OF LOOKING TO THE FINANCIAL IMPACT OF**
12 **THE UTILITY OVERALL?**

13 A. Possibly. The Commission’s statement that “Level III storm costs that can be justified as
14 extreme may warrant a deferral” could be interpreted to mean that higher-than-normal
15 storm costs may be eligible for deferred accounting, even if they do not significantly
16 impact PGE financially overall. For the reasons discussed above, I recommend against
17 the Commission changing its policy in this way, and continue to focus on the overall
18 financial impact of the cost in question, and whether the cost is related to a stochastic or
19 scenario risk.

20 **Q. PLEASE DISCUSS HOW THE COMMISSION HAS CHARACTERIZED**
21 **STOCHASTIC AND SCENARIO RISKS AND HOW IT HAS TREATED COSTS**
22 **INCURRED FROM THESE RISKS.**

23 A. Stochastic risks are risks that relate to typical business events or operations. The values
24 or observations such as costs incurred in a year, or for an event, fall within a range of

1 expected values.^{8/} So, for example, if we are looking at an event, the question would be
2 two-fold. Is the event to be reasonably expected to occur; and, if not, are the dollar
3 impacts significant. Both factors would be considered. I think Dockets UM 1234 and
4 UM 1623 are fairly instructive as examples delineating stochastic from scenario risks.

5 In UM 1234, the Commission defined stochastic and scenario risks. An excerpt
6 from the Order 07-049 is provided below:

7 *In Order No. 04-108, we explained that a stochastic risk can be predicted*
8 *to occur as part of the normal course of events, whereas a scenario risk is*
9 *not susceptible to prediction or quantification. In Order No. 05-1070, we*
10 *further explained that we consider whether a deferral event was modeled*
11 *in rates. If an event was modeled in rates, we evaluate whether the event*
12 *was within a foreseen range of risk, or whether extenuating circumstances*
13 *were involved that rendered the event unforeseeable. If the event was not*
14 *modeled in rates, we assess whether it was otherwise foreseeable in the*
15 *normal course of business.*^{9/}
16

17 Additionally, also in UM 1234, Commission Staff provided an illustrative table to help
18 distinguish between stochastic and scenario risks. The table below comes from Page 15
19 of the Owings-Galbraith Staff Reply Testimony in Docket UM 1234.

^{8/} See Docket UM 1234, Staff/100, Owings-Galbraith/13, beginning at line 20.

^{9/} Docket UM 1234, Order 07-049 at 9 (Feb. 12, 2007).

Table 3. Under What Circumstances Does the Commission Consider a Deferral?

| | Type of Event | | Commission Approved (5)(6) |
|-------------|-------------------------|-------------------------|----------------------------|
| | Stochastic Risk (1)(2) | Scenario Risk (3)(4) | |
| Substantial | Deferral Considered (7) | Deferral Considered | Deferral Considered |
| Material | Deferral Not Considered | Deferral Considered | Deferral Considered |
| Immaterial | Deferral Not Considered | Deferral Not Considered | Deferral Considered |

- (1) Stochastic risk is defined as a risk that can be predicted as part of the normal course of events; it is quantifiable and can be represented by a known statistical distribution (Order 04-108).
- (2) Examples of stochastic risk are hydro variability, normal plant outages, employee compensation, and weather.
- (3) Scenario risk is defined as a risk that is not susceptible to prediction and quantification; it is often represented by abrupt changes in business factors or practices (Order 04-108).
- (4) Examples of scenario risk are catastrophic plant outages (Trojan), environmental costs, and material unexpected changes to costs.
- (5) These events are either mandated, pursuant to Commission approval, or emerging from a rate case settlement.
- (6) Examples of these events are DSM costs, a PGA, and intervenor funding.
- (7) Event should be extraordinary.

1 So, a scenario risk can be a special variant of a stochastic risk if the event could not be
2 reasonably expected. In the event we have a scenario risk, if the costs incurred are
3 material, the Commission could consider granting a deferral. In the case of UM 1234,
4 relating to a 105-day outage, the Commission found that it was not reasonably expected,
5 the costs were material, and granted PGE’s application to defer \$26.439 million. Note
6 that \$26.439 million is over three times the amount PGE seeks to defer in this docket, and

1 PGE's deferral in UM 1234 was granted over ten years ago, when \$26 million was worth
2 more than it is today.

3 With regards to UM 1623, the Commission found that PGE's application to defer
4 pension costs failed to meet the deferral statute requirement of minimizing rate changes
5 or matching of costs and benefits. Further, the Commission found that even if it did meet
6 the statutory test, as a stochastic risk, the financial impact of 86 basis points was not
7 sufficient to warrant cost recovery. In that case, PGE sought recovery of \$16.4 million,
8 over twice what it requests in this docket.^{10/}

9 **Q. HOW DID PGE CATEGORIZE THE 2017 LEVEL III STORM COSTS?**

10 A. PGE categorizes the 2017 Level III storm costs as scenario or paradigm risks. I should
11 point out that in PGE's request for reconsideration of the UM 1071 Order, PGE stated
12 that the hydro conditions for which it was seeking a deferral were not stochastic but were
13 scenario or paradigm risks as well.^{11/} The UM 1071 Order on reconsideration concluded
14 that the hydro risk was stochastic.^{12/}

15 **Q. DO YOU AGREE WITH PGE THAT LEVEL III STORM COSTS ARE**
16 **SCENARIO OR PARADIGM COSTS AND NOT STOCHASTIC?**

17 A. I view the Level III storm costs as stochastic in nature. Stochastic risk means that there is
18 a distribution of costs around some average. Sometimes costs are higher than normal.
19 Sometimes costs are less than normal. That is the case here. PGE's response to AWEC
20 DR 002 confirms this, as PGE has incurred at least some amount of Level III storm costs
21 in 9 of the past 20 years, nearly every other year. The Level III storm costs are higher in

^{10/} Docket UM 1623, Order No. 16-257 at 2 (July 7, 2016).

^{11/} Docket UM 1071, Order 04-357 at 6 (June 25, 2004).

^{12/} Id. at 10.

1 some years and lower in others. The set of various Level III storm costs across the years
2 form a distribution. Not only that, but PGE collects a special accrual from customers
3 based on the historical average of storm costs around which there is a stochastic
4 distribution. I do not, therefore, see a fundamental distinction between the Level III
5 storm costs and hydroelectric variability that would render Level III storm costs a
6 scenario rather than stochastic risk.

7 **Q. WHAT IS YOUR PERSPECTIVE ON WHY GRANTING DEFERRED**
8 **ACCOUNTING APPLICATIONS SHOULD BE CAREFULLY CONSIDERED,**
9 **ESPECIALLY WHEN DEALING WITH STOCHASTIC COSTS?**

10 A. Having the opportunity for utilities to file for deferrals when costs are more than normal,
11 especially when they are not financially significant, provides an unfair advantage to the
12 utility. The utility knows its actual costs much better than interested parties. The utility
13 will be able to file for recovery of higher-than-expected costs at a much higher frequency
14 than other parties would be aware enough to file for deferrals to refund monies to
15 customers. There could be one event that has significant negative financial impact that is
16 offset by several smaller events of positive financial impacts.

17 In addition, providing utilities the opportunity to file deferrals for costs following
18 a stochastic pattern reduces the incentive for utilities to manage costs. Even if events are
19 outside of the utility's control, such as the weather, this does not mean the utility is
20 powerless to manage the potential costs. For example, the utility can "harden" its
21 facilities, timely manage vegetation through tree trimming, and underground facilities
22 when it is sensible to do so.

1 **Q. HAS THE COMMISSION EVER IDENTIFIED A BRIGHT LINE AMOUNT FOR**
2 **DETERMINING WHETHER A COST IS ELIGIBLE FOR DEFERRED**
3 **ACCOUNTING?**

4 A. No, the Commission has (appropriately, in my mind) maintained its discretion in
5 determining whether a cost is high enough to meet the “substantial” or “significant”
6 thresholds for stochastic and scenario risks, respectively. It has, however, provided
7 guidance that can be used in this case. As noted above, the Commission has granted
8 deferrals of costs associated with scenario risks of \$26 million in 2007, but has denied
9 deferrals of costs associated with stochastic risks of \$31.6 million in 2004 and \$16.4
10 million in 2016.^{13/} In this latter example, the Commission stated, on page 4 of Order 16-
11 257, that the impact in 2013 (the year most of the costs subject to PGE’s deferral were
12 incurred) was 86 basis points, “well within the bounds of acceptable risks between rate
13 cases.” Furthermore, on page 19 of Order 07-049, it appears to me that the Commission
14 set a materiality threshold of 100 basis points. I provide the text of the relevant section
15 on the order below.

16 *For the Boardman Outage, we find the appropriate measure of normal*
17 *risk to be the range of foreseeability we earlier defined as a reasonable*
18 *deviation range around the pertinent forced outage rate. We find that PGE*
19 *should not be allowed to defer costs that would likely be associated with*
20 *an outage within this range of normal risk. However, as parties did not*
21 *present evidence in this proceeding that would allow us to explicitly*
22 *calculate this level of costs, we find it appropriate to approximate the*
23 *financial impact of this range of risk. We determine that a 100 basis point*
24 *deadband on ROE should be applied to costs eligible for deferral.*
25

^{13/} Docket No. UM 1071, Order No. 04-108 at 9 (Mar. 2, 2004); Order No. 16-257 at 2.

1 **Q. BASED ON COMMISSION PRECEDENT, ARE PGE’S 2017 LEVEL III STORM**
2 **COSTS ELIGIBLE FOR DEFERRED ACCOUNTING EVEN IF THE**
3 **COMMISSION AGREES WITH PGE THAT STORM COSTS REPRESENT A**
4 **SCENARIO RISK?**

5 A. No. Regardless of whether storm costs are considered to be a “stochastic” or “scenario”
6 risk, \$8 million is not a significant enough financial impact to warrant a deferral under
7 any circumstances. In Response to AWEC DR 007, Attachment A, as well as the
8 discussion on lines 6 and 9 of Page 14 of the revised Direct Testimony of Nicholson-
9 Bekkedahl, the ROE impact of the 2017 Level III storm costs was 36 basis points.^{14/}
10 Because 36 basis points is far less than the Order 07-049 materiality threshold of 100
11 basis points for scenario events, the PGE deferral application should be denied, regardless
12 of whether the Commission determines 2017 Level III storm costs to be a stochastic or
13 scenario event. In fact, PGE has never incurred storm costs in the past 20 years that are
14 significant enough to warrant a deferral.

15 **Q. DOES THIS INDICATE A FLAW IN COMMISSION PRECEDENT ON**
16 **DEFERRALS?**

17 A. No, it simply shows that some categories of costs are not large enough in the context of
18 PGE’s overall revenue requirement to be eligible for deferrals. That is, in fact, my
19 understanding of why PGE has a special cost recovery mechanism for storm costs today.
20 That mechanism is designed to insulate PGE from some amount of risk associated with
21 Level III storms that would not otherwise be eligible for deferred accounting.

^{14/} See AWEC/102 at 7-8.

1 **Q. DOES PGE'S STORM ACCRUAL MECHANISM MAKE IT MORE OR LESS**
2 **APPROPRIATE TO AUTHORIZE DEFERRED ACCOUNTING FOR ITS 2017**
3 **LEVEL III STORM COSTS?**

4 A. It makes it less appropriate because PGE already has a mechanism that reduces its risk
5 related to these storm costs and provides it with a level of recovery that balances
6 customer and utility risk and does not disincentivize PGE from investing in distribution
7 system resiliency.

8 Additionally, in the UM 1234 Order, the Commission made it clear that events
9 that do qualify for deferred accounting should not be included in any multi-year average
10 ratemaking mechanism. Meaning that the 105-day Boardman plant outage should not be
11 used to determine the moving average forced outage rate. Given that the 2017 Level III
12 storm costs were included in calculating the 10-year average for the accrual mechanism,
13 it would be inconsistent to also grant a deferral for the 2017 Level III storm costs. I
14 assume the UE 335 Order, while it included the 2017 Level III storm costs in the 10-year
15 moving average for rates purposes, was not expressly changing the Commission's
16 reasoning in the UM 1234 Order.

17 **Q. WHAT ABOUT THE OTHER PGE POINT THAT THE DEFERRAL WILL**
18 **APPROPRIATELY MATCH THE COSTS BORNE AND THE BENEFITS**
19 **RECEIVED BY CUSTOMERS?**

20 A. I do not believe this objective is met either. I do not see in the application or testimony
21 where PGE states any analysis or proposal to have the rates charged to those customers
22 that had storm electric outages and benefited by having service restored. Rather,
23 presumably the rates would be charged to all customers with the likely spread consistent
24 with distribution services revenue requirement given that it is damage primarily or solely

1 to distribution customers. Furthermore, PGE failed to provide any information on the
2 likelihood that the customers experiencing the outage in 2017 are still PGE customers. If
3 PGE was authorized to defer, and collect the costs in rates, PGE would charge new
4 customers costs associated with the 2017 costs. Those new customers did not benefit
5 from the system restoration and yet are being charged for the costs.

6 **Q. DO YOU BELIEVE THAT PGE HAS MORE INCENTIVE TO “HARDEN”**
7 **SERVICE EQUIPMENT IF PGE HAS EXPOSURE TO LEVEL III STORM**
8 **COSTS?**

9 A. Yes. To the extent the Company has exposure to costs, it is reasonable to conclude that it
10 will take actions to mitigate those costs from occurring. This includes taking the actions
11 noted in the PGE testimony, which it is taking under the current regulatory construct in
12 which it bears some risk for storm-related costs. PGE does not testify that it would make
13 the same investments if this risk were eliminated or significantly mitigated.

14 **Q. IF THE COMMISSION FOUND THAT A DEFERRAL SHOULD BE**
15 **AUTHORIZED, DOES THAT MEAN THAT THE PGE-REQUESTED FULL \$8**
16 **MILLION SHOULD BE DEFERRED?**

17 A. No. Part of PGE’s argument is that the 2017 Level III storm costs are extraordinary and
18 as such should be deferrable for later recovery. However, I do not agree with PGE’s
19 analysis as to the amount that should be deferred. To get to the revised request of \$8
20 million, PGE took the revised deferral request base of \$10 million, and subtracted the
21 amount recovered in rates of \$2 million to yield the \$8 million value.

1 **Q. WHAT IS YOUR DISAGREEMENT WITH THIS CALCULATION AS IT SEEMS**
2 **FAIRLY STRAIGHT-FORWARD.**

3 A. The issue I have with the calculation is the notion that you defer the full difference from
4 the average – the \$8 million. What should be deferred should be the amount that is
5 extreme. Any amount that is not extreme should be excluded from the deferral. For
6 example, let us assume that the 2017 Level III storm damage cost was \$5 million. Would
7 PGE have asked for deferral and rate recovery, and received approval from the
8 Commission? I think not. If PGE should not, from a deferral perspective, get cost
9 recovery for the first \$3 million above the ten-year average of \$2 million, why should
10 PGE recover the first \$3 million above the \$2 million average when Level III Storm costs
11 are \$10 million? PGE’s request creates a perverse incentive where higher storm damage
12 costs gets PGE 100 percent recovery while lower storm damage costs results in no
13 recovery. This would actually incentivize PGE to incur greater costs in responding to a
14 Level III storm whenever costs are approaching the triggering level where the
15 Commission is supportive of a deferral application.

16 **Q. IS THE LOGIC OF ESSENTIALLY A DEAD-BAND AROUND AN AVERAGE**
17 **SUPPORTED BY ANY OPUC ORDER?**

18 A. Yes. As discussed earlier, Order 07-049, in Docket UM 1234, concerns a Boardman
19 outage. The Commission supported the deferral application because the Boardman
20 outage could not reasonably be predicted and therefore classified the event as a scenario
21 risk. In deciding how much of the deferral application to grant, the Commission decided
22 that the amount of risk the utility normally would absorb should be excluded from the
23 request. The text from that order is presented below:

1 *If an event is deemed a scenario risk because it is outside a range of*
2 *normal risk, we find that it is appropriate to apply a measure of normal*
3 *risk when allocating, for deferral purposes, the costs associated with the*
4 *event. We recognize, however, that the proposed 250 basis points*
5 *deadband on ROE may not be the appropriate measure of normal*
6 *risk to be applied in such a case. Rather, we find that the measure of*
7 *normal risk applied to a scenario event should be contextual, reflecting*
8 *the pertinent range of risk, and considering whether the scenario event is*
9 *isolated, or combined with another scenario event or other extenuating*
10 *circumstances.*

11
12 *For the Boardman Outage, we find the appropriate measure of normal*
13 *risk to be the range of foreseeability we earlier defined as a reasonable*
14 *deviation range around the pertinent forced outage rate. We find that PGE*
15 *should not be allowed to defer costs that would likely be associated with*
16 *an outage within this range of normal risk. However, as parties did not*
17 *present evidence in this proceeding that would allow us to explicitly*
18 *calculate this level of costs, we find it appropriate to approximate the*
19 *financial impact of this range of risk. We determine that a 100 basis point*
20 *deadband on ROE should be applied to costs eligible for deferral.^{15/}*
21

22 It is clear from this order that in UM 1817, PGE should not be allowed to defer the full \$8
23 million as some level of the amounts above the 10-year average amount of \$2 million is
24 normal risk and variation and so should not be included in the deferral amounts.

25 **Q. IF THE COMMISSION DETERMINES TO COMPARE THE MAGNITUDE OF**
26 **2017 LEVEL III STORM COSTS WITH PREVIOUS YEARS' STORM COSTS**
27 **TO DETERMINE A DEFERRAL THRESHOLD, HOW SHOULD THE**
28 **COMMISSION DEVELOP THAT THRESHOLD?**

29 A. It should be based on the standard deviation from average Level III storm costs. It is a
30 generally accepted principle in statistics that data points that fall more than two standard
31 deviations away from the mean would not be expected – they are considered outliers, or
32 in the Commission's language from UE 335, "extreme." Thus, if the Commission is to

^{15/} Order 07-049 at 19.

1 consider granting a deferral based on a comparison of 2017 Level II storm costs with
2 average Level III storm costs, it should only allow recovery of costs that fall outside of
3 two standard deviations from the mean.

4 **Q. WHAT IS THE STANDARD DEVIATION OF LEVEL III STORM COSTS?**

5 A. The standard deviation in PGE-provided Level III storm cost history is \$3.2 million, and
6 the amount that represents two standard deviations from the average storm cost is \$8.6
7 million. For this application, I analyzed the Level III storm history, in constant dollars, to
8 see what the standard deviation was in Level III storm costs. PGE provided this
9 information in response to AWEC DR 002. A copy of PGE's response to the relevant
10 portions of AWEC DR 002 is attached as AWEC/102, Hellman/3-5.

11 **Q. WHAT DOES THAT IMPLY FOR THIS DEFERRAL APPLICATION?**

12 A. If the Commission were to grant the application, then the 2017 Level III storm costs
13 overall, at \$10.6 million, do fall outside of two standard deviations and could be
14 considered an outlier. This would indicate that PGE could defer \$2 million, as this
15 represents the amount above the \$8.6 million "dead band" that represents two standard
16 deviations from the mean. However, because only \$10 million of these costs is subject to
17 PGE's application, and it has already recovered \$2 million of these costs through its
18 storm accrual mechanism, PGE is only seeking recovery of \$8 million.

19 For clarity, I wish to reiterate that I believe the Commission should look primarily
20 to the financial impact on the utility overall and not to the magnitude of storm costs in
21 particular. However, even if the Commission were to measure the impact of PGE's 2017
22 Level III storm costs relative to prior years' Level III storm costs in determining whether

1 to grant a deferral, my analysis above shows that a deferral is unwarranted here even by
2 this measure, as PGE seeks recovery of costs that represent less than two standard
3 deviations from the average amount of Level III storm costs.

4 **Q. SHOULD THE NUMBER OF DEFERRALS PGE HAS OUTSTANDING BEFORE**
5 **THE COMMISSION IMPACT ITS DECISION IN THIS DOCKET?**

6 A. In my opinion, this is a clear-cut case where no deferral is warranted. However, to the
7 extent the Commission is “on the fence” about whether a deferral is warranted here, the
8 number of other deferrals PGE has filed in recent years should further influence the
9 Commission to deny this one. PGE notes 17 different open deferrals in its testimony and
10 response to AWEC DR 10.^{16/} A few of these, like for intervenor funding or power costs
11 for qualifying facilities, are explicitly authorized by Oregon law or an approved
12 stipulation. For most, however, PGE appears to have inferred this type of authorization
13 without it being expressly granted. For instance, PGE cites the Commission’s order
14 acknowledging its 2016 integrated resource plan as the authority to defer costs associated
15 with its demand response testbed pilot.^{17/} That order, of course, simply acknowledged
16 PGE’s action plan to acquire a certain amount of demand response and did not say
17 anything about authorizing deferred accounting for the associated costs.^{18/} Similarly,
18 PGE cites SB 1547 for authority to defer community solar start-up costs and electric

^{16/} AWEC/102 at 8-9 (PGE Resp. to AWEC DR 10, Attach. A).

^{17/} Id.

^{18/} Docket No. LC 66, Order No. 17-386 at 9 (Oct. 9, 2017).

1 vehicle pilot program costs.^{19/} That law, however, only authorizes recovery of costs from
2 customers, but says nothing about deferred accounting.^{20/} This is in notable contrast to
3 ORS 757.072(4), which requires the Commission to “allow a public utility to defer
4 inclusion of [financial assistance] amounts in rates as provided in ORS 757.259.” PGE
5 can recover costs by filing a rate case, so a statute authorizing recovery does not, by
6 itself, authorize a deferral. By interpreting these and similar orders and statutes in this
7 way, PGE proposes to eliminate its risk with as many categories of costs as possible.
8 This makes it all the more important that PGE bear normal risks of utility operation, like
9 those associated with storms.

10 **Q. DO YOU HAVE ANY REMAINING ISSUES TO DISCUSS?**

11 A. Yes. PGE is over-recovering the Level III storm cost amount included in rates as
12 established in UE 335. Currently, rates have a value of \$3.8 million.^{21/} This \$3.8 million
13 value calculation is shown in UE 335, PGE/801, Nicholson-Bekkedahl/1.^{22/}

14 PGE provided an updated PGE 2017 Level III storm damage cost of \$10.6, which
15 when escalated by inflation yields a value of \$11.1 million. This is lower than the PGE
16 UE 335 Exhibit 801 similar value of \$11.9 million. The ten-year average Level III storm
17 costs changes when the 2017 value changes.

^{19/} AWEC/102 at 8-9 (PGE Resp. to AWEC DR 10, Attach. A).

^{20/} ORS 757.386(7)(c); 757.357(5).

^{21/} PGE/100 at 3, fn. 3.

^{22/} See AWEC/103 at 1.

1 **Q. WHAT IS THE 10-YEAR AVERAGE USING PGE’S UPDATED VALUES?**

2 A. The updated value is \$3.7 million. That means rates are over-collecting \$100,000 on an
3 annual basis. I recommend the Commission direct PGE to return the over-collected
4 amounts with interest.

5 **Q. IN THE EVENT THE COMMISSION AUTHORIZES THE DEFERRAL, WOULD
6 THAT IMPACT THE 10-YEAR AVERAGE LEVEL III STORM DAMAGE COST
7 AS ADOPTED IN UE 335?**

8 A. Yes. As noted earlier, the order in UM 1234, Order 07-049, infers that if an event
9 qualifies as appropriate for deferral, then that event should be removed from other related
10 mechanisms, such as the average forced outage rate, so as to not allow for double
11 recovery. This means that if the Commission were to approve the deferral application,
12 the 2017 Level III storm costs needs to be removed, or revised, from the ten-year moving
13 average of Level III storm costs.

14 **Q. HAVE YOU DONE THAT CALCULATION?**

15 A. Yes. Assuming the 2017 Level III storm cost is zero for purposes of calculating the 10-
16 year moving average, the new 10-year Level III Storm cost average is \$2.6 million.^{23/}
17 Given that UE 335 rates have a value of \$3.8 million included in rates, PGE should
18 accrue with interest and return to customers the overcharges that amount to \$1.2 million
19 annually.

20 **Q. DO YOU HAVE ANY FINAL REMARKS?**

21 A. Yes. I appreciate PGE’s forthrightness in both investigating and identifying its error in
22 total 2017 Level III storm damage costs. PGE could have chosen not to investigate this

^{23/} I should note that assuming 2017 Level III storm costs equal to zero is reasonable given the fact that in many of the past years, Level III storm costs are zero, and were zero in 2018.

1 matter thoroughly. PGE should be commended for being diligent and forthright in
2 including the correction in its responses to AWEC data requests.

3 **Q. DOES THAT CONCLUDE YOUR TESTIMONY?**

4 A. Yes.

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

UM 1817

In the Matter of)
PORTLAND GENERAL ELECTRIC)
COMPANY,)
Application for the Deferral of Storm-Related)
Restoration Costs.)
_____)

EXHIBIT AWEC/101

QUALIFICATION STATEMENT OF DR. MARC M. HELLMAN

Marc Hellman, PhD.

Witness on Behalf of Alliance of Western Energy Consumers

2760 Eagle Eye Ave NW

Salem, Oregon 97304

WORK EXPERIENCE

Dr. Hellman, of MH Energy Economics LLC, has nearly 40 years' experience in the field of regulatory economics and has consulted for telecommunications and electric industries as well as Boeing Computer Services. Beginning in 1979, Dr. Hellman was employed by the Public Utility Commission of Oregon (OPUC) in various capacities and has specialized in cost-based pricing and revenue requirements analysis for electric, natural gas, telecommunications and water industries. Up to September 2017, Dr. Hellman was Administrator of the Energy Rates, Finance and Audit Division and managed over a dozen expert staff of economists, accountants, and financial analysts dedicated to conducting a wide range of research on such matters including: utility cost of capital, utility financing applications, rate spread and rate design, utility merger and acquisitions, as well as conducting utility audits and benchmarking studies. In 2013, Dr. Hellman was appointed to advise the Oregon Governor's Office on the Columbia River Treaty review. Dr. Hellman received his PhD in Economics from Claremont Graduate School in 1983, and from 2008 through September 2016, was an instructor at Oregon State University teaching micro and macroeconomics as well as energy economics. Dr. Hellman has also recently provided consulting services for the Commonwealth Utilities Corporation with headquarters in Saipan, the Smart Energy Alliance in a Nevada Power general rate filing before the Nevada Commission, and the South Dakota Intrastate Pipeline Company.

Major Regulatory Studies and Reports

Public Utility Commission of Oregon, – chaired the water industry stakeholder workgroup and led discussions reviewing in total, both in scope of regulation and funding, the Commission Water Regulation Program, with the production of the report titled, "Review of the Oregon Public Utility Commission's Water Program," August 2002.

Public Utility Commission of Oregon, – authored major electric industry restructuring testimony presented before the Oregon Legislature, July 1997.

Public Utility Commission of Oregon, – led and directed Commission staff in reviews of several utility mergers and acquisitions including ScottishPower acquisition of PacifiCorp and Mid American holdings acquisition of PacifiCorp.

Public Utility Commission of Oregon, – led the first known study establishing estimates of unbundled network elements, memorialized in the report titled, "Telecommunications Building Blocks, Cost Report," July 1993.

Public Utility Commission of Oregon, – designed policies to address ratemaking treatment for research and development activities by Advanced Technologies, a fully owned subsidiary of US West, "Alternative Regulatory Policies for Telecommunications Utilities' Research and Development Costs," May 1992.

Public Utility Commission of Oregon, – analyzed and scored many alternative ratemaking mechanisms geared to incent electric utilities to acquire cost-effective conservation, "Investigation into Electric Utility Incentives for Acquisition of Conservation Resources," August 1991.

Public Utility Commission of Oregon, – as a precursor to integrated least cost planning, authored the report titled, "The 1989 Update to a Report on the PGE and PP&L Energy Surplus: Its Size, Duration, and Management," September 1988, as well as, "A Report on the PGE and PP&L Energy Surplus: Its Size, Duration, and Management," September 1989.

Expert Witness Testimony

Public Utility Commission of Oregon (Bonneville Power Administration Docket REP-12), – select panel testimony in support of a \$2 billion settlement of statutory rights to low-cost federal power. 2011

Public Utility Commission of Oregon (Bonneville Power Administration Docket WP-10), – analysis of statutory test that limits access to low-cost federal power by residential and small-farm customers of investor-owned utilities. 2009

Public Utility Commission of Oregon (Bonneville Power Administration Docket WP-07S), – analysis of rights to low-cost federal power by residential and small-farm customers of investor-owned utilities. 2008

Public Utility Commission of Oregon (Docket UM 1050), – analysis of interjurisdictional cost allocation methods applicable to PacifiCorp. Docket was culmination of multi-year collaborative effort among the states of Washington, Idaho, Wyoming, Utah and Oregon to reach an agreed to allocations method. 2004

Public Utility Commission of Oregon (Docket UE 88), – analysis of alternative decoupling mechanisms designed to break the link between utility kWh sales and utility profits applicable to PacifiCorp. 1994

Public Utility Commission of Oregon (Docket UE 79), – ratemaking analysis of Portland General Electric wholesale power sales relating to the WNP #3 Settlement. 1990

Public Utility Commission of Oregon (Bonneville Power Administration Docket WP-87), – analysis of rights to low-cost federal power by residential and small-farm customers of investor-owned utilities. 1987

Public Utility Commission of Oregon (Federal Energy Regulatory Commission Docket ER 82-2011-003), – economics of nonfirm energy production in the Pacific Northwest and pricing of such power. 1984

Public Utility Commission of Oregon (Bonneville Power Administration Docket WP-83), – analysis of rights to low-cost federal power by residential and small-farm customers of investor-owned utilities, value of Direct Service Industry reserves, estimates of the Pacific Northwest Region long run incremental cost of wholesale power.

Telecommunications

- *Public Utility Commission of Oregon* – “The Status of Competition and Regulation in the Telecommunications Industry,” – separate studies published roughly each year beginning in 2001.
- *Public Utility Commission of Oregon (Docket UM 351, Phase II)*, – general pricing and unbundling policies for telecommunications retail services and unbundled network elements – 1995.
- *Public Utility Commission of Oregon (Docket UM 351)*, – generic investigation to develop long run incremental cost of unbundled network elements – 1993.
- *Public Utility Commission of Oregon (UM 295)*, – ratemaking policies for telecommunications research and development activities – 1992.
- *Public Utility Commission of Oregon (UT 80)*, – alternative form of regulation review and proposal for US West – 1991.
- *Public Utility Commission of Oregon (US WEST Docket UT 85)*, – broad pricing policy – 1989.
- *Public Utility Commission of Oregon (PNB Docket UF 3565)*, – telecommunications pricing issues, review of price elasticity studies, Western Electric Adjustment – 1980.

EDUCATION

CLAREMONT GRADUATE SCHOOL, CLAREMONT, CALIFORNIA – MA, 1980, PhD, 1983

- Specialization in Optimization Theory/Microeconomic Theory/Monetary Economics.

CALIFORNIA STATE POLYTECHNIC UNIVERSITY OF POMONA -- BS, 1977

- Major in Mathematics and Economics.

OTHER

- Graduate of 1997 Leadership Oregon Program. Each year, from all state employees, 20 to 30 future government leaders are selected to participate in LOP to learn about other state agencies and benefit from executive training.
- Member, American Economic Association
- Economics at Oregon State University

PUBLICATIONS

The Economics of a Surplus in Electrical Generating Capability: The Pacific Northwest," - Public Utilities Fortnightly, January 5, 1984, pages 45-47.

Load Curve Responsiveness to Weather and the Cost Effectiveness of Conservation," - Public Utilities Fortnightly, September 30, 1982, page 51.

FORMAL TESTIMONY OFFERED IN THE FOLLOWING PROCEEDINGS:

| <u>Cause</u> | <u>Agency</u> | <u>Year</u> | <u>Company</u> | <u>Topics</u> |
|----------------|---------------|-------------|------------------|---|
| R-48 | OPUC | 1980 | Generic-Electric | Conservation potential from electric rate design |
| UF 3565 | OPUC | 1980 | PNB | Telecommunication pricing issues, review of elasticity studies, Western Electric Adjustment |
| UF 3753 | OPUC | 1982 | CPN | LRIC methodology, electric rate spread and rate design |
| UF 3779 | OPUC | 1982 | PP&L | LRIC and electric rate spread, and rate design |
| UF 3900 | OPUC | 1983 | PP&L | LRIC and electric rate spread, and rate design |
| WP 83 | BPA | 1983 | BPA | LRIC methodology and value of DSI energy and capacity reserves |
| AR 112 | OPUC | 1984 | Generic-Electric | Electric LRIC methodology and rate spread and rate design policy |
| ER 82-2011-003 | FERC | 1984 | BPA | Economics of nonfirm electric energy sales to the Pacific Southwest |
| UE 44 | OPUC | 1985 | Generic-Electric | Electric rate spread and rate design, LRIC methodology |
| UE 47/48 | OPUC | 1986 | PGE | Electric rate spread and rate design, valuation of WNP #3 settlement agreement |
| VI-86-OP-01 | BPA | 1986 | BPA | Review of BPA proposed Variable Industrial Power Rate |
| UE 58 | OPUC | 1987 | PP&L | Electric rate spread and rate design |
| UE 70 | OPUC | 1987 | PP&L | LRIC methodology and electric rate spread and rate design |
| WP 87 | BPA | 1987 | BPA | 7(b)(2) rate test |
| UT 85 | OPUC | 1989 | USWC | Telecommunications rate design policies |

| <u>Cause</u> | <u>Agency</u> | <u>Year</u> | <u>Company</u> | <u>Topics</u> |
|----------------------------------|------------------|-------------|--|---|
| UT 80 | OPUC | 1991 | USWC | Telecommunications alternative form of regulation summary witness and productivity estimation |
| UM 295 | OPUC | 1992 | Generic-Telecommunications | Ratemaking policy for telecommunications research and development activities |
| UE 88 | OPUC | 1994 | PGE | Decoupling mechanism design to break link between kWh sales and utility profits |
| UM 351, Phase II | OPUC | 1995 | Generic-Telecommunications | General pricing and unbundling policies of telecommunications functionalities |
| UM 1050 | OPUC | 2004 | PacifiCorp | Interjurisdictional cost allocation methods |
| WP-07S | OPUC | 2008 | BPA | 7(b)(2) rate test, retroactive ratemaking |
| WP-10 | OPUC | 2009 | BPA | 7(b)(2) rate test |
| REP-12 | OPUC | 2011 | BPA | Long-term residential exchange settlement |
| Docket No. 17-06003 and 17-06004 | Nevada PUC | 2017 | Smart Energy Alliance | Residential net metering rates and rate design for direct access customers |
| Docket No. NG17-009 | South Dakota PUC | 2017 | South Dakota Intrastate Pipeline Company | Rate of Return, Decommissioning policy, and management fee |
| Docket No. U-170970 | WUTC | 2017 | Avista | Review of Proposed Hydro One Acquisition of Avista |
| Docket UE 319 | OPUC | 2017 | Portland General Electric | FTEs, Wages, Pensions, R&D expense |

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

UM 1817

In the Matter of)
)
PORTLAND GENERAL ELECTRIC)
COMPANY,)
)
Application for the Deferral of Storm-Related)
Restoration Costs.)
_____)

**EXHIBIT AWEC/102
COMPANY RESPONSES TO AWEC DATA REQUESTS**

April 10, 2018

TO: Jesse O. Gorsuch
Davison Van Cleve, PC

FROM: Stefan Brown
Manager, Regulatory Affairs

**PORTLAND GENERAL ELECTRIC
UM 1817
PGE Response to AWEC Data Request No. 001
Dated April 1, 2019**

Request:

Please identify each account in which PGE's storm expenses proposed to be deferred in this docket were booked, including amounts booked to each account. For each account, describe the account and types of costs recorded in those accounts.

Response:

Attachment 001-A provides the requested information, which has updated costs related to the 2017 storm deferral. PGE had inadvertently included storm costs in its testimony that were incurred prior to the January 11, 2017 filing date.

2017 Level III Expenses by FERC Accounts

* Income Statement accounts only
* exclude ST Labor

| FERC Account | Description | 1000006735 01.11.2017 Big Five Snow Storm | 1000006819 04.07.2017 Wind Storm | 1000007051 10.21.2017 Wind Storm | Total |
|---|--|--|--|--|----------------------|
| 561.2 | Transmission Maintenance - Load dispatch: Monitor and operate transmission system | \$ 729 | | | \$ 729 |
| 563 | Transmission Maintenance - Overhead line expense (Major only) | \$ 66 | | | \$ 66 |
| 569.2 | Transmission Maintenance - Maintenance of computer software | | | | \$ - |
| 573 | Transmission Maintenance - Maintenance of miscellaneous transmission plant | | | | \$ - |
| 580 | Distribution Operations - Operations supervision and engineering | \$ 89,254 | \$ 111,064 | \$ 23,873 | \$ 224,192 |
| 581 | Distribution Operations - Line and station expenses (non major only) | \$ 1,017 | \$ 6,413 | \$ 1,292 | \$ 8,723 |
| 582 | Distribution Operations - Station expenses (major only) | \$ 4,207 | \$ 12,798 | | \$ 17,004 |
| 583 | Distribution Operations - Overhead line expenses (major only) | \$ 1,905 | \$ 44 | | \$ 1,949 |
| 586 | Distribution Operations - Meter expenses | \$ 1,001 | | | \$ 1,001 |
| 587 | Distribution Operations - Customer installation expenses | \$ 56 | | \$ 1,024 | \$ 1,080 |
| 588 | Distribution Operations - Miscellaneous distribution expenses | \$ 23,856 | \$ 7,650 | | \$ 31,506 |
| 590 | Distribution Maintenance - Maintenance supervision and engineering (major only) | \$ 7,403 | \$ 7,798 | \$ 44 | \$ 15,246 |
| 591 | Distribution Maintenance - Maintenance of structures (major only) | \$ 174 | \$ 1,553 | | \$ 1,727 |
| 592 | Distribution Maintenance - Maintenance of station equipment (major only) | \$ 28,648 | \$ 18,137 | | \$ 46,786 |
| 592.2 | Distribution Maintenance - Maintenance of Energy Storage Equipment | \$ 1,101 | | | \$ 1,101 |
| 593 | Distribution Maintenance - Distribution Maintenance | \$ 3,589,077 | \$ 4,499,416 | \$ 478,708 | \$ 8,567,201 |
| 594 | Distribution Maintenance - Maintenance of underground lines (Major only) | \$ 87,883 | \$ 66 | \$ 18,210 | \$ 106,159 |
| 595 | Distribution Maintenance - Maintenance of line transformers | \$ 2,032 | \$ 1,141 | \$ 3,659 | \$ 6,832 |
| 596 | Distribution Maintenance - Maintenance of street lighting and signal systems | \$ 2,589 | \$ 44 | | \$ 2,633 |
| 598 | Distribution Maintenance - Maintenance of miscellaneous distribution plant | | \$ 839 | | \$ 839 |
| 903 | Customer Account Expenses (Operations) - Customer records and collection expenses | \$ 2,702 | \$ 3,779 | | \$ 6,481 |
| 905 | Customer Account Expenses (Operations) - Miscellaneous customer accounts expenses (Major only) | \$ 25,227 | \$ 61,977 | \$ 4,947 | \$ 92,151 |
| 908 | Customer Service and Informational Expenses - Customer assistance expense (Major only) | | \$ 1,666 | | \$ 1,666 |
| 920 | Administrative and General Expenses (Operation) - Administrative and general salaries | \$ 222,308 | \$ 18,308 | | \$ 240,616 |
| 921 | Administrative and General Expenses (Operation) - Office supplies and expenses | \$ 4,221 | \$ 55 | | \$ 4,275 |
| 925 | Administrative and General Expenses (Operation) - Injuries and damages | \$ 5,330 | | | \$ 5,330 |
| 935 | Maintenance - Maintenance of general plant | \$ 751 | \$ 2,268 | | \$ 3,019 |
| Incurred Costs | | \$ 4,101,539 | \$ 4,755,014 | \$ 531,757 | \$ 9,388,311 |
| Labor Loadings associated with OT & Prem. Pay | | \$ 256,062 | \$ 296,723 | \$ 58,129 | \$ 610,914 |
| Transportation Overheads assoc. w/ OT & Prem. Pay | | \$ 25,054 | \$ 23,660 | \$ 4,309 | \$ 53,023 |
| Incremental Loadings | | \$ 281,117 | \$ 320,383 | \$ 62,438 | \$ 663,937 |
| Total Recoverable Cost | | \$ 4,382,655 | \$ 5,075,397 | \$ 594,195 | \$ 10,052,248 |

April 10, 2018

TO: Jesse O. Gorsuch
Davison Van Cleve, PC

FROM: Stefan Brown
Manager, Regulatory Affairs

**PORTLAND GENERAL ELECTRIC
UM 1817
PGE Response to AWEC Data Request No. 002
Dated April 1, 2019**

Request:

Please provide:

- a. PGE's Level III storm costs in nominal dollars for each of the past 20 years. If costs for 2018 are not yet available, please identify when they will be available;**
- b. PGE's Level III storm costs in constant dollars for each of the past 20 years; and**
- c. PGE's Level III storm costs in terms of \$ per kWh for each of the past 20 years, where kWh are the retail kWh sales for that respective year.**

Response:

- a. Attachment 002-A provides the requested information. Storm costs do not include straight time labor or associated labor loadings.
- b. Attachment 002-B provides the requested information.
- c. Attachment 002-C provides the requested information.

| PGE Major Storms, 1999-2018 | |
|--|----------------------|
| Year | Nominal Costs |
| 1999 | \$ - |
| 2000 | \$ - |
| 2001 | \$ - |
| 2002 | \$ - |
| 2003 | \$ - |
| 2004 | \$ 2,976,869 |
| 2005 | \$ - |
| 2006 | \$ 3,869,486 |
| 2007 ⁽¹⁾ | \$ 886,621 |
| 2008 | \$ 5,936,058 |
| 2009 ⁽²⁾ | \$ 2,106,514 |
| 2010 | \$ - |
| 2011 | \$ - |
| 2012 | \$ - |
| 2013 | \$ - |
| 2014 | \$ 5,623,875 |
| 2015 | \$ 5,161,513 |
| 2016 | \$ 4,504,081 |
| 2017 | \$ 10,557,354 |
| 2018 | \$ - |

Notes:

⁽¹⁾: The 2007 Level III storm expense is related to the December 2006 windstorm.

⁽²⁾: The 2009 Level III storm expense is related to the December 2008 snow storm.

Summary of Costs Attributable to Level III Storms

| Year | Level III Storm Costs | Inflation ⁽³⁾ | \$2019 Storm Costs |
|---------------------|-----------------------|--------------------------|--------------------|
| 1999 | - | 2.21% | - |
| 2000 | - | 3.36% | - |
| 2001 | - | 2.85% | - |
| 2002 | - | 1.58% | - |
| 2003 | - | 2.28% | - |
| 2004 | 2,976,869 | 2.66% | 3,984,721 |
| 2005 | - | 3.39% | - |
| 2006 | 3,869,486 | 3.23% | 4,853,253 |
| 2007 ⁽¹⁾ | 886,621 | 2.83% | 1,081,456 |
| 2008 | 5,936,058 | 3.86% | 6,971,468 |
| 2009 ⁽²⁾ | 2,106,514 | -0.37% | 2,483,174 |
| 2010 | - | 1.68% | - |
| 2011 | - | 3.12% | - |
| 2012 | - | 2.09% | - |
| 2013 | - | 1.48% | - |
| 2014 | 5,623,875 | 1.59% | 6,007,691 |
| 2015 | 5,161,601 | 0.13% | 5,506,888 |
| 2016 | 4,504,081 | 1.27% | 4,745,316 |
| 2017 | 10,557,354 | 2.13% | 10,891,355 |
| 2018 | - | 2.45% | - |
| 2019 | - | 0.70% | - |

Notes:

⁽¹⁾: The 2007 Level III storm expense is related to the December 2006 windstorm.

⁽²⁾: The 2009 Level III storm expense is related to the December 2008 snow storm.

⁽³⁾: Source: *United States Consumer Price Index for All Urban Consumers (1970 - 2019)* - <http://www.dlt.ri.gov/lmi/pdf/cpi.pdf>

April 10, 2018

TO: Jesse O. Gorsuch
Davison Van Cleve, PC

FROM: Stefan Brown
Manager, Regulatory Affairs

**PORTLAND GENERAL ELECTRIC
UM 1817
PGE Response to AWEC Data Request No. 007
Dated April 1, 2019**

Request:

Please provide an estimate of the basis point reduction in ROE for each of the years that the Level III Storm Accrual Mechanism has been in place for any Level III Storm costs not recovered in rates. Please provide all workpapers.

Response:

Attachment 007-A provides the requested information. The following describes the calculations for each basis point reduction:

“Storm Cost” tab lists, by year, amounts collected for storm restoration (column B), actual storm restoration costs (column C), and balances (column D) representing: 1) accumulated reserves where storm restoration costs were less than the accumulated reserve (2011-2014); and 2) amounts not recovered where storm restoration costs were greater than the accumulated reserve (2015-2017).

“2015 ROO”, “2016 ROO”, and “2017 ROO” tabs show PGE’s summary Results of Operation Reports (ROOs) as filed by May 1, and submitted as PGE Exhibit 102 with each year’s Power Cost Adjustment Mechanism filing by July 1.

“2015 ROO Adj”, “2016 ROO Adj”, and “2017 ROO Adj” tabs show the impact of adding revenue equal to the unrecovered storm restoration costs to cell H16 in each ROO. Column L shows: 1) the delta revenue equal to the recovery (row 16); and 2) the basis point difference from that delta revenue (row 37) on PGE’s return on equity (ROE).

For 2011 through 2014, where storm restoration costs were less than the accumulated reserve, the balance only carried forward and did not provide any positive impact to PGE’s ROE.

PORTLAND GENERAL ELECTRIC
OPUC REGULATORY REPORTING
RESULTS OF OPERATIONS
January 1, 2017 - December 31, 2017
(Thousands of Dollars)

Page 1

| Regulatory adjustments based on Docket UE 294, Order 15-356 | Actual Utility Results | Type I Accounting Adjustments | Regulated Utility Actuals | Type I Adjustments | Regulated Adjusted Results | Type II Adjustments | Pro Forma Results | Delta (5) |
|--|------------------------------|-------------------------------------|---------------------------------|-----------------------|----------------------------------|------------------------|----------------------|-----------|
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | |
| Operating Revenues | | | | | | | | |
| Sales to Consumers | 1,858,861 | (131) | 1,858,730 | (3,560) | 1,863,727 | 7,392 | 1,871,119 | 8,557 |
| Sales for Resale | 116,335 | (116,335) | 0 | 0 | 0 | 0 | 0 | |
| Other Operating Revenues | 41,241 | (15,554) | 25,687 | 0 | 25,687 | 0 | 25,687 | |
| Total Operating Revenues | 2,016,437 | (132,021) | 1,884,417 | (3,560) | 1,889,414 | 7,392 | 1,896,806 | |
| Operation & Maintenance | | | | | | | | |
| Net Variable Power Cost | 601,778 | (127,158) | 474,621 | 0 | 474,621 | (13,169) | 461,452 | |
| Total Fixed O&M | 304,629 | (3,326) | 301,302 | 0 | 301,302 | 3,625 | 304,928 | |
| Other O&M | 262,416 | 957 | 263,373 | (16,733) | 246,640 | 2,334 | 248,973 | |
| Total Operation & Maintenance | 1,168,823 | (129,527) | 1,039,296 | (16,733) | 1,022,563 | (7,210) | 1,015,353 | |
| Depreciation & Amortization | 342,742 | 0 | 342,742 | (4,556) | 338,186 | 1,830 | 340,016 | |
| Other Taxes / Franchise Fee | 122,375 | (745) | 121,630 | (91) | 121,539 | 1,157 | 122,696 | |
| Income Taxes | 85,026 | (1,943) | 83,083 | 8,343 | 91,426 | 5,630 | 97,056 | |
| Total Oper. Expenses & Taxes | 1,718,966 | (132,216) | 1,586,751 | (13,037) | 1,573,714 | 1,406 | 1,575,120 | |
| Utility Operating Income | 297,471 | 195 | 297,666 | 9,476 | 315,700 | 5,986 | 321,686 | |
| Rate of Return | 6.27% | | 6.27% | | 6.83% | | 7.11% | 0.19% |
| Return on Equity | 7.17% | | 7.17% | | 8.26% | | 8.64% | 0.36% |
| ROE based on actual capital structure. | | | | | | | | |
| Average Rate Base | | | | | | | | |
| Utility Plant in Service | 9,845,463 | 0 | 9,845,463 | (123,295) | 9,722,168 | 146,314 | 9,868,481 | |
| Accumulated Depreciation | 4,532,983 | 0 | 4,532,983 | 0 | 4,532,983 | 226,954 | 4,759,937 | |
| Accumulated Def. Income Taxes | 645,373 | 0 | 645,373 | 0 | 645,373 | 14,492 | 659,865 | |
| Accumulated Def. Inv. Tax Credit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Net Utility Plant | 4,667,107 | 0 | 4,667,107 | (123,295) | 4,543,813 | (95,133) | 4,448,680 | |
| Deferred Programs & Investments | 24,315 | 0 | 24,315 | 0 | 24,315 | (5,998) | 18,317 | |
| Operating Materials & Fuel | 76,473 | 0 | 76,473 | 0 | 76,473 | 2,378 | 78,851 | |
| Misc. Deferred Credits | (80,099) | 0 | (80,099) | 0 | (80,099) | (36) | (80,135) | |
| Unamortized Ratepayer Gains | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Working Cash | 57,429 | (12) | 57,417 | (473) | 56,944 | 830 | 57,774 | |
| Total Average Rate Base | 4,745,226 | (12) | 4,745,214 | (123,768) | 4,621,446 | (97,959) | 4,523,487 | |

| Actual Averages | Average Outstanding | Percent of Capital | Percent Cost | Weighted Percent Cost |
|-----------------|------------------------|-----------------------|-----------------|--------------------------|
| Long Term Debt | 2,258,455 | 48.62% | 5.32% | 2.59% |
| Preferred Stock | 0 | 0.00% | 0.00% | 0.00% |
| Common Equity | 2,386,313 | 51.38% | 7.17% | 3.69% |
| Total | 4,644,768 | 100.00% | | 6.27% |

April 10, 2018

TO: Jesse O. Gorsuch
Davison Van Cleve, PC

FROM: Stefan Brown
Manager, Regulatory Affairs

**PORTLAND GENERAL ELECTRIC
UM 1817
PGE Response to AWEC Data Request No. 010
Dated April 1, 2019**

Request:

Reference Nicholson - Bekkedahl / 12-13. At lines 17-18 of page 13, PGE states that each listed deferral except for two are "a function of statute or Commission requirements." Please provide the statutory or Commission order reference PGE relies on for this statement for each applicable deferral.

Response:

Attachment 010-A provides the requested information.

- UM 1103 – Intervenor funding – SB 205 and Commission Order 03-388
- UM 1294 – Power costs for Schedule 126 PCAM – Commission Order 07-015
- UM 1301 – Direct access open enrollment – Commission Orders 06-528 and 07-015
- UM 1417 – Decoupling – Commission Order 09-020
- UM 1482 – Photovoltaic volumetric incentive rate pilot – HB 3690 and Commission Order 11-339
- UM 1514 – Non-residential demand response (two pilots) – Commission Order 08-245
- UM 1708 – Residential demand response (Flex pricing and DLC thermostats) – Commission Orders 08-245 and 15-203
- UM 1827 – Water heater pilot – Commission Order 08-245
- UM 1915, UM 1986, etc. – Three deferrals to support balancing accounts – Staff report as adopted by Commission Order 19-020.
- UM 1920 – 2018 tax refund – Commission Order 18-464
- UM 1938 – Transportation Electrification (three pilots) – SB 1547 and Commission Order 18-054
- UM 1966 – Third Party Consultants – Commission Orders 06-446 and 13-204
- UM 1976 – DER Testbeds – Commission Order 17-386
- UM 1977 – Community solar start-up costs – SB 1547 and Commission Order 17-232
- UM 1991 – R&D Tax Credits – Commission Order 18-464
- UM 1999 – Residential energy storage – HB 2193 and Commission Order 18-290
- UM 2003 – Electric Vehicle Charging (two pilots) – SB 1547 and Commission Order 18-054

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

UM 1817

In the Matter of)
)
PORTLAND GENERAL ELECTRIC)
COMPANY,)
)
Application for the Deferral of Storm-Related)
Restoration Costs.)
_____)

EXHIBIT AWEC/103

2008-2017 ACTUAL LEVEL III STORM DAMAGE LOSSES

(EXHIBIT PGE/801 FROM DOCKET NO. UE 335)

2008 - 2017 Actual Level III Storm Damage Losses

| CPI | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|---------|--------------|--------------|-------|-------|-------|-------|--------------|--------------|--------------|---------------|
| 2008 | \$ 5,936,058 | | | | | | | | | |
| 2009 | -0.32% | \$ 2,106,514 | | | | | | | | |
| 2010 | 1.64% | 1.64% | \$ - | | | | | | | |
| 2011 | 3.14% | 3.14% | 3.14% | \$ - | | | | | | |
| 2012 | 2.08% | 2.08% | 2.08% | 2.08% | \$ - | | | | | |
| 2013 | 1.47% | 1.47% | 1.47% | 1.47% | 1.47% | \$ - | | | | |
| 2014 | 1.61% | 1.61% | 1.61% | 1.61% | 1.61% | 1.61% | \$ 5,623,875 | | | |
| 2015 | 0.12% | 0.12% | 0.12% | 0.12% | 0.12% | 0.12% | 0.12% | \$ 5,161,601 | | |
| 2016 | 1.28% | 1.28% | 1.28% | 1.28% | 1.28% | 1.28% | 1.28% | 1.28% | \$ 4,504,081 | |
| 2017 | 2.54% | 2.54% | 2.54% | 2.54% | 2.54% | 2.54% | 2.54% | 2.54% | 2.54% | \$ 11,351,424 |
| 2018 | 2.39% | 2.39% | 2.39% | 2.39% | 2.39% | 2.39% | 2.39% | 2.39% | 2.39% | 2.39% |
| 2019 | 2.41% | 2.41% | 2.41% | 2.41% | 2.41% | 2.41% | 2.41% | 2.41% | 2.41% | 2.41% |
| 2019 \$ | \$ 7,116,504 | \$ 2,533,532 | \$ - | \$ - | \$ - | \$ - | \$ 6,131,009 | \$ 5,620,389 | \$ 4,842,643 | \$ 11,902,883 |

Ten Year Total Level III Storm Damage Losses \$ 38,146,960
 Ten Year Avg Level III Storm Damage Losses \$ 3,814,696
 Average Level III Storm Damage Losses \$ 6,357,827

| Year | Level III Storm Actuals | CPI |
|------|-------------------------|--------|
| 2008 | \$ 5,936,058 | 3.81% |
| 2009 | \$ 2,106,514 | -0.32% |
| 2010 | \$ - | 1.64% |
| 2011 | \$ - | 3.14% |
| 2012 | \$ - | 2.08% |
| 2013 | \$ - | 1.47% |
| 2014 | \$ 5,623,875 | 1.61% |
| 2015 | \$ 5,161,601 | 0.12% |
| 2016 | \$ 4,504,081 | 1.28% |
| 2017 | \$ 11,351,424 | 2.54% |
| 2018 | | 2.39% |
| 2019 | | 2.41% |

| | Collection | Withdrawals | Balance |
|------|--------------|---------------|-----------------|
| 2011 | \$ 2,000,000 | \$ - | \$ 2,000,000 |
| 2012 | \$ 2,000,000 | \$ - | \$ 4,000,000 |
| 2013 | \$ 2,000,000 | \$ - | \$ 6,000,000 |
| 2014 | \$ 2,000,000 | \$ 5,623,875 | \$ 2,376,125 |
| 2015 | \$ 2,000,000 | \$ 5,161,601 | \$ (785,476) |
| 2016 | \$ 2,000,000 | \$ 4,504,081 | \$ (3,289,557) |
| 2017 | \$ 2,000,000 | \$ 11,351,424 | \$ (12,640,981) |