REDACTED Rocky Mountain Power Docket No. 17-035-40 Witness: Chad A. Teply
BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF UTAH
ROCKY MOUNTAIN POWER
REDACTED Direct Testimony of Chad A. Teply
I. 2017
June 2017

Q.	Please state	your name,	business	address,	and	present	position.
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- 2 A. My name is Chad A. Teply. My business address is 1407 West North Temple, Suite 310,
- 3 Salt Lake City, Utah 84116. My position is Vice President of Strategy and Development
- 4 for Rocky Mountain Power ("Company"), a division of PacifiCorp.

5 QUALIFICATIONS

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6 Q. Briefly describe your education and business experience.

I have a Bachelor of Science Degree in Mechanical Engineering from South Dakota State University. I joined MidAmerican Energy Company (a Berkshire Hathaway Energy affiliate company) in November 1999, and held positions of increasing responsibility within the generation organization, including serving as project manager for a new 780 megawatt ("MW") supercritical coal-fueled generation resource placed in service in 2007. In April 2008, I moved to Northern Natural Gas Company (a Berkshire Hathaway Energy affiliate company) as Senior Director of Engineering. I joined PacifiCorp in February 2009. In my current role as Vice President of Strategy and Development, my responsibilities encompass strategic planning, regulatory support, stakeholder engagement, development, and execution of major generation resource additions, major environmental compliance projects, and major transmission projects.

PURPOSE AND SUMMARY OF TESTIMONY

20 **Q.** What is the purpose of your testimony?

- A. The Company's 2017 Integrated Resource Plan ("2017 IRP") preferred portfolio identified a time-limited opportunity to procure approximately 1,100 MW of cost-
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effective wind facilities and construct transmission facilities to relieve existing congestion and allow interconnection of those new wind facilities, while providing all-in customer savings. To capture the substantial customer benefits resulting from this time-limited opportunity, the Company has filed a request for an order approving its "significant energy resource decision" for the construction or acquisition of approximately 860 megawatts ("MW") of new wind facilities ("Wind Projects"). The Company has secured development and implementation rights for the Wind Projects, which consist of four individual wind facilities located in the state of Wyoming.

The Wind Projects rely upon the construction of the Aeolus to Bridger/Anticline transmission line and other associated network upgrades (collectively, the "Transmission Projects"), which will relieve existing congestion and allow interconnection of the Wind Projects.² In turn, the benefits generated by the Wind Projects—zero-fuel-cost generation that lowers net power costs and ten years of federal

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¹ None of the four wind facilities are qualifying facilities under the Public Utility Regulatory Policies Act. *See* 18 C.F.R. § 292.204 (defining criteria for qualifying facilities).

² As more specifically described in the testimony of Mr. Rick A. Vail, the Transmission Projects include: (1) a new 140-mile, 500 kilovolt (kV) transmission line segment and associated infrastructure running from the new Aeolus substation near Medicine Bow, Wyoming, to the new Anticline substation located near the existing Jim Bridger substation, which includes construction of the new Aeolus and Anticline substations; (2) a new five-mile 345 kV transmission line that will extend from the proposed Anticline substation to the existing Jim Bridger substation, which includes modifications at the existing Jim Bridger substation to allow termination of the new 345 kV line; (3) installation of a voltage control device at the Latham substation (items 1 through 3 collectively referred to as the "Aeolus-to-Bridger/Anticline line"); (4) a new 16-mile, 230 kV transmission line running from the Company's existing Shirley Basin substation to the proposed Aeolus substation, which requires modifications to the Shirley Basin substation and interconnection facilities in the new Aeolus substation to accommodate the new line; (5) reconstruction of four miles of an existing 230 kV transmission line between the proposed Aeolus substation and the Freezeout substation, which requires modifications to the Freezeout substation and interconnection facilities in the new Aeolus substation to accommodate the rebuilt line; and (6) reconstruction of 14 miles of an existing 230 kV transmission line between the Freezeout substation and the Standpipe substation, which requires modifications to the Freezeout and Standpipe substations to accommodate the rebuilt line (items 4 through 6 collectively referred to as the "230 kV Network Upgrades").

productions tax credits ("PTCs")—support cost-effective development of the Transmission Projects. Together, the Wind Projects and the Transmission Projects provide significant savings to customers over the lives of the resources.

The Company is now conducting a competitive market renewables request for proposals ("2017R RFP"). Upon conclusion of the 2017R RFP, the Company will confirm the specific wind facilities that it plans to construct or acquire. In its Application, the Company provides detailed information on four wind facilities to meet the Utah Public Service Commission's ("Commission") resource approval requirements. The Company is submitting these four wind facilities as benchmark resources in the 2017R RFP and proxy resources in the Application, pending the final results of the 2017R RFP. My testimony and exhibits provide the information required by Utah Code Ann. § 54-17-302 and Commission Rule 746-430-2(1) related to the Wind Projects.

Q. Please summarize your testimony.

A.

My testimony demonstrates that the Company's proposals to construct or acquire approximately 860 MW of new Wind Projects and construct the Transmission Projects (collectively "Combined Projects" or "Projects") are in the public interest, and in the best interest of customers. Together, the Projects provide substantial customer benefits as long as both achieve commercial operation by the end of 2020. My testimony explains how the Company intends to further develop and procure the Wind Projects and why it is necessary to submit the Wind Projects as "proxy" facilities at this time while the Company conducts the 2017R RFP in parallel with this Application.

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Q. Why is the Company pursuing the Wind Projects?

A.

As further described in the testimonies of Ms. Cindy A. Crane and Mr. Rick T. Link, the Company is pursuing the acquisition and development of the Combined Projects to deliver a time-sensitive opportunity for customers that is identified in the Company's 2017 IRP preferred portfolio (*i.e.*, addition of approximately 1,100 MW of new wind resources and the associated new transmission infrastructure by 2020). The Company has executed the necessary agreements and engaged in the appropriate development activities to ensure that viable Wind Projects to support the Transmission Projects are available and positioned to ensure competitive market engagement, and have directly controllable implementation plans. The Wind Projects support both this Application and the Company's parallel 2017R RFP process.

GENERAL DESCRIPTION OF THE WIND PROJECTS

Q. Please describe the Wind Projects.

The Wind Projects information incorporated into this Application is intended to allow the Commission to review the need, economic analyses, and customer benefits of the Wind Projects while the Company's 2017R RFP is pending. The Wind Projects include three nominal 250 MW facilities in Wyoming (referred to as Ekola Flats, TB Flats I, and TB Flats II) that a third-party is currently developing. Each facility will consist of the commensurate number of 2.0 MW to 4.2 MW wind turbine generators to achieve up to a nominal 250 MW nameplate capacity, an electrical collection system, a 34.5 kV to 230 kV collector substation, 230 kV breakers, a 230 kV tie-line between the wind project and the point of interconnection substation, meteorological towers, access

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80		roads, an operations and maintenance ("O&M") building and required communication
81		and control facilities (e.g., metering, hardware, software, and associated
82		communication circuits and other equipment).
83		The Wind Projects also include a fourth nominal 110 MW wind facility
84		(McFadden Ridge II), which the Company is currently developing on a Company-
85		controlled site in Wyoming. McFadden Ridge II is expected to consist of approximately
86		forty-four 2.3 MW to 2.5 MW wind turbine generators and similar project infrastructure
87		as those described for the 250 MW facilities.
88		The Wind Projects incorporated into the Application total 860 MW nominally,
89		and represent facilities for which the Company has secured the rights to carry forward
90		through development. The Company will submit the Wind Projects into the 2017R RFP
91		as benchmark proposals, and will construct these facilities if they are the winning bids
92		in the 2017R RFP.
93		The Wind Projects are estimated to cost approximately
94	Q.	Why does the Company's Application request approval of only 860 MW of wind
95		facilities, when the 2017 IRP identified a resource opportunity of approximately
96		1,100 MW of wind facilities?
97	A.	The Company is seeking approval for only those facilities to which it has development
98		and implementation rights.
99	Q.	Does the Company's economic analysis supporting the Application for the
100		Transmission Projects include approximately 1,100 MW of new wind facilities?
101	A.	Yes. As the testimony of Mr. Link explains, the Company's economic analysis includes

certain known qualifying facilities ("QFs") now in development that are located in the Aeolus area, hold preferential interconnection queue positions, have executed power purchase agreements contracts, and are reasonably expected to be in service by year-end 2021. When these QFs are considered in conjunction with the nominal 860 MW of secured development opportunities, the total generating capacity equates to the 1,180 MW of new wind facilities analyzed in support of this Application.

Q. Please describe the time-sensitive nature of the Combined Projects.

A.

The time-sensitive nature of the Combined Projects is primarily driven by the pending phase-out of the federal PTC for new wind resources. In Internal Revenue Code ("IRC") section 45, the U.S. Internal Revenue Service ("IRS") provides for a PTC at the 2017 full rate of 2.4 cents per kilowatt hour of electrical energy production by a wind facility. The PTC is available for a 10-year period that begins when the facility is placed in service. The Protecting Americans from Tax Hikes Act of 2015 ("the PATH Act") extended the availability of the PTC for wind facilities under construction before January 1, 2020. The PATH Act extension, however, also provides for a phase-out of the PTC. Wind facilities that began construction before January 1, 2017, will realize the full PTC credit, which is the case for the Wind Projects in this Application. If a wind facility begins construction in 2017, the PTC is reduced by 20 percent. The PTC is reduced by 40 percent if construction begins in 2018, and by 60 percent if construction begins in 2019. The PTC is not available for wind facilities that begin construction after December 31, 2019.

To receive "safe-harbor" PTCs, the facilities must be placed into commercial

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operation by the end of the fourth calendar year following the year in which construction began (the "start-of-construction" standard) or otherwise meet specific IRS requirements for demonstrating the "continuity requirement" throughout the implementation timeline. To mitigate the risk of interpretation associated with the IRS's "continuity requirements," the Wind Projects (or other wind facilities selected in the 2017R RFP that rely on (i) the Transmission Projects and (ii) also began construction prior to January 1, 2017) must be reviewed, approved, implemented, and placed in service by year-end 2020 in accordance with the "start-of-construction" standard, and meeting the "safe harbor" with respect to the "continuity requirement," to be eligible for the full PTC. The Company's Application is designed to meet this schedule and provide customers the full economic benefit of the Combined Projects.

Q. Do the Wind Projects meet the IRS's "start-of-construction" criteria?

- A. Yes. The Company acquired, or has the rights to, sufficient wind turbine generator equipment and other facility-specific components for the Wind Projects. To meet the start-of-construction definition for tax purposes, the Company secured the equipment before December 31, 2016. These transactions satisfy the "safe-harbor" requirements under the PTC guidance issued by the IRS.
- Q. How does the Company plan to procure the Wind Projects, or other new wind facilities?
- A. As discussed in the testimony of Mr. Link, concurrent with the Application, the 2017R RFP will be issued to the competitive market requesting up to 1,270 MW of wind facilities to align with the new resource interconnections enabled by the Transmission

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Projects and to facilitate assessment of a wider range of market responses. The Company will submit the Wind Projects as Company benchmark proposals in the 2017R RFP in October 2017. The Company anticipates that the 2017R RFP final shortlist of bids will be determined by mid-January 2018.

The Company will supplement its Application at that time to incorporate the results of the 2017R RFP. Depending on the outcome, the results will: (1) identify the Wind Projects as the winning bids and validate their benefits; (2) identify winning wind facilities that are in addition to the Wind Projects and request approval of those projects; or (3) identify winning wind facilities that have been selected instead of one or more of the Wind Projects and request approval of those facilities. In any scenario, this will result in final wind facility decisions that are assessed as equal to or better than the Wind Projects in the Application.

- Why is the Company providing facility-specific information for the Wind Projects in the Application and also planning a supplemental filing in the docket to incorporate the results of the 2017R RFP?
 - The Company's request for approval of the Combined Projects is driven by the time-sensitivity and scale of the filing. If the Company waited until the anticipated conclusion of the 2017R RFP process in early 2018 to begin the resource approval process, the Company would not receive the requested resource approvals for the Transmission Projects and could not complete those projects by year-end 2020. The critical path schedules of the Transmission Projects are the drivers for the proposed procedural schedule for review of the Application, and the Company needs resource

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Q.

A.

168		approval by March 30, 2018, to maintain the development schedules. Critical path
169		schedule activities for the Transmission Projects are further described in the testimony
170		of Mr. Vail.
171	Q.	On a stand-alone basis, would the Company's ability to construct the Wind
172		Projects by year-end 2020 be in jeopardy if the Company was prevented from
173		submitting the Application until after completion of the 2017R RFP?
174	A.	No. On a stand-alone basis, the critical path schedule for the Wind Projects could
175		accommodate a resource approval process that follows the 2017R RFP. As noted
176		before, however, the economics of the Wind Projects are only viable with the
177		Transmission Projects and vice versa; the Transmission Projects are critical path.
178	Q.	How did the Company develop the Wind Projects?
179	A.	The Company investigated the transmission interconnection queue in the area of the
180		Transmission Projects and engaged a third-party wind facility developer to identify
181		facilities that held preferred interconnection queue positions, are commercially viable
182		and are reasonably likely to achieve commercial operation by the end of 2020. The
183		Wind Projects have undergone preliminary vetting for interconnection status,
184		permitting, constructability, wind resource performance, and equipment supply.
185	Q.	Does the Company anticipate that it will develop additional information for the
186		Wind Projects presented in the Application?
187	A.	Yes. The Company will continue to work on the Wind Projects to ensure that the
188		Company makes the most competitive benchmark proposals available to customers.
189		The Company will supplement its filing as necessary.

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190	Q.	Does the Company's proposed procedural process allow the Company to support
191		its Application with market-based information?
192	A.	Yes. The Company will demonstrate the economic benefits of the Combined Projects
193		with all available competitive market-based information. The concurrent development
194		of the Wind Projects and the 2017R RFP process will enable the Company to validate
195		the reasonableness of the winning facilities based on current market information.
196	Q.	Does the Company's submittal of benchmark resources in the 2017R RFP
197		preclude other competitive market proposals from being selected for
198		implementation?
199	A.	No. The Company has assessed and identified only a portion of the competitive market
200		wind facilities that are reasonably assumed to be viable considering interconnection,
201		permitting, construction, performance, and implementation. The Company expects
202		robust competitive market response to the 2017R RFP, and selection of any facility that
203		is successful in that process.
204	Q.	Has the Company filed applications with the Wyoming Industrial Siting Council
205		("ISC") for the Wind Projects?
206	A.	No. The Company intends to submit applications to the Wyoming ISC for any
207		Company benchmarks selected as successful bids in the 2017R RFP following
208		completion of that process. The Company expects that the ISC review process and
209		hearings will proceed through October 2018. The ISC is required to hold a hearing
210		within ninety days of application under W.S. § 35-12-109.

211		DEVELOPMENT OF WIND PROJECTS
212	Q.	Has the Company performed preliminary evaluations of the wind potential at
213		each Wind Project site?
214	A.	Yes. Studies completed by the Company indicate that the each of the Wind Project sites
215		are suitable for a wind facility. The Ekola Flats and TB Flats I and II sites are adjacent
216		to the Company's existing Dunlap and Seven Mile Hill wind projects. The McFadden
217		Ridge II facility is an expansion of the Company's High Plains/McFadden Ridge wind
218		facility. Wind data collected from existing operations and the area of the Wind Projects
219		indicate that these sites have favorable wind regimes suitable for high performance
220		wind resources.
221	Q.	Has the Company determined who will be responsible for construction of the
222		Wind Projects?
223	A.	No. The Company has not currently identified who will be responsible for constructing
224		the Wind Projects. The Company will issue a competitive procurement request for
225		proposals to obtain firm fixed pricing to engineer, procure, construct and commission
226		each wind facility. The Company will do this as part of its development process for the
227		benchmark proposals.
228	Q.	Has the Company determined who will supply the wind turbine generators for the
229		Wind Projects?
230	A.	Not entirely. As discussed above, the Company has acquired or has rights to acquire
231		"safe-harbor" wind turbine generator equipment and other project-specific
232		components, which it proposes to use at the Wind Projects as required to meet the IRS's

233		"start-of-construction" criteria. The Company intends to secure rights to procure
234		"follow on" wind turbine generator equipment through a competitive procurement
235		request for proposals. As with the Company benchmark contractor solicitation process,
236		this effort will be performed as part of the development process for the benchmark
237		proposals.
238	Q.	Will the Company seek confidential treatment of specific information regarding
239		the Wind Projects, including cost, performance, technical and commercial
240		information?
241	A.	Yes. The Wind Projects represent only a portion of the wind resources that the Company
242		expects to investigate for possible acquisition or development in response to the 2017R
243		RFP. Information specific to the Wind Projects includes pricing and performance data
244		from wind turbine generator suppliers and third-party project developers that is
245		commercially sensitive and is considered proprietary and highly confidential. As such,
246		project-specific cost, performance, technical and commercial information, as well as
247		other data, must be maintained as proprietary and highly confidential information. This
248		is in the best interest of customers because potential counterparties may use such
249		information to the disadvantage of customers in the bi-lateral proposals and
250		negotiations for other wind resource assets, sites, equipment, services (i.e.,
251		construction, or O&M services) or in competitive request for proposals processes.
252	Λ	How did the Company generate the cost information for construction, operation

- Q. How did the Company generate the cost information for construction, operation, and maintenance of the individual wind facilities through their useful life?
- 254 A. The Company prepared its capital cost estimates for the Wind Projects using

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information from a variety of sources. The Company obtained wind turbine costs from a competitive procurement process that was held in 2016 to procure the Company's "safe harbor" wind turbine generator equipment.

Development costs reflect negotiated fees with the third-party project developer for Ekola Flats and TB Flats I and II. The Company developed the balance of plant engineering, procurement, construction, and commissioning costs using a cost model similar to that used to develop supply side resource capital costs for the 2017 IRP.

The Company took the transmission interconnection costs from the respective wind facility's transmission studies. Internal project management and permitting costs were estimated based upon the Company's experience with construction of past wind facilities and other recent generation resource additions.

The Company applied contingencies in various cost categories to account for project uncertainties given the current stage of development of the Wind Projects. O&M cost estimates were developed based upon Company's experience with wind resource O&M budgets and third-party contracts for the Company's existing wind facilities. Ongoing capital costs were estimated based upon the Company's experience and indicative costs provided by wind turbine generator suppliers for critical capital components.

- Q. Does the Company have any incentive to inflate the costs of the Wind Projects incorporated into the Application?
- 275 A. No. As discussed earlier in my testimony, and in the testimony of Mr. Link, the purpose 276 of the Company's application is to demonstrate the overall customer benefit of the

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277		Combined Projects, and to further substantiate those benefits with the results of the
278		2017R RFP. With the inherent competitive market comparison to the RFP bids
279		underlying the process, there is no incentive or way for the Company to inflate the
280		costs, with recognition of the need for certain contingencies due to the current state of
281		development of the Wind Projects.
282	Q.	Will the Wind Projects' wind turbine generators or associated infrastructure be
283		built in Wyoming's Greater Sage Grouse Core area?
284	A.	No. The Wind Projects' wind turbine generators and associated infrastructure,
285		including the associated 230 kV interconnection tie-lines, will not be located within the
286		current boundaries of Wyoming's Greater Sage Grouse Core area.
287	Q.	Will the Company collaborate with the Wyoming Game and Fish Department, the
288		U.S. Fish and Wildlife Service, and other environmental agencies in developing
289		and implementing the Wind Projects?
290	A.	Yes. The Company has already initiated discussions with the Wyoming Game and Fish
290291	A.	
	A.	Yes. The Company has already initiated discussions with the Wyoming Game and Fish
291	A.	Yes. The Company has already initiated discussions with the Wyoming Game and Fish Department and the U.S. Fish and Wildlife Service regarding developing and
291 292	A.	Yes. The Company has already initiated discussions with the Wyoming Game and Fish Department and the U.S. Fish and Wildlife Service regarding developing and implementing the Wind Projects. The Company, or in some instances the third-party
291292293	A.	Yes. The Company has already initiated discussions with the Wyoming Game and Fish Department and the U.S. Fish and Wildlife Service regarding developing and implementing the Wind Projects. The Company, or in some instances the third-party developer, has begun pre-construction usage surveys for various avian, bat, and wildlife
291292293294	A.	Yes. The Company has already initiated discussions with the Wyoming Game and Fish Department and the U.S. Fish and Wildlife Service regarding developing and implementing the Wind Projects. The Company, or in some instances the third-party developer, has begun pre-construction usage surveys for various avian, bat, and wildlife species utilizing recommendations from applicable state and federal guideline
291292293294295	A.	Yes. The Company has already initiated discussions with the Wyoming Game and Fish Department and the U.S. Fish and Wildlife Service regarding developing and implementing the Wind Projects. The Company, or in some instances the third-party developer, has begun pre-construction usage surveys for various avian, bat, and wildlife species utilizing recommendations from applicable state and federal guideline documents, including the 2012 Land Based Wind Energy Guidelines. The Company

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299		Company is committed to establishing development and implementation schedules and
300		protocols that recognize potential environmental impacts and strive to mitigate them.
301	Q.	How will potential visual and lighting impacts from the Wind Projects be
302		addressed?
303	A.	Wyoming state and county permitting regulations contain requirements that recognize
304		and address potential visual and lighting impacts. The Company will incorporate those
305		applicable measures into the siting, construction, and operations of the Wind Projects
306		as part of the permitting process. Such measures may include: down shielded lighting
307		on project infrastructure, Federal Aviation Administration approved/recommended
308		turbine lighting protocols, active aviation light management, and use of approved
309		turbine paint color schemes.
310	Q.	What is the expected operational life of the Wind Projects?
311	A.	The anticipated operational life of the Wind Projects has been assessed at 30 years for
312		the purposes of the Application, which aligns with the Company's currently approved
313		depreciable life for wind resources. The operational life may be reviewed and extended
314		based on advances in turbine technologies and/or improvements in maintenance
315		processes through the course of the Company's regular depreciation studies and filings.
316	Q.	Will the Wind Projects be decommissioned or repowered at the end of their
317		operational life?
318	A.	The Company may dismantle and reclaim the Wind Projects at the end of their
319		operational life based upon operating permit requirements. Typically, county and state
319320		operational life based upon operating permit requirements. Typically, county and state agencies identify the decommissioning requirements during the permitting process,

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including expected reclamation efforts and overall decommissioning costs and security requirements. The Company may also consider replacing or upgrading the existing infrastructure at the end of the operational life if conditions (*i.e.*, economics, permitting, customer load needs, etc.) are conducive to reinvestment in the Wind Projects.

Q. When will construction of the Wind Projects begin and end?

A.

A.

As described in detail in the exhibits attached to my testimony, site construction of the Wind Projects will begin as soon as the fourth quarter of 2019. The Company will not begin construction, however, until it has received all of the necessary regulatory approvals and applicable permits and authorizations from other local, state, tribal or federal governmental agencies that have jurisdiction over the construction or operation of the Wind Projects, including approval from the ISC and conclusion of the 2017R RFP to ensure that the projects ultimately selected are in the best interest of customers. The Company anticipates that substantial completion, under normal construction circumstances, weather conditions, labor availability and materials delivery, will be achieved by November 15, 2020.

Q. Please explain why the Wind Projects are in the public interest.

The information and analysis in the Company's 2017 IRP and in this Application demonstrate that the Company meets the public interest standard as articulated in Utah Code Annotated § 54-17-302(3)(c). The Wind Projects are in the public interest because: (1) they will become an essential element of the Company's diversified resource portfolio that is needed to serve customers; (2) the facilities are desirable due to location-specific attributes; and (3) the Wind Projects will benefit customers as a

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343		whole.
344		REQUIREMENTS OF COMMISSION RULE 746-430-2(1)
345	Q.	Please summarize how the Company's Application meets the requirements for
346		approval of a significant energy resource.
347	A.	Commission Rule 746-430-2(1) describes what must be included in an application for
348		approval of a significant energy resource. As such, I have incorporated exhibits to my
349		testimony that provide information for the Wind Projects pertaining to R746-430-
350		2(1)(a), (b), (e) and (f) requirements. The other requirements under Rule 746-430-2(1)
351		are addressed in the testimony of the other witnesses supporting the Application.
352	Q.	Please describe your exhibits for the nominal 250 MW Ekola Flats facility that
353		provide the information required by Commission Rule 746-430-2(1).
354	A.	Information for the nominal 250 MW Ekola Flats facility is included in Confidential
355		Exhibit RMP(CAT-1) to my testimony. Confidential Exhibit RMP(CAT-1)
356		Subparts are identified as follows:
357		Highly Confidential Exhibit CAT1-1—Wind Turbine Generator Site Layout
358		• Highly Confidential Exhibit CAT1-2—Wind Turbine Generator Scope of Supply
359		Example
360		• Confidential Exhibit CAT1-3—Balance of Plant Scope of Work Template
361		Confidential Exhibit CAT1-4—Capital Costs Detail
362		Confidential Exhibit CAT1-5—Incremental Operational and Maintenance and
363		Ongoing Capital Costs Detail
364		Confidential Exhibit CAT1-6—Indicative Project Execution Schedule

365		 Highly Confidential Exhibit CAT1-7—Preliminary Project Map
366		Confidential Exhibit CAT1-8—Geotechnical Report
367		Confidential Exhibit CAT1-9—Preliminary Topographical Map
368		• Confidential Exhibit CAT1-10—Preliminary Scenic Byways, Recreational Areas,
369		National Parks, and State Parks Review
370		Highly Confidential Exhibit CAT1-11—Preliminary Cultural and Paleontological
371		Resources Review
372		• Confidential Exhibit CAT1-12—Preliminary Wildlife and Plant Species of
373		Potential Concern Review
374		Confidential Exhibit CAT1-13—Preliminary Aviation and Airspace Review
375		Confidential Exhibit CAT1-14—Interconnection Facilities Study
376		• Confidential Exhibit CAT1-15—Preliminary Local, State, Federal, and Tribal
377		Requirements Review
378	Q.	Please describe the exhibits to your testimony for the nominal 250 MW TB Flats I
379		wind facility and the nominal 250 MW TB Flats II wind facility provide the
380		information required by Commission Rule 746-430-2(1).
381	A.	Information for the nominal 250 MW TB Flats I wind facility and the nominal 250 MW
382		TB Flats II wind facility is included in Confidential Exhibit RMP(CAT-2) to my
383		testimony. Confidential Exhibit RMP(CAT-2) Subparts CAT2-1 through CAT2-16
384		are provided with the similar reference material designations as the CAT1 Exhibit
385		Subparts listed above. The required information for these two facilities is incorporated
386		into one set of exhibits due to the contiguous development and adjacent locations of

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387		the facilities.
388	Q.	Please describe the exhibits for the nominal 110 MW McFadden Ridge II wind
389		facility that provide the information required by Commission Rule 746-430-2(1).
390	A.	Information for the nominal 110 MW McFadden Ridge II wind facility is included in
391		Exhibit RMP(CAT-3) to my testimony. Exhibit RMP(CAT-3) Subparts CAT3-1
392		through CAT3-17 are provided with similar reference material designations as the
393		CAT1 and CAT2 Exhibit Subparts listed above.
394	Q.	Do you propose to file supplemental testimony and exhibits to address certain
395		requirements of Commission Rule 746-430-2(1) upon completion of the 2017R
396		RFP?
397	A.	Yes. My supplemental testimony and exhibits will address additional information
398		required by 746-430-2(1)(a), (b), (e) and (f) as soon as that information is available
399		upon completion of the 2017R RFP.
400		CONCLUSION AND RECOMMENDATION
401	Q.	Please summarize your recommendation to the Commission.
402	A.	I recommend that the Commission determine that the Wind Projects, or the alternative
403		or additional wind facilities that result from the 2017R RFP, provide significant benefits
404		to customers and therefore are in the public interest. Based on this conclusion, I
405		recommend that the Commission grant the Company's request for approval of the Wind
406		Projects, or alternatives that result from the 2017R RFP, at the conclusion of these
407		proceedings.

- 408 Q. Does this complete your direct testimony?
- 409 A. Yes.