Exhibit No.: Issues: Acquisition of Wind Projects, Tax Equity Compliance, Capital Structure Witness: Todd Mooney Type of Exhibit: Direct Testimony Sponsoring Party: The Empire District Electric Company Case No.: ER-2021-0312 Date Testimony Prepared: May 2021

#### Before the Public Service Commission of the State of Missouri

**Direct Testimony** 

of

**Todd Mooney** 

on behalf of

The Empire District Electric Company

May 2021



\*\*<u>DENOTES CONFIDENTIAL</u>\*\* 20 CSR 4240-2.135(2)(A)8

\*HC\*<u>DENOTES HIGHLY CONFIDENTIAL</u>\*HC\* 20 CSR 4240-2.135(4)

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#### DIRECT TESTIMONY OF TODD MOONEY THE EMPIRE DISTRICT ELECTRIC COMPANY BEFORE THE MISSOURI PUBLIC SERVICE COMMISSION CASE NO. ER-2021-0312

#### 1 I. INTRODUCTION

- 2 Q. Please state your name and business address.
- A. My name is Todd Mooney. My business address is 354 Davis Road, Oakville, ON L6J
  2X1.
- 5 Q. By whom are you employed and in what capacity?
- A. I am Vice President, Finance & Administration at Liberty Utilities (Canada) Corp., a
  subsidiary of Algonquin Power & Utilities Corp. ("APUC"), which is the ultimate
  corporate parent of The Empire District Electric Company ("Empire" or the
  "Company").

#### 10 Q. On whose behalf are you testifying in this proceeding?

11 A. I am testifying on behalf of Empire.

#### 12 Q. Please describe your educational and professional background.

13 I hold a Master of Accounting from the University of Waterloo and am a Chartered A. 14 Accountant. I have worked for APUC since January 2012 in a variety of capacities, 15 including as Director of Finance and Administration and Vice President of Finance and 16 Administration for Algonquin Power Co., APUC's non-regulated generation 17 subsidiary. In my current position as Vice President, Finance & Administration, I lead the Financial Reporting, Accounting & Tax function for APUC, representing a team of 18 19 over 100 professionals responsible for external reporting under US GAAP, 20 consolidations, accounting standards, regulatory accounting, fixed asset accounting, accounts payable, general accounting and income tax planning and compliance. Prior 21

1	to my work at APUC, I was employed as the Director of Corporate Finance at Psion
2	PLC where I led Psion's global accounting, tax, and treasury functions.

## 3 Q. Have you previously testified before the Missouri Public Service Commission 4 ("Commission") or any other regulatory agency?

5 A. Yes. I testified before the Commission in File No. EO-2018-0092 (Application of The 6 Empire District Electric Company for Approval of its Customer Savings Plan) and File 7 No. EA-2019-0010 (Application of The Empire District Electric Company for 8 Certificates of Convenience and Necessity Related to Wind Generation Facilities). I 9 have also testified before the Arkansas Public Service Commission, the Kansas 10 Corporation Commission and the Oklahoma Corporation Commission in dockets 11 relating to Empire's wind generation facilities and before the California Public Utilities 12 Commission.

#### 13 Q. What is the purpose of your Direct Testimony in this proceeding?

14 The purpose of my testimony is to describe Empire's acquisition of three wind holding A. 15 companies that own approximately 600 megawatts ("MW") of wind generation for 16 which Empire seeks cost recovery as a part of this general rate case. Specifically, my 17 testimony will: (a) describe Empire's acquisition, in conjunction with tax equity 18 financing, of the three holding companies (the "Wind Holding Companies") that, 19 through subsidiary project companies, own the 149.4 MW North Fork Ridge wind 20 project, the 149.4 MW Kings Point wind project, and the 301.0 MW Neosho Ridge 21 wind project (collectively, the "Wind Projects"); (b) demonstrate that the acquired 22 Wind Projects will deliver energy at an anticipated Levelized Cost of Energy ("LCOE") 23 that was shown to deliver substantial savings to Empire's customers, (c) demonstrate 24 how Empire's acquisition of the Wind Projects complies with the tax equity and other

1		requirements of the Commission's Report and Order in File No. EA-2019-0010 (the				
2		"CCN Order"), (d) describe Liberty Utilities Co.'s role in the development of the North				
3		Fork Ridge and Kings Point Wind Projects, and; (e) provide details on Empire's capital				
4		structure and the overall weighted average rate of return recommendation for this case.				
5		Details regarding each of the Wind Projects and how they are operating today are in				
6		the Direct Testimony of Shaen T. Rooney, and the Direct Testimony of John J. Reed				
7		discusses the Company's proposed return on equity and the reasonableness of Empire's				
8		capital structure for ratemaking purposes.				
9	II.	THE ACQUISITION OF THE WIND PROJECTS				
10	Q.	Was Empire previously authorized by the Commission to acquire the Wind				
11		Holding Companies?				
12	A.	Yes. In the June 19, 2019 Order in File No. EA-2019-0010 (the "CCN Order"), the				
13		Commission ordered that:				
14 15 16 17 18 19 20 21 22		1. The Empire District Electric Company is authorized to acquire an interest in the holding companies that will own the project companies that will be constructing and installing the Kings Point Wind Project, and is granted a certificate of convenience and necessity to own, operate, maintain, and otherwise control and manage the Kings Point Wind Project to be constructed in Barton, Dade, Jasper, and Lawrence Counties in Missouri, including the infrastructure necessary for the generators to operate as an integrated energy production facility and deliver energy to the system.				
22 23 24 25 26 27 28 29 30		2. The Empire District Electric Company is authorized to acquire an interest in the holding companies that will own the project companies that will be constructing and installing the North Fork Ridge Wind Project, and is granted a certificate of convenience and necessity to own, operate, maintain, and otherwise control and manage the North Fork Wind Project to be constructed in Barton and Jasper Counties in Missouri, including the infrastructure necessary for the generators to operate as an integrated energy production facility and deliver energy to the system.				

- 1 3. The Empire District Electric Company is authorized to acquire an interest in 2 the holding companies that will own the project companies that will be 3 constructing and installing the Neosho Ridge Wind Project, and is granted a 4 certificate of convenience and necessity to own, operate, maintain, and 5 otherwise control and manage the Neosho Ridge Wind Project to be 6 constructed in Neosho County, Kansas, including the infrastructure necessary 7 for the generators to operate as an integrated energy production facility and 8 deliver energy to the system.
- 10 CCN Order at 52-53.

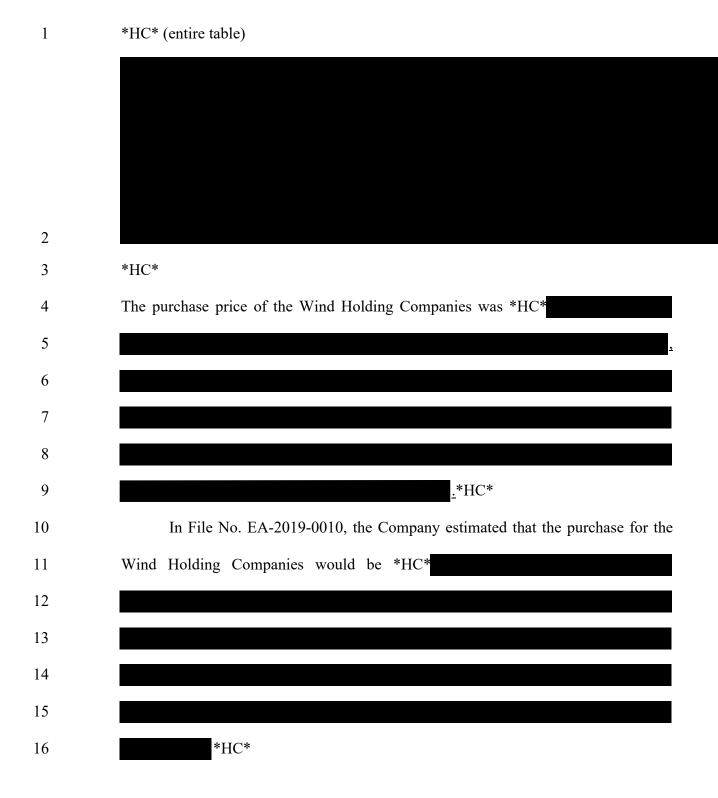
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- 11 Q. When did Empire acquire the Wind Holding Companies?
- 12 A. Empire, along with its tax equity partners Wells Fargo Central Pacific Holdings, Inc.
- 13 and JPM Capital Corporation (together, the "Tax Equity Partners"), acquired the
- 14 holding company for the North Fork Ridge Wind Project on January 27, 2021<sup>1</sup>, the
- 15 holding company for the Neosho Ridge Wind Project on May 5, 2021, and the holding
- 16 company for the Kings Point Wind Project on May 5, 2021.

## 17 III. <u>SAVINGS TO EMPIRE'S CUSTOMERS FROM THE ACQUIRED WIND</u>

- 18 **PROJECTS**
- 19 Q. What was the purchase price of the Wind Holding Companies and how does this
- 20 compare to the purchase price that was estimated in File No. Ea-2019-0010?
- 21 A. The following table reflects the purchase price of the Wind Holding Companies as
- 22 compared to the projections from the CCN docket:

<sup>&</sup>lt;sup>1</sup> The Tax Equity Partners made an initial 20% investment in the North Fork Ridge Wind Project on December 30, 2020, with the remaining 80% of their investment on January 27, 2021.



 $<sup>^{2}</sup>$  Cost estimates as of March 30, 2021. Final costs will be provided as part of the update period, which is as of June 30, 2021.

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9 While the increase to the purchase price and the decrease to up-front tax equity 10 funding has increased LCOE, this increase has been offset by increased energy 11 production, a decrease to operating expenses and a decrease to the cost of debt. Given this result and given the extensive economic analysis that was performed in File No. 12 13 EO-2018-0092, Empire is confident that it will deliver the anticipated savings to 14 customers. Furthermore, as part of the Report and Order in File No. EA-2019-0010, 15 Empire agreed to provide a Market Price Protection Mechanism (EA-2019-0010, page 16 59, paragraph 6(p),) to provide customers with further assurance of savings. As Tisha 17 Sanderson explains in her Direct Testimony, the Market Price Protection Mechanism 18 measures the final revenue requirement associated with the Wind Projects against the 19 revenues they generate through sales of power into the Southwest Power Pool 20 Integrated Marketplace. If the revenues generated from wind sales is not enough to 21 cover the revenue requirement over a ten year period, the MPP provides \$52.5 million 22 of protection to the Company's customers. Ms. Sanderson's Direct Testimony

<sup>&</sup>lt;sup>3</sup> Cost estimates as of March 30, 2021. Final costs will be provided as part of the update period, which is as of June 30, 2021.

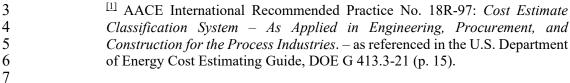
1		provides more detail on how those calculations will be performed over the ten year
2		period, but effectively, this mechanism protects customers against any such change in
3		the purchase price or LCOE of the Wind Projects.
4	Q.	What was the final cost of the Wind Projects, and how does it compare to the
5		estimates previously shared with the Commission?
6	A.	The total cost of the Wind Projects was *HC*
7		*HC*
8	Q.	Is this price within the expected range of deviation between a project estimate and
9		its final amount in the capital construction industry?
10	A.	Yes. The expected variance between the estimate and actual project cost depends on
11		the stage of project development when an estimate is made. As the project nears
12		completion, the expected range of deviation progressively becomes narrower. The table
13		below provides a summary view of these expected ranges at various stages of project
14		development published by the Association for the Advancement in Cost Engineering
15		(AACE International). As the table indicates, in the most detailed (Class 1 Definitive)
16		stage of project classification, the expected deviation range between estimate and actual
17		is between -10% to +15%, which places our wind projects' final cost-to-estimate
18		difference of +5.2% firmly in the middle of the range of expected outcomes. Given the
19		magnitude of this project, and the fact that it was completed during a global pandemic,
20		with key parts such as turbines coming from across the world and subject to COVID-
21		related manufacturing and shipping delays, we are pleased that we are able to deliver
22		the project very close to the projected capital expenditures and at effectively the
23		identical LCOE that was projected.

## AACE International Cost Classifications and Expected Ranges of Accuracy<sup>[1]</sup>

				Expected Range of Accuracy		
AACE Class	ANSI Classification	Typical Use	Project Definition	Low Expected Actual Cost	High Expected Actual Cost	Other Terms
Class 5	Order-of- Magnitude	Strategic Planning; Concept Screening	0% to 2%	-50% to - 20%	+30% to +100%	ROM; Ballpark; Blue Sky; Ratio
Class 4		Feasibility Study	1% to 15%	-30% to - 15%	+20% to +50%	Feasibility; Top-down; Screening; Pre-design
Class 3	Budgetary	Budgeting	10% to 40%	-20% to - 10%	+10% to +30%	Budget; Basic Engineering Phase; Semi- detailed
Class 2 Class 1	Definitive	Bidding; Project Controls; Change Management	30% to 75%	-15% to - 5%	+5% to +20%	Engineering; Bid; Detailed Control; Forced Detail
	Demnitive	Bidding; Project Controls; Change Management	65% to 100%	-10% to - 3%	+3% to +15%	Bottoms Up; Full Detail; Firm Price

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#### Q. How much of the increase in costs do you attribute to COVID-19?

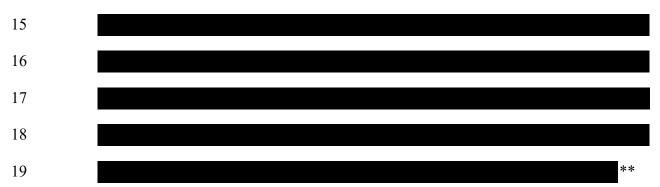
- 9 A. We estimate that the COVID-19 pandemic caused approximately \*HC\*
- 10

\*HC\* for the three Wind Projects.

## 11 Q. Did the Company make any efforts to mitigate those cost increases?

- 12 A. Absolutely. The Wind Projects received a number of force majeure notices from
- 13 Vestas, the manufacturer of the turbines, claiming that they could not deliver the
- 14

turbines on time due to covid-19. \*\*



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1	Q.	How does the settlement that Empire was able to achieve compare to the
2		experience of similar projects over the same timeframe?
3	А.	**
4		** We are very pleased that we were able to
5		leverage Algonquin's extensive knowledge and expertise in the development of wind
6		farms to benefit Empire's customers in this regard.
7	Q.	Other than COVID impacts, were there other circumstances that impacted some
8		of Wind Projects cost increases?
9	А.	Yes. Unfortunately, the Southwest Power Pool ("SPP") has experienced significant
10		delays in processing applications in the interconnection queue, making it difficult to
11		obtain interconnection cost estimates from SPP at the beginning of the project.
12		Although Empire proactively endeavored to advance the SPP review process, including
13		by obtaining SPP's approval to engage, and engaging, a third party to complete parts
14		of the interconnection study required for approval, SPP was unable to complete the
15		work by the deadline in the PSAs. Empire's efforts ultimately did lead to the execution
16		of interconnection agreements in early November 2019. Anticipated interconnection
17		costs <sup>4</sup> for the Neosho Ridge project increased by approximately <u>\$8 million</u> based on
18		updated information from SPP, while estimated interconnection <sup>4</sup> and gen-tie costs for
19		the North Fork Ridge project increased by approximately <u>\$3 million</u> . Interconnection <sup>4</sup>
20		and gen-tie costs decreased by approximately \$13 million for the Kings Point Wind
21		Project based on information from SPP and the final cost of the gen-tie line. Similarly,
22		because of significant delays by the U.S. Army Corps of Engineers issuance of Clean

<sup>&</sup>lt;sup>4</sup> Cost estimates as of March 30, 2021 and are subject to further change pending results of SPP's DISIS studies. Final costs will be provided as part of the update period, which is as of June 30, 2021.

1		Water Act 404 permits, there were costs to accelerate the construction of the Kings
2		Point and North Fork Ridge projects to keep the projects on schedule in order to meet
3		deadlines for project completion to qualify for PTCs. <sup>5</sup> In addition, there were other
4		factors such as expanded setback requirements imposed by Neosho County in the case
5		of the Neosho Ridge project and an increased presence of intact rock and groundwater
6		within excavation zones that were discovered during project construction. Highly
7		Confidential Schedule TM-1 presents a detailed explanation of the changes in the
8		purchase price.
9	Q.	Was Empire able to negotiate any contract provisions to reduce the costs of the of
10		the Wind Projects?
11	А.	Yes. As provided in Section 2.3(d) of the Purchase and Sale Agreements, any
12		electricity production delivered to the Southwest Power Pool's Integrated Marketplace
13		prior to Empire's acquisition of the Wind Projects results in a reduction to the purchase
14		price, estimated at *HC* *HC*
15	IV.	COMPLIANCE WITH THE CCN ORDER
16 17	Q.	Did the CCN order condition the grant of the CCN?
18	А.	Yes. The CCN Order contained a number of conditions, some of which I address below
19		and others of which are addressed in the Direct Testimony of witnesses Shaen T.
20		Rooney and Tisha Sanderson. My testimony will address the conditions that relate to
21		the planned ownership structure of the Wind Projects as well as all tax equity
22		conditions.

<sup>&</sup>lt;sup>5</sup> Note that at the time those acceleration costs were incurred, the PTC deadline was December 31, 2020. On May 27, 2020, the IRS extended the PTC deadline by one year to December 31, 2021 (Notice 2020-41).

## 1 Q. Has Empire complied with the requirements in the CCN order regarding the

- 2 planned ownership structure of the Wind Projects?
- 3 A. Yes. The CCN Order required the following:

4 Planned Ownership Structure. The Kings Point, North Fork Ridge, and Neosho Ridge wind projects shall be accomplished using federal tax 5 6 incentives in conjunction with a tax equity structure. To create the tax 7 equity structure, Empire and a tax equity partner will own a holding company 8 for each Wind Project, each of which will be a direct subsidiary of Empire 9 (the "Wind Holdco"). Empire, via the Wind Holdco, will acquire a wind 10 project company ("Wind Project Co.") that owns a specific Wind Project. After approximately ten years of tax equity participation and Empire joint 11 ownership of the Wind Project Co. (through the Wind Holdco), Empire will 12 13 have the right to purchase the tax equity partner's ownership interest in the 14 Wind Holdco, at which point Empire would wholly own the Wind Project Co.

16 CCN Order at 54.

15

As part of the acquisition process, all three holding companies were consolidated into 17 Empire Wind Holdings, LLC which is a direct subsidiary of Empire.<sup>6</sup> Empire now 18 19 owns the Class B membership interests in Empire Wind Holdings, LLC and the Tax 20 Equity Partners own the Class A membership interests. This two class structure is 21 necessary to implement the tax equity structure, including the provision of the differing 22 allocations of tax benefits and cash distributions to the Tax Equity Partners and to 23 Empire as outlined in in the confidential table found in Paragraph 12.g.i. of the Non-24 Unanimous Stipulation and Agreement to File No. EA-2019-0010. The rights of each 25 class of the Class A and Class B members is spelled out in the Limited Liability 26 Agreement ("LLCA") for Empire Wind Holdings, LLC which is attached to my 27 testimony as Highly Confidential Schedule TM-2.

<sup>&</sup>lt;sup>6</sup> I describe further below how this meets the "planned ownership structure" requirements of the CCN Order.

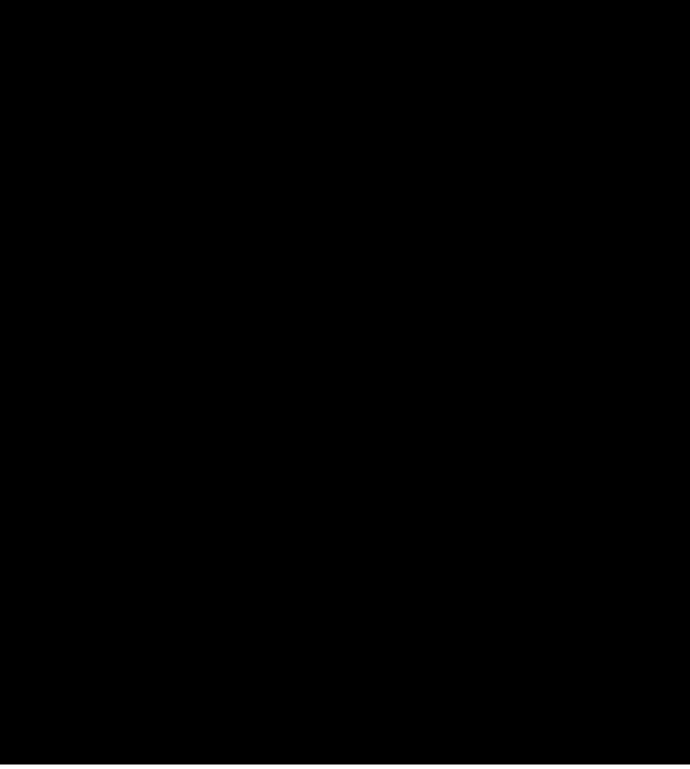
#### 1 Q. What are the tax equity requirements from the CCN order?

2 A. The CCN Order requires the following:

3 4		The following conditions shall apply to the transactions with the Tax Equity Partner(s):
5 6 7 8 9 10 11 12		i. Empire, through its ownership in Wind Holdco(s), shall contract with tax equity partner(s) ("TEPs") for financing of the Wind Projects (a tax equity agreement), which contracts shall include terms for the approximate initial capital contribution, approximate expected return, partnership taxable income allocations for Years 1 to 10 (flip date) and thereafter, contingent contributions Years 1 to 10, purchase option, and
12		creditworthiness, consistent with the parameters set out in the confidential table found in Paragraph 12.g.i. of the Non-
14		Unanimous Stipulation and Agreement.
15		ii. Empire, through its ownership in the Wind Holdcos, shall enter
16		into any such tax equity agreements with a TEP, as evidenced
17		by an executed Term Sheet with one or more TEPs before
18		issuing the Notice to Proceed with Construction of that project;
19		iii. Within 30 days of when it executes a tax equity agreement
20 21		Empire shall file in File No. EA-2019-0010 a notice it has accounted the account and provide to each of the other
21		executed the agreement and provide to each of the other signatories a copy of that tax equity agreement; and
23		iv. The tax equity agreement that Empire executes for a Wind
24		Project must satisfy each and every one of the parameters in the
25		table above.
26		
27		CCN Order at 56-57.
28	Q.	Has Empire satisfied these requirements?
29	A.	Yes. Empire entered into Equity Capital Contribution Agreements ("ECCAs") with
30		the Tax Equity Partners for each of the Wind Projects <sup>7</sup> and a LLCA (as described earlier
31		in my testimony) for the holding company of the Wind Projects, Empire Wind
32		Holdings, LLC. The ECCAs and LLCA set forth the terms and conditions of the Tax

<sup>&</sup>lt;sup>7</sup> Empire entered into the ECCA for the Neosho Ridge Wind Project on November 8, 2019 and which was filed with the Commission on November 13, 2019. The Neosho Ridge Wind ECCA was amended on December 30, 2020, the date on which Empire entered into the Kings Point and North Fork Ridge ECCAs so that all three agreements would have consistent terms and conditions. On January 25, 2021, Empire provided the requisite notice to the Commission of the North Fork Ridge and Kings Point ECCAs, and the First Amendment to the Neosho Ridge ECCA.

Equity Partners' investment in the Wind Projects. The following table identifies the requirements from Paragraph 12.g.i and the final terms from the ECCAs and LLCA and how each is met: \*HC\* (entire table)



#### \*HC\*

<sup>8</sup> The "flip date" is the date at which the tax equity partner(s) has achieved its expected return, scheduled to be approximately 10 years from the commencement of commercial operations.

<sup>&</sup>lt;sup>9</sup> Contingent Contributions (referred to as "Paygo") represent additional contributions of cash by the tax equity partners to Empire Wind Holdings, LLC based on actual production in excess of a threshold. Paygo contributions received by Empire Wind Holdings, LLC are distributed to Empire and hence reduce the cost of service to customers.

## 1 V. PARTICIPATION OF LIBERTY UTILITIES CO. IN THE WIND PROJECTS

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# Q. Why did Liberty Utilities Co., Empire's indirect parent company, assume a role in the Wind Projects?

5 A. On July 7, 2020, Liberty Utilities Co. ("LUCo") stepped into the shoes of Tenaska 6 Missouri Matrix Wind Holdings, LLC ("Tenaska") which was one of the two sellers of 7 the North Fork Ridge and Kings Point Wind Projects (the other seller being Steelhead 8 Missouri Matrix Wind Holdings, LLC). This resulted from Tenaska's decision to 9 terminate its role in the projects when the Southwest Power Pool did not issue 10 interconnection agreements for the North Fork Ridge and Kings Point Wind Projects 11 in a timely manner, and because the U.S. Army Corps of Engineers did not timely issue 12 the 404 Permit. As the parent of Empire, LUCo desired that Empire's customers have 13 the opportunity to benefit from the ownership of low-cost wind energy in the limited 14 remaining window for federal production tax credits that effectively boosted the 15 economics of wind power procurements. Empire and LUCo, as its designee to step 16 into the shoes of Tenaska, closely evaluated all available information and, based on 17 that information and expertise of their respective personnel, determined that adequate 18 time remained to complete the construction of the Kings Point and North Fork Ridge 19 Wind within acceptable cost and risk parameters that remained consistent with 20 Empire's goals.

## Q. Why didn't Empire step in and complete the Wind Projects rather than its parent company?

A. Empire did not itself elect to purchase Tenaska's interest in the Wind Projects and
 assume its obligations as a seller under the PSAs for two reasons. First, it was uncertain
 whether Empire had received the necessary authorization from the MPSC to

1 consummate an immediate step-in at that stage of the Wind Projects. Second, while 2 Empire and LUCo had concluded that the Wind Projects could be continued within 3 acceptable cost and risk parameters, and setting aside any regulatory uncertainty, 4 having Empire step into Tenaska's shoes at that point would have resulted in Empire 5 assuming additional cost and timing risks as a developer. Therefore, LUCo stepped in, assuming (along with Steelhead) the risks allocated to the sellers by the terms of the 6 7 PSAs. In doing so, LUCo preserved for Empire the protections afforded to Empire 8 under the PSAs with respect to remaining risks of construction and with respect to 9 satisfaction of other conditions to closing under the PSAs (all of which remain 10 unchanged in the amended and restated PSAs).

## 11 Q. Will LUCo profit from the development of the North Fork Ridge and Kings Point 12 Wind Projects?

A. No, it will not. To the extent that LUCo would be entitled to any development fee or
profits associated with the North Fork Ridge and Kings Point Wind Project, it will not
retain any such fees or profits. The amount of such profits, if any, that LUCo will
relinquish to Empire will be determined once final project costs are known in July,
2021.

18 **VI**.

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CAPITAL STRUCTURE

#### 20 Q. What is the purpose of this section of your testimony?

A. This section of my testimony will present the proposed pro formed capital structure for
Empire and the overall weighted average rate of return recommendation for this case.
I will start by presenting Empire's, LUCo's, and Algonquin Power & Utilities Corp.'s
("APUC") actual per books capital structures at September 30, 2020. Next, I show the
adjusted capital structure for these same three companies reflecting the pro forma

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1 adjustments related to the acquisition of the three wind farms discussed earlier in my 2 testimony. I then make further adjustments to these adjusted capital structures 3 reflecting the results of the Commission's Order in Case No. ER-2019-0374. I will then 4 compare the resultant three adjusted capital structures to determine the most 5 economical for Empire in this case for purposes of complying with the financing conditions in Case No. EM-2016-0213. Finally, I discuss the actual cost rate for 6 7 Empire's long-term debt including the pro formed long term debt changes. I then 8 combine the long term debt rate, witness Reed's cost of common equity 9 recommendation and my recommended capital structure ratios, resulting in the rate of return of 7.03% proposed in this case. Schedule TM-3 shows the weighted average 10 11 cost of capital calculations.

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#### Q. Why are you showing the capital structures for Empire, LUCo and APUC?

A. Under the original Merger Order in Case No. EM-2016-0213, there were various
 capital structure and financing conditions. Regarding capital structure, merger
 stipulation provisions 4 and 5 from the 2016 Order essentially require a comparison of
 Empire, LUCo and APUC's capital structures to determine the most economical for
 purposes of determining a fair and reasonable allowed rate of return for Empire. Below

- 18 are the actual conditions:
- 19 4. Empire shall not seek an increase to the cost of capital as a result of this 20 Transaction or Empire's ongoing affiliation with Algonquin Power & Utilities 21 Corp. and its affiliates other than Empire after the Transaction. Any net 22 increase in the cost of capital Empire seeks shall be supported by documentation 23 that: (a) the increases are a result of factors not associated with the Transaction 24 or the post Transaction operations of Algonquin Power & Utilities Corp. or its 25 non-Empire affiliates; (b) the increases are not a result of changes in business, 26 market, economic or other conditions caused by the Transaction or the post-Transaction operations of Algonquin Power & Utilities Corp. or its non-Empire 27 28 affiliates; and (c) the increases are not a result of changes in the risk profile of 29 Empire caused by the Transaction or the post-Transaction operations of

Algonquin Power & Utilities Corp. or its non-Empire affiliates. The provisions of this section are intended to recognize the Commission's authority to consider, in appropriate proceedings, whether this Transaction or the post Transaction operations of Algonquin Power & Utilities Corp. or its non-Empire affiliates has resulted in capital cost increases for Empire. Nothing in this agreement shall restrict the Commission from disallowing such capital cost increases from recovery in Empire's rates.

95.If Empire's per books capital structure is different from that of the entity or10entities in which Empire relies for its financing needs, Empire shall be required11to provide evidence in subsequent rate cases as to why Empire's per book capital12structure is the most economical for purposes of determining a fair and13reasonable allowed rate of return for purposes of determining Empire's revenue14requirement.

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#### 6 Q. What capital structure do you recommend for Empire in this case?

- 17 A. I recommend a capital structure of 52.44% common equity and 47.56% long-term debt.
- 18 This is based on Empire's consolidated actual capital structure at September 30, 2020,
- 19 pro formed for the wind farm financings and common equity changes through March
- 20 31, 2021. Empire's consolidated capital structure is comparable to its indirect parent
- 21 company, LUCo, and more economical than APUC's after pro forming the same wind
- farm financing arrangements and any common equity changes to March 31, 2021 and
- also the Case No. ER-2019-0374 case adjustments mentioned above. I will discuss
- 24 LUCo's and APUC's capital structures later in my testimony.
- 25 Q. What was Empire's per books capital structure as of September 30, 2020?
- A. <u>Schedule TM-3</u> attached to my testimony shows a common equity ratio of
   approximately 59.35% and a long-term debt ratio of 40.65%.
- 28 Q. What is Empire's consolidated capital structure after reflecting the pro forma
- 29 adjustments for the Wind Farm acquisitions?

- A. <u>Schedule TM-3</u> shows the pro forma consolidated capital structure for Empire is
   52.44% common equity and 47.56% long-term debt based on the planned financings at
   the Empire level to finance the rate base additions for the Wind Projects.
- 4 Q. What were LUCo's and APUC's per books capital structures at September 30,
  5 2020?
- A. <u>Schedule TM-4</u> shows LUCo's actual per books capital structure of 61.93% total
  equity and 38.07% long-term debt, and <u>Schedule TM-5</u> shows APUC's actual per
  books capital structure of 53.04% total equity, 1.94% preferred stock, 3.22%
  redeemable non-controlling interest, held by related party and 41.80% long-term debt.
- 10 Q. What are LUCo's and APUC's capital structure ratios after reflecting the pro
  11 forma adjustments for the Wind Farm financing?
- A. <u>Schedules TM-4 and TM-5</u> show 62.38% total equity and 37.62% long-term debt for
   LUCo and 52.74% total equity, 1.59% preferred stock, 2.64% redeemable non controlling interest, held by related party and 43.04% long-term debt for APUC.
- 15 Q. Did you use these pro forma capital structures to determine the most economical
   16 capital structure for Empire pursuant to financing conditions 4 and 5 from Case
   17 No. EM-2016-0213 discussed previously?
- A. No, I did not. I started with these pro formed capital structures and then adjusted
   LUCo's and APUC's based on the submitted testimony and exhibits of the OPC in
   Case No. ER-2019-0374. In that Order the Commission appears to have adopted OPC's
   recommended capital structure adjustments for LUCo and APUC to reach its final
   capital structure decision for Empire. <u>Schedules TM-4 and TM-5</u> show LUCo and
   APUC's resulting capital structures and ratios after reflecting similar OPC adjustments

to their adjusted capital structures at the end of the test period.<sup>10</sup> Schedule TM-4 shows
LUCO's total equity ratio at 52.79% and long-term debt at 47.21% Schedule TM-5
shows APUC's total equity ratio at 56.28%, 0.79% preferred stock, 2.64% redeemable
non-controlling interest, held by related party and 40.30% long-term debt after the
assumed adjustments from ER-2019-0374.equity ratio at 56.28%, 0.79% preferred
stock, 2.64% redeemable non-controlling interest, held by related party and 40.30%
long-term debt after the assumed adjustments from ER-2019-0374.

8 Q. What is the proposed cost of debt included in the weighted average cost of capital?

9 A. Schedule TM-3 details Empire's outstanding long-term debt and costs including the 10 most recent notes payable issued to LUCo in 2018 and 2021. The initial Empire note 11 payable of \$90 million issued to LUCo in 2018 at an interest rate of 4.53% was 12 refinanced at 2.079% which reflects the cost of Liberty Utilities GP1 \$600 million 13 offering of Senior Notes in September 2020 (Green Bonds). Liberty Utilities GP1 is 14 the financing entity for LUCo. In addition, the proceeds from this note issuance were 15 used to pre-fund the acquisition of the three Wind Projects I discussed earlier. The 16 closing for these transactions occurred in 2021. The proceeds were initially used to pay down short-term debt and for other corporate purposes by LUCo until the Wind 17 18 Project closings occurred and the funds were needed.

## 19 Q. What is the weighted average cost of debt you are recommending in this case?

A. As <u>Schedule TM-3</u> shows, the pro formed weighted average cost of debt is 3.76%
which reflects all outstanding consolidated Empire long term debt at September 30,

<sup>&</sup>lt;sup>10</sup> For purposes of this filing, Empire has included the same Office of Public Counsel capital structure adjustment methodology for LUCO and APUC as used in Case No. ER-2019-0234 but does take issue with the specific adjustment methodology for LUCO. An appeal of this issue is pending in the Missouri Court of Appeals, Western District.

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- 2 \$90 million 4.53% 2018 note payable at 2.079%<sup>11</sup>.
- 3 Q. Mr. Mooney, what is your final recommendation on the weighted average cost of
- 4 capital in this case?
- 5 A. Based on <u>Schedule TM-3</u>, I recommend 7.03%.
- 6 Q. Does this conclude your Direct Testimony at this time?
- 7 A. Yes.

<sup>&</sup>lt;sup>11</sup> On March 3, 2021 the Federal Energy Regulatory Commission approved Empire's application for authorization to issue up to \$550 million of long term debt to its indirect parent LUCO.

## **VERIFICATION**

I, Todd Mooney, under penalty of perjury, on this 28th day of May, 2021, declare that the foregoing is true and correct to the best of my knowledge and belief.

/s/ Todd Mooney