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FILED

MISSOURI PUBLIC SERVICE COMMISSION

CASE NO.: ER-2018-0145

DIRECT TESTIMONY

OF

KIMBERLY H. WINSLOW

ON BEHALF OF

KANSAS CITY POWER & LIGHT COMPANY

Kansas City, Missouri January 2018

LLAL Exhibit No. 174 Date 9-25-18 Reporter 74 File No. 5R-2018-0145-0144

DIRECT TESTIMONY

OF

KIMBERLY H. WINSLOW

Case No. ER-2018-0145

1	Q.	Please state your name and business address.
2	Α.	My name is Kimberly H. Winslow. My business address is 1200 Main Street, Kansas
3		City, Missouri 64105.
4	Q.	On whose behalf are you testifying?
5	А.	I am testifying on behalf of Kansas City Power & Light Company ("KCP&L" or the
6		"Company").
7	Q.	Please state your educational background and describe your professional training
8		and experience.
9	А.	I graduated from Missouri University of Science and Technology with a Bachelor of
10		Science degree in Mechanical Engineering in 1990. In 1994, I graduated from
11		Rockhurst University with a Master of Business Administration degree. I began my
12		career at Black & Veatch in 1990 as an equipment engineer in its Gas, Oil and
13		Chemicals Division. Within a year, I transferred to Black & Veatch's Management
14		Consulting Division. As a project manager and consultant, I worked on various
15		projects for electric, gas, water and wastewater municipal and investor owned utilities,
16		ranging in scope from long-term electric and natural gas demand and energy forecasts,
17		cost of service and rate design studies, depreciation studies, valuation studies, and
18		preparation of financial feasibility assessments and Consulting Engineer's Reports for
19		revenue bond sales.

1		In December 2007, I began my employment with KCP&L as a Senior Energy
2		Consultant working with KCP&L's large industrial customers. In 2009, I assumed the
3		position of Manager of Energy Efficiency. In 2011, I transferred to our Generation
4		Division as a Senior Quantitative Analyst. In September 2013, I assumed the position
5		of Director of Energy Solutions within the Marketing and Public Affairs Division. I
6		am a Professional Engineer in the state of Missouri.
7	Q.	By whom and in what capacity are you employed?
8	А.	I am employed by Kansas City Power & Light Company ("KCP&L" or "Company")
9		as Director of Energy Solutions.
10	Q.	What are your responsibilities?
11	А.	I lead and direct the following teams: Customer Solutions, Regulated Products and
12		Services, Economic Development, Business Center and Market Intelligence. My
13		responsibilities include initiating and bringing to market new regulated products, as
14		well as improvements and innovations to existing affordability, energy efficiency and
. [,] 15		demand response products. I am also responsible for overseeing our small scale
16		renewable programs and offerings, as well as our Clean Charge Network.
17		Additionally, I oversee our key accounts team who work with our largest
18		customers (also referred to as Tier 1 customers). I also oversee our Business Center
19		who interact with our Tier 2 business customers (minimum \$50,000 annual revenue),
20		and our Economic Development team who focuses on attraction of new business
21		customers and retention and expansion of existing business customers.
22	Q.	What is the purpose of your testimony?
23	A:	I will be covering several topics as it relates to my responsibilities at KCP&L. I will
24		address (1) the Company's proposed Solar Subscription Pilot Rider and Renewable

1 Energy Program tariffs and explain why the Company believes the time is right to 2 propose these programs; and (2) the Company's proposed time of use ("TOU") pilots 3 and why the Company is asking for recovery of the associated lost margin and program 4 costs of the TOU rates through the Missouri Energy Efficiency Investment Act 5 ("MEEIA"). 6 **Solar Subscription Pilot Rider** 7 Please generally describe utility-owned shared solar programs. **Q:** 8 Utility-owned shared solar are programs designed to provide customers direct access A; 9 to solar generation without having to own, install and maintain their own solar 10 generation. The utility builds the solar facility, maintains it and virtually "transports" 11 the energy to customers who voluntarily enroll in the program. Program designs vary; 12 however, depending on the program and jurisdiction, customers generally buy a solar 13 panel directly, subscribe to its generation output, and/or subscribe to panel capacity. 14 Customers may not physically receive the energy generated from the solar, but do 15 receive the solar output as a credit to their bill. KCP&L's solar program ("Solar 16 Subscription Pilot Rider") is proposed in this filing and is defined in the Solar 17 Subscription Pilot Rider ("SSPR") tariff. Company witness Brad Lutz also addresses aspects of the SSPR tariff. 18 19 **O**: Why is the Company proposing the SSPR at this time? Offering SSPR provides choice to customers and will benefit those customers who 20 A: 21 want renewable generation but are unable to either afford their own solar generation

In anticipation of offering the SSPR, the Company surveyed its Customer
 Advisory Panel ("CAP") to further understand how customers perceived rooftop solar,

22

installation or whose particular circumstance does not allow for solar installation.

hindrances to rooftop solar adoption, and renewable preferences. The results indicate
that 54 percent of customers (642 of 1,189 surveyed) are interested in rooftop solar but
had not installed their own panels due to cost¹. In addition, 25 percent of customers
could not install due to either renting their home or zoning or subdivision restrictions.

5 While the survey responses are representative across the Company's three 6 jurisdictions (KCP&L-Missouri, KCP&L-Kansas, and KCP&L-Greater Missouri 7 Operations Company ("GMO")), in the KCP&L-MO jurisdiction, data indicates that 35 percent² of customers rent their homes, which is a greater number than the survey 8 9 results. Because renting typically precludes a customer from installing rooftop solar, 10 by offering the SSPR the Company can help to fill in the gap for those customers who 11 want renewable generation but are unable to physically install their own panels. 12 Furthermore, over half the customers surveyed said the option to purchase renewable 13 energy was important to them.³

Many utilities nationwide have begun to evaluate and offer programs that allow
customers access to solar generation as a way to offset a part or all of their energy
needs. Based on our customer survey and national trends, the Company believes it is
appropriate to provide customers with a utility-owned shared solar option.

18 Q: What other investor-owned utilities are currently offering utility-owned shared 19 solar programs within Kansas or Missouri?

A: Westar Energy ("Westar") in Kansas and Ameren Missouri ("Ameren") offer similar
solar programs in their respective states. Westar's program allows customers to

¹ October 4, 2017 Customer Advisory Panel Solar Survey.

² Appliance saturation survey conducted as part of the KCP&L 2016 DSM Potential Study, filed in EO-2017-0229, June 1, 2017.

³ October 4, 2017 Customer Advisory Panel Solar Survey.

subscribe to blocks of capacity (kW) and receive an energy credit on their monthly bill
based on the actual energy (kWh) output of that capacity. Energy usage and demand
exceeding the output of the subscribed solar capacity is priced at the customer's current
tariffed rates. The price of the solar is fixed and the term of the agreement is 5 to 20
years. Westar constructed a 1.2 MW solar system.

6 Ameren's program is structured differently than Westar's program. It allows 7 customers to subscribe to solar blocks of 100 kWh that will directly offset the equivalent energy that the customer uses. Similarly, energy usage exceeding the 8 9 amount of the subscribed solar energy is priced at the customer's current tariffed rates. The price of the solar may vary as additional solar generation is added to Ameren's 10 11 program such that the customer pays a levelized cost of the new and existing solar 12 generation. The term of Ameren's program is three years. Ameren installed a 1.0 13 MW solar system to supply their shared solar program subscribers.

14 Q: What other utility shared solar programs did the Company review in its
15 development of its proposed program?

A: The Company reviewed several; however Sacramento Municipal Utility District
("SMUD"), Minnesota Power ("MN Power") and Oklahoma Gas & Electric ("OGE")
offered programs that were of particular interest to the Company because of their
individual program design, customer adoption, and ease of customer participation.

SMUD's SolarShares Program⁴ allows the customer to subscribe to a minimum
 0.5 kW of capacity up to the solar generating capacity and based on the actual energy
 output of that capacity, the customer can offset up to half their monthly usage. SMUD

⁴ See <u>https://www.smud.org/en/Going-Green/SolarShares</u>

does not own the facility as a utility asset but contracts through a third party that owns
and maintains the system and delivers the energy to SMUD under a 20-year Power
Purchase Agreement ("PPA"). The rate is locked in for as long as customers wish to
participate within the program with the idea that the current premium price will actually
lead to cost savings if utility rates increase.

MN Power's Community Solar Program⁵ contains 1.040 MW of solar 6 7 generating capacity split between two locations in Duluth, Minnesota. Customers may 8 subscribe to the program under three different options. The first is a per kWh charge 9 for energy generated by the subscribed capacity. The second option is a flat monthly 10 fee per kW of subscribed capacity. And the third option is a one-time upfront payment 11 per kW that is for the duration of the 25-year program. Differing from SMUD's design, 12 MN Power customers can subscribe to capacity sufficient to cover 100 percent of their 13 monthly energy needs.

OGE's Solar Power Program⁶ is a capacity-based subscription program that 14 15 allows a customer to offset between 10 percent and 50 percent of their monthly energy 16 needs with solar energy. Customers pay a fixed dollar-per-kWh rate for each kWh 17 generated by the panels associated with their subscription. In order to participate, 18 customers must also be on OGE's time-of-use tariff. Due to the success of the program, 19 OGE is expanding beyond its initial 2.5 MW solar investment and adding 10 MW more 20 of solar capacity for the more than 3,000 customers who currently are on their program 21 wait list.

⁵ https://www.mnpower.com/Environment/CommunitySolar

⁶ https://www.oge.com/wps/portal/oge/save-energy/Solar-Powe

1 The Company reviewed each of these programs in conjunction with Ameren's 2 and Westar's programs to develop a program that was easy for the customer to 3 participate and understand, in addition to keeping the utility whole as to recovery of 4 the costs of the solar generating unit and properly assigning the output of the solar 5 generating unit.

6

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Q:

Does the Company intend to own and operate the solar generating facilities required for this program or enter a PPA, similar to SMUD?

The Company plans to construct, own, operate and maintain solar generating facilities 8 A: of no less than 5 MW-AC, or approximately 6.5 MW-DC, of new generating capacity 9 10 for this program. A larger system, such as 5 MW, should provide a more levelized price versus a 1-2 MW system for customers. Early estimates of the construction cost are 11 12 \$1,350 to \$1,925 per kW. The Company will evaluate both company-owned and 13 external partner property sites to choose the best suited location(s). As contained 14 within the tariff language, the Company will enroll customers and place them on a waiting list and will not begin construction until 75 percent of the solar capacity is 15 committed (or 3.75 MW). This will reduce the risk of the Company incurring costs 16 17 should the program not generate sufficient interest and subscriptions from customers. 18 If this were to occur, the Company may propose to terminate the program.

19 Q: Has the Company evaluated possible solar sites for construction?

A: The Company has begun evaluating sites that will minimize costs of the project. These
 evaluations consider a site's access to existing energy infrastructure, ability to expand
 and usage fees, amongst other considerations. The Company is working with both
 internal and external stakeholders to begin preliminary analyses to identify potential
 sites. Stakeholders include the Company's Generation and Transmission/ Distribution

1		Planning teams, as well as external partners like the City of Kansas City, Missouri and
2		the Environmental Protection Agency.
3	Q:	Is the Company requesting a Certificate of Convenience and Necessity ("CCN")
4		at this time to the proposed construction?
5	A:	No. The Company believes it is premature to make the request. Once sufficient interest
6		has been identified and the Company has identified a site, the Company will make the
7		CCN request before the Commission.
8	Q:	What are the benefits that both subscribers and non-participating customers may
9		realize as a result of this program?
10	A:	The main benefit to all of the Company's customers is the continued diversification of
11		generation sources that compose the Company's generating fleet. With each solar
12		installation, load will be shifted away from traditional fossil fuel generation. SSPR will
13		provide a new option for customers to consider based on their preferences. The
14		Program will also provide the Company and opportunity to learn more about providing
15		renewables to customers.
16	Q:	Please describe these learning opportunities.
17	A:	Foremost, we hope to learn how customers view renewables and examine their
18		willingness to directly obtain renewable energy. This interaction will help provide
19		understanding of how to best communicate with prospective participants and to get
20		feedback concerning what drives their satisfaction. The Company also expects to build
21		on lessons learned from construction and operation of the Greenwood solar facility.

1		Renewable Energy Rider
2	Q:	Why is the Company proposing the Renewable Energy Program Rider?
3	A:	KCP&L sees an opportunity to address corporate customers' increasing demand for
4		renewables. KCP&L's Renewable Energy Rider is proposed in this filing and is further
5		defined in the Renewable Energy Rider ("RER") tariff. Company witness Lutz also
6		addresses aspects of the RER tariff.
7		The Renewable Energy Program provides a way for KCP&L to contract on
8		behalf of its customers to provide renewably-sourced electricity at a long-term price
9		that reflects the cost of generation and delivery, similar to if the customer were
10		purchasing the PPA directly from the developer. The program is designed such that it
11		contains the costs of the RER to those participating customers without imposing costs
12		on other customers. The RER is designed to meet larger business customer's energy
13		needs and renewable commitments while the SSPR is expected to be utilized by
14		residential and smaller businesses. We recognize that across the industry, the trend has
15		been for larger customers to ask the utility to provide 100 percent of their energy needs
16		via renewables. This tariff provides KCP&L the opportunity to fulfill this need as well
17		as attract new load and retain existing load.
18		Customers within our jurisdictions have publically announced goals to achieve
19		some level of renewable energy. Specifically, the RE100 ⁷ "is a collaborative, global

some level of renewable energy. Specifically, the RE100⁷ "is a collaborative, global
initiative uniting more than 100 influential businesses committed to 100 percent
renewable electricity, working to massively increase demand for- and delivery ofrenewable energy." Examples of companies that are committed to RE100 and have

⁷ www.there100.com

locations within the our territories include IKEA Group, SwissRe, Schneider Electric,
 Unilever and Wal-Mart. Additionally, primary data from surveys that we have fielded
 with our largest customers indicate that customers have renewable energy goals in
 place, which include purchasing a percentage of clean energy or installing solar. Other
 businesses have signed on to the Renewable Energy Buyers' Principles, which includes
 72 companies engaged as of January 2018⁸.

7 The Company has met with representatives of the Clean Energy Business 8 Council⁹ ("CEBC"). The CEBC was formed in 2016 to "expand opportunities for 9 business access to wind, solar, geothermal and waste-heat recovery systems and energy 10 efficiency in Kansas and the Greater Kansas City Metro". In multiple meetings and 11 interactions, the CEBC expressed their interest in Utility Purchasing Options, Third-12 Party Purchasing Options, and Onsite/Direct Deployment Options.

Additionally, the City of Kansas City, Missouri recently passed Resolution No. 13 17058610 ("Renewable Energy Now Resolution") in 2017 to advance the City's 14 15 environmental goals related to the Paris Climate Agreement. Among a number of renewable initiatives, the resolution directs that the City will evaluate the feasibility of 16 17 procuring 100 percent of the electricity for municipal operations from renewables within three years, and also challenges all universities, public and private schools, 18 hotels, and hospitals in the City to do the same. KCP&L has met with the City on 19 several occasions to discuss our Renewable Energy Program and how it could be 20 utilized to satisfy the resolution requirement. In addition, the Renewable Energy Now 21

⁸ http://buyersprinciples.org/about-us/

⁹ http://www.cleanenergyforbusiness.com/

¹

http://cityclerk.kcmo.org/LiveWeb/Documents/Document.aspx?q=DfoUSXu7pUSJTU5A5Zt%2FoWqkjtNDky UIaNl6mdOfwqYjGvJHb50FjMIZ0GCwrJvx

Resolution also requests an evaluation of the feasibility of developing five 1-MW
 shared solar facilities for municipal employees and employees of universities, schools,
 and hospitals. My earlier discussion of the Company's proposed SSPR is directly
 correlated with this initiative.

Q: What other investor-owned utilities are currently offering corporate renewable programs within Kansas or Missouri?

A: Westar and Ameren Missouri have proposed tariffs before their respective
Commissions for corporate renewable procurement. Nationwide, utilities are
responding to the need voiced by customers. According to World Resources Institutes,
nearly 560 MW of generation capacity related to "green tariffs" were approved in 2017
with another 465 MW currently under negotiation. This is in contrast to 300 MW
developed in 2015 and 220 MW in 2016.¹¹

Q: What other corporate renewable programs did the Company review in its development of its proposed program?

A: The Company reviewed multiple programs that had been proposed or had been
 approved. Of note, we looked at the programs submitted by Ameren Missouri¹² and
 Westar¹³ that are under consideration for approval in their respective jurisdictions. Our
 evaluation also looked into programs outside of our jurisdictions including programs
 operated by NV Energy¹⁴, Puget Sound Energy¹⁵ and Duke Energy (North Carolina)¹⁶.
 The various program structures applied by these utilities within their respective

¹¹ http://www.wri.org/resources/charts-graphs/grid-transformation-green-tariff-deals

¹² See Missouri Public Service Commission Case No. ET-2018-0063

¹³ See Kansas Corporation Commission Docket No. 18-WSEE-190-TAR

¹⁴ https://www.nvenergy.com/cleanenergy/green-energy-choice

¹⁵ https://pse.com/savingsandenergycenter/GreenPower/Pages/default.aspx

¹⁶ https://www.duke-energy.com/home/products/renewable-energy/nc-greenpower

1		jurisdictions allowed the Company to consider multiple program structures before
2		ultimately settling on one that we believe is best suited for our customers.
3	Q.	What did you do to understand what was best for your customers?
4	A.	In addition to the direct interactions listed previously, the Company consulted multiple
5		sources concerning best practice for corporate renewable procurement solutions. For
6		example, the Company reviewed materials from the Advanced Energy Economy
7		Institute, Lawrence Berkeley National Laboratory, PricewaterhouseCoopers, National
8		Renewable Energy Laboratory, World Resources Institute, Baker & McKenzie, World
9		Wildlife Fund and the Edison Electric Institute. Of particular note was the Corporate
10		Renewable Energy Buyers' Principles ¹⁷ which defined six principles to expand and
11		streamline the opportunities for renewable energy procurement.
12		Time of Use Rates
12 13	Q.	<u>Time of Use Rates</u> Please describe the pilot residential tariffs that KCP&L is requesting approval?
	Q. A.	
13	-	Please describe the pilot residential tariffs that KCP&L is requesting approval?
13 14	-	Please describe the pilot residential tariffs that KCP&L is requesting approval? KCP&L is proposing to implement three Pilot Residential Demand Side Management
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13 14 15 16 17	-	 Please describe the pilot residential tariffs that KCP&L is requesting approval? KCP&L is proposing to implement three Pilot Residential Demand Side Management ("DSM") rates, they are: Residential Time of Use (Schedule RTOU) - A two part rate comprised of a customer charge and a three period TOU per kWh energy charge
13 14 15 16 17 18	-	 Please describe the pilot residential tariffs that KCP&L is requesting approval? KCP&L is proposing to implement three Pilot Residential Demand Side Management ("DSM") rates, they are: Residential Time of Use (Schedule RTOU) - A two part rate comprised of a customer charge and a three period TOU per kWh energy charge Residential Demand Service (Schedule RD) - A three-part rate comprised of a
13 14 15 16 17 18 19	-	 Please describe the pilot residential tariffs that KCP&L is requesting approval? KCP&L is proposing to implement three Pilot Residential Demand Side Management ("DSM") rates, they are: Residential Time of Use (Schedule RTOU) - A two part rate comprised of a customer charge and a three period TOU per kWh energy charge Residential Demand Service (Schedule RD) - A three-part rate comprised of a customer charge, per kW demand charge, and a flat per kWh energy charge

¹⁷ http://buyersprinciples.org/

1		Because they are pilot tariffs, participation in each tariff will initially be limited
2		to 1,000 customers meeting the eligibility requirements specified in the tariffs.
3		Company witnesses Tim Rush and Marisol Miller also provide testimony on the Pilot
4		Residential DSM tariffs.
5	Q.	You have referred to these rates as Pilot Residential DSM rates. Please explain.
6	А.	Per Missouri regulation 4 CSR 240-20.020 (12), "demand-side rate means a rate
7		structure for retail electric service designed to reduce the net consumption or modify
8		the time of consumption of a customer rate class". The 2017 KCP&L DSM Potential
9		Study ¹⁸ , performed for the 2018 Integrated Resource Plan, evaluated several residential
10		and commercial rate designs for their Demand Response ("DR") potential. This study
11		identified several rate designs as candidates as viable Demand-Side Resources (defined
12		in Missouri regulation 4 CSR 240-20.020 (13) ¹⁹). Based on the DSM Potential Study,
13		KCP&L designed the proposed rates for the pilot tariffs and have included them as
14		candidate resources in our 2018 IRP process.
15	Q.	What process did KCP&L use to design these DSM rates?
16	A.	KCP&L contracted with Burns & McDonnell ("BMcD") to perform a Residential Rate
17		Design Strategy Study ²⁰ to prepare a general long term plan for implementing
18		residential rate designs. As part of this study, KCP&L and BMcD used the conceptual
19		rate constructs evaluated in the potential study to inform the development of the

¹⁸ KCP&L 2016 DSM Potential Study, filed in EO-2017-0229, June 1, 2017.

¹⁹ Missouri regulation 4 CSR 240-20.020 (13) Demand-side resource is a demand-side program or a demandside rate conducted by the utility to modify the net consumption of electricity on the retail customer's side of the meter. A load-building program or rate is not a demand-side resource.

²⁰ Residential Rate Design Strategy Study, Burns & McDonnell Engineering Company, 2017

1		proposed rate designs that are revenue neutral with the current residential rate
2		structures. Company witness Miller further describes the design of the DSM rates.
3	Q.	Does KCP&L plan to propose these DSM rate as MEEIA programs?
4	А.	Yes. As described in Mr. Rush's testimony, KCP&L proposes that the rates be
5		approved in this case; however the rates will not become effective until approval of
6		MEEIA Cycle 3. MEEIA Cycle 2 ends March 31, 2019 and it is anticipated that
7		MEEIA Cycle 3 would go into effect in April, 2019. At that time, we expect to further
- 8		define how to launch the program and provide a program budget to support active
9		customer promotion and education as well as a budget for the evaluation, measurement
10		and verification.
11	Q.	As a DSM rate program, what costs does KCP&L anticipate seeking recovery as
12		MEEIA program?
13	А,	The recoverable program cost are in three areas, program costs, lost revenue
14		(throughput disincentive) and earnings opportunity.
15	Q.	Do you have an estimate of the lost revenue potential associated with the DSM
16		rate programs?
17	А.	The BMcD study provided some estimates of the lost revenue potential but these were
18		conducted on previous class cost of service data and current rates. Using DSM rates
19		designed to be revenue with no customer load modifications, the BMcD study
20		estimated that with a 10 percent shift in on- to off-peak usage the average lost revenue
21		per participant could range from a low of \$0.50 per month, but could be as high as
22		\$5.60 per month. The BMcD study estimated that if 28 percent of customers switched
23		to the rate providing them the lowest annual bill, the total residential class revenue loss
24		could be about 1.5 percent. Actual lost revenues may vary significantly from these

estimates based on the rates approved in this rate case and the level to which customers
 change their usage patterns.

3 Q. What is the benefit of initially offering the DSM rates as pilots?

- A. Limiting the participation for each pilot rate to 1,000 customers will enable the
 company to fully assess what is required to recruit customers as well as evaluate the
 impact of the rates. If approved as DSM programs under MEEIA, the participation
 limits also provide a control to the level of revenue loss recoverable as part of the
 demand side investment mechanism charges. The EM&V conducted as a DSM
 program will provide data on which to determine future program expansion.
- 10 Q. Does this conclude your testimony?
- 11 A. Yes, it does.

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

Case No. ER-2018-0145

AFFIDAVIT OF KIMBERLY H. WINSLOW

STATE OF MISSOURI)) ss COUNTY OF JACKSON)

Kimberly H. Winslow, being first duly sworn on her oath, states:

1. My name is Kimberly H. Winslow. I work in Kansas City, Missouri, and I am employed by Kansas City Power & Light Company as Director, Energy Solutions.

2. Attached hereto and made a part hereof for all purposes is my Direct Testimony on behalf of Kansas City Power & Light Company consisting of <u>fifteen</u> (<u>15</u>) pages, having been prepared in written form for introduction into evidence in the above-captioned dockets.

3. I have knowledge of the matters set forth therein. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded, including any attachments thereto, are true and accurate to the best of my knowledge, information and belief.

Kimberty H. Winslow

Subscribed and sworn before me this 2^{44} day of January 2018.

Notary Rubli¢

My commission expires: $\frac{4}{24}$

