COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF LOUISVILLE GAS)
AND ELECTRIC COMPANY FOR AN)
ADJUSTMENT IN ITS ELECTRC AND)
GAS RATES AND FOR CERTIFICATES)
OF PUBLIC CONVENIENCE AND)
NECESSITY)

CASE NO. 2016-00371

TESTIMONY OF

RONALD L. WILLHITE

SCHOOL ENERGY MANAGER PROJECT DIRECTOR

KENTUCKY SCHOOL BOARDS ASSOCIATION

FILED: March 3, 2017

INTRODUCTION

3 Q. Please state your name and business address.

A. My name is Ronald L. Willhite and business address is 260 Democrat Drive, Frankfort,
5 KY 40601.

6 Q. By who are you employed?

- 7 I am employed by the Kentucky School Boards Association as Director of the School A. Energy Managers Project. The Kentucky School Boards Association (KSBA) is a 8 nonprofit corporation of school boards from each public school district in Kentucky. The 9 association, founded in 1936, now has over 75 years of serving school board members 10 and school districts in such areas as governmental relations, board member and team 11 development, risk management, facility planning, energy management, legal services, 12 policy services, publications and community relations. It is governed by a 27-member 13 board of directors made up of representatives elected as regional chairpersons or as 14 directors-at-large. With nearly 900 school board members, KSBA is the largest 15 organization of elected officials in Kentucky. 16
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Q.

Please describe your regulatory and public school experience.

- A. In December 2001 I retired from LG&E Energy Services. During my tenure at the
 Companies I testified before this and other commissions on numerous rate and regulatory
 matters. In March 2010 I was employed by KSBA to develop and direct the School
 Energy Managers Project (SEMP). From 1989 to 1998 I served on the Scott County
 Board of Education, the last six years as its chairman, and since 2009 have served on
 their Energy Committee. I graduated from the University of Kentucky in 1969 earning a
 B.S. in Electrical Engineering.
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Q. Please describe Kentucky's public schools and the role of boards of education.

A. Kentucky has some 1233 P-12 public schools serving 670,000 students that are overseen
per statute by 173 local school boards pursuant to KRS 160.290:

"Each board of education shall have general control and management 32 of the public schools in its district and may establish schools and provide 33 34 for courses and other services as it deems necessary for the promotion of 35 education and the general health and welfare of pupils, consistent with the administrative regulations of the Kentucky Board of Education. 36 Each board shall have control and management of all school funds and 37 38 all public school property of its district and may use its funds and property to promote public education. Each board shall exercise 39 generally all powers prescribed by law in the administration of its public 40 school system, appoint the superintendent of schools, and fix the 41 compensation of employees." 42

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What specific issues are you addressing? **Q**.

- 3 I will address the following; 1) impact of the proposed increase on public schools, 2) how 4 A. public schools are distinguishable from commercial and industrial customers, 3) propose 5 Rate P - 12 Public Schools, 4) sports field lighting, 5) school energy management 6 initiatives, and 6) the Company's proposed AMS program.
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Q. How will the requested increase impact schools?

10 A. Kentucky's public schools continue to be severely impacted by today's economic conditions. After personnel, energy is the second highest cost for schools. Unlike 11 businesses that can increase sales or prices to offset cost increases, public schools must 12 either cut programs or attempt to raise taxes. Public schools cannot refuse service to a 13 student or limit their enrollment. 14

While schools understand the Company is faced with significant challenges the revenue 15 16 increase as proposed would be extremely unfair to schools and their students. Public 17 school districts continue to be disadvantaged as many of their schools are required to take service under rate schedules along with commercial and industrial customers. I will 18 address options for the Commission to mitigate the impact on public schools. 19

20 **O**. Why does the purposed increase result in such excessive impacts for public school accounts? 21

23 A. The Company has purposed recovering most, if not all, of the increase allocated to Rates 24 PS-Sec and TODS through increased demand charges. This further exacerbates the subsidization by schools for others served on those rates. Such an approach is 25 unreasonable and needs correcting. 26

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PUBLIC SCHOOLS ARE DISTINGUISHABLE 28 29 **Q**. In what ways do public schools differ from other customers? 30 31 A. Public schools differ from other customers in three primary ways: 32 33 1. Public schools are required to develop energy management plans by 34 KRS160.325 and Board Policy. 35 2. Public schools operating hours differ significantly from commercial and 36 37 industrial customers.

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- 3. Public school load and usage characteristics differ significantly from
 - commercial and industrial customers.

Q. Please explain KRS160.325 and how the statute distinguishes public schools from other customers.

Local school boards of education are the only entity in Kentucky that are required by **A**. 5 statute to development and implement energy management plans. "In an effort to reduce 6 rising energy costs that are straining school budgets" the General Assembly in 2008 7 passed House Bill 2, which became law on July 15, 2008 as KRS 160.325. To implement 8 the mandate of the statute boards of education adopted Energy Management Policies as 9 10 shown below and began mandated reporting annually through the Kentucky Pollution Prevention Center ("KPPC") to the Department for Energy Development and 11 Independence ("DEDI") and the Legislative Research Commission ("LRC") on the status 12 of the development of energy management plans by those boards of education and the 13 anticipated savings to be obtained from those plans. In 2014 Boards began reporting 14 through KSBA to the LRC and DEDI. 15

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05.23 Energy Management

- 17It is the intent of the Board that the District use energy resources in a safe18and efficient manner with an on-going focus on identifying and19implementing cost saving measures and developing staff and student20commitment to identified energy management practices.
- To promote this effort, the Superintendent/designee shall direct the development of an energy management plan (EMP) for Board approval and oversee the implementation and maintenance of that plan, which shall address the following components:
- 251. A District level committee shall be appointed by the26Superintendent/designee to develop and implement the energy management27plan (EMP).
- 28 2. The District level committee shall track and monitor the EMP to 29 determine progress toward managing and reducing energy costs.
- 303. Effective with the 2011-2012 school year, the Superintendent/designee31shall report the EMP results for each fiscal year, including annual District32energy usage, costs and anticipated savings to KPPC the Kentucky33Pollution Prevention Center by October 1st annually through the Kentucky34Energy Efficiency Program for Schools (KEEPS).
- A status report on implementation of the plan in Board-owned and Boardoperated facilities shall be provided to the Board following the end of each fiscal year
- Q. Please explain how public schools operate different than commercial and industrial
 customers.
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While schools, commercial and industrial customers operate on a defined schedule, those 1 A. schedules are drastically different. Many industries operate 2nd, 3rd and weekend shifts 2 while stores operate extended hours into the evening year round seven days per week. 3 Schools typically are fully occupied from 7:30 am until 2:30 pm weekdays only nine to 4 5 ten months of the year with numerous shut down periods for breaks throughout the year. Schools continue open beyond instructional periods for extra-curricular activities, but by 6 7 this time automation systems and set back procedures have begun adjusting temperatures 8 for unoccupied space. In a nutshell school load build up typically begins around 7 am, peaks by lunch time in the warmer months and declines at a significant pace until and 9 10 after the instructional day ends in early-afternoon. In the colder months schools tend to peak across the morning hours and similar to the warm periods usage/peak decline after 11 12 lunch.

14Q.Please explain how public have different load and usage characteristics differ from15commercial and industrial customers.

A. The different load and usage characteristics of public schools result in cost causation
 factors different than commercial and industrial customers as is demonstrated in
 examination of LGE's LOLP Class Cost of Service Study.

20 21 LGE has offered two studies with differing production cost allocators, Modified BIP and LOLP (Loss of Load Probability). The LOLP Study is a more reasonable assessment of 22 the relative rate of returns ("ROR") for each rate class "the LOLP methodology more 23 24 closely reflects how KU and LGE's generation resources have been planned over the past 30 years...." as stated by Witness Seelye. Additionally, assigning production costs using 25 LOLP appropriately reflects how resources are constructed and used to meet customer 26 27 needs for reliable least cost service. The LOLP Study clearly shows the ROR for Rates GS, PS-sec and TODS under which public schools receive service are in excess of the 28 29 overall Company ROR. In fact, as I will demonstrate, schools significantly contribute to 30 the excessive returns. As a result, schools are subsidizing other members of those rate classes. 31

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Q. Please explain how you determined that schools are subsidizing other rate payers?

- A. I developed a "School Class" Cost of Service Study using the Company's Excel spreadsheet provided in response to PSC 1 53 as follows:
 - 1. Assembled customer, revenue, energy and billing demand data for public school learning center accounts currently served on rates PS-Secondary and TODS.
 - 2. Identified the School Class Sum of Individual Demands (SIDS) from the assembled School data.
- 3. Calculated the School Class Non-coincident Class Peak (NCP) using the coincidence (1/1.18758) and loss factors (1.0934) for KU's Rate AES from the attachment to the KU's Response to PSC 1-97 (PSC_DR2_LGE_Attach_to_Q97) times the School Class SIDS.
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- 4. Calculated the School Class Summer Coincident Peak (CP) using from 1 2 (PSC DR2 KU Attach to Q97) the ratio (.59729) of the Summer AES CP to Summer AES NCP times the School Class NCP as summer period usage by schools is similar. 3 4 5 5. Calculated the School Class LOLP allocator by multiplying the KU Rate AES LOLP Allocator of 321 by the ratio of the School Class CP to summer AES Class CP as the 6 7 LOLP allocation factor is dominated by the summer period. 8 6. Inserted a "School" line in the "Billing Det", "Meters" and "Services" tabs of the Cost of 9 10 Service Study to facilitate input of the school data. 11 7. Used column "I" in the "Allocation Proforma" tab that was otherwise hidden and 12 13 unused for a "School Class" column. 14 15 8. Inserted the school data in the School column cells and similarly subtracted the data from PS Secondary and TOD Secondary cells in the appropriate tabs. 16 17 18 **Q**. Please explain the results of your study. 19 20 A. As shown in the below table the ROR for the School Class is significantly greater for the 21 PS Secondary and TODS Classes clearly indicating an unreasonable subsidization by schools of other customers on those classes. Benchmarked against the Company overall 22 ROR, the excessive annual revenues approach \$3,750,000. Benchmarked against KU's 23 24 Rate AES, whose ROR exceeds to Company overall ROR, the excessive annual revenues
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exceed \$3,100,000.

Rate Class	Rate of Return on Rate Base					
		Schools at	With School			
	As Filed	Present	Rate @			
		Rate	AES ROR			
General Service	8.65 %	8.65%	8.65%			
Public School P- 12	n/a	15.54%	6.68%			
Power Service - Secondary	9.70%	9.22%	9.22%			
Time-of-Day Secondary Service	11.90%	11.87%	11.87%			
Total All Classes	4.92%	4.92%	4.84%			

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1 2		RATE P - 12 PUBLIC SCHOOL
2 3 4 5	Q.	What is your recommendation for eliminating the intra-class subsidization being currently provided by public schools?
6 7 8 9 10 11 12 13 14 15	Α.	In order to eliminate the intra class subsidization by public schools currently served on Rates PS-secondary and TODS a new Rate P - 12 Public School (RLW Exhibit 2) should be established. I have developed such a rate incorporating time of day principles at the current ROR on KU's Rate AES. Since time of day metering is not installed on all PS accounts I also developed a Rate P - 12 Public School (Interim) Power Service (RLW Exhibit 3) until the metering is installed and public school accounts can be switched to the Rate P - 12 Public School. Once there is a final determination in this proceeding that rate can be adjusted using the Company's proposed class revenue allocation approach described by Mr. Seelye.
16 17	Q.	What customers would the Rate P – 12 Public School be available to?
18 19 20 21 22 23	Α.	Similar to Kentucky Power's Tariff K – 12 School (Public School) the rate would be available to P – 12 schools subject to KRS160.325 with normal maximum demands greater than 50 kW. Schools would migrate to the school rate at their option. RLW Exhibit 4 shows the computation of the proposed rates.
24 25		Sport Field Lighting
25 26	Q.	On what Rate Schedule are school sport fields served?
27 28 29 30 31	A.	Today, new sport fields will typically be served on Rate GS or PS. New sport fields of load greater than 50 kw are served on Rate PS and faced with paying a demand charge and minimum payments based on off-peak night-time load in the months they are not in operation. Sports fields clearly are not similar to other commercial and industrial loads served on Rate Schedule PS.
32	Q.	What is the predominate end use at a sports field?
33 34	A.	Field lighting is the predominate use with lesser usage in some instances from a concession stand, locker room or ticket office on the same meter.
35	Q.	How can the Company rectify this problem?
36 37 38 39 40 41	A.	There are a couple of options. The Company, similar to Kentucky Power, could add a sports field rate rider to Rate Schedule PS or the proposed Rate $P - 12$ Public School with the charges reflective of the cost to serve such facilities, including an appropriate recognition of any concession stand load, locker room or ticket office that may exist and be contributing to system peak demand. Alternatively, the Company could modify the Availability Clause of Rate GS to permit service to sports fields. One benefit of the latter

- would be consistency of rate application to all sports fields including those previously grandfathered on Rates GS.
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Public School District Energy Management Initiatives

5 Q. What actions have been taken by boards of education?

6 7 All 173 public school boards of education have adopted an Energy Management Policy A. 8 and most now have an energy manager. Districts have established an energy committee 9 and have developed and implemented an energy management plan under the leadership and assistance by their energy manager. Recognizing that students are the future home 10 and community energy managers, school energy managers working in conjunction with 11 the Kentucky National Energy Education Development Project (NEED) and the 12 Kentucky Green and Healthy School Program (KGHS) are actively involved with 13 teachers in curriculum modifications that are being implemented to foster energy 14 15 awareness as envisioned by the Governor's comprehensive energy plan for Kentucky, "Intelligent Energy Choices for Kentucky's Future." The energy managers work closely 16 with the Company's demand-side management staff to benefit from energy audits and 17 18 capture rebates from the Company's program as they install energy conservation measures such as efficient lighting. 19

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Q. Please describe the School Energy Managers Project (SEMP).

23 A. In 2010, Kentucky School Boards Association ("KSBA") created and implemented the School Energy Managers Project ("SEMP"), a state-wide school energy management 24 infrastructure that assists public school districts with compliance with statutory and board 25 policy requirements that direct local boards of education to focus on rising energy costs. 26 SEMP, initially funded by a \$5 million dollar federal economic stimulus grant during 27 FY2011 – FY2012, helped place 35 energy managers to serve 130 school districts and 28 support existing energy managers in 14 additional districts. By fostering intelligent 29 30 energy choices in new and existing buildings through implementation of energy 31 efficiency projects Kentucky school districts since July 1, 2010 have captured more than \$123 million in savings/cost avoidance. Kentucky is 3rd in the nation as a percentage of 32 its K-12 schools, with over 30 percent having achieved the ENERGY STAR certification. 33 34 Eighty-one districts have at least one ENERGY STAR school and sixteen districts have all their schools certified. In 2014 and 2015 KSBA-SEMP was recognized nationally as 35 an ENERGY STAR Partner of the Year for Energy Efficiency Program Delivery for its 36 support and partnering with public school districts. In 2016, the program received further 37 recognition as ENERGY STAR Partner of the Year – Sustained Excellence Award. 38

Following expiration of the stimulus funding, \$2.5 million in funding from Kentucky's Energy and Environment Cabinet, LGE/ KU and Kentucky Power enabled SEMP to continue assisting Kentucky's 173 public school districts through FY2016. An additional \$1.45 million of funding from LGE and KU approved in Case No. 2015-00398 enabled

extending the program through FY2018 to provide support to 84 LGE/KU served districts 1 including matching salary funds for 38 energy managers serving 61 districts to identify 2 for Board approval and implementation best energy management practices. In addition to 3 4 energy manager funding, \$1 million received from Kentucky Utilities and Louisville Gas and Electric is being used by districts in their service territory to provide matching dollars 5 for energy projects by installing modern highly efficient LED lighting in classrooms, 6 gyms, hallways and parking lots. (Funding from Kentucky's Energy and Environment 7 8 Cabinet, Kentucky Power and KSBA has facilitated continued service to remaining districts including matching salary funds for 12 energy managers serving 17 districts in 9 the KPC service territory.) 10

- KSBA-SEMP management staff assists district/partnerships in the employment, 11 coaching, monitoring and evaluation of energy managers; procures supporting funding; 12 provides analytical and engineering support; coordinates and provides professional 13 development opportunities for energy managers; utilizes its outreach capacities to timely 14 communicate success stories to board members, superintendents, governmental officials 15 and the general public; fosters best practice implementation; monitors and coordinates 16 utility activities and relations; and develops and submits annually a Kentucky School 17 Energy Management Report to the Cabinet and General Assembly. 18
- Funding from the utilities is used for energy managers serving only schools receiving
 service from the particular utility. I will describe latter the results the LGE-KU School
 Energy Program.

Q. Please explain how Kentucky public schools utilization of energy compares to schools across the nation.

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A. Kentucky's public schools had not been ignoring energy efficiency, but SEMP has successfully facilitated an acceleration and more comprehensive focus. A common metric is the energy utilization index or "EUI" (kBtu per square foot). The national average for K-12 schools is 73, while the Kentucky school district average in FY2016 was 52, down from 65 in FY2010, the first year of the program. Kentucky's ENERGY STAR schools have increased from 12 in 2008 to 375, placing Kentucky third in the nation as a percent of K-12 eligible buildings and trailing only California, Texas, Virginia and Michigan in total ENERGY STAR schools

Q. What is the status of the LGE/KU School Energy Management Program approved by the Commission in Case No. 2015-00397?

- A. The Program is in the second year of the extended two-year period that will otherwise
 end on June 30, 2018 unless extended. The third Annual Program Report for the initial
 program was presented to LGE/KU on August 15, 2016. Below is the Executive
 Summary.
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Executive Summary

4 The application in Case No. 2013-00067 identified the primary goal of the Energy Management Program for Schools to "support school districts in utilizing energy more 5 "wisely" with the overall objective for each school district to reduce consumption over 6 7 time by an annual rate or 2.5% and achieve energy utilization indices ("EUI") of fifty or 8 lower. The participation goal was for all districts served by LG&E or KU to retain or 9 employ an energy manager through at least FY2015 to maximize district response to 10 KRS160.325. The dollars remaining from the original KU/LG&E grant covering FY2014 and FY2015 were approved in Case Nos. 2014 –00371 and 2014-00372 to extend the energy 11 manager funding through FY2016. 12

13 From the FY2010 baseline, the LG&E districts achieved the following:

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- August Demand Reduction 17.9%
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- January Demand Reduction 8.2%
- 16 Summer Energy Reduction 4.0%
 - Winter Energy Reduction 7.1%
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19The August reduction is particularly significant as LG&E-KU is a summer peaking utility.420Districts receiving LG&E electric service participated in the program and two districts21have a district-wide EUI less than 50 kBtu/sf/yr.

- The partnership established between LG&E-KU and KSBA provides a means for the School Energy Management Project (SEMP) to maintain a major presence within schools in Kentucky. During FY2016 four school districts within the LG&E service territory and 54 within the KU service area have benefitted financially and technically from this work.
- The School Energy Managers serving these school districts benefit from continuity of employment, technical training and improved skills due to the funding which was provided. They and their schools benefit from the knowledge that has been gained by positioning them on a continuous improvement path. Knowing that an expectation of 2.5% annual reduction provides leverage for energy and demand conservation measures which may not otherwise be undertaken. Future results and further technological upgrades will be impacted.
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Q. What are the plans for extending the LGE/KU Program beyond June 30, 2018?

A. We are hopeful that the program can be continued and believe it should as long as it can
be shown to be viable program beneficial to all stakeholders. If not continued there will
be a loss of momentum in capturing demand and energy savings beneficial to the

Company and all ratepayers and the loss of energy managers to serve schools in statutory compliance and implementation of the Commonwealth's energy efficiency initiatives. Many districts may not retain and/or rehire a non-teaching position such as an energy manager without that position being part of its operating budget which must be approved by May.

- Q. What is the status of the Companies commitment in Case Nos. 2014-00371 and
 00372 to provide \$1 million for grants to schools to fund school energy efficiency
 projects?
- Α. In Case No. 2015 – 00398 the Commission approved the SEMP extension and associated 11 changes in the Company's DM rates and tariff. With regard to the energy-efficiency 12 13 grants SEMP initiated an energy project funding program to make available the grants to school districts. A three – tier participation option approach was offered to districts: 1) 14 15 Base – no match, 2) Match – 50/50 match and 3) Residual – 50/50 match for any leftover funds not requested by other districts. Seventy-five percent of eligible districts chose to 16 participate. Eight chose the Base, nineteen the Match and thirty-two the Residual. In total 17 18 \$2,035,000 in energy efficiency measures are being installed that will produce nearly 19 \$500,000 annual savings from 5 million kwh and 1.7 megawatt reductions.

AMS Program

Q. Please comment on the Company's request for approval for deployment of Advanced Metering Systems (AMS).

- A. AMS is key piece in facilitating efficient management of energy usage. Large users for
 years have had access to real time usage through purchase of meter pulses to synchronize
 with building energy automation systems. As a result of compliance with KRS160.325
 Kentucky's public schools are well positioned to now benefit from the AMS meters by
 being "empowered through more information and control over their energy usage and
 cost" (Malloy Direct page 6).
- 33 Q. Does this conclude your testimony?
- 34 A. Yes.

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Louisville Gas and Electric Company

Summary of Rates of Return by Class w/Proposed School Rate

	Revenue	Operating Expenses	Operating Margin		Rate Base	ROR
Residential Rate RS	\$ 402,998,858	\$ 377,993,850	\$ 25,005,008	Ś	1,226,288,221	2.04%
General Service	140,932,560	116,921,930	24,010,630	Ļ	277,706,043	2.04 <i>%</i> 8.65%
School	13,739,877	10,401,631	3,338,246		21,483,030	15.54%
Power Service Primary Rate PS	12,135,232	10,606,685	1,528,547		21,749,589	7.03%
Power Service Secondary Rate PS	145,621,607	122,096,096	23,525,510		255,041,141	9.22%
TOD Rate TOD Primary	123,784,635	111,586,138	12,198,497		226,471,820	5.39%
TOD Rate TOD Secondary	80,141,607	63,170,213	16,971,394		142,923,704	11.87%
Retail Transmission Service Rate RTS	68,365,364	62,906,028	5,459,337		113,082,422	4.83%
Special Contract #1	6,758,416	6,443,949	314,467		14,438,869	2.18%
Special Contract #2	3,509,134	3,303,073	206,060		6,627,986	3.11%
Lighting Rate RLS & LS	18,711,160	14,230,895	4,480,265		74,530,960	6.01%
Lighting Rate LE	221,951	188,618	33,333		189,911	17.55%
Lighting Rate TLE	281,251	239,668	41,583		400,232	10.39%
	1,017,201,652	900,088,775	117,112,877		2,380,933,927	4.92%

Summary of Rates of Return by Class w/Proposed School Rate @RATE AES ROR

	Revenue	Operating Expenses	Operating Margin	Rate Base	ROR
	¢ 402.000.050	¢ 277 002 050	¢ 25 005 000	¢ 4 226 200 224	2.04%
Residential Rate RS	\$ 402,998,858	\$ 377,993,850	\$ 25,005,008	\$ 1,226,288,221	2.04%
General Service	140,932,560	116,921,930	24,010,630	277,706,043	8.65%
School School	10,639,877	9,203,821	1,436,056	21,483,030	<mark>6.68%</mark>
Power Service Primary Rate PS	12,135,232	10,606,685	1,528,547	21,749,589	7.03%
Power Service Secondary Rate PS	145,621,607	122,096,096	23,525,510	255,041,141	9.22%
TOD Rate TOD Primary	123,784,635	111,586,138	12,198,497	226,471,820	5.39%
TOD Rate TOD Secondary	80,141,607	63,170,213	16,971,394	142,923,704	11.87%
Retail Transmission Service Rate RTS	68,365,364	62,906,028	5,459,337	113,082,422	4.83%
Special Contract #1	6,758,416	6,443,949	314,467	14,438,869	2.18%
Special Contract #2	3,509,134	3,303,073	206,060	6,627,986	3.11%
Lighting Rate RLS & LS	18,711,160	14,230,895	4,480,265	74,530,960	6.01%
Lighting Rate LE	221,951	188,618	33,333	189,911	17.55%
Lighting Rate TLE	281,251	239,668	41,583	400,232	10.39%
	1,014,101,652	898,890,965	115,210,687	2,380,933,927	4.84%

Standard Rate

RATE P-12 PUBLIC SCHOOL Time of Day Service

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

This schedule is available for secondary and primary service.

Service under this schedule will be limited to customers to P-12 schools subject to KRS 160.325 whose 12-month-average monthly minimum loads exceed 50 kW and whose 12month-average monthly maximum loads do not exceed 2,000 kW.

RATE

	Se	<u>condary</u>	<u>P</u> 1	rimar <u>y</u>
Basic Service Charge per month:	\$2	00.00	\$3	300.00
Plus an Energy Charge per kWh of:	\$	0.04049	\$	0.03824
Plus a Maximum Load Charge per kW of: Peak Demand Period Intermediate Demand Period Base Demand Period	\$	4.61 2.97 2.47		
Plus a Maximum Load Charge per kVA of: Peak Demand Period Intermediate Demand Period Base Demand Period				3.70 2.22 1.77

Where:

- the monthly billing demand for the Peak and Intermediate Demand Periods is the greater of: a) the maximum measured load in the current billing period, or
- b) a minimum of 50% of the highest billing demand in the preceding eleven (11) monthly billing periods, and
- the monthly billing demand for the Base Demand Period is the greater of:
 - a) the maximum measured load in the current billing period but not less than 50 kW secondary or 50 kVA primary, or
 - b) a minimum of 75% of the highest billing demand in the preceding eleven (11) monthly billing periods, or
 - c) a minimum of 75% of the contract capacity based on the maximum load expected on the system or on facilities specified by Customer.

Standard Rate

RATE P-12 PUBLIC SCHOOL Time of Day Service

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

Fuel Adjustment Clause	Sheet No. 85
Off-System Sales Adjustment Clause	Sheet No. 88
Demand-Side Management Cost Recovery Mechanism	Sheet No. 86
Environmental Cost Recovery Surcharge	Sheet No. 87
Franchise Fee Rider	Sheet No. 90
School Tax	Sheet No. 91

DETERMINATION OF MAXIMUM LOAD

The load will be measured and will be the average kW demand delivered to the customer during the 15-minute period of maximum use during the appropriate rating period each month. Company reserves the right to place a kVA meter and base the billing demand on the measured kVA. The charge will be computed based on the measured kVA times 90 percent, at the applicable kW charge.

In lieu of placing a kVA meter, Company may adjust the measured maximum load for billing purposes when the power factor is less than 90 percent in accordance with the following formula: (BASED ON POWER FACTOR MEASURED AT THE TIME OF MAXIMUM LOAD)

Adjusted Maximum kW Load for Billing Purposes = $\underline{Maximum \ kW \ Load \ Measured \ x \ 90\%}$ Power Factor (in percent)

RATING PERIODS

The rating periods applicable to the Maximum Load charges are established in Eastern Standard Time year round by season for weekdays and weekends, throughout Company's service area, and shall be as follows:

Summer peak months of May through September

	Base	Intermediate	Peak_
Weekdays	All Hours	10 A.M. – 10 P.M.	1 P.M. – 7 P.M.
Weekends	All Hours		
All other months of	October continuously	through April	
	Base	Intermediate	Peak
Weekdays	All Hours	6 A.M. – 10 P.M.	6 A.M. – 12 Noon
Weekends	All Hours		

Louisville Gas and Electric Company

P.S.C. No. xx, Original Sheet No. xx

Standard Rate

RATE P-12 PUBLIC SCHOOL Time of Day Service

DUE DATE OF BILL

Customer's payment will be due within sixteen (16) business days (no less than twenty-two (22) calendar days) from the date of the bill.

LATE PAYMENT CHARGE

If full payment is not received by the due date of the bill, a 1% late payment charge will be assessed on the current month's charges

TERM OF CONTRACT

Service will be furnished under this schedule only under contract for a fixed term of not less than one (1) year, and for yearly periods thereafter until terminated by either party giving written notice to the other party 90 days prior to termination. Company, however, may require a longer fixed term of contract and termination notice because of conditions associated with the customer's requirements for service.

TERMS AND CONDITIONS

Service will be furnished under Company's Terms and Conditions applicable hereto.

Standard Rate

RATE P-12 PUBLIC SCHOOL (Interim) Power Service

APPLICABLE

In all territory served.

AVAILABILITY OF SERVICE

This rate schedule is available for secondary or primary service.

Service under this schedule will be limited to customers to P-12 schools subject to KRS 160.325 whose 12-month-average monthly minimum loads exceed 50 kW and whose 12 month-average monthly maximum loads do not exceed 2000 kW. Secondary or primary customers receiving service under P.S.C. of Kentucky No. 6, Fourth Revision of Original Sheet No. 15, Large Commercial Rate LC and Fourth Revision of Sheet 25, Large Power Industrial Rate LP, as of February 6, 2009, with loads not meeting these criteria will continue to be served under this rate at their option. If Customer is taking service under this rate schedule and subsequently elects to take service under another rate schedule, Customer may not again take service under this rate schedule unless and until Customer meets the Availability requirements that would apply to a new customer.

RATE

	Secondary	Primary
Basic Service Charge per month:	\$90.00	\$200.00
Plus an Energy Charge per kWh of:	\$ 0.04071	\$ 0.03925
Plus a Demand Charge per kW of: Summer Rate:		
(Five Billing Periods of May through September)	\$ 11.66	\$ 11.16
Winter Rate: (All other months)	\$ 9.25	\$ 8.75

Where the monthly billing demand is the greater of:

a) the maximum measured load in the current billing period but not less than 50 kW for secondary service or 25 kW for primary service, or

b) a minimum of 50% of the highest billing demand in the preceding eleven (11) monthly billing periods, or

c) a minimum of 60% of the contract capacity based on the maximum expected load on the system or on facilities specified by Customer.

Standard Rate

RATE P-12 PUBLIC SCHOOL (Interim) Power Service

ADJUSTMENT CLAUSES

The bill amount computed at the charges specified above shall be increased or decreased in accordance with the following:

Fuel Adjustment Clause	Sheet No. 85
Off-System Sales Adjustment Clause	Sheet No. 88
Demand-Side Management Cost Recovery Mechanism	Sheet No. 86
Environmental Cost Recovery Surcharge	Sheet No. 87
Franchise Fee Rider	Sheet No. 90
School Tax	Sheet No. 91

DETERMINATION OF MAXIMUM LOAD

The load will be measured and will be the average kW demand delivered to the customer during the 15-minute period of maximum use during the appropriate rating period each month. Company reserves the right to place a kVA meter and base the billing demand on the measured kVA. The charge will be computed based on the measured kVA times 90 percent, at the applicable kW charge. In lieu of placing a kVA meter, Company may adjust the measured maximum load for billing purposes when the power factor is less than 90 percent in accordance with the following formula: (BASED ON POWER FACTOR MEASURED AT THE TIME OF MAXIMUM LOAD)

Adjusted Maximum kW Load for Billing Purposes = <u>Maximum kW Load Measured x 90%</u> Power Factor (in percent)

DUE DATE OF BILL

Customer's payment will be due within sixteen (16) business days (no less than twenty-two (22) calendar days) from the date of the bill.

LATE PAYMENT CHARGE

If full payment is not received by the due date of the bill, a 1% late payment charge will be assessed on the current month's charges

TERM OF CONTRACT

Service will be furnished under this schedule only under contract for a fixed term of not less than one (1) year, and for yearly periods thereafter until terminated by either party giving written notice to the other party 90 days prior to termination. Company, however, may require a longer fixed term of contract and termination notice because of conditions associated with the customer's requirements for service.

TERMS AND CONDITIONS

Service will be furnished under Company's Terms and Conditions applicable hereto.

RATE P-12 PUBLIC SCHOOL (INTERIM) POWER SERVICE Secondary

	Bills	Kw	KWh	Present Rates		Propos	ed Rates
Basic Service	1,404			\$90.00	\$126,360	\$90.00	\$126,360
Energy			122,503,014	\$0.04071	\$4,987,098	\$0.04071	\$4,987,098
Summer kW Min Incr		204,411 1,005		\$18.40 \$18.40	\$3,761,162 \$18,487	\$11.66 \$11.66	\$2,383,150 \$11,714
Winter kW Min Incr		233,046		\$15.99 \$15.99	\$3,726,400 \$53,242	\$9.25 \$9.25	\$2,155,350 \$30,795
Total		3,330		\$T2'88	\$35,242	<i>39.</i> 22	\$30,795

RATE P-12 PUBLIC SCHOOL SERVICE TIME of DAY SERVICE Secondary

	Bills	Kw	KWh	Present	t Rates	Propos	ed Rates
Basic Service	48			\$200.00	\$9,600	\$200.00	\$9,600
Energy			5,434,039	\$0.04049	\$220,024	\$0.04049	\$220,024
Base kW		18,262		\$4.60	\$84,005	\$2.47	\$45,079
Min Incr Old		694		\$4.60	\$3,192	\$2.47	\$1,713
Min Incr New		3,951					
Inter kW		18,160		\$5.10	\$92,617	\$2.97	\$53,908
Min Incr		248		\$5.10	\$1,264	\$2.97	\$736
							\$0
Peak kW		17,792		\$6.74	\$119,917	\$4.61	\$81,993
Min Incr		263		\$6.74	\$1,776	\$4.61	\$1,214
Total					\$532,395		\$414,266

Respectfully submitted,

/s/Matt Malone

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Counsel for the Petitioner, KENTUCKY SCHOOL BOARDS ASSOCIATION

CERTIFICATE OF SERVICE

It is hereby certified, this the 3rd day of March, 2017, that the attached Testimony of KSBA is a true and correct copy of the document being filed in paper medium; that the electronic filing has been transmitted to the Commission on March 3, 2017; that there are currently no parties that have been excused from participation by electronic service; that an original and six copies of this document are being hand-delivered to the Commission for filing on March 3, 2017; and that an electronic notification of the electronic filing will be provided to all counsel listed on the Commission's service list in this proceeding.

/s/Matt Malone ATTORNEY FOR KSBA