COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

JOINT APPLICATION OF LOUISVILLE GAS)	
AND ELECTRIC COMPANY AND KENTUCKY)	
UTILITIES COMPANY FOR A CERTIFICATE)	
OF PUBLIC CONVENIENCE AND NECESSITY)	
FOR THE CONSTRUCTION OF A COMBINED)	
CYCLE COMBUSTION TURBINE AT THE)	CASE NO. 2014-00002
GREEN RIVER GENERATING STATION AND)	
A SOLAR PHOTOVOLTAIC FACILITY AT)	
THE E.W. BROWN GENERATING STATION)	

SUPPLEMENT TO EXHIBIT DSS-1, APPENDIX A OF DAVID S. SINCLAIR'S TESTIMONY VICE PRESIDENT, ENERGY SUPPLY AND ANALYSIS KENTUCKY UTILITIES COMPANY AND LOUISVILLE GAS AND ELECTRIC COMPANY

Filed: April 25, 2014

VERIFICATION

COMMONWEALTH OF KENTUCKY SS:)) **COUNTY OF JEFFERSON**

The undersigned, David S. Sinclair, being duly sworn, deposes and says that he is Vice President, Energy Supply and Analysis for Kentucky Utilities Company and Louisville Gas and Electric Company and an employee of LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the foregoing testimony, and that the answers contained therein are true and correct to the best of his information, knowledge and belief.

David S. Sinclair

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 23" 2014. day of

(SEAL) Notary Public

My Commission Expires:

SUSAN M. WATKINS Notary Public, State at Large, KY My Commission Expires Mar. 19, 2017 dary ID # 485723

CONFIDENTIAL INFORMATION REDACTED

6 Appendices

6.1 Appendix A – Detailed Summary of RFP Proposals, Self-Build Alternatives, and DSM Programs

Contract	Description									Costs (FCs, Ex	pressed as \$/					rgy Costs		Variable Co	sts	
								Per Bid	Per Bid			Additional LGE/K		by LGE/KU (\$2015) Other	Per Bid Unfire	d Energy		Per Bid	Fu	uel per
							Base Yea					Fixed X	M Firm Gas	LGE/KU	Heat Rat	e Price @	Energy		Cost per	Start Var
Response	Counterparty	Class	Technology	Description	XM Interconnect Point (TIP)	Contract Ca Start Date		arty Asset Sale Pri puts (\$1			. FC #2 (\$/MW-yr) Esc			Fixed O&M Fixed (\$/MW-yr) Escal			Price Escalator		Hour (mm (\$/Hr) ga	nBtu or allons) (\$/N
1A									,	,,		,	, (,, ,,,	(1) //	(,	, (,, ,		(1)		
1B 1C																				
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71																				
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26 27A																				
27B																				
41A 41B																				
42																				
43A 43B																				
43C									_											
	LGE/KU LGE/KU		NGCC (1x1), Siemens NGCC (2x1), Siemens	Self-Build, 332 MW Self-Build, 670.4 MW	Green River Green River	6/1/2017 6/1/2017		2018 437 2018 650					21,080 21,080		Sch. 6,88 Sch. 6,86		Ţ			
35	LGE/KU	Solar_Own	Solar (PV Array)	Self-Build, 10 MW	Site TBD	1/1/2016	10	2015 46	6.3				21,000		00%					
	LGE/KU LGE/KU	SCCT_Own SCCT_Own	SCCT Steam Augmentation	Trimble CT Retrofit Steam Augmentation for Trimble CTs	Trimble County Station Trimble County Station	4/1/2015 4/1/2015			108 108						10,13 9,96					
40A	LGE/KU	DSM	DSM	Lighting	LGE/KU System	1/1/2015	1	2015							Sch.					
	LGE/KU LGE/KU	DSM DSM	DSM DSM	Thermostat Rebates Windows & Doors	LGE/KU System LGE/KU System	1/1/2015 1/1/2015		2015 2015							Sch. Sch.					
40D	LGE/KU	DSM	DSM	Manufactured Homes	LGE/KU System	1/1/2015	1	2015						334,015	Sch.					
	LGE/KU LGE/KU	DSM DSM	DSM DSM	Behavioral Thermostat Pilot Commercial New Construction	LGE/KU System LGE/KU System	1/1/2015 1/1/2015		2015 2015							Sch. Sch.					
40G	LGE/KU	DSM	DSM	Automated Demand Response	LGE/KU System LGE/KU System	1/1/2015		2015 2015 127	7.1						sch.					
	" indicates that the cost is o																			

Note: "Sch." indicates that the cost is defined by a schedule (and does not escalate at a fixed rate over time).

APRIL 25, 2014 SUPPLEMENT EXHIBIT DSS-1

		Additional C	osts Incu	urred by LG	E/KU (\$201	5)
	Start Cost		Cost per	Fuel per	Variable	Start Cost
O&M (\$/MWh)	and VOM Escalator	Start Cost (\$/Start)	Hour	Start (mmBtu)	0&M	and VOM Escalator
(+))		(4) 21214)	(4))	((#/)	
		0	441	1,510	0.35	2.00%
		0			0.35 0.91	2.00% 2.00%
					5.51	2.0078