COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In	the	Matter	of:

ELECTRONIC JOINT APPLICATION OF)	
KENTUCKY UTILITIES COMPANY AND)	
LOUISVILLE GAS AND ELECTRIC)	CASE NO. 2022-00402
COMPANY FOR CERTIFICATES OF)	CASE NO. 2022-00402
PUBLIC CONVENIENCE AND NECESSITY)	
AND APPROVAL OF A DEMAND SIDE)	
MANAGEMENT PLAN)	

APRIL 24, 2023 SUPPLEMENTAL RESPONSE OF
KENTUCKY UTILITIES COMPANY
AND
LOUISVILLE GAS AND ELECTRIC COMPANY
TO
THE METROPOLITAN HOUSING COALITION, KENTUCKIANS FOR THE
COMMONWEALTH, KENTUCKY SOLAR ENERGY SOCIETY AND
MOUNTAIN ASSOCIATION'S
INITIAL REQUEST FOR INFORMATION
DATED FEBRUARY 17, 2023

FILED: APRIL 24, 2023

VERIFICATION

COMMONWEALTH OF KENTUCKY	,
COUNTY OF JEFFERSON	

The undersigned, **Stuart A. Wilson**, being duly sworn, deposes and says that he is Director, Energy Planning, Analysis & Forecasting for LG&E and KU Services Company, 220 West Main Street, Louisville, KY 40202, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge, and belief.

Stuart A. Wilson

Notary Public

Notary Public ID No. KYNP 63286

My Commission Expires:

January 22, 2027

KENTUCKY UTILITIES COMPANY AND LOUISVILLE GAS AND ELECTRIC COMPANY

April 24, 2023 Supplemental Response to Metropolitan Housing Coalition,
Kentuckians for the Commonwealth, Kentucky Solar Energy Society and
Mountain Association's
Initial Request for Information
Dated February 17, 2023

Case No. 2022-00402

Question No. 1.41

Responding Witness: Stuart A. Wilson

Q-1.41. Please provide a key to all acronyms used in the Companies' PLEXOS modeling for this case.

A-1.41. Original Response

The following acronyms are used in the Companies' PLEXOS modeling files:

Acronym	Definition
RFP	Request for Proposal
DSM	Demand Side Management
DR	Demand Reduction
SCR	Selective Catalytic Reduction
MC2	Mill Creek Unit 2
GH2	Ghent Unit 2
CCR	Coal Combustion Residuals
EFOR	Equivalent Forced Outage Rate
MW	Megawatt
FOM	Fixed Operating and Maintenance Expense
VOM	Variable Operating and Maintenance Expense
OM	Operating and Maintenance
IRA	Inflation Reduction Act
WMR	Winter Reserve Margin
SRM	Summer Reserve Margin
CC	Combined Companies
NGCC	Natural Gas Combined Cycle
CT	Combustion Turbine
SCCT	Simple Cycle Combustion Turbine
SO2	Sulfur Dioxide

VOLL	Value of Lost Load	
SOC	State of Charge	
PPA	Power Purchase Agreement	
CTG	Coal-to-Gas Ratio as described in section 2.2 of	
	Appendix E in Exhibit SAW-2	
LGMR or LGLC	Low Gas Mid CTG Ratio fuel price forecast	
LGHR	Low Gas High CTG Ratio fuel price forecast	
MGMR or MGMC	Mid Gas Mid CTG Ratio fuel price forecast	
HGMR or HGHC	High Gas Mid CTR Ratio fuel price forecast	
HGLR	High Gas Low CTG Ratio fuel price forecast	
HGH2	High Gas Current CTG Ratio fuel price forecast	

April 13, 2023 Supplemental Response

See attached.

April 24, 2023 Supplemental Response

In the Excel file provided with the Companies' April 13, 2023 Supplemental Response, Column K of the "PLEXOS Models" tab contained a note stating that the models with "17SRM" in the model name actually targeted a 24% winter reserve margin. That note was incorrect; those models actually targeted a 17% summer reserve margin as their names indicated. A corrected version of the Excel file provided with the Companies' April 13, 2023 Supplemental Response is attached; the changes needed to make the correction are limited to four cells in Column K of the "PLEXOS Models" tab.

The attachment is being provided in a separate file.