

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE PUBLIC SERVICE COMMISSION**

**In the Matter of:**

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

**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**



**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.