APPENDIX B

Mr. Cordes,

Louisville Gas & Electric (LG&E) Trimble County Generating Station's variation in SO₂ emissions is largely attributed to an increase in utilization. Due to retirements of units in the LG&E and KU Energy (LKE) fleet, we are shifting our generation to newer units within our fleet. Individual unit utilization varies annually based on electricity usage rates, fuel costs, planned outages, etc. Planned outages for compliance with new or revised regulations requiring installation of new equipment such as emission controls and dry ash handling systems has increased utilization to displace the loss of generation from other units within the fleet during this time period. Trimble County Unit 1 has seen the largest increase in utilization since Trimble County Unit 2 is historically a base load unit.

In addition, the submitted modeling results also included contributions from the LKE Ghent Generating Station. In the time periods specified below, the Ghent SO₂ emissions decreased by 28.8%. Combining emissions from both LKE sources, data shows there is a 19.34% decrease in SO₂ emissions from the LKE sources when comparing the 2012-2014 modeled time period to the 2017-2019 time period. Thus, further validating the modeled results in demonstrating attainment with the 1 hr SO₂ NAAQS.

S	Modeled Years (tpy)			Subsequent Years (tpy)		
Source	2012	2013	2014	2017	2018	2019
KU - Ghent	10772.4	13421.9	14851.2	8633.6	10620.9	8544.8

Source	Average 2012-2014	Average 2017-2019	Average Percent	
	(tpy)	(tpy)	Change	
KU – Ghent	13015.17	9266.43	-28.80%	

Source	Modeled Years (tpy)			Subsequent Years (tpy)		
	2012	2013	2014	2017	2018	2019
Ghent & Trimble	13668.23	16943.29	17907.4	11995.75	14629.25	12511.69

Source	Average 2012-2014	Average 2017-2019	Average Percent
	(tpy)	(tpy)	Change
Ghent & Trimble	16172.97	13045.56	-19.34%

Brandan Burfict