ATTACHMENT AReply Comments of Peabody Energy Co. to MO PSC, File No. EW-2012-0065

Issues	Ameren Missouri	AMEC	Empire	KCP&L/GMO	Sierra Club
		(Coops/REAs)			
BB1 – 6%	-6% improvement	-6% efficiency	-It will be extremely	- 6% remaining coal	-EPA's 6% estimate
Heat Rate	across the Ameren	improvement is not	difficult, if not	fleet heat rate	is likely conservative;
Increase	Missouri fleet is not	achievable	impossible to achieve	improvement is not	most EGUs could
	achievable; estimates	-EPA uses incorrect	an additional 6%	reasonably achievable	achieve even greater
	between 1-1.5% is	methodology to	improvement	-KCP&L has identified	reductions
	more realistic	estimate heat rate	-Some new heat rate	35 projects that could	-EPA should set the
	-EPA estimates are	improvements, may	improvement projects	decrease heat rate at	standard based on at
	based on assumptions	confuse heat rate	would fall under New	coal-fired EGUs by	least 7-10%
	that don't apply to	efficiency with boiler	Source Review,	1.6% at a cost of \$60	efficiency
	Ameren Missouri	efficiency	resulting in more	million with \$2.5	improvements
		-New Source Review	onerous and limiting	million annual O&M	
		will likely be	process	costs	
		triggered for some		-No indication of how	
		projects; these rules		New Source Review	
		discourage and		would be addressed for	
		prevent utilities from		related projects	
		performing plant			
		efficiency projects			
BB2 –	-If there ae	-Proposed 111(d) rule	-Empire's SLCC unit	-Natural gas	-EPA should ensure
NGCC 70%	constraints, RTO	should not be more	has technical potential	transmission constraints	final rule does not
Dispatch	would need to re-	stringent than	to reach 70% capacity	will limit increases in	incentivize
	dispatch the system,	proposed 111(b) rule	factor, but limiting	gas-fired generation in	construction of any
	build transmission to	for new generating	factors such as RTO	MO	new fossil fuel-fired
	increase capacity,	units	constraints are outside	-Pipelines that serve	generation
	and/or curtail load,	-2012 is not	of Empire's control	MO were designed to	-New NGCC
	requiring new	representative of		serve winter heating	generation is not an
	infrastructure	normal plant		load; do not have the	acceptable
	-EPA fails to address	operations and does		capacity to	compliance strategy
	that states don't	not take into account		simultaneously serve	
	control dispatch of	variations in natural		winter natural gas	
	NGCC units in RTO	gas prices		heating load and coal-	

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	markets	-EPA did not		fired generation	
	-Independent operator	consider constraints		displaced to natural gas	
	control over dispatch	to natural gas		-EPA assumes pipeline	
	will affect utility's	supplies and		capacity will be	
	ability to control	constraints to T&D		expanded to meet all	
	emissions; utility will	system in requiring		electric sector needs;	
	need to bid units in a	70% capacity		ignores realities in	
	manner that results in	-EPA did not account		natural gas markets	
	RTO dispatching	for time required to			
	NGCC at 70%	finance, permit, and			
	capacity	construct new NGCC			
		plants			
		-EPA did not			
		consider			
		environmental			
		impacts to historical			
		sites, endangered			
		species and water			
		resources when			
		requiring			
		construction of			
		additional CCNG			
BB3 – RE/	-Entire "at risk"	-EPA doesn't	-MO is not the	-Reducing target	-MO can achieve its
Nuclear	category in BB3	consider constraints	optimum location for	renewable generation	carbon reduction goal
	should be eliminated	to T&D systems in	wind or solar	for each category would	without increasing its
	from target rates	requiring	installations	require ~340 MW of	reliance on expensive
	-States should be	construction of new	-Utilities that operate	utility-scale solar, 1,200	and potentially
	allowed to decide	RE	in multiple states will	MW of wind, and 17	dangerous energy
	whether to allow 6%	-Transmission system	have difficulty in	MW of biomass	sources like nuclear
	of unregulated nuclear	construction timeline	complying with the	capacity additions	-EPA's 12.8 TWh
	generation to go	does not support	regulation, e.g. the	-Should Callaway in any	projection for RE is

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	toward compliance	EPA's 2020 rule start	likelihood for MO,	year generate less	achievable
	-Missouri RPS only	date	OK, and AR	energy than EPA	
	applies to investor	-EPA estimates RE	(Empire's operating	assumes (at 90%	
	owned utilities; EPA	would only displace	states) working	capacity factor), the	
	incorrectly assumes	coal generation and	together is very small	state would need to	
	RPS applies to all	overestimates	-States should be	offset any shortfall	
	utilities in state	emission reductions	credited for keeping	-While nuclear, wind	
		in BB#3	nuclear generation	and hydro can be	
		-EPA does not	online	considered zero-	
		consider NEPA		emitting resources, EPA	
		changes and delays		treats them all	
		due to federal law in		differently	
		establishing timelines			
BB4 – 1.5%	-2020-2029 targets in	-It is unfair for EPA	-Achieving EPA's	-Anticipates it will be	-Utilities are leaving
Annual	EPA's calculation of	to ignore EE gains	aggressive level of EE	short of the 1.5%	cost-effective EE on
Load	CO2 emission rate are	already made by the	savings will be	incremental EE growth	the table as they
Reductions	"likely unattainable"	cooperatives	challenging	target, but cumulative	constrain planning
		-AECI cannot	-Utilities cannot	EE savings are projected	and economic models
		mandate that	guarantee EE savings	to exceed the 9.92%	to avoid choosing EE
		distribution	as it requires customer	cumulative target in	as a resource
		cooperatives or their	participation and	2030.	-EPA will need to
		members participate	financial investment	-Unclear whether the	ensure some entity –
		in DSM or other	from customers,	1.5% annual increase in	either the state or
		consumer-based EE	especially in Empire's	energy savings is	individual utilities- is
		programs	predominantly rural	reasonable, achievable	required by law to
			territory	and sustainable on a	achieve 1.5% savings
			-Industry is facing low	national level – this	level starting in 2020
			load growth and	level of performance has	
			relatively low fuel	not been sustained	
			costs, making it more	nationwide	
			difficult for EE		

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Cost of EPA Carbon Cap	-Estimates cost of GHG Compliance Plan approximately \$4 billion over the next 20 years -Cost of additional 200-300 MW of wind generation above current RES requirements could cost \$400-\$750 million	-EPA did not but should consider the costs and project delays for obtaining ROWs and constructing natural gas supply pipelines	programs to pass cost effectiveness tests -Ramping up EE savings to EPA's suggested level would take major shift in customer attitudes toward EE programs -Least cost options do not favor RE sources as compared to other options -EPA does not acknowledge the 1% rate increase cap set on the MO RE standard by voters -Alternate does not account for the costs of reaching the benchmark -Coal generating plants are some of the most economical generation resources in the region -Electric prices likely	-Cost of generation would be significantly higher for generation displaced from coal to natural gas: gas is more expensive than coal and increased demand will further increase gas prices -Estimates renewable capacity additions will cost \$1.2 billion for utility-scale solar, \$2 billion for wind, and \$76 million for biomass (not including transm. upgrade costs) -Adding 1.5 million MWhs of RE from wind	-RE generation and EE measures "are a far more cost-effective means to achieving compliance" than construction of new natural gas combined cycle generation -MO can ensure compliance by investing in EE and RE resources, with an emphasis on wind, while at the same time reducing overall system costs for utilities and ratepayers
			to increase under the	will cost \$650-\$700 million	ratepayers