STATE OF MISSOURI PUBLIC SERVICE COMMISSION

At a session of the Public Service Commission held at its office in Jefferson City on the 26th day of October, 2016.

In The Matter of a Determination of Special)	
Contemporary Resource Planning Issues to be)	
Addressed by KCP&L Greater Missouri Operations)	File No. EO-2017-0075
Company in its Next Triennial Compliance Filing)	
Or Next Annual Update Report)	

ORDER ESTABLISHING SPECIAL CONTEMPORARY RESOURCE PLANNING ISSUES

Issue Date: October 26, 2016 Effective Date: November 1, 2016

A provision in the Commission's electric utility resource planning rule, 4 CSR 240-22.080(4), requires Missouri's electric utilities to consider and analyze special contemporary issues in their integrated resource plan (IRP) triennial compliance filings or in their annual IRP update reports. The regulation provides that by September 15 of each year, Staff, Public Counsel, and other interested parties may file suggested issues for consideration. The regulation allows the utilities and other parties until October 1 to file comments regarding the suggested issues. The Commission must then issue an order by November 1 of each year specifying the list of special contemporary issues that each electric utility must address.

The Commission's Staff, the Missouri Department of Economic Development – Division of Energy, and Brightergy / Natural Resources Defense Council (NRDC) filed suggested special contemporary issues for KCP&L Greater Missouri Operations Company

(GMO) to analyze and respond to in its 2017 IRP Annual Update Report. GMO filed responses to those suggestions. In addition, on October 24, Staff filed a response to questions raised by the Commission at its October 19 agenda meeting. The Commission must now determine what special contemporary issues GMO should address.

This is not a contested case. The Commission does not need to hear evidence before reaching a decision and does not need to make findings of fact and conclusions of law in announcing that decision.¹ The Commission's rule gives the Commission broad discretion in determining what issues a utility should be required to address, indicating:

[t]he purpose of the contemporary issues lists is to ensure that evolving regulatory, economic, financial, environmental, energy, technical, or customer issues are adequately addressed by each utility in its electric resource planning. Each special contemporary issues list will identify new and evolving issues but may also include other issues such as unresolved deficiencies or concerns from the preceding triennial compliance filing.²

After considering these factors, the Commission will adopt the list of special contemporary issues set forth in this order. The Commission has chosen these issues because they are of particular interest and importance and should be addressed in GMO's IRP filing. GMO may already plan to address these issues in its IRP Annual Update Report apart from their designation as special contemporary issues. Or it may believe that it has already adequately addressed some of these issues in a previous IRP filing, or some other filing. If that is so, then it does not need to undertake any additional analysis because of this designation and may simply explain in its upcoming IRP filing exactly where the Commission can find that other analysis. The same approach is acceptable if GMO intends to address any of these issues in a future IRP filing. In that instance, GMO need not

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¹ State ex rel. Public Counsel v. Public Service Com'n, 259 S.W.3d 23, 29 (Mo. App. W.D. 2008)

² 4 CSR 240-22.080(4).

undertake duplicative analysis and may instead explain where the Commission will find analysis of the below issues.

THE COMMISSION ORDERS THAT:

- GMO shall analyze and document the following special contemporary issues in its 2017 IRP Annual Update Report:
- A. Document GMO's most recent economic analysis for its system-wide implementation of AMI meters. Provide projected implementation dates and annual budgets for AMI implementation.
- B. Analyze and document the future capital and operating costs faced by each GMO coal-fired generating unit in order to comply with the following environmental standards:
 - (1) Clean Air Act New Source Review provisions;
 - (2) 1-hour Sulfur Dioxide National Ambient Air Quality Standard;
 - (3) National Ambient Air Quality Standards for ozone and fine particulate matter;
 - (4) Cross-State Air Pollution Rule, in the event that the rule is reinstated;
 - (5) Mercury and Air Toxics Standards;
 - (6) Clean Water Act Section 316(b) Cooling Water Intake Standards;
 - (7) Clean Water Act Steam Electric Effluent Limitation Guidelines;
 - (8) Coal Combustion Waste rules;
 - (9) Clean Air Act Section 111(d) Greenhouse Gas standards for existing sources;
 - (10) Clean Air Act Regional Haze requirements; and
 - (11) Clean Power Plan.

- C. Analyze and document the cost of any transmission grid upgrades or additions needed to address transmission grid reliability, stability, or voltage support impacts that could result from the retirement of any existing GMO coal-fired generating unit in the time period established in the IRP process.
- D. Review the options available to GMO for providing customer financing for energy efficiency measures. Discuss GMO's current, near term (next three years) and long-term activities and plans for providing customer financing for energy efficiency measures.
- E. Describe and document how the preferred plan of the Company's Integrated Resource Plans (IRPs) positions the utility for full or partial compliance with the U.S. Environmental Protection Agency's (EPA) Clean Power Plan (CPP) under Section 111(d) of the Clean Air Act, as released in final form on August 3, 2015, assuming that the rule is upheld by the courts in its current form, except as compliance timelines may need to be modified as a result of the delay in implementation resulting from the U.S. Supreme Court's stay. Please include in this regard:
 - (1) Qualitative and quantitative evaluations of how renewable energy, energy efficiency and other demand-side resources (including combined heat and power) deployed by the Company after January 1, 2013 could contribute to compliance;
 - (2) Qualitative and quantitative evaluations of how renewable energy, energy efficiency and other demand-side resources (including combined heat and power) deployed by the Company after the submission of a final State Implementation Plan could qualify under EPA's proposed Clean Energy Investment Program (CEIP);

- (3) A description and quantification of additional investments (in fiscal, capacity, and energy terms by year) which will be required by the Company to meet the targets in the CPP under a trading-ready "mass-based" approach, with and without participation in the CEIP;
- (4) Qualitative and quantitative descriptions of the barriers to achieving these additional investments;
- (5) The price of carbon used by the Company in the analyses above and a justification for this price;
- (6) A description and explanation of the Company's preferences regarding specific compliance options under a state implementation plan; and
- (7) A description of all meetings, analyses, or other efforts made towards preparation for compliance with the CPP (and CEIP, as applicable).

To the extent that any uncertainty is involved in determining compliance pathways under the CPP (and CEIP, as applicable) based on the scenarios provided above, please describe and document the Company's choices under the most probable compliance scenarios, with an explanation of why the Company believes these scenarios are the most probable.

- F. Evaluate, describe, and document the feasibility, cost-reduction potential, and potential benefits of joint DSM programs, marketing, and outreach with water utilities.
- G. Describe, document, and evaluate potential DSM programs which could address the needs of customers that might otherwise "opt out" of participation in MEEIA.
- H. Evaluate the potential demand and energy load associated with electric vehicles within the Company's Missouri service territory, discuss how the preferred plan

addresses the additional demand and energy load requirements, and evaluate potential means for shifting the additional demand and energy load to off-peak periods. Describe all current and planned electric vehicle initiatives undertaken by the Company.

- I. Describe and document the roles which energy storage and conservation voltage reductions could play in the Company's system planning, particularly with regards to DSM and distributed energy resources.
- J. Evaluate the need to upgrade and enhance the utility's delivery infrastructure in order to ensure and advance system resiliency, reliability and sustainability.
- K. Separately describe and document how the utility's investments in grid modernization, DSM (as evaluated in the current or most recent IRP) and renewable energy will ensure that the public interest is adequately served and that other policy objectives of the state are met (see 4 CSR 240-22.010).
- L. Describe and document how the utility's standby rates, cogeneration tariffs, and interconnection standards facilitate the development of customer-owned distributed generation resources and microgrids.
- M. Study feasibility of providing all customers with interval meter data. Review the options available to provide customers with real-time, building level data, sub-meter, line and device level data.
 - N. Review plans to make Time of Use rates available to all customers.
- O. Discuss plans to increase deployment of distributed generation resources, including, but not limited to, net metering limitations, interconnection procedures, and billing practices for solar customers.

- P. For purposes of its triennial IRP filing to be made in 2018, include the following as uncertain factors that may be critical to the performance of alternative resource plans in accordance with 4 CSR 240-22.060(5)(M):
 - (1) Foreseeable emerging energy efficiency technologies;
 - (2) Foreseeable energy storage technologies; and
 - (3) Foreseeable distributed generation, including, but not limited to, distributed solar generation, combined heat and power (CHP) and micro-grid formation.
 - 2. This order shall become effective on November 1, 2016.

BY THE COMMISSION

Morris L Woodruff



Morris L. Woodruff Secretary

Hall, Chm., Stoll, Kenney, Rupp, and Coleman, CC., concur.

Woodruff, Chief Regulatory Law Judge