



HELPING OUR MEMBERS WORK TOGETHER
TO KEEP THE LIGHTS ON... TODAY AND IN THE FUTURE

VIA ELECTRONIC MAIL AND FIRST CLASS MAIL

September 20, 2011

Administrator Lisa P. Jackson
USEPA Headquarters
Ariel Rios Building
1200 Pennsylvania Avenue, N. W.
Mail Code: 1101A
Washington, DC 20460

Re: SPP's Review of the EPA's IPM Analysis of the Cross-State Air Pollution Rule, Docket ID No. EPA-HQ-OAR-2009-0491

Dear Ms. Jackson:

Southwest Power Pool, Inc. (SPP), in its capacity as a Federal Energy Regulatory Commission (FERC) approved Regional Transmission Organization (RTO) and a Regional Entity, is concerned that the Environmental Protection Agency (EPA) finalized the Cross-State Air Pollution Rule (CSAPR) without adequately assessing the reliability impacts of the CSAPR on the SPP region. SPP originally expressed concern with the reliability impacts of proposed regulations¹ in its July 19, 2011 comment letter to the EPA.

As required by the Energy Policy Act of 2005, FERC has approved mandatory and enforceable reliability standards promulgated by NERC with which the industry must comply. These standards were developed through a well vetted industry process identifying key requirements to ensure the bulk electric system meets an adequate level of reliability. Failure to comply with these standards can affect the ability of the power grid to operate reliably as well subject SPP and its members to financial penalties. These standards require that SPP's Transmission Planners ensure that transmission lines are not overloaded and that voltage is maintained within certain prescribed limits in the event of the failure of a single element in the system. Additionally, the standards require that Transmission Operators operate in real-time within certain limits. In order to meet the demands of the system there needs to be an adequate balance of generation and transmission availability both in the short and long term. The timing of the CSAPR regulations does not provide the SPP region with enough time to ensure that adequate balance.

Our reliability modeling² indicates that the CSAPR Integrated Planning Model 4.1 (IPM) results, as depicted by the EPA, are likely to cause SPP to be out of compliance with the applicable NERC standards as early as 2012. SPP's planning models identified 5.4 GW from the 48 generation units identified by the EPA with zero fuel burn in 2012 that would have been dispatched during the 2012

¹ On July 19, 2011, Nicholas A. Brown, SPP President and CEO, submitted comments to the EPA in Docket ID Nos. EPA-HQ-OW-2008-0667, EPA-HQ-OAR-2009-0234, and EPA-HQ-OAR-2011-0044, additionally providing SPP's preliminary assessment of the potential reliability impacts of proposed EPA regulations impacting generation in the SPP footprint.

² SPP removed all generation units in its models that consumed zero fuel in the EPA models. No other SPP model adjustments were made.



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Summer Peak conditions. Our analysis revealed 220 overloads in excess of the required, 100% of emergency ratings under contingencies, and 1047 circumstances at various locations on the transmission system where voltage was below the prescribed lower limit of 90% of nominal rating. The statistics in this analysis must be viewed as being indicative, not definitive, results and are probably very conservative compared to what would be experienced in the real world should the modeled system conditions exist. An even clearer representation of reliability violations can be found by applying higher operability limits of 120% to the overloads. There were 16 such overloads on the system. Using a similar out of normal range there were 93 circumstances where voltage dropped below 85% of nominal. These “clear-cut” examples of standards violations represent the well founded concerns regarding the timeline with which the CSAPR would be instituted.

Additionally, 30 contingency scenarios did not solve, which is indicative of extreme system constraints, including the potential of cascading blackouts similar to what occurred in 2003 or which could require the shedding of firm load (that is, localized rolling black-outs initiated by utilities within the SPP region) to avoid more widespread and uncontrolled blackouts and to remain in compliance with reliability standards. Some of the contingencies could be resolved with other short-term transmission and/or resource solutions, but several could not. In those cases, SPP would be in clear violation of mandatory reliability standards and subject to penalty from FERC. However, SPP cannot be compliant with NERC’s planning standards without placing its generation owners in violation of EPA standards when the unutilized units in the IPM are unavailable to SPP. Further exacerbating this situation, SPP’s analysis also revealed that generation production from “small units”³ increased from 13 to 57 units deployed. Some of these units are likely subject to the reciprocating internal combustion engines (RICE) regulations, which were not evaluated as part of this reliability study. If we look beyond the summer peak hour studied, the unavailability of approximately 11 GWs⁴ of total capacity from the EPA model in SPP’s footprint would likely result in additional localized reliability issues.

The result of SPP’s reliability assessment of the EPA’s CSAPR IPM generation dispatch indicates serious, negative implications to the reliable operation of the electric grid in the SPP region raising the possibility of rolling blackouts or cascading outages that would likely have significant impacts on human health, public safety and commercial activity within SPP. These regulations further compound the reliability impacts addressed by SPP in its July 19, 2011 comment letter, which focused on the MACT regulations to be enacted in 2014/15. The time period between finalization of the CSAPR and its effective date is too short to allow SPP and its members/registered entities to appreciate the effects of the rule and to take actions to ensure reliability.

SPP supports a more flexible approach to meeting the emission requirements under the CSAPR, as stated in a joint letter from the New York Independent System Operator, Midwest Independent System Operator, PJM Regional Transmission Organization, the Electric Reliability Council of Texas, and SPP to the EPA in August. The EPA must provide time to allow the industry to plan an approach to comply with its rules in a reliable and reasonable fashion. As it stands now, SPP and its members may be placed in the untenable position of deciding which agency’s rules to violate, FERC or EPA. Putting an

³ “Small units” denotes those units generating 25 megawatts or less per unit.

⁴ Although the EPA model had additional units and capacity with zero fuel burn in 2012 (10.7 - 10.9 GW in total depending on the source of the Pmax), many of these units which were not dispatched in our 2012summer model will be needed during off-peak load periods to accommodate outages and to maintain system reliability.



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industry with critical infrastructure in the position of choosing which agency's rules to violate is bad public policy. SPP suggests that the EPA delay CSAPR's effective date at least a year to allow for investigating, planning, and developing solutions to assist our members in maintaining grid reliability and compliance with both its current regulatory bodies and all of the EPA regulations that impact the electric industry.

Your prompt attention to this matter is greatly appreciated. Please do not hesitate to contact me if you have any questions or would like to discuss this matter further.

Respectfully submitted,

A handwritten signature in black ink that reads "Nick Brown".

Nicholas A. Brown
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A handwritten signature in black ink that reads "John Meyer".

John Meyer
Chairman and Trustee
Southwest Power Pool Regional Entity

A handwritten signature in black ink that reads "David Christiano".

David Christiano
Trustee
Southwest Power Pool Regional Entity

A handwritten signature in blue ink that reads "Gerry Burrows".

Gerry Burrows
Trustee
Southwest Power Pool Regional Entity

cc: SPP Board of Directors
SPP Regional State Committee
SPP Strategic Planning Committee
State Regulators in Arkansas, Kansas, Louisiana, Missouri, Mississippi, Nebraska, New Mexico,
Oklahoma, and Texas



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Congressional Delegations of Arkansas, Kansas, Louisiana, Missouri, Mississippi, Nebraska, New Mexico, Oklahoma, and Texas
Governors of Arkansas, Kansas, Louisiana, Missouri, Mississippi, Nebraska, New Mexico, Oklahoma, and Texas
North American Electric Reliability Corporation
President Barack Obama
Secretary of Energy Dr. Steven Chu
Federal Energy Regulatory Commission