

Ameren Missouri's  
Response to MPSC Data Request - MPSC  
EO-2022-0215  
Staffs Investigation of Rush Island

No.: MPSC 0001

: Please provide all studies performed by or on behalf of Ameren Missouri related to the impacts to the Ameren Missouri system of shutting down Rush Island. Please update this response as additional studies are completed. Please include a timeline for each study including, but not limited to, identification of key inputs, requests for proposals, selection of contractors, input provided by MISO and other 3rd parties, draft study completion, study finalization, implementation, and next steps. Please update the response to this data request as additional studies are contemplated and performed. DR by Shawn Lange (shawn.lange@psc.mo.gov).

**RESPONSE**

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**Title: Director Transmission Planning**  
**Date: 3/17/2022**

**CONFIDENTIAL**  
**20 CSR 4240-2.135(2)(A)8**  
**(ATTACHMENT ONLY)**

In previous years there were studies completed by Transmission Planning in support of the IRP that examined possible impacts of retiring Rush Island and other generating units based upon retirement dates assumed in the IRP. However, there were no other studies that looked at a year out or five year out retirement time frame. Upon being informed that the plant may be retired in the near future, Transmission Planning set about some informal studies in order to start identifying reliability impacts to the transmission systems (principally AIC, Ameren Missouri, and ATXI), which could support the Attachment Y2 study performed by MISO.

The only formal study was completed and documented by MISO, during which time the Ameren Services transmission group performed both steady state and stability analysis, including the transient voltage recovery analysis, to provide MISO with filtered contingency scenarios and also to verify their results. MISO started the Attachment Y2 study process on 11/02/2021. The final report was issued on 1/31/2022 and is attached to this response.

MISO has started the study scope for the Attachment Y process on 3/8/2022. The proposed timeline for the attachment Y process has a draft report available on 5/13/2022, although this could change depending on how the study progresses.

