

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

In the Matter of Staff's Investigation of Matters)
Concerning the Rush Island Energy Center) File No. EO-2022-0215
Belonging to Union Electric Company d/b/a)
Ameren Missouri.

AMEREN MISSOURI MONTHLY REPORT

COMES NOW Union Electric Company, d/b/a Ameren Missouri ("Ameren Missouri" or the "Company") and provides its monthly report on the Rush Island Energy Center ("Rush Island"), below.

1. On February 15, 2022, the Missouri Public Service Commission ("MPSC") issued an order in this docket requiring Ameren Missouri to file monthly reports on the status of the proceedings at the federal court as well as the status of its planning for the retirement of Rush Island. These reports are due on the 15th of each month.

United States District Court for the Eastern District of Missouri Update

2. On September 30, 2023, the District Court entered its order establishing a retirement date for the Rush Island Energy Center of October 15, 2024. As Ameren Missouri previously reported, the District Court has directed the parties to confer regarding possible agreed resolution of the remaining issues in this case. The Department of Justice has terminated settlement discussions and is seeking additional mitigation relief beyond the retirement of Rush Island is appropriate. Ameren Missouri has filed a motion with the District Court seeking a discovery schedule and an evidentiary hearing. At present, the District Court has not set a date for any ruling on these issues and has not set a date for the next hearing.

**Proceedings at Federal Energy Regulatory Commission
and at the Midcontinent Independent System Operator**

3. On July 31, 2023, the Midcontinent Independent System Operator ("MISO") submitted for Commission approval a second System Support Resources ("SSR") agreement by and between MISO and Union Electric d/b/a Ameren Missouri ("Second SSR Agreement"). The Second SSR Agreement is similar to an initial SSR agreement approved by the Federal Energy Regulatory Commission ("FERC") on October 24, 2022, and made effective September 1, 2022. As with the initial SSR agreement, a MISO operating guide details the specific triggers and conditions that will be and have been used for Rush Island's operations.

As MISO explains in its July 31, 2023 filing, none of the needed transmission upgrades will be in place before the end of the initial SSR agreement and the last will likely not be completed until sometime in 2025. MISO further explains that completion of the transmission projects will address the reliability issues that would result from unplanned outages (i.e. contingencies) and will maintain acceptable system performance within the applicable NERC and Transmission Owner planning criteria. FERC approved the second SSR agreement on September 29, 2023.

4. In November of 2023, Rush Island unit 1 operated for 78 hours, producing 25,795 MWhs of net generation. Rush Island unit 2 operated for 26 hours, producing 13,550 MWhs of net generation.

Rush Island Energy Center Retirement Planning Update

5. **Transmission Planning** – As previously reported, the projects that must be completed before Rush Island can be retired are as follows:

- Replacement of an existing transformer with a larger transformer at Ameren Missouri's Wildwood substation,
- Installation of a capacitor bank at Ameren Missouri's Overton Substation,
- Upgrade bus conductor at Rush Island switchyard, and
- Installation of four Static Compensators (STATCOM) in and around the St. Louis region.

6. Also as reported previously, there are certain other projects to be completed to meet Ameren Missouri's local transmission planning criteria with the retirement of Rush Island, but the Rush Island retirement will be independent of these projects going into service:

- Reconductoring 50 miles of conductor on the 345 kV Coffeen to Roxford transmission line,
- Retap of the current transformers as well as installation of new metering equipment at the 138kV Hannibal West substation,
- Raising two structures on the 138kV Neoga-Effingham Northwest transmission line and installing new shunts on the entire line, and
- Constructing a new 138kV transmission line from Beehive to Dupo Ferry and expanding the capacity of the existing Ameren Illinois Dupo Ferry and to Beehive substations to accommodate the new line.

7. Progress on the required projects (listed in paragraph 5 above) is described below.

- Installation of a larger transformer at Ameren Missouri's Wildwood substation - Detailed design work is complete. Construction contractors have been selected for civil and electrical work. Civil construction began in September with the construction of the transformer foundation and oil containment pit to make the site ready for the transformer delivery. The 345/138kV 700MVA transformer that was originally ordered for a project at our Diaz substation has been repurposed and will be installed at the Wildwood Substation to accommodate an expedited delivery schedule. Anticipated delivery of the transformer is April of 2024. The Company expects this project to go into service by June of 2024.
- Installation of a capacitor bank at Ameren Missouri's Overton Substation - Detailed design work is complete and construction contractors have been selected for civil and electrical work. Construction began at the end of July with site grading for the substation yard expansion and will continue with the construction of new position in the substation for the capacitor bank to be connected into the existing energy grid. The capacitor bank is on order and is expected to be delivered in January of 2024. The synchronous breaker delivery has been delayed until January of 2024. Construction is being sequenced such that neither of these delays will impact the final completion of this project. The Company expects this project to go in-service by June 2024.
- Upgrade bus conductor at Rush Island switchyard – detailed design work is complete and the electrical contractor has been selected. Construction will begin end of November of 2023. The Company expects this project to go into service by year end 2023.

- Installation of four STATCOMS in and around the St. Louis region – The current schedule calls for three of the STATCOMs to be in-service by December of 2024. Construction is underway. The final STATCOM is planned to be in-service by June of 2025. Design is complete and has been issued for bid for civil and electrical construction. Construction is planned to begin in spring 2024.
- The required projects have all been approved by MISO. Ameren Missouri asked for some additional projects to be approved under MISO's expedited project review process. These additional projects have also been approved and will be incorporated into MTEP23 later this year.

8. **Operational Planning** – Ameren Missouri started operating under the MISO SSR agreement and associated Operating Guide on September 1, 2022. Since the agreement began, the Rush Island SSR reliability commitments have been as expected, with the units only running during times of MISO need, mostly anticipated to be during summer or winter conditions. We have reduced our O&M and capital budgets for 2023-2025 to reflect that change and have worked out a plan with the unions to reach an agreement on reducing the manpower for maintenance at the plant.

9. As Ameren Missouri has reported previously, the Company continues to work on multiple operational issues that will have to be addressed both during the transition and after retirement of the plant, including creating staffing plans, appropriately adjusting operations and maintenance expenditures and capital investment to reflect retirement of the plant, inspecting remaining inventory to see what is usable elsewhere, and making plans to leave equipment at the plant in safe condition (draining oil, water, etc.), to name a few. Ameren Missouri started with the shutdown plans it developed for the Meramec Energy Center and is modifying them for Rush Island.

WHEREFORE, Ameren Missouri requests the Missouri Public Service Commission accept this filing as compliant with the order to file monthly status reports.

Respectfully submitted,

/s/ Wendy K. Tatro

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CERTIFICATE OF SERVICE

The undersigned hereby certifies that the foregoing was served on the Missouri Public Service Commission Staff and the Office of the Public Counsel via electronic mail (e-mail) on this 15th day of December, 2023.

/s/ Wendy K. Tatro
Wendy K. Tatro