

In the Matter of the Application of Union Electric )  
Company d/b/a Ameren Missouri for Permission and )  
Approval and a Certificate of Public Convenience and ) File No. EA-2019-0181  
Necessity Authorizing it to Construct a Wind Generation )  
Facility. )

COME NOW Union Electric Company d/b/a Ameren Missouri (“Ameren Missouri” or “Company”), and pursuant to ¶ 6 of the Third Stipulation and Agreement filed in this case and approved by the Commission by its *Order Approving Third Stipulation and Agreement*, hereby submits its Quarterly Progress Report for progress through the fourth quarter of 2019.

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**CERTIFICATE OF SERVICE**

The undersigned hereby certifies that a true and correct copy of the foregoing document was served on all parties of record via electronic mail (e-mail) on this 3rd day of January, 2020.

**/s/James B. Lowery**  
James B. Lowery

**Reference: PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI  
File No. EA-2019-0181**

**Subject: Quarterly Reporting requirements set forth in the THIRD STIPULATION  
AND AGREEMENT before the Public Service Commission of the State of  
Missouri regarding the CCN pursuant to Section 393.170.1 to construct and  
own a wind generation facility to be constructed in Atchison Counties in  
Missouri, under the Build Transfer Agreement (“BTA”) with Enel Kansas,  
LLC**

**Quarterly Progress Report:**

**Build Transfer Agreement Amendments**

No additional amendments have been executed in this quarter.

**Plans and Specifications**

Updated plans and specifications per the attached list are provided along with this report via a DVD sent to the Staff (plans were provided for the near term construction but may not be available for all future activities at the start of construction of the first activity - for instance, electrical plans may not be final at the time civil construction commences). A final submission of all plans Issued for Construction (IFC) is expected by the first quarter of 2020. Timely completion of the Final Design remains on schedule.

## **Permits**

	<b>Permit</b>	<b>Agency</b>	<b>Status (Issued/Applied for/ Not yet applied for)</b>
	Atchison County Crossing Assents	Atchison County	Issued
	Atchison County Road Use Agreement	Atchison County	Issued
	Floodplain Permits	Emergency Management Office	N/A Project is not in floodplain
	Determination of No Hazard to Air Navigation for each wind turbine and meteorological tower	Federal Aviation Administration	Issued
	General Stormwater Permit for Construction Activity (NPDES)	Missouri Department of Natural Resources	Issued
	Crossing Permits for Utility Crossing of State Highways	Missouri Department of Transportation	Applied for MoDot is issuing permits on an as-needed basis
	Air Permit for Construction of Minor Source	Missouri Department of Natural Resources	Issued
	Eagle Take Permit ("ETP")	USFWS	Applied For
	Missouri Department of Transportation Driveway Permits	MDOT	Issued
	ACOE Section 404 (Nationwide Permit)	Army Corps of Engineers	Issued

## **Project Milestones**

Task/Activity	BTA Date	BTA Milestone	Projected Completion	
Foundations IFC (Issue for Construction)	07/31/2019	X	07/18/2019	A
Gen-Tie Line IFC (Issue for Construction)	09/16/2019	X	09/09/2019	A
Civil IFC (Issue for Construction)	08/19/2019	X	10/04/2019	A
Execute GIA	11/01/2019	X	10/18/2019	A
O&M Building IFC (Issue for Construction)	07/29/2019	X	10/25/2019	A
Construction Financing Close	09/30/2019	X	10/28/2019	A
Collection System Civil IFC (Issue for Construction)	10/07/2019	X	11/01/2019	A
Turbine Blade Delivery Start V-120 (Safe Harbor)	11/18/2019	X	12/02/2019	A
Substation IFC (Issue for Construction)	10/07/2019	X	12/23/2019	A
Switching Facilities IFC (Issue for Construction)	07/05/2019	X	03/04/2020	
Turbine Delivery Start V-150	05/18/2020	X	05/18/2020	
Switching Facilities Energize Terminal	07/07/2020	X	06/30/2020	
Backfeed	07/07/2020	X	07/07/2020	
Turbine Delivery Start V-110	07/13/2020	X	07/13/2020	
Turbine Mechanical Completion	10/19/2020	X	10/29/2020	
Substantial Completion (per BOP agreement)	11/11/2020	X	10/29/2020	
Turbine Commissioning Completion	10/26/2020	X	11/06/2020	
Turbine Run Test Completion (all units)	11/05/2020	X	11/09/2020	
Testing Completion (all units)	11/15/2020	X	11/10/2020	
Project Completion (BTA Completion Deadline)	12/21/2020	X	11/17/2020	

## **Project Cost**

Cost Account	Baseline Estimate	Estimate at Completion	Variance to Baseline	Per kW <sup>1</sup>
BTA Purchase Price	\$500.5	\$500.5	-	\$1,676.0
Transmission Upgrades <sup>2</sup>	-	-	-	-
Ameren Development and Management	\$6.0	\$10.1	\$4.1	\$33.8
Contingency	\$12.7	\$8.6	(\$4.1)	
<b>Total</b>	<b>\$519.2</b>	<b>\$519.2</b>	-	<b>\$1,738.8<sup>3</sup></b>

<sup>1</sup> Calculations assume 298.6 MW.

<sup>2</sup> Transmission upgrade costs are included in the BTA Purchase Price up to the final study phase estimated amount of \$16.3 million for interconnection to SPP.

<sup>3</sup> Calculation includes contingency, which may not be needed. Value without contingency is \$1,710.0 / kW.

#### Additional Plans and Specifications:

- a. Substation Grading Plan IFC
  - i. Drawings
- b. Civil IFC
  - i. Drawings
  - ii. Shapefiles
- c. Collection IFC
  - i. Drawings
  - ii. KMZ File
  - iii. Shapefiles
  - iv. Shared Transmission Line Losses
  - v. Attachments
- d. Met Towers IFC
  - i. 80m Drawings
  - ii. 105m Drawings
- e. O&M IFC
  - i. Drawings
- f. Substation Physical 90%
  - i. Drawings
  - ii. Bill Of Materials
- g. Transmission Line IFC
  - i. Drawings
  - ii. KMZ File
  - iii. Material Data Sheets
  - iv. PLS-CADD File
  - v. Reports
- h. Substation Structural 90%
  - i. Drawings
- i. Reports
  - i. Lightning Protection Report