



**GEN-2016-071**  
**Impact Restudy for**  
**Generator Modification**

**March 2018**  
**Generator Interconnection**



## Revision History

Date	Author	Change Description
3/21/2018	SPP	GEN-2016-071 Impact Restudy for Generator Modification Report Issued

## Executive Summary

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The GEN-2016-071 Interconnection Customer has requested a modification to its Generator Interconnection Request to change from eighty-seven GE 2.3MW (total 200.1MW) wind turbine generators to eighty (80) GE 2.5MW (total 200.0MW) wind turbine generators. The Point of Interconnection (POI) which is the Western Farmers Electric Cooperative (WFEC) Chilocco 138kV substation.

GEN-2016-071 was initially studied in the DISIS-2016-001 Group 8 impact study. The results of that study can be found on the SPP website<sup>1</sup>. GEN-2016-071 was restudied in the DISIS-2016-001-1 Group 8 impact study. The results of the restudy can also be found on the SPP website<sup>2</sup>.

With the assumptions outlined in the DISIS-2016-001-1 report and with all the required network upgrades in place, GEN-2016-071 using the GE 2.5MW wind turbine generators should be able to interconnect reliably to the SPP transmission grid.

This study analyzed many of the most probable contingencies, but it is not an all-inclusive list and cannot account for every operational situation. It is likely that the customer may be required to reduce its generation output to 0 MW, also known as curtailment, under certain system conditions to allow system operators to maintain the reliability of the transmission network.

Nothing in the study should be construed as a guarantee of delivery or transmission service. If the customer wishes to sell power from the facility, a separate request for transmission service must be requested on Southwest Power Pool's OASIS by the Customer.

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<sup>1</sup> See Appendix J8: Group 8 Dynamic Stability Analysis Report in DISIS-2016-001 Definitive Interconnection System Impact Study Report, posted 2/28/2017  
[http://sppoasis.spp.org/documents/swpp/transmission/studies/files/2016\\_Generation\\_Studies/DISIS%202016-001%20v3\\_FINAL.pdf](http://sppoasis.spp.org/documents/swpp/transmission/studies/files/2016_Generation_Studies/DISIS%202016-001%20v3_FINAL.pdf)

<sup>2</sup> See Appendix J8: Group 8 Dynamic Stability Analysis Report in DISIS-2016-001-1 Definitive Interconnection System Impact Study Report, posted 12/22/2017  
[http://sppoasis.spp.org/documents/swpp/transmission/studies/files/2016\\_Generation\\_Studies/DISIS%202016-001-1\\_FINAL-R1.pdf](http://sppoasis.spp.org/documents/swpp/transmission/studies/files/2016_Generation_Studies/DISIS%202016-001-1_FINAL-R1.pdf)