

**Schedule DAB-8.1**  
**Comparison of Grain Belt Express Benefit Studies to MISO MVP Projects**  
**and SPP Priority Projects**

Analysis Type	Clean Line	SPP Priority Projects <sup>1</sup>	MISO MVP Projects <sup>2</sup>
Adjusted Production Cost (APC)	Surrebuttal Testimony of Robert Cleveland	Economic Modeling Tools – PROMOD, pages 21-23, 28	Section 8.1 Congestion and fuel savings, pages 49-54
	Schedule RC-2  Used PROMOD to calculate the APC in a base case and a change case (with the Grain Belt Project). Reported the decrease in APC as a benefit.	Used PROMOD to calculate the APC in a base case and a change case (with the Priority Projects). Reported the decrease in APC as a benefit.	Used PROMOD to calculate the APC in a base case and a change case (with the MVP Portfolio). Reported the decrease in APC as a benefit.
Levelized cost of energy (LCOE) model	Direct and Surrebuttal Testimony of David Berry	N/A	Section 4.2 Wind Siting Strategy, pages 16-17
	Used an LCOE model quantify the benefits of being able to access higher capacity factor and lower cost wind resources than would be possible without transmission expansion.	Wind was sited based on stakeholder input. Cost differentials were not considered for wind siting.	Used capital costs associated with transmission and generation, along with mesoscale wind data from NREL to calculate relative costs of sourcing wind from various zones. Quantified the overall system cost of siting wind in these zones and picked zones with the lowest cost.
Local economic development and jobs analysis	Direct and Surrebuttal Testimony Company witness Dr. David Loomis	Brattle Group Analysis, page 37.	Section 9.5 Local investment and job creation, page 77
	Estimated the economic impacts of the Grain Belt Project and the wind enabled by the project. Used the JEDI model to quantify the economic impact of the interconnected wind.	Estimated the economic impacts of the wind enabled by the SPP Priority Projects. Used JEDI model to quantify economic impact of the interconnected wind.	Estimated the economic impacts of the MISO MVP Projects. Used Brattle estimates to quantify economic impact of transmission investment.
Environmental benefits	Direct Testimony of Gary Moland and Surrebuttal Testimony of Robert Cleveland	N/A	Section 9.5 Carbon Reduction, pages 78-79
	Used PROMOD to quantify the carbon emissions reductions associated with generation displaced by Grain Belt Project-enabled wind.	Carbon reductions are mentioned as a benefit, but results were not quantified.	Used PROMOD to estimate the carbon emissions reductions associated with generation displaced by MVP Project-enabled wind.

Sources:

<sup>1</sup>SPP Priority Projects Phase II Report. Published: February 1, 2010. <http://www.spp.org/publications/Priority%20Projects%20Phase%20II%20Report.pdf> Last accessed: 13 October 2014.

<sup>2</sup>Multi Value Project Portfolio: Results and Analysis. Published: January 10, 2012.

<https://www.misoenergy.org/Library/Repository/Study/Candidate%20MVP%20Analysis/MVP%20Portfolio%20Analysis%20Full%20Report.pdf> Last accessed: 13 October 2014.