



ACCESS INITIATIVE DECISION MATRIX

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PRELIMINARY DRAFT



Category	Measure	Weighting	out of state terminal	Base Case	Byron	Salem	Adams	Luddington	Sault Ste. Marie
			in-state terminal	+ two fixes	N. Madison	N. Madison	Columbia	Forest Junction	Arnold
			connects to	(Illinois)	(Iowa)	(Minnesota)	(Michigan)	(Canada)	
Transfer capability			<i>rank of alternatives, with 1 indicating the best for each category</i>						
	base case, with two fixes	MW	6%	6	1	2	3	4	5
	high coal scenario, committed internal generation	MW	1%						
	high wind scenario, committed internal generation	MW	1%						
	high internal generation scenario	MW	1%						
	low internal generation scenario	MW	1%						
Chronic limits mitigated	list facilities		2.5%						
Market energy savings									
	base case, with two fixes	\$\$	10%	4	2	1	3	5	6
	high coal scenario, committed internal generation	\$\$	1.25%						
	high wind scenario, committed internal generation	\$\$	1.25%						
	high internal generation scenario	\$\$	1.25%						
	low internal generation scenario	\$\$	1.25%						
Control area FCITC (base case w/two fixes)									
	Alliant	MW	1%						
	MG&E	MW	1%						
	WE Energies	MW	1%						
	WPS	MW	1%						
	UPPCo	MW	1%						
Loss reduction									
	peak	MW							
	80% of peak	MW							
	60% of peak	MW							
	annual loss cost reduction	\$\$	5%	6	2	1	3	4	4



Category	Measure	Weighting		Access Alternatives						
				Base Case	Byron	Salem	Adams	Luddington	Sault Ste. Marie	
				out of state terminal in-state terminal connects to	+ two fixes N. Madison (Illinois)	N. Madison (Iowa)	Columbia (Minnesota)	Forest Junction (Michigan)	Arnold (Canada)	
				rank of alternatives, with 1 indicating the best for each category						
Reliability measurements										
	LOLE	probability, days/year	2.5%		4	2	1	3	4	4
	reserve margin required to achieve 0.1 day/year LOLE	%								
	EUE	MWh	2.5%		6	1	2	3	4	4
Strategic benefits										
	provides transmission infrastructure	subjective, +/-	3%		6	3	1	4	5	1
	economic development potential	subjective, +/-	3%		6	1	1	1	5	1
	access to out-of-state renewable resources	subjective, +/-	3%		6	3	1	2	4	5
	benefits to neighboring systems	subjective, +/-	1%							
	geographic diversity	subjective, +/-	2%		6	4	1	4	1	1
	enhances value of other TYA projects	subjective, +/-	3%							
System Performance										
	angular stability limits	MW	2.5%							
	voltage stability limits	MW	2.5%							
Operating flexibility										
	list anticipated benefits		2.5%							
Capital costs										
	\$\$		15%		1	2	3	4	6	5



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		%	out of state terminal in-state terminal connects to	<i>rank of alternatives, with 1 indicating the best for each category</i>					
Societal impacts									
corridor sharing potential	% of route	4%							
new right-of-way required	miles	4%							
public/private lands traversed	% of route	2%							
Environmental impacts									
river crossings	#	1.25%							
wetlands	miles	1.25%							
endangered species	list	1.25%							
State natural areas	miles	1.25%							
State parks	miles	1.25%							
Federal lands (national forests and parks)	miles	1.25%							
tribal lands	miles	1.25%							
special water areas	#	1.25%							
		100%							
			Overall Ranking	2.12	1.03	0.91	1.67	2.48	2.28
			<i>the lower the ranking, the better</i>						



Transfer capability	32.5%
Loss Reduction	5%
Reliability/System Perf.	12.5%
Strategic	15%
Capital Cost	15%
Societal Impacts	10%
Environmental Impacts	10%