

*Table ZS-6  
ATC Real Time Market Most Limiting Elements, 2010*

<b>Severity Index</b>	<b>Hours</b>	<b>Constraint Element</b>	<b>Potential Solution</b>
36.99	529	Pleasant Prairie - Zion 345-kV	Upgrade equipment at Zion Substation in ComEd system (In-Service March 2011) Pleasant Prairie - Zion Energy Center 345-kV line (Proposed 2014)
10.42	1,035	Nordic - Felch Tap 69-kV	Arnold 345/138-kV Transformer (Proposed 2015) Flow Control Device (Proposed 2014) Chandler 138/69-kV T2 (Proposed 2012)
8.59	96	Granville - Butler 138-kV	Upgrade equipment at Butler Substation (Planned 2012)
6.87	44	Rocky Run 345/115-kV Transformer T1	Monroe County - Council Creek 161-kV line (Proposed 2014)
6.63	87	Indian Lake 138/69-kV Transformer T2	Flow Control Device (Proposed 2014)
6.27	7	Minnesota to Wisconsin Exports Interface (MWEX)	Monroe County - Council Creek 161-kV line (Proposed 2014) Badger Coulee 345-kV line (Proposed 2018)
4.43	95	Spring Green - Arena 69-kV	Rockdale - West Middleton 345-kV (Planned 2013)
3.66	308	Oak Creek 345/230-kV Transformer T884	Area transmission outages may have contributed to this constraint
2.95	273	Chandler - Delta 69-kV CKT 2	Chandler - Delta 69-kV Ckt 1 and Ckt 2 Line Uprate (In-Service 2010)
2.62	13	Rocky Run 345/115-kV Transformer T4	Monroe County - Council Creek 161-kV line (Proposed 2014)
2.00	42	Kenosha - Lakeview 138-kV	Pleasant Prairie - Zion Energy Center 345-kV line (Proposed 2014)
1.70	24	Elkhart Lake - Forest Junction 138-kV	Upgrades associated with G611 (Planned 2010) ATC is investigating a future 345-kV N-S path in the Fox Valley corridor
1.49	33	Albers - Kenosha 138-kV	Pleasant Prairie - Zion Energy Center 345-kV line (Proposed 2014) Economic Analysis 2011
1.38	24	Arpin - Sigel 138-kV	Monroe County - Council Creek 161-kV line (Proposed 2014) Badger Coulee 345-kV line (Proposed 2018)
1.34	4	Paddock 345/138-kV Transformer T21	Paddock - Rockdale 345-kV (In-Service March 2010)
<b>111.68</b>	<b>3,141</b>	<b>Total for All ATC Real Time Constraints - 2010</b>	