

**Table PR-29**  
**Required Upgrades for Active Projects in the Generator Queue with a Signed Interconnection Agreement as of July 1, 2011**

<b>Zone</b>	<b>Queue #</b>	<b>County</b>	<b>Project Capacity</b>	<b>Upgrades</b>
1	None			
2	J060	Delta	29 MW	<ul style="list-style-type: none"> <li>▪ New 138 kV Interconnection Substation.</li> <li>▪ Engineering Upgrades at Perkins and Indian Lake 138 kV Substations.</li> </ul>
3	G282	Lafayette	99 MW	<ul style="list-style-type: none"> <li>▪ New 138 kV Interconnection Substation.</li> <li>▪ Engineering Upgrades at Hillman and Darlington 138 kV Substations.</li> </ul>
3	G706	Columbia	99 MW	<ul style="list-style-type: none"> <li>▪ New 138 kV Interconnection Substation</li> </ul>
3	H012	Columbia	150 MW	<ul style="list-style-type: none"> <li>▪ Upgrade G706 138 kV Interconnection Substation.</li> <li>▪ Upgrade Portage – N. Randolph 138 kV Line.</li> <li>▪ Thermal, Communication and Relay Upgrades at North Randolph 138 kV Substation.</li> <li>▪ Stability and Communication Upgrades at Portage 138 kV Substation.</li> </ul>
3	G749	Lafayette	50 MW	<ul style="list-style-type: none"> <li>▪ New 69 kV Interconnection Substation.</li> <li>▪ Communication Upgrades at Hillman and Eden 69 kV Substations.</li> </ul>
3	J084	Grant	50 MW	<ul style="list-style-type: none"> <li>▪ New 69 kV Interconnection Substation.</li> <li>▪ Communication Upgrades at Hillside and Nelson Dewey 69 kV Substations.</li> </ul>
3	J174	Jefferson	43.75 MW	<ul style="list-style-type: none"> <li>▪ None required.</li> </ul>
4	G427	Fond du Lac	98 MW	<ul style="list-style-type: none"> <li>▪ None required.</li> </ul>
4	G590	Calumet	98 MW	<ul style="list-style-type: none"> <li>▪ Expansion of Tecumseh Road Substation for Interconnection Substation</li> <li>▪ Thermal Upgrades at Melissa Substation</li> </ul>
4	G611 & G927	Calumet	100.5 MW	<ul style="list-style-type: none"> <li>▪ New 138 kV Interconnection Substation</li> <li>▪ Upgrade Forest Junction – Elkhart Lake 138 kV Line</li> <li>▪ Thermal Upgrades at Melissa Substation</li> </ul>

*Table PR-29*

*Required Upgrades for Active Projects in the Generator Queue with a Signed Interconnection Agreement as of July 1, 2011 (continued)*

<b>Zone</b>	<b>Queue #</b>	<b>County</b>	<b>Project Capacity</b>	<b>Upgrades</b>
4	G834 J022	Manitowoc	118 MW	<ul style="list-style-type: none"> <li>▪ Conversion of portions of existing Forest Junction – Holland 138 kV line to 345 kV to interconnect North and South Switching Stations.</li> <li>▪ Creation of a New North 345 kV Switching Station and a New South 345 kV and 138 kV Switching Station.</li> <li>▪ New 345 kV North Switching Station Interconnecting Point Beach – Forest Junction, Point Beach – Sheboygan Energy Center and the new South – North Switching Station 345 kV Lines.</li> <li>▪ The new 345 kV South Switching Station Interconnecting Sheboygan Energy Center – Granville, Edgewater – Fond du Lac, Edgewater – Cedar Sauk and the new South – North Switching Station 345 kV Lines.</li> <li>▪ New 138 kV Line from Howards Grove to Holland 138 kV substations.</li> <li>▪ New 138 kV Line from Howards Grove to Erdman 138 kV substations.</li> <li>▪ New South 138 kV Switching Station interconnecting 345/138 kV transformation, Howards Grove – Erdman and Mullet River – South Sheboygan Falls 138 kV Lines.</li> </ul>
5	None			