

POWER OUTAGE UPDATE –

MidAmerican has completed a review of the circuits serving Grimes. The review included the period from January 1, 2011 through January 9, 2014, and focused on the count of Grimes customers interrupted and the frequency of interruptions. We also included in our review the “Major Event Days”, which are statistically defined in the IEEE reliability standard, but in essence are very large weather events that impact a large percentage of customers on the MidAmerican system. The review identified three of the four circuits have had typical reliability performance, which for the MidAmerican system is an average outage rate of approximately one outage per year.

It was identified approximately two-thirds of the Grimes customer interruptions were due to electric outages on distribution circuit FL203, serving the south side of the community. The review of this circuit showed customers being served on FL203 have experienced, on average, seven to eight outages in the past 15 months with three of the outages occurring during Major Event Days. The table below shows instances where the entire FL203 circuit experienced an outage in the past 15 months. All Grimes customers served by this circuit would have experienced these outages (south side of Grimes).

FL203 circuit outages, October 2012 - Present

Date	Avg. Duration	Cause	Major Event Day
10/22/2012	164	Weather - Bad Regulator	
12/20/2012	19	Weather - Wind	Yes
12/20/2012	9	Weather - Wind	Yes
9/19/2013	606	Weather-Wires Down	Yes
10/24/2013	109	UG Cable	
1/3/2014	66	Weather-Extreme Cold – OH Equipment	
1/5/2014	101	Weather-Extreme Cold – OH Equipment	

On January 13th, crews started performing a pole-by-pole inspection of the mainline circuit for FL203 to tighten hardware. Additionally, engineering personnel started performing a pole-by-pole infrared inspection of the mainline circuit for FL203 to identify equipment issues and loose connections. Repairs were completed during the inspection, with any equipment replacements completed. Following this activity, the switching of customers on the south side of Grimes from circuit FL203 to circuit DGF211 was completed last night. Below is the map showing how this reduces the overhead exposure to the customers in the south part of Grimes.

