

Comparison of Actual and Calculated Voltage Levels - January 2009 Load

REGULATOR NAME	LINE SECTION	CIRCUIT	REGULATOR PHASE	REGULATOR VOLTAGE	WINDMIL	VOLTAGE	READING	WINDMIL
					CALCULATED VOLTAGE	VARIANCE	DATE	REPORT PAGE
RG.11	PL.37744	Frenchburg 1	A	126.2	125.2	1.0	02/27/09	27
RG.11	PL.37744	Frenchburg 1	B	126.2	125.2	1.0	02/27/09	27
RG.11	PL.37744	Frenchburg 1	C	126.2	125.2	1.0	02/27/09	27
RG.10	PL.52466	Frenchburg 4	A	124.9	123.4	1.5	02/27/09	67
RG.10	PL.52466	Frenchburg 4	B	124.5	124.4	0.1	02/27/09	67
RG.10	PL.52466	Frenchburg 4	C	124.6	124.1	0.5	02/27/09	67
RG.41	PL.53270	Frenchburg 4	A	124.6	122.3	2.3	02/27/09	115
RG.12	PL.55682	Frenchburg 3	A	124.8	123.4	1.4	01/29/09	137
RG.12	PL.55682	Frenchburg 3	B	124.3	124.1	0.2	01/29/09	137
RG.12	PL.55682	Frenchburg 3	C	124.3	123.0	1.3	01/29/09	137
RG.34	PL.50388	Sideview 3	A	124.9	124.0	0.9	02/13/09	173
RG.34	PL.50388	Sideview 3	B	124.9	120.9	4.0	02/13/09	173
RG.34	PL.50388	Sideview 3	C	124.9	123.3	1.6	02/13/09	173
RG.17	PL.9940	Sideview 4	A	124.9	120.9	4.0	02/23/09	226
RG.17	PL.9940	Sideview 4	B	119.4	114.8	4.6	02/23/09	226
RG.17	PL.9940	Sideview 4	C	122.4	123.0	-0.6	02/23/09	226
RG.13	PL.15443	Sideview 2	A	124.8	125.4	-0.6	01/29/09	264
RG.13	PL.15443	Sideview 2	B	124.5	125.1	-0.6	01/29/09	264
RG.13	PL.15443	Sideview 2	C	124.8	125.8	-1.0	01/29/09	264
RG.33	PL.43665	Sideview 2	A	124.9	125.7	-0.8	02/25/09	269
RG.33	PL.43665	Sideview 2	B	125.2	125.6	-0.4	02/25/09	269
RG.33	PL.43665	Sideview 2	C	124.8	126.0	-1.2	02/25/09	269
RG.38	PL.50823	Sideview 1	C	124.9	124.9	0.0	02/23/09	301
RG.28	PL.46110	Sideview 1	C	124.9	125.9	-1.0	02/23/09	337
RG.22	PL.6947	Clay City 2	A	124.8	122.7	2.1	01/23/09	362
RG.29	PL.50897	Miller Hunt 2	A	126.0	126.0	0.0	02/19/09	568
RG.29	PL.50897	Miller Hunt 2	B	125.9	125.9	0.0	02/19/09	568
RG.29	PL.50897	Miller Hunt 2	C	125.8	125.8	0.0	02/19/09	568
RG.2	PL.25439	Union City 2	A	125.4	124.9	0.5	02/23/09	652
RG.2	PL.25439	Union City 2	B	124.6	125.3	-0.7	02/23/09	652
RG.2	PL.25439	Union City 2	C	125.2	125.1	0.1	02/23/09	652
RG.20	PL.28128	Bowen 1	A	122.3	122.0	0.3	02/12/09	702
RG.20	PL.28128	Bowen 1	B	123.8	122.9	0.9	02/12/09	702
RG.20	PL.28128	Bowen 1	C	123.8	120.4	3.4	02/12/09	702
RG.23	PL.20618	Hunt 2	A	124.5	123.3	1.2	02/12/09	814
RG.21	PL.16159	Hunt 4	A	123.5	119.5	4.0	01/22/09	844
RG.21	PL.16159	Hunt 4	B	124.4	121.6	2.8	01/22/09	844
RG.21	PL.16159	Hunt 4	C	123.8	122.1	1.7	01/22/09	844
RG.3	PL.16752	Hunt 3	A	124.1	121.1	3.0	02/12/09	909
RG.3	PL.16752	Hunt 3	B	123.8	123.3	0.5	02/12/09	909
RG.3	PL.16752	Hunt 3	C	123.6	119.3	4.3	02/12/09	909
RG.15	PL.28135	Blevins Valley 2	B	125.6	122.1	3.5	02/25/09	1131
RG.15	PL.28135	Blevins Valley 2	C	120.1	117.9	2.2	02/25/09	1131
RG.14	PL.28140	Reid Village	A	125.0	124.7	0.3	02/13/09	1183
RG.14	PL.28140	Reid Village	B	125.8	126.0	-0.2	02/13/09	1183
RG.14	PL.28140	Reid Village	C	125.4	125.2	0.2	02/13/09	1183
RG.36	PL.49550	Hinkston 3	A	124.3	125.1	-0.8	02/13/09	1350
RG.8	PL.20620	Jeffersonville 2	A	124.5	124.8	-0.3	02/24/09	1377
RG.8	PL.20620	Jeffersonville 2	B	123.6	123.3	0.3	02/24/09	1377
RG.8	PL.20620	Jeffersonville 2	C	125.6	125.5	0.1	02/24/09	1377

RG.41	PL.27919	Jeffersonville 1	A	124.6	124.9	-0.3	01/23/09	1434
RG.41	PL.27919	Jeffersonville 1	B	126.4	124.8	1.6	01/23/09	1434
RG.41	PL.27919	Jeffersonville 1	C	125.1	123.9	1.2	01/23/09	1434
RG.1	PL.30925	Three Forks 1	A	124.6	126.2	-1.6	02/23/99	1509
RG.1	PL.30925	Three Forks 1	B	125.1	124.2	0.9	02/23/99	1509
RG.1	PL.30925	Three Forks 1	C	124.3	123.1	1.2	02/23/99	1509
RG.25	PL.20082	Hardwicks Creek 2	A	125.2	125.1	0.1	01/23/09	1913
RG.25	PL.20082	Hardwicks Creek 2	B	124.9	125.9	-1.0	01/23/09	1913
RG.25	PL.20082	Hardwicks Creek 2	C	125.4	126.0	-0.6	01/23/09	1913
RG.35	PL.50390	Van Meter 3	A	123.8	121.9	1.9	02/16/09	1934
RG.35	PL.50390	Van Meter 3	B	123.8	121.9	1.9	02/16/09	1934
RG.35	PL.50390	Van Meter 3	C	123.4	120.7	2.7	02/16/09	1934
RG.18	PL.27923	Van Meter 3	A	126.0	124.5	1.5	02/16/09	1938
RG.18	PL.27923	Van Meter 3	B	125.4	125.5	-0.1	02/16/09	1938
RG.18	PL.27923	Van Meter 3	C	125.4	124.8	0.6	02/16/09	1938
RG.31	PL.43109	Van Meter 2	A	126.9	125.6	1.3	02/23/09	1990
RG.31	PL.43109	Van Meter 2	B	125.5	125.6	-0.1	02/23/09	1990
RG.31	PL.43109	Van Meter 2	C	126.3	125.8	0.5	02/23/09	1990
RG.40	PL.52971	Mt. Sterling 3	A	124.6	127.1	-2.5	1/21/2009	2016
RG.40	PL.52971	Mt. Sterling 3	B	123.5	121.1	2.4	1/21/2009	2016
RG.40	PL.52971	Mt. Sterling 3	C	121.5	119.6	1.9	1/21/2009	2016

Voltage Comparison Results

Voltage levels calculated using the WindMil model compare favorably with the minimum voltages recorded by each regulator. Calculated voltages vary by an average of 0.9 volts. The minor variances or those outside the recommended 2 volts can be attributed to non-coincident loading and tolerances of the equipment.