

Transmission Lines and Transformers:

Note # 2 above	MISO Area-SPG or Other Region	Reporting Source or Transmission Owner	From:	To:	Circuit #	High Voltage (kV)	Low Voltage (kV)	Summer Rating (MVA)	Line Mile Estimates			Need Estimate (SUM of Columns =100 %)				Status (Note #1 above)	
									Map Grid Location	Rebuild or Upgrade	New	Total Miles	Native Network Load	Gen Interconnection	Transmission Service		Improvement (Losses, Maint, Availability, or Other)
6/1/2005	N-I/TWGS	ALT	Poweshiek	Reasnor	1	161		MVA 326	18	20.7	0.0	20.7	0	0	50	50	In Service
12/31/2005	N-I/TWGS	CFU	CFU Union Sub	MEC Deere Engine Sub	1	161		329	17		8.5	8.5	100				Planned
3/1/2006	N-I/TWGS	MEC	Cordova	Sub 39 (Moline)	1	345		1323	G13	16.0		16.0					Planned
3/4/2006	N-I/TWGS	MEC	Quad Cities Nuclear	Sub 91	1	345		1497	G13	1.0		1.0					Planned
6/1/2006	N-I/TWGS	MEC	Parnell	Poweshiek	1	161		230	G12	33.0							Planned
9/1/2006	N-I/TWGS	MEC	Booneville	Grimes	1	161			G11		17.0	17.0	50				Planned
12/31/2006	N-I/TWGS	MEC	Atlantic	Earlham	1	161		363	G10	43.0		43.0	50				Proposed
12/31/2006	N-I/TWGS	MEC	Avoca	Atlantic	1	161		1494	G10	17.3		17.3	50				Proposed
12/31/2006	N-I/TWGS	MEC	Council Bluff	Grimes (Grimes, IA)	1	345		393	G8		124.0	124.0	50				Planned
12/31/2006	N-I/TWGS	MEC	Council Bluff	Avoca	1	161		393	G9	32.8		32.8	50				Planned
12/31/2006	N-I/TWGS	MEC	Des Moines Power Station	ALTW Reasnor	1	161		328	G11	23.0							Planned
12/31/2006	N-I/TWGS	MEC	Earlham	Booneville	1	161		363	G11	14.3		14.3	50				Proposed
12/31/2006	N-I/TWGS	MEC	Grimes 345-161 kV	transformer	1	345	161	580	H8								Planned
3/1/2007	N-I/TWGS	MEC	Hills	Parnell	1	161		260	G12	28.0							Planned
6/1/2007	N-I/TWGS	MEC	Beacon 161 - 69 kV # 2	transformer	2	161	69	167	G12								Planned
6/1/2007	N-I/TWGS	MEC	DPS	ALT Reasnor	1	161		326	H8	23.0							Planned
6/1/2007	N-I/TWGS	ALT	Emery	Lime Creek	2	161		326	H7	26.0							Planned
6/1/2007	N-I/TWGS	MEC	Oak Grove	Sub 39	1	345		1195	G13	20.0							Proposed
6/1/2007	N-I/TWGS	MEC	Oak Grove	Sub 93 (Louisa)	1	345		1195	G13	26.0							Proposed
6/1/2007	N-I/TWGS	MEC	Oak Grove	Sub 18	1	161		363	G13	3.5							Proposed
6/1/2007	N-I/TWGS	MEC	Oak Grove	Sub 18	2	161		363	G13	3.5	3.5	3.5	50				Proposed
6/1/2007	N-I/TWGS	MEC	Oak Grove	Galesburg	1	161		215	G13/H13	32.0		32.0	50				Proposed
6/1/2007	N-I/TWGS	MEC	Oak Grove 345-161 kV	transformer	1	345	161	690	G13		3.0						Proposed
6/1/2007	N-I/TWGS	ALT	Timber Creek	Highland Acres	1	161		281									Proposed
10/1/2007	N-I/TWGS	AMES	Ames	Strange	1	161		167	G11	4.0		4.0	50				Planned
10/1/2007	N-I/TWGS	AMES	Ames 161-69 kV	transformer	1	161	69	167	G11								Planned
10/1/2007	N-I/TWGS	AMES	NE Ankeny	Ames	1	161		161	G11	18.0							Planned
10/1/2007	N-I/TWGS	AMES	Strange	Boone Jct	1	161		69	G11	18.0							Planned
10/1/2007	N-I/TWGS	AMES	Strange 161-69 kV	transformer	1	161	69	167	G11								Planned
11/1/2004	N-MB	WAPA	Jamestown 230-115 kV	transformer	1	230	115	200	B8								In Service
6/3/2005	N-MB	WAPA	Jamestown 230-115 kV	transformer	2	230	115	200	B8								In Service
6/3/2005	N-MB	WAPA	Denison 230-69 kV	transformer	1	230	69	150	G10								In Service
6/3/2005	N-MB	WAPA	Denison 230-69 kV	transformer	2	230	69	150	G10								In Service
9/1/2005	N-MB	WAPA	Leeds	Rolla	1	115				50.0		50.0	100				Planned
9/1/2005	N-MB	WAPA	Plainsview	DeVal	1	115				34.0		34.0	100				Planned
9/1/2005	N-MB	WAPA	Waterdown	transformer	1	230	115	250	D9								Planned
9/1/2005	N-MB	WAPA	Waterdown	transformer	2	230	115	250	D9								Planned
9/1/2005	N-MB	WAPA	Williston	transformer	1	115	69	50	A5								Planned
9/1/2005	N-MB	WAPA	Wolf Point	Williston	1	230			A5	94.0		94.0	100				Planned
10/1/2005	N-MB	WAPA	Rugby	Leeds	1	115		120	A7	26.0		26.0	100				Planned
10/1/2005	N-MB	WAPA	Ward Delivery	transformer	1	230	115	100	C6								Planned
11/1/2005	N-MB	WAPA	Waterdown	Brookings	1	115		250	F7	50.0		50.0	100				Planned