

Schedule 5
2016 Capital Budget Excluding AFUDC
Nuclear Generation
Total Company - All Utilities

Northern States Power - MN
(\$000's)

Parent Proj Full Desc	Total
11812685 - PI 11 CL Pump Motor Replacemnt	54
11812694 - PI 12 AFW Pump Motor Repl	318
11812713 - PI 12 CC Pump Motor Replacemnt	307
11812717 - PI 21 CC Pump Motor Replacemnt	151
11812761 - PI 12 RHR Pump Motor Replacmnt	343
11812764 - PI 21 RHR Pump Motor Replacmnt	160
11812779 - PI 1112 MG Set Motor Repl	590
11812796 - PI 11 Chiller Motor Rewind	210
11812801 - PI 21 Chiller Motor Rewind	231
11812860 - PI 21 CL Pump Motor Replacemnt	54
11812865 - PI 121 MD CL Pump Motor Repl	38
11817141 - PI 4.16 KV Bus Modifications	2,122
11818545 - MNGP 2016 Regulatory Mandated	1,000
11860702 - PI ISFSI Expansion	3,336
11871747 - MNGP Hardened Vents & Filters	4,848
11903995 - MNGP Cyber Security Modificati	237
11905478 - PI U2 Turb/Gen Vibration Monit	10
11916185 - PI Natural Gas Line Install	630
11939487 - PI 22 FCU Motor Rewind	238
11939492 - PI 12 FCU Motor Rewind	106
11946101 - MNGP Degraded Voltage Relay	108
11946106 - MNGP CV 1095 A/B Condensate Pu	805
11961086 - PI NFPA 72E Fire Detect Instal	232
11965184 - PI RHR Pump Rotating Assembly	318
11979208 - PI U2 RTD Replacement in RCS	182
11979212 - PI U1 SG Narrow Rng Water Lev	2,500
11982008 - PI 11 Safety-Related Batt Repl	265
12053872 - PI NFPA 805-01 U1 Train A AFW	1,125
12053883 - PI NFPA 805-02 U2 Train A AFW	1,125
12053891 - PI NFPA 805-03 U1 Train B AFW	1,125
12053895 - PI NFPA 805-04 U2 Train B AFW	1,125
12053906 - PI NFPA 805-10 Loss OCT 4KV Br	1,000
12053912 - PI NFPA 805-24 CT11CT12 Brkrs	1,200
12053920 - PI NFPA 805-25 Repowr MV-32078	500
12053925 - PI NFPA 805-26 Repowr MV-32180	500
12065081 - MNGP Fukushima Phase II	2,764
12075477 - PI Sfgds CL Pump Redesign	2,395
12075483 - PI U2 Steam Gen Water Lvl Ind	50
12076067 - MNGP Obsolete EQ RFO 28	540

Schedule 5
2016 Capital Budget Excluding AFUDC
Nuclear Generation
Total Company - All Utilities

Northern States Power - MN
(\$000's)

Parent Proj Full Desc	Total
12076246 - MNGP T-98 Cyclone Separator Up	186
12076265 - MNGP Security Physical Upgrade	3,986
12076271 - MNGP Seismic Instrument Upgrad	390
12172034 - MNGP Seismic Instruments	750
12172473 - MNGP 2016/2017 Position Ind Pr	50
12173155 - PI 121 Cooling Twr Structural	5,941
12173162 - PI R-11 Rad Mon Redundant Chnl	2,138
12173539 - PI RCP Pump & Inj Line Repl	10,000
12173540 - PI Security Modifications	1,000
12173541 - PI 24 Month Fuel Cycle	1,365
12173555 - MNGP Security Mods Post Reduct	1,000
12173692 - PI U1 Fan Coil Unit Face Repl	5,000
Grand Total	277,771

Schedule 5A
2016 Capital Budget Excluding AFUDC
Nuclear Generation
Total Company - By Utility

Northern States Power - MN
(\$000's)

Utility Desc	Parent Proj Full Desc	Total
Electric	10390056 - PI-U2 STEAM GENERATOR REPLACE	45
	10637068 - PI NSSS/BOP Annunciator Repl	345
	10799344 - MNGP DAS & PPCS Rplc	2,831
	10799359 - PI-Repl Steam Exclusion Damper	250
	10799679 - MNGP Security Equipment Replac	674
	10799684 - MNGP EDG Rplc & Voltage Reg	1,647
	10800344 - PI U1 Turb/Gen Vibration Monit	329
	10810832 - PI-Install New Security Trap S	500
	10956933 - PI-22 CW Pump Motor Rewind	418
	10958321 - PI-NFPA 805 Modifications	3,375
	10958468 - PI 121 CT Deck Header Valves	1,479
	11044898 - PI-NFPA 805 Fire Model	1,742
	11099780 - MNGP 2013 Dry Fuel Storge Load	5,421
	11100245 - PI 122 CT Pump Motor Rewind	596
	11100514 - PI-Screenhouse CI Header Pipe	1,500
	11101105 - PI-NMC RD Rad Monitor Repl	300
	11101522 - PI-9 TN-40 Casks(39-47)	3,521
	11103247 - PI-Battery Room Cooling	4,872
	11201713 - Nuclear Uranium Fuel Commodity	21,871
	11201715 - Nuclear Conversion Fuel Commod	3,633
	11201718 - Nuclear Enrichment Fuel Commod	13,658
	11230312 - PI Foxboro Proc Controls Repl	3,420
	11230345 - PI-Upgrade Polar Crane Control	75
	11230348 - PI 11/21 Turb Bldg Crane Upgr	599
	11230596 - PI DC Pnl 11122122 Switches	456
	11230621 - PI U2 HDTP Speed Control Upgr	5,848
	11230759 - PI-11 FW Pump Mtr Rewind	254
	11230764 - PI-12 FW Pump Mtr Rewind	215
	11230768 - PI-21 FW Pump Mtr Rewind	389
	11230790 - PI-CL Sys Branch Valves	500
	11230801 - PI-11,12,13,14 Traveling Scree	250
	11230810 - PI-21222324 Traveling Scree	250
	11233547 - PI 12 CW Pump Motor Rewind	382
	11234136 - Prairie Island U1 R29 (C30)	75,056
	11366799 - MNGP Rplc one RECIR M/G Gen	1,610
	11366884 - MNGP Rplc NON 1E Inverter, Y-9	92
	11367278 - Monticello Reload 28(C29)	2,788
	11367280 - PI Unit 1 Reload 30(C31)	1,098
	11367286 - PI Unit 2 Reload 29(C30)	451
	11367663 - MNGP HAYS 02 Monitor Rplc	424
	11368268 - PI 22 RCP Motor Rewind	1,439
	11468481 - MNGP Cyber Security 08-09	387
	11502508 - PI 2016 Misc Tools & Equipment	575
Electric		

Schedule 5A
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Utility Desc	Parent Proj Full Desc	Total
	11502515 - PI 2016 Misc Minor Improvement	975
	11502541 - PI 2016 Misc Office Furniture	425
	11502559 - PI 2016 I/T Capital Blanket	575
	11502799 - PI PPCS DAS Upgrade	150
	11502818 - PI U1 Gen Voltage Regulator	112
	11502821 - PI U2 Gen Voltage Regulator	22
	11503688 - MNGP 2018 Dry Fuel Storage Loa	12,684
	11503753 - PI 1R Transformer Replacement	1,900
	11503758 - PI 2M 2RS 2RX Transformer Re	500
	11503761 - MNGP Calc Reconstitution Proje	814
	11503763 - MNGP Security ISFSI Project	250
	11507881 - PI Warehouse & Trailer Demolit	1,200
	11507888 - PI Facilities Infrastruct Upgr	300
	11507910 - PI ISFSI Security Modification	250
	11634222 - PI Emerg Resp Equipment FLEX	7,800
	11649839 - MNGP 2016 Site Blanket	1,250
	11649893 - MNGP 2016 Plant Computer Blank	150
	11650500 - MNGP 2016 Facilities Infrastru	420
	11650737 - PI FLEX Implementation Ph II	1,200
	11650770 - PI AFW Pump Room Cooling	2,838
	11652675 - MNGP 2016 Capital Emergent Wor	600
	11655240 - PI Capital Emergent Work	1,000
	11679156 - PI NFPA 805 -05 Incipient Det	3,043
	11712454 - MNGP NEI 09-05 Security Compli	1,696
	11769305 - PI Cyber Security Modification	323
	11769538 - MNGP Byron Station Electric Vo	2,000
	11769892 - MNGP 2016 Tools & Equipment	400
	11808178 - PI U1 Generator Replacemnt LCM	1,215
	11808202 - PI U2 Generator Replacemnt LCM	309
	11808219 - PI U2 GSU Transformer Repl LCM	300
	11810776 - MNGP 316/B Ruling Implementati	289
	11811216 - MNGP Hydrant House Rplc	27
	11812631 - PI Reactor Coolant Pump Rebuil	2,192
	11812670 - PI NonSafety Rel Battery Repl	104
	11812679 - PI Spare Horiz CL Pump Motor	247
	11812685 - PI 11 CL Pump Motor Replacemnt	54
	11812694 - PI 12 AFW Pump Motor Repl	318
Electric	11812713 - PI 12 CC Pump Motor Replacemnt	307
	11812717 - PI 21 CC Pump Motor Replacemnt	151
	11812761 - PI 12 RHR Pump Motor Replacmnt	343
	11812764 - PI 21 RHR Pump Motor Replacmnt	160
	11812779 - PI 1112 MG Set Motor Repl	590
	11812796 - PI 11 Chiller Motor Rewind	210

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	11812860 - PI 21 CL Pump Motor Replacemnt	54
	11812865 - PI 121 MD CL Pump Motor Repl	38
	11817141 - PI 4.16 KV Bus Modifications	2,122
	11818545 - MNGP 2016 Regulatory Mandated	1,000
	11860702 - PI ISFSI Expansion	3,336
	11871747 - MNGP Hardened Vents & Filters	4,848
	11903995 - MNGP Cyber Security Modificati	237
	11905478 - PI U2 Turb/Gen Vibration Monit	10
	11916185 - PI Natural Gas Line Install	630
	11939487 - PI 22 FCU Motor Rewind	238
	11939492 - PI 12 FCU Motor Rewind	106
	11946101 - MNGP Degraded Voltage Relay	108
	11946106 - MNGP CV 1095 A/B Condensate Pu	805
	11961086 - PI NFPA 72E Fire Detect Instal	232
	11965184 - PI RHR Pump Rotating Assembly	318
	11979208 - PI U2 RTD Replacement in RCS	182
	11979212 - PI U1 SG Narrow Rng Water Lev	2,500
	11982008 - PI 11 Safety-Related Batt Repl	265
	12053872 - PI NFPA 805-01 U1 Train A AFW	1,125
	12053883 - PI NFPA 805-02 U2 Train A AFW	1,125
	12053891 - PI NFPA 805-03 U1 Train B AFW	1,125
	12053895 - PI NFPA 805-04 U2 Train B AFW	1,125
	12053906 - PI NFPA 805-10 Loss OCT 4KV Br	1,000
	12053912 - PI NFPA 805-24 CT11CT12 Brkrs	1,200
	12053920 - PI NFPA 805-25 Repowr MV-32078	500
	12053925 - PI NFPA 805-26 Repowr MV-32180	500
	12065081 - MNGP Fukushima Phase II	2,764
	12075477 - PI Sfgds CL Pump Redesign	2,395
	12075483 - PI U2 Steam Gen Water Lvl Ind	50
	12076067 - MNGP Obsolete EQ RFO 28	540
	12076246 - MNGP T-98 Cyclone Separator Up	186
	12076265 - MNGP Security Physical Upgrade	3,986
	12076271 - MNGP Seismic Instrument Upgrad	390
	12172034 - MNGP Seismic Instruments	750
	12172473 - MNGP 2016/2017 Position Ind Pr	50
	12173155 - PI 121 Cooling Twr Structural	5,941
	12173162 - PI R-11 Rad Mon Redundant Chnl	2,138
	12173539 - PI RCP Pump & Inj Line Repl	10,000
	12173540 - PI Security Modifications	1,000
	12173541 - PI 24 Month Fuel Cycle	1,365
	12173555 - MNGP Security Mods Post Reduct	1,000
	12173692 - PI U1 Fan Coil Unit Face Repl	5,000

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Electric Total		277,771
Grand Total		277,771

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Nuclear Generation
Total Company - All Utilities

Northern States Power - MN
(\$000's)

Parent Proj Full Desc	Total
10637068 - PI NSSS/BOP Annunciator Repl	1,000
10637816 - PI-WH Radiation Monitor Replac	500
10799230 - PI-Cooling Water Header Valves	500
10799344 - MNGP DAS & PPCS Rplc	4,415
10799679 - MNGP Security Equipment Replac	650
10799684 - MNGP EDG Rplc & Voltage Reg	253
10800344 - PI U1 Turb/Gen Vibration Monit	61
10958321 - PI-NFPA 805 Modifications	5,450
10958468 - PI 121 CT Deck Header Valves	1,157
11100514 - PI-Screenhouse CI Header Pipe	3,614
11101522 - PI-9 TN-40 Casks(39-47)	6,437
11103247 - PI-Battery Room Cooling	724
11201713 - Nuclear Uranium Fuel Commodity	(16,223)
11201715 - Nuclear Conversion Fuel Commod	(3,028)
11201718 - Nuclear Enrichment Fuel Commod	(19,598)
11230312 - PI Foxboro Proc Controls Repl	12,339
11230345 - PI-Upgrade Polar Crane Control	300
11230596 - PI DC Pnl 11122122 Switches	456
11230621 - PI U2 HDTP Speed Control Upgr	4,858
11230759 - PI-11 FW Pump Mtr Rewind	238
11230764 - PI-12 FW Pump Mtr Rewind	233
11230790 - PI-CL Sys Branch Valves	500
11230801 - PI-11,12,13,14 Traveling Scree	250
11230810 - PI-21222324 Traveling Scree	250
11233547 - PI 12 CW Pump Motor Rewind	408
11366781 - MNGP Rplc of Recirc Flow Contr	75
11366799 - MNGP Rplc one RECIR M/G Gen	1,751
11366884 - MNGP Rplc NON 1E Inverter, Y-9	939
11367278 - Monticello Reload 28(C29)	78,345
11367280 - PI Unit 1 Reload 30(C31)	1,269
11367286 - PI Unit 2 Reload 29(C30)	75,517
11368268 - PI 22 RCP Motor Rewind	2,713
11484226 - PI Unit 2 Reload 30 (C31)	2
11502799 - PI PPCS DAS Upgrade	5,000
11502818 - PI U1 Gen Voltage Regulator	61
11503688 - MNGP 2018 Dry Fuel Storage Loa	10,529
11503725 - MNGP IRMs-ARDEC	100
11503758 - PI 2M 2RS 2RX Transformer Re	6,000
11503763 - MNGP Security ISFSI Project	1,000