

Schedule 5
2018 Capital Budget Excluding AFUDC
Nuclear Generation
Total Company - All Utilities

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

Parent Proj Full Desc	Total
11651099 - PI 11 RCP Motor Rewind	1,439
11655240 - PI Capital Emergent Work	1,000
11679156 - PI NFPA 805 -05 Incipient Det	113
11764408 - MNGP Cable Rplc-N1N6-A thru E	750
11764439 - MNGP Generator Condition Monit	680
11769538 - MNGP Byron Station Electric Vo	500
11808178 - PI U1 Generator Replacemnt LCM	62,365
11808300 - PI 2018 I/T Capital Blanket	400
11808305 - PI 2018 Misc Minor Improvement	975
11808672 - PI 2018 Misc Office Furniture	425
11808674 - PI 2018 Misc Tools & Equipment	575
11810776 - MNGP 316/B Ruling Implementati	464
11811087 - MNGP 2018 Tools & Equipment	400
11811094 - MNGP 2018 Capital Emergent Wor	1,000
11811103 - MNGP 2018 Facilities Infrastru	420
11811106 - MNGP 2018 Site Blanket	1,500
11811109 - MNGP 2018 Plant Computer Blank	150
11812660 - PI 121/122 Control Rm Chillers	350
11812710 - PI 11 CC Pump Motor Replacemnt	327
11812736 - PI 11 CS Pump Motor Replacemnt	328
11812740 - PI 12 CS Pump Motor Replacemnt	339
11812750 - PI 11 RHR Pump Motor Replacmnt	347
11812803 - PI 11 SI Pump Motor Replacemnt	384
11812805 - PI 12 SI Pump Motor Replacemnt	418
11812809 - PI 21 SI Pump Motor Replacemnt	209
11812852 - PI TN-40H Transport License	360
11817141 - PI 4.16 KV Bus Modifications	1,857
11860702 - PI ISFSI Expansion	3,619
11872219 - PI Unit 1 Reload 31 (C32)	75
11939184 - PI 21 CS Pump Motor Replacemnt	160
11939498 - PI 14 FCU Motor Rewind	343
11960493 - MNGP 2018 Regulatory Mandated	1,000
12053872 - PI NFPA 805-01 U1 Train A AFW	750
12053883 - PI NFPA 805-02 U2 Train A AFW	750
12053891 - PI NFPA 805-03 U1 Train B AFW	750
12053895 - PI NFPA 805-04 U2 Train B AFW	750
12053906 - PI NFPA 805-10 Loss OCT 4KV Br	800
12053912 - PI NFPA 805-24 CT11CT12 Brkrs	1,000
12065081 - MNGP Fukushima Phase II	549

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12076076 - MNGP Obsolete EQ RFO29	454
12076467 - MNGP SBST Flow Controllers	672
12172504 - MNGP 2018/2019 Position Ind Pr	50
12172541 - MNGP Relay Logic Boards	410
12173156 - PI 122 Cooling Twr Structural	5,941
12173159 - PI 124 Cooling Twr Structural	6,359
12173539 - PI RCP Pump & Inj Line Repl	10,000
12173540 - PI Security Modifications	2,000
12173541 - PI 24 Month Fuel Cycle	1,150
12173542 - PI Tornado Missile Protect-RIS	2,000
12173555 - MNGP Security Mods Post Reduct	2,000
12173581 - MNGP Tornado Missile Protect	2,000
Grand Total	263,093

Schedule 5A
2018 Capital Budget Excluding AFUDC
Nuclear Generation Bus Area
Total Company - By Utility

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

Utility Desc	Parent Proj Full Desc	Total
Electric	10799230 - PI-Cooling Water Header Valves	4,000
	10799344 - MNGP DAS & PPCS Rplc	795
	10799679 - MNGP Security Equipment Replac	1,150
	10799684 - MNGP EDG Rplc & Voltage Reg	56
	10800344 - PI U1 Turb/Gen Vibration Monit	1,277
	10957617 - PI-122 CT Deck Header Valves	1,479
	10958321 - PI-NFPA 805 Modifications	4,725
	11099780 - MNGP 2013 Dry Fuel Storge Load	2,912
	11100432 - PI-Clg Twr Underground Pipe	150
	11101522 - PI-9 TN-40 Casks(39-47)	9,691
	11201713 - Nuclear Uranium Fuel Commodity	(10,738)
	11201715 - Nuclear Conversion Fuel Commod	613
	11201718 - Nuclear Enrichment Fuel Commod	8,350
	11230312 - PI Foxboro Proc Controls Repl	6,756
	11230596 - PI DC Pnl 11122122 Switches	454
	11230621 - PI U2 HDTP Speed Control Upgr	141
	11230801 - PI-11,12,13,14 Traveling Scree	250
	11230810 - PI-21222324 Traveling Scree	250
	11366768 - MNGP Rwnd Control Rod Hyd Mtrs	141
	11366774 - MNGP Purch spare CRDH Pump Mtr	150
	11366781 - MNGP Rplc of Recirc Flow Contr	900
	11366799 - MNGP Rplc one RECIR M/G Gen	24
	11367280 - PI Unit 1 Reload 30(C31)	63,331
	11484226 - PI Unit 2 Reload 30 (C31)	201
	11502799 - PI PPCS DAS Upgrade	2,850
	11502818 - PI U1 Gen Voltage Regulator	1,235
	11503688 - MNGP 2018 Dry Fuel Storage Loa	16,498
	11503725 - MNGP IRMs-ARDEC	35
	11503727 - MNGP NUMAC Controller Rplc	1,180
	11503731 - MNGP EFT Controls-Ardec	1,500
	11503752 - MNGP EDG Cables	206
	11503753 - PI 1R Transformer Replacement	6,500
	11503758 - PI 2M 2RS 2RX Transformer Re	5,000
	11503763 - MNGP Security ISFSI Project	3,750
	11507888 - PI Facilities Infrastruct Upgr	100
	11507910 - PI ISFSI Security Modification	3,750
	11633394 - Monticello Reload 29(C30)	421
	11650737 - PI FLEX Implementation Ph II	200
	11650753 - PI 124 CT Deck Header Valves	1,157
	11651099 - PI 11 RCP Motor Rewind	1,439
	11655240 - PI Capital Emergent Work	1,000
	11679156 - PI NFPA 805 -05 Incipient Det	113
	11764408 - MNGP Cable Rplc-N1N6-A thru E	750
Electric		

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Nuclear Generation Bus Area
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	12173555 - MNGP Security Mods Post Reduct	2,000
	12173581 - MNGP Tornado Missile Protect	2,000
Electric Total		263,093
Grand Total		263,093

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

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

Parent Proj Full Desc	Total
10615153 - IA Tariff Fund NSP	3,799
11232908 - Tran Line MN Tax Rebate, Line	(3,000)
11353413 - Pomerleau Lake Sub	60
11410668 - CAPX Hampton-N.Rochester 345kV	13,734
11410677 - CAPX Hampton-N.Rochester 345kV	180
11488848 - CApX Brookings Helena-Lk Mario	1,392
11488853 - CapX Brookings Lk Marion-Hampt	1,048
11489961 - First Lake Sub	15
11489991 - Barnes Grove-Instl 69kV 3 way	5
11490329 - ND T-Line ELR 2016, Line	100
11490350 - NSPM T-Line ELR 2016 Line	500
11490388 - SD T-Line ELR 2016,Line	100
11490449 - ND 2016 Reloc B Line	50
11490522 - NSPM 2016 Reloc B Line	1,500
11490537 - SD 2016 Reloc B Line	50
11491534 - Prairie 3rd 230/115 kv transfo	1,960
11491586 - Apache Switch 5M179 to 2000ASu	12
11491731 - ND 2016 S&E B Line	100
11491741 - NSPM 2016 S&E B Line	1,500
11491772 - SD 2016 S&E B Line	100
11491929 - ND 2016 S&E Sub	120
11491934 - NSPM 2016 S&E Sub	610
11491983 - SD 2016 S&E Sub	120
11492310 - 2016 Civil Dept Tool B Line	250
11492315 - 2016 Survey Group Tool B Line	25
11492319 - 2016 Tool Blanket MN Line	40
11492330 - NSP COM Tool 2016 Sub	595
11492684 - Fleet New Units 2016 El Trans	5,510
11492708 - MN 2016 Unserviceable Breaker	545
11592427 - Line 0883 to First Lake Sub Li	25
11600720 - Scott County 115kV Sub	132
11600760 - Westgate 115kV Sub Termination	150
11618931 - 0956 Lyon Cty to Cedar Mountai	756
11618937 - 0958 Cedar Mountain to Helena	329
11642585 - Line 0717 GRI to CAR Rbld Line	30
11642703 - Maple River-Red River 2nd 115k	683
11643331 - Red River-Maple River Sub	1,347
11643334 - Maple River-Red River ROW	4,658
11643335 - Maple River-Red River Line	3,281

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Transmission
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Northern States Power - MN
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Parent Proj Full Desc	Total
11643337 - Line 0839 MPR-CAS Circuit Relo	18
11644905 - MN 2016 Unserviceable Relay Su	500
11683797 - BSSB-345kV Line Non-ShareROW	390
11683802 - BSSB-Brooking Non Shared Sub	2,845
11683806 - BSSB-345kV Non Shared Line	36,581
11722007 - 0730 Morrell to W Sioux Falls	570
11722008 - 5559 Falls to W Sious FallsLin	911
11749574 - Cliff Sub Relay Replacement Su	30
11776427 - 760 - Red Wing to Wabasha Lin	300
11776886 - Coon Creek - Replace Bkrs 5M11	795
11782743 - Tools 2016 Training Center NSP	16
11787157 - NSP Ops Engineering Tools 2016	60
11787206 - NSPM COM Tools 2016 (BU 8640)	60
11806206 - Line 0794 69kV DGC-WSU line	2,472
11808313 - Arden Hills 115kV Relay Sub	10
11808324 - Termainl 115kv Relay Sub	26
11808707 - GIST-IV Computer Software, NSP	90
11808750 - MnTACT 2016 Sub	500
11808789 - Twin Cities Fault Current Sub	15,000
11926606 - Ramsey Cty-TCAAP New Sub Land	83
11940405 - King-Rpl Breaker 8P2 Sub	455
11944488 - #0739 69kV Zumbrota-Dodge CtrN	625
11944489 - 0712 69KVZumbrota-Cannon Falls	3,000
11951789 - Bluff Creek 115kV Expansion Su	3,075
11956007 - 5569 Westgate-Bluff Crk 115kV	166
11956012 - 5516Bluff Crk-Chanhasen 115kVS	279
11956019 - 5570Bluff Crk-Scott Cty 115kV	165
11956037 - 0740 Exce-Scott Cty-BLC 69kV	311
11956040 - 5516 Westgate-Bluff Crk 115kV	183
11960511 - NSPM Training Center Equipment	35
11962232 - Rosemount TR2 Sub	48
11962379 - Eastwood 115kV BKR Sub	1,844
11962385 - Medford Junction Rpl Switch St	192
11962422 - Victoria Distribution Sub	635
11962442 - Chestnut Pressure Control Unit	750
11962684 - King Relaying - OPK Comm	10
11971483 - 5th St Pressure Control UnitLi	700
11972841 - Souris 115 kV Capacitor BankSu	4,661
11972845 - Souris 115 kV Capacitor BankLi	810