

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

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

Parent Proj Full Desc	Total
11629446 - SHC2C Replace u2 hp-ip-lp turb	500
11629473 - SHC1C Replace U1 TRANSFORMERS	110
11629487 - SHC1C U1 Turbine Replacement	1,500
11629878 - HBC0C 316b Entrainment Counter	160
11629954 - BDS0C 316b Screenhouse	1,479
11630369 - ASK1C-SCR Catalyst Repl 2016	750
11630540 - SHC3C Repl U3 ID Fans VSD Cont	510
11630544 - SHC3C Inst Slurry Rapid Resp S	826
11630596 - SHC2C U2 Battery Charger Repl	194
11630604 - SHC3C Repl U3 Boiler Fin Super	1,702
11632531 - GDM0C Gearbox Replacements 201	700
11632691 - NBL0C Gearbox Replacements 201	700
11633891 - SER-MMR-Phased Array Software	30
11634320 - REW1C REPLACE U1 ID FAN VFD	176
11634329 - REW1C REPLACE U1 GEN BANK TUBE	313
11634936 - WLM0C-10935 EPA 316b Final Ret	30
11636269 - WLM1C Baghouse Bag Replacement	95
11644930 - ASK1C-316b Improvements	200
11729337 - SCFMNC0 Overlay Wall Replaceme	150
11771928 - BDS0C 2016 Emergent Work	300
11771939 - BDS0C 2016 Small Capital Proje	115
11771944 - BDS0C Inst Cedar Gate Service	10
11783884 - HBC0C 2016 Small Project Routi	100
11783928 - HBC0C 2016 Emergent Work	100
11794695 - SHCJC RCD Barrel Drives Upgrad	86
11794837 - BDS2C 22 Condensate Pump OH	55
11795202 - SHCJC 2016 Small Project Routi	200
11795208 - SHC3C 2016 Small Project Routi	350
11795219 - SHC2C Level 2 Mill OH 2016 Fal	50
11795223 - SHC2C Level 2 Mill OH 2016 Spr	240
11795225 - SHC2C U2 2016 Small Project Rou	425
11795240 - SHC1C Level 2 Mill OH 2016 Fal	50
11795246 - SHC1C Level 2 Mill OH 2016 Spr	240
11795247 - ASK1C Air Heater Cold Side Rep	1,814
11795249 - SHC1C 2016 Small Project Routi	300
11795253 - SHCCC 2016 Small Project Routi	275
11795263 - SHCCC 2016 Emergent work	1,000
11795374 - SHCCC Pond 4 Construction	400
11795411 - SHC2C Replace U2 BMS HMI	345

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Parent Proj Full Desc	Total
11795657 - SHC3C MV Bus Undervoltage Rela	12
11798749 - REW1C REPLACE U1 FUEL CHUTES	99
11806209 - ASK1C Emergent Work 2016	600
11806216 - ASK1C 2016 Small Project Routi	250
11806358 - RIV0C Emergent Work 2016	100
11806385 - RIV0C Small Project Routines 2	100
11869600 - PLV0C Pleasant Valley Wind	24
11914730 - BRD0C Border Wind Xmsn Serv Ge	10
11945517 - BDS0C Black Dog U6 Simple Cycl	58,877
11958407 - IVH0C SUS-C Fused Disconnect	20
11961430 - HBC9C 91 & 92 Batteries Replac	262
11962228 - BDS0C Storm Water Management P	6
11962243 - BDS0C Municipal Sewer Line	1,165
11965149 - ASK1C Inst Dewatering Bins Scr	388
11965179 - ASK1C Cyclone Sec Air Damper	3,256
11966508 - SHC1C 2015 Rewind 12 ID fan mo	207
11966511 - SHC1C 2015 Rewind 13 ID fan mo	198
11966928 - SHC2C Gen-Xfmr Prot Relay Repl	70
11967002 - SHCJC 12DC5 Upgrade Replacemen	181
11967057 - SHC3C Foxboro Workstation Repl	865
11967061 - SHC3C Gen-Xfmr Prot Relay Repl	14
11967089 - SHC3C Level 2 Mill OH 2016 Fal	142
11967092 - SHC3C Level 2 Mill OH 2016 Spr	142
11967444 - SER-MMR-Thermograhay Unit Repla	50
11968032 - BLL0-Small Capital Projects 20	25
12073051 - REW0C SMALL PROJECT ROUTINES 2	30
12073138 - REW0C 480V LOSS OF PHASE PROTE	52
12075658 - SHC2C Rpl South Mud Drum Inter	176
12076460 - ANS0C Small Project Routine	30
12077784 - SER0C MTR Vibration Monitor Eq	65
12077853 - IVH0C Small Proj Routine 2016	20
12077902 - HBC9C U9 ST Valve OH	300
12078027 - BDS0C Process Water Trtmnt	851
12078033 - BDS2C Gland Steam Exc Line	162
12078047 - BDS5C MS Bypass Vlv Desup	343
12078136 - IVH0C Fire Protection Tank	400
12078137 - HBC7C CT Servo Replacement	60
12078184 - SHC0-CCR Monitoring Wells	150
12078271 - SHC99-SHC99-Rpl RCD THF Drives	129

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12078454 - SHC2C SootBlower Valve Repl	99
12078459 - SHC0C Rpl Bottom Ash Pipes	218
12172022 - WLM0C 2016 Small Project Rout	30
12172365 - ASK99-Replace B-Crusher Cage a	425
12173238 - ASK1C Cooling Tower PLC Replac	300
12173239 - ASK1C Furnace Wall Refractory	2,835
12173240 - ASK1C ID Fan Suction Duct Exp	268
12173241 - ASK1C Inverter Panel Replaceme	367
12173243 - ASK1C SCR Inlet Expansion Join	434
12173639 - CRT0C Courtenay Wind Farm Cons	202,919
Grand Total	325,191

Schedule 5A
2016 Capital Budget Excluding AFUDC
Energy Supply
Total Company - By Utility

Northern States Power - MN
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Utility Desc	Parent Proj Full Desc	Total
Electric	10524134 - BDS5C SCR Catalyst	844
	11083261 - SHCJC Positioner Haulage Drive	238
	11084541 - SER-PMO-Gas Analyzer 2017	12
	11215945 - RIV9C-U9 HGP Inspection No 1	4,650
	11217409 - SHC1C U1 Boiler Section Repl	250
	11229496 - ASK1C-AQCS Baghouse Bags Repla	3,630
	11348578 - HBC8C CT Exhaust Exp Joint Rep	197
	11348592 - SHC3C Boiler Section Repl 2020	1,659
	11348594 - SHC3C Battery Repl	9
	11349838 - RIV10C-U10 HGP Inspection No 1	433
	11358850 - SER-MMR-Purchase Videoprobe	50
	11466986 - BDS0C Phase I Demo Site Remedi	12,132
	11482479 - SER-SMC-Misc Tools-Special Con	100
	11483086 - SER-RTC-Tools & Equipment 2016	20
	11483104 - SER-PMO-WirelessTesting Transm	31
	11483278 - SER-CHM- Misc Tools & Equipmen	41
	11483435 - SER-MMR-Misc Tools & Equipment	16
	11485385 - ASK0C-2016 Tool Blanket	150
	11485436 - BDS5C TXP-T3000 Controls Upgra	1,228
	11485480 - BDS0C 2016 Tool Blanket	75
	11485510 - HBC0C 2016 Tool Blanket	50
	11485811 - REW0C RED WING 2016 TOOLS	30
	11485860 - RIV0C-2016 Tool Blanket	50
	11485922 - ANSC0 2016 Misc Tools and Equi	20
	11485925 - BLLC0 2016 Misc Tools and Equi	15
	11485930 - GDMC0 2016 Misc Tools and Equi	10
	11485947 - IVHC0 2016 Misc Tools and Equi	20
	11485971 - NBLC0 2016 Misc Tools and Equi	20
	11487088 - WLM0C 2016 Tools & Equipment B	30
	11487089 - WLM2C Baghouse Bag Replacement	188
	11487714 - HNIC0 2016 Misc Tools Equip BI	15
	11487734 - SHC3C Motor Control Sys PLC Re	255
	11487740 - SHC3C Turbine EHC Controls Rep	1,180
	11487918 - SHCJC Rotary Car Dump PLC Upg	327
	11487919 - SHCJC Emerg Reclaim Controls U	307
	11487923 - SHC1C BFPT Controls Repl	425
	11488127 - SHC2C U2 Turbine EHC Ctrl Rep	2,083
	11495299 - REW0C EPA 316b FINAL RETROFIT	40
	11551351 - BRD0C Border Wind ND Sequoia W	57
	11629446 - SHC2C Replace u2 hp-ip-lp turb	500
	11629473 - SHC1C Replace U1 TRANSFORMERS	110
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