

Schedule 5
2017 Capital Budget Excluding AFUDC
Distribution Operations
Total Company - All Utilities

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

Parent Proj Full Desc	Total
10145976 - South Dakota - Ug Conv/Rebld	863
10145978 - South Dakota - Oh Reinforcemnt	210
10145982 - South Dakota - Oh Relocations	735
10145984 - South Dakota - Ug Relocations	302
10146153 - White Bear Oh Relocations	1,086
10229363 - Nspm Metering Sys-Tools & Equi	86
10229574 - Nspm-Fdr Cable Replacement-Eme	5,480
10229647 - NSPM-Poor Perf Fdr Replace Blk	1,065
10233671 - Mn-Construct Dist Sub Tool & E	88
10245168 - Nd-Worst Performing Feeder	53
10333869 - NSPM-Accelerated URD Cable Rep	15,309
10381269 - 2004 Elec Recon Carryover-NSPM	6,700
10404795 - Mpls-OH to UG Service Conv	188
10404807 - Mntka-OH to UG Service Conv	75
10404810 - Edina-OH to UG Service Conv	124
10404812 - White Bear-OH to UG Service Co	88
10404815 - Maple Grv-OH to UG Service Con	24
10404822 - Northwest-OH to UG Service Con	35
10404828 - ND-OH to UG Service Conv	27
10404836 - Newport-OH to UG Service Conv	29
10404844 - Southeast-OH to UG Service Con	25
10404850 - St Paul-OH to UG Service Conv	117
10437120 - Capitalized Locating Cost-Elec	359
10494498 - SD URD Cable Accel Replacement	525
10494522 - ND URD Cable Accel Replacement	472
10522944 - Replace 7 CM2 Network Protecto	1,361
10522951 - Replace Vault Top	1,086
10557022 - Fleet New Unit Purchase El Ops	5,572
10557030 - Fleet New Unit Purchase Common	1,792
10650009 - Dist Sub - Non-Discr Contingen	1,000
10741615 - Fleet New Unit Purchase El Ops	501
10741648 - Fleet New Unit Purchase El Ops	1,078
10741664 - Fleet New Unit Purchase Common	11
10790334 - Logistics - NSPM - Tools	152
10796310 - North Dakota Inspect replace	273
10796998 - Minnesota inspect/replace pole	10,047
10797036 - South Dakota - Inspect/Replace	803
10948327 - Reliability Monitoring Sys REM	850
10948331 - Reliability Monitoring System	17

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10948334 - Reliability Monitoring System	42
10954893 - Environmental Work NSPM EL	250
11095139 - SPCC NSPM Oil Spill Prevention	1,145
11096947 - MN Infratructure Invest - Sub	300
11201746 - Logistics - Fencing - NSPM	7
11201748 - Logistics - Security Equipment	25
11208552 - FPIP Feeders - South Dakota	158
11226930 - Logistics - NSPM - Tools - ND	12
11230885 - Replace Distribution Cabinets-	50
11236978 - Logistics - Tools - SD	3
11325531 - NSPM Inspect/Replace Poles	112
11325534 - ND Inspect/Replace Poles	6
11325535 - SD Inspect/Replace Poles	17
11398809 - NSPM 3rd Party owned Pole Tran	576
11445828 - Logistics Security Equipment N	7
11466030 - Hennepin Trng ElecTools&Equip	42
11500577 - RCSII Replacement Project - MN	630
11500578 - Feeder Breaker Replacement	2,870
11500579 - Substation Switch Replacement	500
11511349 - South Dakota - Ug Reinforcemnt	49
11521115 - Capitalized-MN-Sales Tax Rfd -	(3,200)
11583618 - Capitalized MN Sales Tax Rfd-	(800)
11586869 - Mpls-Electric Trouble Tools &	50
11586871 - St Paul-Elec TroubleTools & Eq	76
11639197 - WCF - Mandates - NSPM	2,706
11648597 - Distribution Automation	305
11648600 - ELR Substation Regulators	800
11648601 - Substation Fence Improvement	375
11648602 - Substation Transformer Replace	2,000
11648782 - Install Fifth Street Switchgea	5,000
11648941 - Install Fdr tie for CRL033	400
11649517 - Retire Subs in MN	547
11650625 - WCF - Line Capacity - NSPM	1,165
11698022 - Capital Locating Costs Electri	12
11698033 - Capitalized Locating Costs - E	11
11715925 - NSPM-Dist Sub Communication Eq	800
11767946 - NSPM- MN Comm Equip - Dist Lin	157
11768017 - NSPM - SD Comm Equip - Dist Li	6
11774433 - NSPM Locating Tools & Equip.	59

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11793001 - NSPM Feeder Load Monitoring	1,000
11796843 - Intelliteam SG RTU Rollout	300
11810472 - Rewind/Replace Failed Transfor	1,000
11810476 - NSPM Remote Fault Indication	500
11810477 - NSPM Subs Relay Fault Locating	500
11810478 - NSPM Substation new RTU and FL	1,000
11810481 - Install WCS TR2 and 2 fdr bays	3,900
11810483 - Install new WCS fdr on WCS TR2	550
11810485 - SWLRT Relocation	500
11810490 - Build new 7 MVA NER sub next t	100
11810534 - SSI	100
11810557 - SSI	750
11810657 - ELR - NSPM RTU	1,000
11811786 - NSPM-Fdr Cable Repl Proactive	1,016
11811795 - Install Automated Switches - M	263
11811796 - Install Automated Switches - S	105
11811840 - Install Red River RED084 feede	500
11811865 - LAND Great Plains new sub	800
11812193 - Inst BYT#2 28 MVA	2,600
11812198 - Inst BYT#2 28 MVA OH fdrs	400
11812204 - Install new sub at TCAAP - sub	100
11813718 - GIS Model Improvements - NSPM	1,000
11845352 - Franchise Renewal Electric	14
11926831 - Replace Network Protectors - S	965
11938507 - STP Vault Top Replacement	441
11982163 - Frame Relay Replacement - NSPM	1,823
11982456 - Add Dundas 072 Feeder Bay	470
11982465 - Add Dundas 072 Feeder-dist	475
11982507 - Install new South Afton Sub	500
12076639 - MN LED Streetlight Replacement	8,292
12076640 - ND LED Streetlight Replacement	717
12076641 - SD LED Streetlight Replacement	210
12173287 - Install 2nd feeder bay at Plat	450
12173297 - Reconfigure feeder ties CNC073	350
12173307 - Transfer MEL78 fdr load to CEL	500
12173308 - Add 2 New Baytown Feeders	600
12173309 - Extend VKG72 Feeder	450
12173310 - Extend CHC063 feeder	350
12173311 - Reconfigure Feeder MDT62-Ellio	300

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Parent Proj Full Desc	Total
12173313 - Switchgear Cable Work/Replacem	390
Grand Total	210,000

Schedule 5A
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Utility Desc	Parent Proj Full Desc	Total
Electric	10006393 - Minnesota-Sub Capac Reinforcem	688
	10006417 - Minnesota- Dist Sub Eq Replace	2,345
	10006686 - Spec Cnstr - Sm Tool/Equi	141
	10006954 - Mpls-New Ug Extension	2,316
	10006957 - Mpls-Ug Conversion/Rebuild	1,997
	10006968 - Minnesota-Electric Meter Blank	6,133
	10007058 - Mpls-Elec Tool/Equip	106
	10007068 - Mntka- New Ug Extension	1,184
	10007086 - Mntka-Oh Rebuilds	628
	10007114 - Mntka-Elec Tools/Equip	12
	10007241 - South Dakota - Oh Extension	1,205
	10007278 - South Dakota - Oh Rebuilds	992
	10007315 - South Dakota - Tools & Equip	75
	10007391 - Edina-Ug Extensions	1,392
	10007416 - Edina-Oh Rebuilds	545
	10007440 - Edina-Elect Tool/Equip	29
	10007457 - Maple Grv- Elec Ug Extension	1,900
	10007463 - Minnesota- New Bus Transformer	22,435
	10007487 - Maple Grv-Oh Rebuilds	617
	10007517 - Maple Grv-Elec Tools/Equip	44
	10008491 - Northwest - Ug Extensions	1,298
	10008512 - Northwest - Overhead Rebuilds	608
	10008596 - Northwest - Elec Tools/Equip	100
	10008652 - Newport-Elec Tool/Equip	28
	10144483 - Mpls-Oh Extension	811
	10144484 - Mpls-Oh Services	808
	10144485 - Mpls-New Ug Services	471
	10144486 - Mpls- New Ug Network	759
	10144487 - Mpls-New Oh Street Lights	595
	10144488 - Mpls-New Ug Street Lights	140
	10144489 - Mpls-Elec Non-Refundable Ciac	(1,295)
	10144490 - Mpls-Oh Rebuilds	1,171
	10144491 - Minnesota- Dist Sub Tool/Equip	551
	10144492 - Mpls-Oh Reinforcements	354
	10144493 - Mpls-Ug Reinforcement	139
	10144494 - Mpls-Oh Relocations	405
	10144495 - Mpls-Ug Relocations	601
	10144497 - Mntka-Oh Extension	228
	10144498 - Mntka-Oh Services	95
	10144499 - Mntka-New Ug Services	915
Electric	10144500 - Mntka-New Oh Street Lights	41
	10144501 - Mntka-New Ug Street Lights	56
	10144502 - Mntka-Elec Non-Refundable CIAC	(279)

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Utility Desc	Parent Proj Full Desc	Total
	10144503 - Mntka-Ug Conversion/Rebuild	406
	10144504 - Mntka-Oh Reinforcements	246
	10144505 - Mntka-Ug Reinforcements	48
	10144506 - Mntka-Oh Relocations	520
	10144507 - Mntka-Ug Relocations	185
	10144509 - Edina-Oh Extension	82
	10144510 - Edina-New Oh Services	158
	10144511 - Edina-Ug Services	433
	10144512 - Edina-New Oh Street Lights	58
	10144513 - Edina-New Ug Street Lights	383
	10144514 - Edina-Elec Non-Refundable CIAC	(233)
	10144515 - Edina-Ug Conversions/Rebuild	911
	10144516 - Edina-Oh Reinforcements	116
	10144517 - Edina-Ug Reinforcements	63
	10144518 - Edina-Oh Relocations	274
	10144519 - Edina-Ug Relocations	434
	10144521 - White Bear-Oh Extension	234
	10144523 - White Bear-Oh Services	205
	10144525 - White Bear-Ug Services	1,672
	10144527 - White Bear-Oh Street Lights	71
	10144528 - White Bear-Ug Street Lts	293
	10144529 - Wb-Elec Non-Refundable Ciac	(262)
	10144530 - White Bear-Oh Rebuilds	527
	10144531 - White Bear-Ug Conv/Rebuilds	362
	10144532 - White Bear-Oh Reinforcements	453
	10144533 - White Bear-Ug Reinforcements	75
	10144535 - White Bear-Ug Relocations	115
	10144536 - White Bear-Electric Tools & Eq	28
	10144561 - Maple Grv-New Oh Street Lights	55
	10144563 - Maple Grv-Oh Extension	135
	10144565 - Maple Grv-Oh Services	67
	10144566 - Maple Grv-New Elec Ug Services	687
	10144570 - Maple Grv-New Ug Street Lights	167
	10144572 - Mplgrv-Elec Non-Refundable Cia	(277)
	10144573 - Maple Grv-Ug Conversion/Rebuil	1,065
	10144574 - Maple Grv-Oh Reinforcements	69
	10144575 - Maple Grv-Ug Reinforcements	7
Electric	10144576 - Maple Grv-Oh Relocations	519
	10144578 - Maple Grv-Ug Relocations	110
	10144635 - Northwest-New Oh Street Lights	184
	10144636 - Northwest-New Oh Extensions	607
	10144637 - Northwest-New Oh Services	200
	10144638 - Northwest-New Ug Services	820

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Utility Desc	Parent Proj Full Desc	Total
Electric	10144640 - Northwest-New Ug Street Lights	84
	10144641 - Nw-Elec Non-Refundable Ciac	(321)
	10144642 - Northwest-Ug Conversion/Rebuil	224
	10144643 - Northwest-Oh Reinforcements	236
	10144644 - Northwest-Ug Reinforcement	25
	10144645 - Northwest-Oh Relocations	858
	10144646 - Northwest-Ug Relocations	93
	10144700 - North Dakota -Oh Extension	513
	10144701 - North Dakota -Oh Services	119
	10144702 - North Dakota -Ug Extension	2,231
	10144703 - North Dakota -Ug Services	350
	10144704 - North Dakota -Oh Street Lights	200
	10144706 - Nd-Elec Non-Refundable Ciac	(498)
	10144707 - North Dakota -Oh Rebuilds	364
	10144708 - North Dakota -Ug Conv/Rebuilds	691
	10144709 - North Dakota -Oh Reinforcement	177
	10144710 - North Dakota -Ug Reinforcement	272
	10144711 - North Dakota -Oh Relocations	66
	10144712 - North Dakota -Ug Relocations	264
	10144713 - North Dakota -Elec Tools & Eq	50
	10144748 - Newport-Oh Extension	372
	10144749 - Newport-Oh Services	134
	10144750 - Newport-Ug Services	1,506
	10144752 - Newport-Oh Streetlights	106
	10144753 - Newport-Ug Streetlights	170
	10144754 - Npt-Elec Non-Refundable Ciac	(417)
	10144755 - Newport-Oh Rebuilds	710
	10144756 - Newport-Ug Conversions/Rebuild	542
	10144757 - Newport-Oh Reinforcements	90
	10144758 - Newport-Ug Reinforcements	306
	10144759 - Newport-Oh Relocations	359
	10144760 - Newport-Ug Relocations	40
	10144771 - Southeast-Oh Extension	967
	10144772 - Southeast-Oh Services	331
	10144773 - Southeast-Ug Services	921
	10144775 - Southeast-Oh Streetlights	350
	10144776 - Southeast-Ug Streetlights	92
	10144777 - Se-Elec Non-Refundable Ciac	(310)
	10144778 - Southeast-Oh Rebuilds	1,607
	10144779 - Southeast-Ug Conv/Rebuilds	616
	10144780 - Southeast-Oh Reinforcements	461
	10144781 - Southeast-Ug Reinforcements	49
	10144782 - Southeast-Oh Relocations	1,059