

Schedule 5A
2017 Capital Budget Excluding AFUDC
Distribution Operations
Total Company - By Utility

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

Utility Desc	Parent Proj Full Desc	Total
Electric	10144783 - Southeast-Ug Relocations	334
	10144784 - Southeast-Elec Tools & Equip	50
	10144795 - St Paul-Oh Extension	219
	10144796 - St Paul-Oh Services	232
	10144797 - St Paul-Ug Services	52
	10144798 - St Paul-Ug Network	520
	10144799 - St Paul-Oh Streetlights	163
	10144800 - St Paul-Ug Streetlights	13
	10144801 - St P-Elec Non-Refundable Ciac	(339)
	10144802 - St Paul-Oh Rebuilds	981
	10144803 - St Paul-Ug Conversions/Rebuild	769
	10144804 - St Paul-Oh Reinforcements	193
	10144805 - St Paul-Ug Reinforcements	53
	10144806 - St Paul-Oh Relocations	550
	10144807 - St Paul-Ug Relocations	346
	10144808 - St Paul-Elec Tools & Equip	63
	10145065 - Newport-Ug Extensions	3,205
	10145070 - Southeast-Ug Extensions	2,079
	10145179 - St Paul-Ug Extensions	683
	10145833 - White Bear Ug Extensions	1,178
	10145962 - South Dakota - Oh Service	311
	10145964 - South Dakota - Ug Extension	3,757
	10145966 - South Dakota - Ug Service	1,705
	10145970 - South Dakota - Oh Streetlights	234
	10145972 - South Dakota - Ug Streetlights	156
	10145974 - Sd-Elec Non-Refundable Ciac	(550)
	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

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	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 EI Ops	5,572
	10650009 - Dist Sub - Non-Discr Contingen	1,000
	10741615 - Fleet New Unit Purchase EI Ops	501
	10741648 - Fleet New Unit Purchase EI Ops	1,078
	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
	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
	11208552 - FPIP Feeders - South Dakota	158
	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
	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

Electric

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Utility Desc	Parent Proj Full Desc	Total
Electric	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
	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

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Utility Desc	Parent Proj Full Desc	Total
	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
	12173313 - Switchgear Cable Work/Replacem	390
Electric Total		207,766
Common	10006666 - Tools & Equipment-Transportati	169
	10557030 - Fleet New Unit Purchase Common	1,792
	10741664 - Fleet New Unit Purchase Common	11
	10790334 - Logistics - NSPM - Tools	152
	11201746 - Logistics - Fencing - NSPM	7
	11201748 - Logistics - Security Equipment	25
	11226930 - Logistics - NSPM - Tools - ND	12
	11445828 - Logistics Security Equipment N	7
	11774433 - NSPM Locating Tools & Equip.	59
CommonTotal		2,234
Grand Total		210,000

Schedule 5
2018 Capital Budget Excluding AFUDC
Distribution Operations
Total Company - All Utilities

Northern States Power - MN
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Parent Proj Full Desc	Total
10006393 - Minnesota-Sub Capac Reinforcem	801
10006417 - Minnesota- Dist Sub Eq Replace	2,391
10006666 - Tools & Equipment-Transportati	172
10006686 - Spec Cnstr - Sm Tool/Equip	144
10006954 - Mpls-New Ug Extension	2,429
10006957 - Mpls-Ug Conversion/Rebuild	2,037
10006968 - Minnesota-Electric Meter Blank	6,179
10007058 - Mpls-Elec Tool/Equip	108
10007068 - Mntka- New Ug Extension	1,244
10007086 - Mntka-Oh Rebuilds	640
10007114 - Mntka-Elec Tools/Equip	12
10007241 - South Dakota - Oh Extension	1,262
10007278 - South Dakota - Oh Rebuilds	1,012
10007315 - South Dakota - Tools & Equip	76
10007391 - Edina-Ug Extensions	1,461
10007416 - Edina-Oh Rebuilds	556
10007440 - Edina-Elect Tool/Equip	30
10007457 - Maple Grv- Elec Ug Extension	1,994
10007463 - Minnesota- New Bus Transformer	23,223
10007487 - Maple Grv-Oh Rebuilds	629
10007517 - Maple Grv-Elec Tools/Equip	45
10008491 - Northwest - Ug Extensions	1,363
10008512 - Northwest - Overhead Rebuilds	620
10008596 - Northwest - Elec Tools/Equip	102
10008652 - Newport-Elec Tool/Equip	29
10144483 - Mpls-Oh Extension	851
10144484 - Mpls-Oh Services	848
10144485 - Mpls-New Ug Services	495
10144486 - Mpls- New Ug Network	774
10144487 - Mpls-New Oh Street Lights	618
10144488 - Mpls-New Ug Street Lights	147
10144489 - Mpls-Elec Non-Refundable Ciac	(1,339)
10144490 - Mpls-Oh Rebuilds	1,194
10144491 - Minnesota- Dist Sub Tool/Equip	562
10144492 - Mpls-Oh Reinforcements	407
10144493 - Mpls-Ug Reinforcement	142
10144494 - Mpls-Oh Relocations	413
10144495 - Mpls-Ug Relocations	614
10144497 - Mntka-Oh Extension	239

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Parent Proj Full Desc	Total
10144498 - Mntka-Oh Services	100
10144499 - Mntka-New Ug Services	960
10144500 - Mntka-New Oh Street Lights	43
10144501 - Mntka-New Ug Street Lights	59
10144502 - Mntka-Elec Non-Refundable CIAC	(288)
10144503 - Mntka-Ug Conversion/Rebuild	414
10144504 - Mntka-Oh Reinforcements	47
10144505 - Mntka-Ug Reinforcements	49
10144506 - Mntka-Oh Relocations	530
10144507 - Mntka-Ug Relocations	189
10144509 - Edina-Oh Extension	86
10144510 - Edina-New Oh Services	166
10144511 - Edina-Ug Services	455
10144512 - Edina-New Oh Street Lights	60
10144513 - Edina-New Ug Street Lights	403
10144514 - Edina-Elec Non-Refundable CIAC	(242)
10144515 - Edina-Ug Conversions/Rebuild	929
10144516 - Edina-Oh Reinforcements	118
10144517 - Edina-Ug Reinforcements	314
10144518 - Edina-Oh Relocations	279
10144519 - Edina-Ug Relocations	443
10144521 - White Bear-Oh Extension	245
10144523 - White Bear-Oh Services	215
10144525 - White Bear-Ug Services	1,754
10144527 - White Bear-Oh Street Lights	76
10144528 - White Bear-Ug Street Lts	308
10144529 - Wb-Elec Non-Refundable Ciac	(270)
10144530 - White Bear-Oh Rebuilds	537
10144531 - White Bear-Ug Conv/Rebuilds	369
10144532 - White Bear-Oh Reinforcements	156
10144533 - White Bear-Ug Reinforcements	76
10144535 - White Bear-Ug Relocations	118
10144536 - White Bear-Electric Tools & Eq	29
10144561 - Maple Grv-New Oh Street Lights	57
10144563 - Maple Grv-Oh Extension	142
10144565 - Maple Grv-Oh Services	70
10144566 - Maple Grv-New Elec Ug Services	721
10144570 - Maple Grv-New Ug Street Lights	175
10144572 - Mplgrv-Elec Non-Refundable Cia	(286)