

Schedule 5A
2018 Capital Budget Excluding AFUDC
Distribution Operations
Total Company - By Utility

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

Utility Desc	Parent Proj Full Desc	Total
	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)
	10144573 - Maple Grv-Ug Conversion/Rebuil	1,086
	10144574 - Maple Grv-Oh Reinforcements	70
	10144575 - Maple Grv-Ug Reinforcements	7
	10144576 - Maple Grv-Oh Relocations	529
	10144578 - Maple Grv-Ug Relocations	113
Electric	10144635 - Northwest-New Oh Street Lights	191
	10144636 - Northwest-New Oh Extensions	637
	10144637 - Northwest-New Oh Services	210
	10144638 - Northwest-New Ug Services	861
	10144640 - Northwest-New Ug Street Lights	88
	10144641 - Nw-Elec Non-Refundable Ciac	(331)

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Electric	10144642 - Northwest-Ug Conversion/Rebuil	228
	10144643 - Northwest-Oh Reinforcements	416
	10144644 - Northwest-Ug Reinforcement	25
	10144645 - Northwest-Oh Relocations	875
	10144646 - Northwest-Ug Relocations	94
	10144700 - North Dakota -Oh Extension	538
	10144701 - North Dakota -Oh Services	125
	10144702 - North Dakota -Ug Extension	2,341
	10144703 - North Dakota -Ug Services	368
	10144704 - North Dakota -Oh Street Lights	208
	10144706 - Nd-Elec Non-Refundable Ciac	(515)
	10144707 - North Dakota -Oh Rebuilds	371
	10144708 - North Dakota -Ug Conv/Rebuilds	705
	10144709 - North Dakota -Oh Reinforcement	48
	10144710 - North Dakota -Ug Reinforcement	277
	10144711 - North Dakota -Oh Relocations	67
	10144712 - North Dakota -Ug Relocations	269
	10144713 - North Dakota -Elec Tools & Eq	51
	10144748 - Newport-Oh Extension	390
	10144749 - Newport-Oh Services	141
	10144750 - Newport-Ug Services	1,578
	10144752 - Newport-Oh Streetlights	110
	10144753 - Newport-Ug Streetlights	179
	10144754 - Npt-Elec Non-Refundable Ciac	(431)
	10144755 - Newport-Oh Rebuilds	724
	10144756 - Newport-Ug Conversions/Rebuild	553
	10144757 - Newport-Oh Reinforcements	92
	10144758 - Newport-Ug Reinforcements	312
	10144759 - Newport-Oh Relocations	366
	10144760 - Newport-Ug Relocations	41
	10144771 - Southeast-Oh Extension	1,015
	10144772 - Southeast-Oh Services	347
	10144773 - Southeast-Ug Services	968
	10144775 - Southeast-Oh Streetlights	364
	10144776 - Southeast-Ug Streetlights	97
	10144777 - Se-Elec Non-Refundable Ciac	(322)
	10144778 - Southeast-Oh Rebuilds	1,639
	10144779 - Southeast-Ug Conv/Rebuilds	628
	10144780 - Southeast-Oh Reinforcements	470
	10144781 - Southeast-Ug Reinforcements	50
	10144782 - Southeast-Oh Relocations	1,080
	10144783 - Southeast-Ug Relocations	340
	10144784 - Southeast-Elec Tools & Equip	51
	10144795 - St Paul-Oh Extension	229

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Utility Desc	Parent Proj Full Desc	Total
	10144796 - St Paul-Oh Services	244
	10144797 - St Paul-Ug Services	54
	10144798 - St Paul-Ug Network	530
	10144799 - St Paul-Oh Streetlights	169
	10144800 - St Paul-Ug Streetlights	14
	10144801 - St P-Elec Non-Refundable Ciac	(354)
	10144802 - St Paul-Oh Rebuilds	1,000
	10144803 - St Paul-Ug Conversions/Rebuild	784
	10144804 - St Paul-Oh Reinforcements	197
	10144805 - St Paul-Ug Reinforcements	54
	10144806 - St Paul-Oh Relocations	560
	10144807 - St Paul-Ug Relocations	353
	10144808 - St Paul-Elec Tools & Equip	64
	10145065 - Newport-Ug Extensions	3,362
	10145070 - Southeast-Ug Extensions	2,180
	10145179 - St Paul-Ug Extensions	716
	10145833 - White Bear Ug Extensions	1,236
	10145962 - South Dakota - Oh Service	325
	10145964 - South Dakota - Ug Extension	3,934
	10145966 - South Dakota - Ug Service	1,786
	10145970 - South Dakota - Oh Streetlights	243
	10145972 - South Dakota - Ug Streetlights	164
	10145974 - Sd-Elec Non-Refundable Ciac	(564)
	10145976 - South Dakota - Ug Conv/Rebld	897
	10145978 - South Dakota - Oh Reinforcemnt	214
	10145982 - South Dakota - Oh Relocations	749
	10145984 - South Dakota - Ug Relocations	308
	10146153 - White Bear Oh Relocations	1,108
	10229363 - Nspm Metering Sys-Tools & Equi	88
	10229574 - Nspm-Fdr Cable Replacement-Eme	6,045
	10229647 - NSPM-Poor Perf Fdr Replace Blk	1,087
	10233671 - Mn-Construct Dist Sub Tool & E	90
	10245168 - Nd-Worst Performing Feeder	53
	10333869 - NSPM-Accelerated URD Cable Rep	18,298
	10381269 - 2004 Elec Recon Carryover-NSPM	6,800
	10404795 - Mpls-OH to UG Service Conv	192
	10404807 - Mntka-OH to UG Service Conv	76
	10404810 - Edina-OH to UG Service Conv	126
	10404812 - White Bear-OH to UG Service Co	90
	10404815 - Maple Grv-OH to UG Service Con	24
	10404822 - Northwest-OH to UG Service Con	36
	10404828 - ND-OH to UG Service Conv	28
	10404836 - Newport-OH to UG Service Conv	30
	10404844 - Southeast-OH to UG Service Con	25

Electric

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Utility Desc	Parent Proj Full Desc	Total
	10404850 - St Paul-OH to UG Service Conv	119
	10437120 - Capitalized Locating Cost-Elec	366
	10494498 - SD URD Cable Accel Replacement	533
	10494522 - ND URD Cable Accel Replacement	480
	10522944 - Replace 7 CM2 Network Protecto	1,606
	10522951 - Replace Vault Top	1,398
	10557022 - Fleet New Unit Purchase EI Ops	6,951
	10650009 - Dist Sub - Non-Discr Contingen	1,000
	10741615 - Fleet New Unit Purchase EI Ops	526
	10741648 - Fleet New Unit Purchase EI Ops	1,132
	10796310 - North Dakota Inspect replace	277
	10796998 - Minnesota inspect/replace pole	10,286
	10797036 - South Dakota - Inspect/Replace	816
	10948327 - Reliability Monitoring Sys REM	867
	10948331 - Reliability Monitoring System	17
	10948334 - Reliability Monitoring System	43
	10954893 - Environmental Work NSPM EL	250
	11095139 - SPCC NSPM Oil Spill Prevention	1,060
	11096947 - MN Infrastructure Invest - Sub	220
	11208552 - FPIP Feeders - South Dakota	160
	11230885 - Replace Distribution Cabinets-	50
	11236978 - Logistics - Tools - SD	3
	11325531 - NSPM Inspect/Replace Poles	114
	11325534 - ND Inspect/Replace Poles	7
	11325535 - SD Inspect/Replace Poles	17
	11398809 - NSPM 3rd Party owned Pole Tran	587
	11466030 - Hennepin Trng ElecTools&Equip	43
	11500577 - RCSII Replacement Project - MN	1,200
	11500578 - Feeder Breaker Replacement	3,450
	11500579 - Substation Switch Replacement	500
	11503505 - MN Mobile TR/Subs Reserve 2014	2,000
	11511349 - South Dakota - Ug Reinforcemnt	50
	11521115 - Capitalized-MN-Sales Tax Rfd -	(3,200)
	11583618 - Capitalized MN Sales Tax Rfd-	(800)
	11586869 - Mpls-Electric Trouble Tools &	51
	11586871 - St Paul-Elec TroubleTools & Eq	77
	11639197 - WCF - Mandates - NSPM	2,602
	11648597 - Distribution Automation	305
	11648600 - ELR Substation Regulators	1,160
	11648601 - Substation Fence Improvement	250
	11648602 - Substation Transformer Replace	2,000
	11648782 - Install Fifth Street Switchgea	5,000
	11648941 - Install Fdr tie for CRL033	800
	11649517 - Retire Subs in MN	558

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Utility Desc	Parent Proj Full Desc	Total
	11650625 - WCF - Line Capacity - NSPM	498
	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	160
	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
	11810475 - reserve 70 MVA 115/34.5 kV tra	1,300
	11810476 - NSPM Remote Fault Indication	500
	11810477 - NSPM Subs Relay Fault Locating	500
	11810478 - NSPM Substation new RTU and FL	1,000
	11810485 - SWLRT Relocation	500
	11810490 - Build new 7 MVA NER sub next t	1,400
	11810491 - Add 2nd 23.9kV Transformer and	1,175
	11810493 - Reinf. TR1 69/4 kV Hatton ND	300
	11810494 - Convert Hatton feeder	100
	11810495 - Convert North Broadway to 23 k	1,750
	11810534 - SSI	1,700
	11810539 - SSI	1,200
	11810657 - ELR - NSPM RTU	1,500
	11811786 - NSPM-Fdr Cable Repl Proactive	1,016
	11811792 - Add Midpoint Reclosers	100
	11811794 - Install 115/13.8kV 50MVA STY T	1,400
	11811795 - Install Automated Switches - M	267
Electric	11811796 - Install Automated Switches - S	107
	11812204 - Install new sub at TCAAP - sub	1,200
	11812293 - Install new sub at TCAAP - fee	600
	11813718 - GIS Model Improvements - NSPM	1,000
	11845352 - Franchise Renewal Electric	14
	11926831 - Replace Network Protectors - S	1,117
	11938507 - STP Vault Top Replacement	606
	11982163 - Frame Relay Replacement - NSPM	2
	11982187 - Fiber Communication Cutover -	1,625
	11982453 - Add new 23.9kV feeder at WAT	800
	11982504 - Install New Fdrs - South Afton	1,700
	11982507 - Install new South Afton Sub	2,600
	11982515 - Install new sub at TCAAP - Lan	1,000
	11982544 - SSI	450
	11982551 - New Belle Plaine Sub Land	30
	12072703 - VAR Network Devices	895
	12076639 - MN LED Streetlight Replacement	8,292
	12076640 - ND LED Streetlight Replacement	717

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Utility Desc	Parent Proj Full Desc	Total
	12076641 - SD LED Streetlight Replacement	210
	12173303 - Reconfigure ties for TWL079 fe	570
	12173308 - Add 2 New Baytown Feeders	2,300
	12173312 - Extend MDT Feeder to relieve S	500
	12173313 - Switchgear Cable Work/Replacem	260
	12173321 - Fiber Communication Cutover	2,717
	12173359 - SSI: Convert Hatton, LAND	75
Electric Total		232,149
Common	10006666 - Tools & Equipment-Transportati	172
	10557030 - Fleet New Unit Purchase Common	1,882
	10741664 - Fleet New Unit Purchase Common	12
	10790334 - Logistics - NSPM - Tools	155
	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.	60
Common Total		2,332
Grand Total		234,481

