

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

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

Parent Proj Full Desc	Total
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
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)
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

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Parent Proj Full Desc	Total
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
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)

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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
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
10557030 - Fleet New Unit Purchase Common	1,882
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
10741664 - Fleet New Unit Purchase Common	12
10790334 - Logistics - NSPM - Tools	155
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

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Parent Proj Full Desc	Total
10948334 - Reliability Monitoring System	43
10954893 - Environmental Work NSPM EL	250
11095139 - SPCC NSPM Oil Spill Prevention	1,060
11096947 - MN Infratructure Invest - Sub	220
11201746 - Logistics - Fencing - NSPM	7
11201748 - Logistics - Security Equipment	25
11208552 - FPIP Feeders - South Dakota	160
11226930 - Logistics - NSPM - Tools - ND	12
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
11445828 - Logistics Security Equipment N	7
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
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

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Parent Proj Full Desc	Total
11774433 - NSPM Locating Tools & Equip.	60
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
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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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
Grand Total	234,481

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

Northern States Power - MN
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Utility Desc	Parent Proj Full Desc	Total
Electric	10006393 - Minnesota-Sub Capac Reinforcem	801
	10006417 - Minnesota- Dist Sub Eq Replace	2,391
	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
	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
Electric		