

Schedule 5
2016 Capital Budget Excluding AFUDC
Distribution Operations
Total Company - All Utilities

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

Parent Proj Full Desc	Total
11768017 - NSPM - SD Comm Equip - Dist Li	6
11774433 - NSPM Locating Tools & Equip.	58
11793001 - NSPM Feeder Load Monitoring	350
11796843 - Intelliteam SG RTU Rollout	300
11810472 - Rewind/Replace Failed Transfor	1,000
11810476 - NSPM Remote Fault Indication	250
11810477 - NSPM Subs Relay Fault Locating	500
11810478 - NSPM Substation new RTU and FL	750
11810485 - SWLRT Relocation	100
11810511 - Install circuit switchers RED	320
11810543 - SSI	1,200
11810555 - SSI	1,268
11810556 - SSI	500
11811795 - Install Automated Switches - M	258
11811796 - Install Automated Switches - S	103
11811805 - Install new sub Lake Bavaria	3,100
11811807 - Install feeder at new Hazeltin	1,300
11811824 - Install Renner substation	2,745
11811829 - Install new Souris SOR082 feed	1,800
11811830 - Install Renner sub 2 feeders	1,000
11811836 - Install Souris SOR082 fdr bay	450
11811840 - Install Red River RED084 feede	600
11811850 - add 5 MVA LAW322 step-down	300
11811865 - LAND Great Plains new sub	100
11812145 - Instl second bank Fiesta City	1,825
11812193 - Inst BYT#2 28 MVA	1,800
11812198 - Inst BYT#2 28 MVA OH fdrs	200
11813718 - GIS Model Improvements - NSPM	1,000
11845352 - Franchise Renewal Electric	14
11926831 - Replace Network Protectors - S	820
11938507 - STP Vault Top Replacement	357
11982163 - Frame Relay Replacement - NSPM	2,390
11982395 - New ELP feeder	300
11982398 - New ELP feeder bay	400
11982409 - Add 35 KV feeder tie for WSG 3	300
11982425 - Install Eastwood 081 and 082	1,500
11982448 - Add Eastwood TR3	3,381
11982495 - Install tie for BRP063	140
11982498 - Reconfigure ties for TWL079	200

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11982500 - Reconfigure ties on TWL feeder	250
11982541 - Install tie for SOS062	300
11991689 - T	450
12068315 - Remove network in Sioux Falls	1,000
12075665 - Convert Cliff 4 kV feeder to F	548
12076234 - Retire EMPsub- Reroute 34.5kV	230
12076282 - Install New Mouse River Feeder	830
12076639 - MN LED Streetlight Replacement	8,413
12076640 - ND LED Streetlight Replacement	717
12076641 - SD LED Streetlight Replacement	210
12173290 - Add feeder bay for LAE062	470
12173292 - Install new MNI TR3 and feeder	2,500
12173306 - Build New LAE062 Feeder	1,750
12173352 - Rebuild Madison Ave Manholes	187
12173354 - Convert South feeder to 12.5 k	200
12173355 - Install MNI TR3 and feeders -	100
12173356 - Convert South sub to 12.5 kV	250
Grand Total	210,000

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Utility Desc	Parent Proj Full Desc	Total
Electric	10006393 - Minnesota-Sub Capac Reinforcem	726
	10006417 - Minnesota- Dist Sub Eq Replace	2,299
	10006686 - Spec Cnstr - Sm Tool/Equip	138
	10006954 - Mpls-New Ug Extension	2,207
	10006957 - Mpls-Ug Conversion/Rebuild	1,958
	10006968 - Minnesota-Electric Meter Blank	6,312
	10007058 - Mpls-Elec Tool/Equip	104
	10007068 - Mntka- New Ug Extension	1,129
	10007086 - Mntka-Oh Rebuilds	616
	10007114 - Mntka-Elec Tools/Equip	12
	10007241 - South Dakota - Oh Extension	1,150
	10007278 - South Dakota - Oh Rebuilds	937
	10007315 - South Dakota - Tools & Equip	74
	10007391 - Edina-Ug Extensions	1,327
	10007416 - Edina-Oh Rebuilds	534
	10007440 - Edina-Elect Tool/Equip	28
	10007457 - Maple Grv- Elec Ug Extension	1,812
	10007463 - Minnesota- New Bus Transformer	22,153
	10007487 - Maple Grv-Oh Rebuilds	605
	10007517 - Maple Grv-Elec Tools/Equip	43
	10008491 - Northwest - Ug Extensions	1,237
	10008512 - Northwest - Overhead Rebuilds	596
	10008596 - Northwest - Elec Tools/Equip	98
	10008652 - Newport-Elec Tool/Equip	27
	10144483 - Mpls-Oh Extension	773
	10144484 - Mpls-Oh Services	771
	10144485 - Mpls-New Ug Services	449
	10144486 - Mpls- New Ug Network	744
	10144487 - Mpls-New Oh Street Lights	571
	10144488 - Mpls-New Ug Street Lights	133
	10144489 - Mpls-Elec Non-Refundable Ciac	(1,254)
	10144490 - Mpls-Oh Rebuilds	1,148
	10144491 - Minnesota- Dist Sub Tool/Equip	540
	10144492 - Mpls-Oh Reinforcements	401
	10144493 - Mpls-Ug Reinforcement	136
	10144494 - Mpls-Oh Relocations	398
	10144495 - Mpls-Ug Relocations	590
	10144497 - Mntka-Oh Extension	217
	10144498 - Mntka-Oh Services	91
	10144499 - Mntka-New Ug Services	873
Electric	10144500 - Mntka-New Oh Street Lights	39
	10144501 - Mntka-New Ug Street Lights	53
	10144502 - Mntka-Elec Non-Refundable CIAC	(270)

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Utility Desc	Parent Proj Full Desc	Total
	10144503 - Mntka-Ug Conversion/Rebuild	398
	10144504 - Mntka-Oh Reinforcements	45
	10144505 - Mntka-Ug Reinforcements	45
	10144506 - Mntka-Oh Relocations	510
	10144507 - Mntka-Ug Relocations	181
	10144509 - Edina-Oh Extension	79
	10144510 - Edina-New Oh Services	150
	10144511 - Edina-Ug Services	414
	10144512 - Edina-New Oh Street Lights	56
	10144513 - Edina-New Ug Street Lights	364
	10144514 - Edina-Elec Non-Refundable CIAC	(225)
	10144515 - Edina-Ug Conversions/Rebuild	893
	10144516 - Edina-Oh Reinforcements	114
	10144517 - Edina-Ug Reinforcements	62
	10144518 - Edina-Oh Relocations	269
	10144519 - Edina-Ug Relocations	425
	10144521 - White Bear-Oh Extension	223
	10144523 - White Bear-Oh Services	195
	10144525 - White Bear-Ug Services	1,594
	10144527 - White Bear-Oh Street Lights	69
	10144528 - White Bear-Ug Street Lts	277
	10144529 - Wb-Elec Non-Refundable Ciac	(253)
	10144530 - White Bear-Oh Rebuilds	517
	10144531 - White Bear-Ug Conv/Rebuilds	355
	10144532 - White Bear-Oh Reinforcements	150
	10144533 - White Bear-Ug Reinforcements	74
	10144535 - White Bear-Ug Relocations	113
	10144536 - White Bear-Electric Tools & Eq	27
	10144561 - Maple Grv-New Oh Street Lights	53
	10144563 - Maple Grv-Oh Extension	129
	10144565 - Maple Grv-Oh Services	64
	10144566 - Maple Grv-New Elec Ug Services	655
	10144570 - Maple Grv-New Ug Street Lights	158
	10144572 - Mplgrv-Elec Non-Refundable Cia	(266)
	10144573 - Maple Grv-Ug Conversion/Rebuil	1,044
	10144574 - Maple Grv-Oh Reinforcements	68
	10144575 - Maple Grv-Ug Reinforcements	106
	10144576 - Maple Grv-Oh Relocations	509
	10144578 - Maple Grv-Ug Relocations	108
	10144635 - Northwest-New Oh Street Lights	177
	10144636 - Northwest-New Oh Extensions	579
	10144637 - Northwest-New Oh Services	190
	10144638 - Northwest-New Ug Services	782

Electric

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Utility Desc	Parent Proj Full Desc	Total
Electric	10144640 - Northwest-New Ug Street Lights	80
	10144641 - Nw-Elec Non-Refundable Ciac	(312)
	10144642 - Northwest-Ug Conversion/Rebuil	220
	10144643 - Northwest-Oh Reinforcements	431
	10144644 - Northwest-Ug Reinforcement	24
	10144645 - Northwest-Oh Relocations	841
	10144646 - Northwest-Ug Relocations	91
	10144700 - North Dakota -Oh Extension	489
	10144701 - North Dakota -Oh Services	113
	10144702 - North Dakota -Ug Extension	2,125
	10144703 - North Dakota -Ug Services	334
	10144704 - North Dakota -Oh Street Lights	192
	10144706 - Nd-Elec Non-Refundable Ciac	(482)
	10144707 - North Dakota -Oh Rebuilds	357
	10144708 - North Dakota -Ug Conv/Rebuilds	678
	10144709 - North Dakota -Oh Reinforcement	46
	10144710 - North Dakota -Ug Reinforcement	266
	10144711 - North Dakota -Oh Relocations	65
	10144712 - North Dakota -Ug Relocations	259
	10144713 - North Dakota -Elec Tools & Eq	49
	10144748 - Newport-Oh Extension	354
	10144749 - Newport-Oh Services	128
	10144750 - Newport-Ug Services	1,434
	10144752 - Newport-Oh Streetlights	102
	10144753 - Newport-Ug Streetlights	162
	10144754 - Npt-Elec Non-Refundable Ciac	(405)
	10144755 - Newport-Oh Rebuilds	696
	10144756 - Newport-Ug Conversions/Rebuild	531
	10144757 - Newport-Oh Reinforcements	88
	10144758 - Newport-Ug Reinforcements	300
	10144759 - Newport-Oh Relocations	351
	10144760 - Newport-Ug Relocations	39
	10144771 - Southeast-Oh Extension	922
	10144772 - Southeast-Oh Services	316
	10144773 - Southeast-Ug Services	879
	10144775 - Southeast-Oh Streetlights	336
	10144776 - Southeast-Ug Streetlights	88
	10144777 - Se-Elec Non-Refundable Ciac	(302)
	10144778 - Southeast-Oh Rebuilds	1,576
	10144779 - Southeast-Ug Conv/Rebuilds	604
	10144780 - Southeast-Oh Reinforcements	452
	10144781 - Southeast-Ug Reinforcements	48
	10144782 - Southeast-Oh Relocations	1,039

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Electric	10144783 - Southeast-Ug Relocations	328
	10144784 - Southeast-Elec Tools & Equip	49
	10144795 - St Paul-Oh Extension	208
	10144796 - St Paul-Oh Services	221
	10144797 - St Paul-Ug Services	49
	10144798 - St Paul-Ug Network	510
	10144799 - St Paul-Oh Streetlights	156
	10144800 - St Paul-Ug Streetlights	13
	10144801 - St P-Elec Non-Refundable Ciac	(326)
	10144802 - St Paul-Oh Rebuilds	962
	10144803 - St Paul-Ug Conversions/Rebuild	754
	10144804 - St Paul-Oh Reinforcements	189
	10144805 - St Paul-Ug Reinforcements	177
	10144806 - St Paul-Oh Relocations	540
	10144807 - St Paul-Ug Relocations	340
	10144808 - St Paul-Elec Tools & Equip	62
	10145065 - Newport-Ug Extensions	3,055
	10145070 - Southeast-Ug Extensions	1,982
	10145179 - St Paul-Ug Extensions	651
	10145833 - White Bear Ug Extensions	1,124
	10145962 - South Dakota - Oh Service	297
	10145964 - South Dakota - Ug Extension	3,587
	10145966 - South Dakota - Ug Service	1,627
	10145970 - South Dakota - Oh Streetlights	225
	10145972 - South Dakota - Ug Streetlights	148
	10145974 - Sd-Elec Non-Refundable Ciac	(537)
	10145976 - South Dakota - Ug Conv/Rebld	846
	10145978 - South Dakota - Oh Reinforcemnt	206
	10145982 - South Dakota - Oh Relocations	721
	10145984 - South Dakota - Ug Relocations	296
	10146153 - White Bear Oh Relocations	1,065
	10229363 - Nspm Metering Sys-Tools & Equi	84
	10229574 - Nspm-Fdr Cable Replacement-Eme	5,416
	10229647 - NSPM-Poor Perf Fdr Replace Blk	543
	10233671 - Mn-Construct Dist Sub Tool & E	86
	10245168 - Nd-Worst Performing Feeder	52
	10333869 - NSPM-Accelerated URD Cable Rep	12,819
	10381269 - 2004 Elec Recon Carryover-NSPM	6,525
	10404795 - Mpls-OH to UG Service Conv	184
	10404807 - Mntka-Oh to UG Service Conv	74
	10404810 - Edina-OH to UG Service Conv	122
	10404812 - White Bear-OH to UG Service Co	86
	10404815 - Maple Grv-OH to UG Service Con	24

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Utility Desc	Parent Proj Full Desc	Total
	10404822 - Northwest-OH to UG Service Con	34
	10404828 - ND-OH to UG Service Conv	26
	10404836 - Newport-OH to UG Service Conv	28
	10404844 - Southeast-OH to UG Service Con	25
	10404850 - St Paul-OH to UG Service Conv	115
	10437120 - Capitalized Locating Cost-Elec	352
	10494498 - SD URD Cable Accel Replacement	516
	10494522 - ND URD Cable Accel Replacement	465
	10522944 - Replace 7 CM2 Network Protecto	998
	10522951 - Replace Vault Top	914
	10557022 - Fleet New Unit Purchase EI Ops	5,211
	10650009 - Dist Sub - Non-Discr Contingen	1,000
	10741615 - Fleet New Unit Purchase EI Ops	477
	10741648 - Fleet New Unit Purchase EI Ops	1,027
	10796310 - North Dakota Inspect replace	268
	10796998 - Minnesota inspect/replace pole	9,359
	10797036 - South Dakota - Inspect/Replace	790
	10948327 - Reliability Monitoring Sys REM	833
	10948331 - Reliability Monitoring System	16
	10948334 - Reliability Monitoring System	41
	10954893 - Environmental Work NSPM EL	250
	11095139 - SPCC NSPM Oil Spill Prevention	1,015
	11160613 - New First Lake sub	70
	11208552 - FPIP Feeders - South Dakota	155
	11236978 - Logistics - Tools - SD	3
	11325531 - NSPM Inspect/Replace Poles	111
	11325534 - ND Inspect/Replace Poles	6
	11325535 - SD Inspect/Replace Poles	17
Electric	11395300 - Install Renner sub LAND	166
	11398809 - NSPM 3rd Party owned Pole Tran	565
	11466030 - Hennepin Trng ElecTools&Equip	41
	11500353 - Inst switches CLF071 extnd fee	55
	11500577 - RCSII Replacement Project - MN	420
	11500578 - Feeder Breaker Replacement	1,935
	11500579 - Substation Switch Replacement	250
	11511349 - South Dakota - Ug Reinforcemnt	48
	11515114 - Install Falls Sub UG Feeders	400
	11515119 - Retire Sioux Falls Sub	499
	11521115 - Capitalized-MN-Sales Tax Rfd -	(3,200)
	11583618 - Capitalized MN Sales Tax Rfd-	(800)
	11586869 - Mpls-Electric Trouble Tools &	49
	11586871 - St Paul-Elec TroubleTools & Eq	75
	11639197 - WCF - Mandates - NSPM	2,690