

Schedule 5
2018 Capital Budget Excluding AFUDC
Gas Systems
Total Company - All Utilities

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

Parent Proj Full Desc	Total
11806913 - Maplewood Gas Production/Manuf	384
11810314 - WCF-New Main for Business Proj	4,140
11810352 - BRD	1,400
11823318 - MN Install Gas Communication E	107
11844591 - North Dakota - Main Reinforcem	230
11982195 - Replace obsolete regulators -	775
12173398 - Cap Fed Code Mitigation - Main	202
Grand Total	96,265

Schedule 5A
2018 Capital Budget Excluding AFUDC
Gas Systems
Total Company - By Utility

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Utility Desc	Parent Proj Full Desc	Total
Gas	10007118 - Gas Plants & Holders-Smal	1,233
	10008551 - Northwest-New Gas Mains	631
	10008568 - Northwest-Main Reinforcement	226
	10008572 - Northwest-Gas Main Renewal	80
	10008592 - Northwest-Gas Tool/Equip	78
	10008702 - Lakes-New Mains	31
	10008857 - Newport-Gas New Mains	881
	10008868 - Newport -Main Renewal	95
	10008978 - Southeast- New Gas Mains	443
	10008989 - Southeast-Gas Main Reinforce	5
	10008992 - Newport-Gas Main Renewal	91
	10009025 - Southeast-Gas Tools/Equip	49
	10009035 - St Paul-New Gas Mains	33
	10009046 - St Paul- Gas Main Renewal	124
	10009095 - St Paul- Gas Tools/Equip	238
	10009099 - Minnesota-Gas Meter Blanket	8,650
	10009106 - Newport-Reg/Meter Station Inst	96
	10144534 - White Bear-New Mains	760
	10144539 - White Bear-Gas New Services	1,525
	10144542 - White Bear-Syst Mtr & Reg Inst	10
	10144543 - Wb-Gas Non-Refundable Ciac	(308)
	10144545 - White Bear-Main Relocation	2,295
	10144547 - White Bear-Main Renewal	62
	10144549 - White Bear- Svc Renewal/Cutoff	978
	10144577 - Wyoming - Gas New Mains	45
	10144580 - Wyoming - Gas New Services	1,075
	10144584 - Wy-Gas Non-Refundable Ciac	(87)
	10144585 - Wyoming - Main Reinforcement	8
	10144586 - Wyoming - Main Relocation	400
	10144588 - Wyoming - Main Renewal	21
	10144590 - Wyoming - Svc Renewal/Cutoff	39
	10144648 - Northwest-New Gas Services	3,299
	10144652 - Northwest-Reg/Meter Sta Instal	50
	10144654 - Nw-Gas Non-Refundable Ciac	(547)
	10144655 - Northwest-Main Relocation	932
	10144659 - Northwest-Service Renew/Cutoff	415
	10144717 - North Dakota -New Mains	3,147
	10144718 - North Dakota -New Services	3,862
	10144721 - North Dakota -Sys Mtr & Reg In	51
	10144722 - Nd-Gas Non-Refundable Ciac	(717)
Gas		

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	10144724 - North Dakota -Main Relocation	300
	10144726 - North Dakota -Main Renewal	10
	10144728 - North Dakota -Svc Renew/Cutoff	171
	10144729 - North Dakota -Gas Tools & Eq	69
	10144731 - Lakes Area-Gas New Services	1,025
	10144735 - Lakes-Gas Non-Refundable Ciac	(213)
	10144738 - Lakes Area-Svc Renewal/Cutoff	33
	10144740 - Newport-Gas New Services	1,670
	10144743 - Npt-Gas Non-Refundable Ciac	(274)
	10144746 - Newport-Svc Renewal/Cutoff	468
	10144762 - Southeast-Gas New Services	843
	10144765 - Southeast-Sys Reg & Mtr Inst	185
	10144766 - Se-Gas Non-Refundable Ciac	(130)
	10144769 - Southeast-Svc Renewal/Cutoff	387
	10144786 - St Paul-Gas New Services	597
	10144789 - St Paul-System Reg & Mtr Inst	35
	10144790 - St P-Gas Non-Refundable Ciac	(229)
	10144793 - St Paul-Svc Renewal/Cutoff	779
	10145056 - Newport-Gas Main Relocation	825
	10145096 - Southeast-Gas Main Relocation	321
	10145176 - St Paul- Gas Main Relocation	1,011
	10146269 - Lakes Area-Main Relocation	110
	10376115 - MN-Transmission Reg and Meter	268
	10380944 - Gas New Construction Carryover	400
	10437164 - Capitalized Locating Cost-Gas	253
	10556987 - Fleet New Unit Purchase Gas Op	2,398
	10614176 - NSM Trans Line Install	252
	10741658 - Fleet New Unit Purchase Gas Op	323
	11503515 - ASV/REV Instalation on High Pr	1,000
	11586537 - ND-Trans Reg/Mtr Sta Blanket	8
	11649521 - NSPM TIMP Mitigation of ILI Re	1,600
	11649522 - NSPM Programmatic Main Replace	11,200
	11649766 - NSPM Programmatic Service Repl	7,000
	11651650 - NSPM Pre 1950 Trans and IP Pip	25,500
	11731139 - NSPM Gas Metering System Tool	62
	11771760 - NSPM Gas Plant Tools & Equip	68
	11782426 - NSPM-Gas Metering Sys-Tools &	20
	11806830 - Wescott Gas Production/Manufac	383
	11806913 - Maplewood Gas Production/Manuf	384
	11810314 - WCF-New Main for Business Proj	4,140

Gas

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Utility Desc	Parent Proj Full Desc	Total
	11810352 - BRD	1,400
	11823318 - MN Install Gas Communication E	107
	11844591 - North Dakota - Main Reinforcem	230
	11982195 - Replace obsolete regulators -	775
	12173398 - Cap Fed Code Mitigation - Main	202
Gas Total		96,265
Grand Total		96,265

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Business Area	Sub Business Area	Parent Proj Full Desc	Total
General Counsel	GC Policy & Federal Affairs	10812281 - Strategic Technology - NSPM	600
General Counsel Total			600
Operations Services	Operation Services-ETO Office	11491932 - Work and Asset Ph 1 SW MN	50,878
		11765111 - General Ledger Ph 1 SW MN	2,805
		12076705 - Purch WAM HW NSPM	1,007
Operations Services Total			54,689
Utilities & Corp Services	Business Systems	10810837 - MRAS/ARCS Consolidation Upgrad	252
		10818773 - Dynamic EMS Environment Phase	80
		11218029 - BS-Fcst-BD-SW-CM-M	3,710
		11490051 - 2016 Planned PC Refresh MN	633
		11490148 - 2016 Planned Server Refresh MN	888
		11490678 - 2016 IT INFS Network Refresh M	3,819
		11491254 - 2015 EMS Infrastructure Refres	5
		11491350 - 2016 Unplanned PC Refresh MN	638
		11491382 - 2016 Unplanned Server Refresh	480
		11491598 - 2016 Storage Project MN	2,175
		11491662 - 2016 EMS Infrastructure Refr M	429
		11584375 - Purch EMS DEMS Ph2 HW MN	1,715
		11616674 - 2016 Unplanned MDT Refresh MN	67
		11621467 - Purch Xcel Corp Network HW MN	450
		11764310 - 2016 Planned MDT Refresh MN	627
		11802128 - Purch 2016 Handheld Mobile MN	81
		11802563 - Purch NS T&D Network Equip MN	6,364
		11802580 - Purch NS Gas Op Network Equip	23
		11839687 - ADMS SW MN	44
		11888975 - Sub Asset Mgmt SW MN	570
		11896224 - Purch Gas SCADA Equip MN	1,398
		11939987 - Purch Corp Network Core HW MN	60
		11939991 - Cust Care Agent Screen SW MN	700
		11939998 - Purch Data Center HW MN	150
		11940018 - Purch Electric Grid HW MN	733
		11940037 - ERO Non-BES SW MN	414
		11940041 - GIS Upgrade 4.3 SW MN	401
		11940057 - Mobile Computing Infra SW MN	500
		11940061 - Purch Net Infra Standard HW MN	265
		11940070 - Security Tech Refresh SW MN	3,150
		11940083 - Trans Op Log SW MN	307
		11942468 - Purch Metro SCADA HW MN	750
		11942621 - Purch Infra Private Cloud HW M	580
		11944865 - Network Monitoring SW MN	1,040
		11944956 - Nuclear Firewall SW MN	150
		11944985 - NOC Integration SW MN	576
		12002108 - Data Discovery Suite SW MN	671
		12002227 - Mapframe Fieldsmart Upgrade SW	563
		12002462 - HDB (Non-Outage OMS) SW MN	186
		12002471 - Mobile Application Customer SW	307
		12002483 - Improve Outage Communication S	88
		12002741 - Active Directory 2016 SW MN	293
		12002770 - Metadata Management SW MN	112
		12002959 - SEP Refresh SW MN	235
		12003018 - Unified Communication SW MN	149
		12003032 - RADIUS Authentication SW MN	78
		12003036 - Network Topology Mgmt SW MN	296
		12003041 - Expansion of Guest Wireless SW	156
		12003045 - WiFi for GO and Marquette HW M	130
		12003046 - Radio Microwave Planned SW MN	180
		12003050 - NetOps Tools Infoblox SW MN	455
		12003057 - Intelligent Network Elements S	390
Utilities & Corp Services	Business Systems		

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Business Area	Sub Business Area	Parent Proj Full Desc	Total
		12003061 - Network Services Test Lab SW M	500
		12057938 - Enterprise Asset Analytics SW	602
		12058172 - Dynamic Pricing SW MN	418
		12058356 - Purch WIN 3003 Server HW MN	650
		12069622 - ITM Ph2 Recruiting SW MN	75
		12070880 - Fleet Focus SW MN	1,353
		12071705 - Multi Site Customer SW MN	264
		12071722 - Enterprise Search Portal SW MN	346
		12071881 - My Account Integration SW MN	277
		12071923 - Verint Workforce Mgmt SW MN	600
		12071992 - Purch Remittance Network Equip	100
		12076060 - Federated Record SW MN	700
		12078067 - Sharepoint 2013 Ph 2 SW MN	1,057
		12080509 - Fuelworx SW MN	149
		12172516 - Digital Appliance SW MN	101
		12173257 - Corp Net Core Routing ND MN	60
		12173258 - Corp Net Core Routing HW SD MN	60
		12173652 - ARCS Replacement SW MN	540
		12173656 - IE11 Browser Java SW MN	116
		12173674 - CIP Substation SW MN	254
	Business Systems Total		46,734
	HR and Employee Services	10950500 - Misc Building Projects	396
		10987149 - NSPM C Corp Sec Furn	900
		11225112 - Building Renovation/Remodel	400
		11225220 - Roads and Gates	385
		11225235 - Electrical	150
		11225241 - Structural	9
		11225245 - Mechanical	196
		11225246 - Roof Replacement	202
		11225275 - Office Furniture & equipment	27
		11225306 - Unbudgeted Emergencies	539
		11977528 - White Bear Lake HVAC	1,194
		12076108 - 401 Nicollet New Furniture	1,500
		12076634 - 401 Nicollet Mall	13,967
		12076637 - 414 Nicollet Changes - 401 Pro	4,163
		12172098 - Chestnut Meter Building HVAC	596
		12172130 - Rice St Warehouse Roof	627
	HR and Employee Services Total		25,250
Utilities & Corp Services Total			71,984
Grand Total			127,273

Schedule 5A
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Northern States Power - MN
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Utility Desc	Business Area	Sub Business Area	Parent Proj Full Desc	Total		
Electric	Utilities & Corp Services	Business Systems	10818773 - Dynamic EMS Environment Phase	80		
			11491254 - 2015 EMS Infrastructure Refres	5		
			11491662 - 2016 EMS Infrastructure Refr M	429		
			11584375 - Purch EMS DEMS Ph2 HW MN	1,715		
			11802563 - Purch NS T&D Network Equip MN	6,364		
			11839687 - ADMS SW MN	44		
			11888975 - Sub Asset Mgmt SW MN	570		
			11940018 - Purch Electric Grid HW MN	733		
			11940037 - ERO Non-BES SW MN	414		
			11944956 - Nuclear Firewall SW MN	150		
			12080509 - Fuelworx SW MN	149		
			12173674 - CIP Substation SW MN	254		
			Utilities & Corp Services Total			10,907
			Electric Total			10,907
			Gas	Utilities & Corp Services	Business Systems	11802580 - Purch NS Gas Op Network Equip
11896224 - Purch Gas SCADA Equip MN	1,398					
Utilities & Corp Services Total			1,421			
Gas Total			1,421			
Common	General Counsel	GC Policy & Federal Affairs	10812281 - Strategic Technology - NSPM	600		
	General Counsel Total			600		
	Operations Services	Operation Services-ETO Office	11491932 - Work and Asset Ph 1 SW MN	50,878		
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			12058172 - Dynamic Pricing SW MN	418		
			12058356 - Purch WIN 3003 Server HW MN	650		
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			12071992 - Purch Remittance Network Equip	100
			12076060 - Federated Record SW MN	700
			12078067 - Sharepoint 2013 Ph 2 SW MN	1,057
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Common Total				114,944
Grand Total				127,273