Northern States Power
2016 - 2020 Transmission Expense Budget
Transmission Expense Summary
Updated August 2015

BusUnit	Object	FERC	Description	2016	2017	2018
371120	637270	56550	Sch 1 - Sch, Sys Ctrl & Disp	$ 307,635	$ 320,217	$ 332,229
371120	637280	56550	Sch 2 - Reactive Supply	$ 9,273,067	$ 9,652,933	$ 10,015,386
371120	637210	56550	PTP	$ 71,111	$ 73,044	$ 75,235
371120	637230	56550	Network	$ 9,398,907	$ 9,783,987	$ 10,151,394
371120	637260	56564	Admin Charges	$ 3,150,784	$ 3,279,874	$ 3,403,040
371120	637262	56140	Admin Charges - FERC 561.4	$ 6,429,773	$ 6,498,219	$ 6,667,797
371120	637264	56180	Admin Charges - FERC 561.8	$ 462,318	$ 467,239	$ 479,432
371120	637266	57570	Admin Charges - FERC 575.7	$ 220,490	$ 222,837	$ 228,652
371120	637324	56550	Trans Expansion Plan	$ 87,681,104	$ 86,483,187	$ 85,329,790
371120	637324	56550	Trans Expansion Plan - Amortization of prior-year true-ups	$ (832,063)	$ -	$ -
371120	637245	56550	MISO Schedule 26-A MVP	$ 29,280,213	$ 44,192,100	$ 53,991,711
371120	637245	56550	MISO Schedule 26-A1203 - Brookings, SD - SE Twin Cities 345 kV - NSP	$ 5,597,443	$ 5,157,747	$ 5,090,741
371120	637245	56550	MISO Schedule 26-A MVP - Amortization of prior-year true-ups	$ (455,908)	$ -	$ -
371120	637323	56550	Sch 45 - NREAC Recovery	$ 6,070	$ 6,316	$ 6,552
371120	637322	56550	Schedule 33 - Black Start	$ 36,145	$ 37,624	$ 39,036
371120	637240	56550	Joint Pricing Zone Exp - GRE	$ 30,975,546	$ 31,911,965	$ 32,869,324
371120	637240	56550	Joint Pricing Zone Exp - SMMPA	$ 12,087,811	$ 12,453,590	$ 12,827,197
371120	637240	56550	Joint Pricing Zone Exp - CMMPA	$ 1,080,011	$ 1,112,692	$ 1,146,073
371120	637240	56550	Joint Pricing Zone Exp - NWEC	$ 706,161	$ 727,529	$ 749,355
371120	637240	56550	Joint Pricing Zone Exp - MMPA	$ 789,239	$ 813,121	$ 837,515
371120	637240	56550	Joint Pricing Zone Exp - MRES	$ 2,160,021	$ 2,225,384	$ 2,292,145
371120	638260	56564	Non RTO Trans	$ 343,971	$ 301,439	$ 71,871
371120	638260	56564	Non RTO Trans (PTP on Minnkota for Courtenay Project)	$ 97,500	$ 780,000	$ 780,000
331155	637750	56581	System Studies	$ 44,646	$ 45,986	$ 47,365
371120	638210	57570	Schedule 16 & 17	$ 5,943,474	$ 6,044,413	$ 6,164,551
371120	638210	57570	Schedule 24	$ 884,729	$ 911,270	$ 938,608
371120	638210	57570	Wholesale Schedules 17 & 24	$ 189,708	$ 191,583	$ 194,581
			Budget Grand Total - NSPM	**$ 205,929,905**	**$ 223,694,296**	**$ 234,729,582**
			Minnesota Electric Jurisdiction Expenses	$ 179,871,740	$ 195,388,243	$ 205,027,135

Amounts EXCLUDED from Cost of Service

BusUnit	Object	FERC	Description	2016	2017	2018
371120	638270	56550	Interconnection Upgrades (Upgrades on OTP for Courtenay Project)	$ 175,767	$ 1,406,139	$ 1,406,139
371120	637324	56550	MISO ROE Refund	$ (12,202,560)	$ (13,537,318)	$ (15,887,039)

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2016-2018 Test Year Tranmission Expense Budget
As RIS Output

	Dec - 2016			Dec - 2017			Dec - 2018		
	Total	MN Electric	Other	Total	MN Electric	Other	Total	MN Electric	Other
NSPM-Transmission COGS									
561.4-Load Disp-Sch/Con/Disp Serv									
637262-Admin Charges FERC 561.4-NSPX	6,429,773	5,616,156	813,617	6,498,219	5,675,941	822,278	6,667,797	5,824,061	843,736
561.8-Rel/Plan/Standards Dev Serv									
637264-Admin Charges FERC 561.8- NSPX	462,318	403,816	58,501	467,239	408,115	59,124	479,432	418,765	60,667
565-Purchased Power									
637210-PTP	71,111	62,112	8,998	73,044	63,801	9,243	75,235	65,715	9,520
637230-Network - NSPX	9,398,907	8,209,578	1,189,328	9,783,987	8,545,931	1,238,056	10,151,394	8,866,847	1,284,547
637240-Joint Pricing Zone - CMMPA	47,798,789	41,750,378	6,048,411	49,244,280	43,012,958	6,231,322	50,721,609	44,303,347	6,418,262
637245-Sch 26a-MVP ATAC 3127 NSPX	34,421,748	30,066,055	4,355,694	49,349,847	43,105,167	6,244,680	59,082,452	51,606,218	7,476,234
637260-Admin Charges FERC - NSPX	3,150,784	2,752,087	398,697	3,279,874	2,864,842	415,032	3,403,040	2,972,422	430,617
637270.1240-Sch 1-Sch,Sys Ctrl&Disp-PTP	307,635	268,707	38,928	320,217	279,697	40,520	332,229	290,189	42,040
637280-Sch 2 - Reactive Supply	9,273,067	8,099,663	1,173,405	9,652,933	8,431,460	1,221,472	10,015,386	8,748,049	1,267,337
637322-Sch 33 - Blackstart	36,145	31,571	4,574	37,624	32,863	4,761	39,036	34,097	4,940
637323-Sch 45 - NREAC Recovery	6,070	5,302	768	6,316	5,517	799	6,552	5,723	829
637324-Trans Expansion Plan	86,849,041	75,859,250	10,989,791	86,483,187	75,539,691	10,943,496	85,329,790	74,532,244	10,797,546
637750-Trans Exp-MISO Studies	44,646	38,997	5,649	45,986	40,167	5,819	47,365	41,372	5,994
638260-Non RTO Trans	441,471	385,608	55,863	1,081,439	944,595	136,844	851,871	744,076	107,795
575.7-Mkt Fac/Mon/Comp Serv									
637260-Admin Charges FERC - NSPX	7,017,910	6,129,871	888,039	7,147,266	6,242,858	904,408	7,297,740	6,374,292	923,449
637266-Admin Charges FERC 575.7- NSPX	220,490	192,589	27,901	222,837	194,640	28,198	228,652	199,719	28,933
Sub-Total NSPM-Transmission COGS	205,929,905	179,871,740	26,058,164	223,694,296	195,388,243	28,306,052	234,729,582	205,027,135	29,702,447

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O2-3. Interchange

2016 Test Year NSPW Interchange Bill

G1 - I/A Full Bill	Jan - 2016	Feb - 2016	Mar - 2016	Apr - 2016	May - 2016	Jun - 2016	Jul - 2016	Aug - 2016	Sep - 2016	Oct - 2016	Nov - 2016	Dec - 2016	2016
Demand CP													
NSPM	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	
NSPW	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Demand CP to use	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	
Demand Factor													
NSPM	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	1,009.6183%
NSPW	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	190.3817%
Total	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	1,200.0000%
Energy Requirements:													
NSP (Minn) Adj for losses	84%	83%	83%	83%	84%	84%	85%	84%	84%	84%	83%	83%	
NSP (Wisc) Adj for losses	16%	17%	17%	17%	16%	16%	15%	16%	16%	16%	17%	17%	
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Energy Requirements to use	16%	17%	17%	17%	16%	16%	15%	16%	16%	16%	17%	17%	
Production Expenses:													
Fixed:													
Fixed Charges	3,415,315	3,423,862	3,446,618	3,443,654	3,464,427	3,462,293	3,448,940	3,430,649	3,420,479	3,432,917	3,483,034	3,517,939	41,390,128
O & M Expenses	1,808,707	1,803,507	1,941,540	1,901,558	1,935,541	2,025,687	1,909,286	2,448,185	2,024,900	1,830,447	1,856,873	821,779	22,308,011
Total Demand Costs	5,224,022	5,227,369	5,388,158	5,345,212	5,399,968	5,487,980	5,358,226	5,878,835	5,445,380	5,263,365	5,339,907	4,339,718	63,698,139
Demand Rate	32,927,677	32,948,769	33,962,241	33,691,548	34,036,685	34,591,437	33,773,578	37,055,043	34,322,921	33,175,655	33,658,113	27,353,794	401,497,462
Power Sales	0.66741	0.66741	0.66741	0.66741	0.66741	0.66741	0.66741	0.66741	0.66741	0.66741	0.66741	0.66741	8.00887
Total Prod Fixed Charge	4,395,224	4,398,039	4,533,319	4,497,186	4,543,256	4,617,305	4,508,136	4,946,149	4,581,463	4,428,324	4,492,723	3,651,216	53,592,339
Variable:													
Fuel	1,079,911	947,586	775,585	806,752	1,325,824	1,527,173	1,947,211	1,700,654	2,178,930	952,718	1,033,016	1,042,747	15,318,106
Fuel Handling	155,093	150,874	154,076	173,898	159,358	152,166	155,048	159,805	159,017	171,884	170,750	164,787	1,926,757
Net Purchases	157,650	142,830	164,734	153,071	150,730	155,014	154,518	140,971	152,796	160,436	155,319	157,872	1,845,943
Fuel Carrying Charge	69,721	66,503	70,968	76,388	75,066	75,113	75,580	74,158	72,789	72,146	72,375	72,192	872,997
Miscellaneous Revenues													
O & M Expenses	301,967	306,918	417,827	361,631	340,028	323,461	307,704	314,184	311,397	386,510	357,761	319,549	4,048,937
Total Variable Costs	1,764,342	1,614,710	1,583,190	1,571,740	2,051,007	2,232,927	2,640,061	2,389,772	2,874,929	1,743,694	1,789,221	1,757,147	24,012,740
Unit Rate	10,734,204	9,642,000	9,383,288	9,330,210	12,618,582	13,922,372	17,043,675	15,156,941	17,929,708	10,641,068	10,760,376	10,325,485	147,487,908
Energy Sales	0.6868	0.6971	0.7013	0.7004	0.6806	0.6733	0.6545	0.6640	0.6732	0.6851	0.6932	0.7061	8.2155
Total Prod Variable Billed to NSPW	1,474,343	1,344,300	1,316,067	1,306,969	1,717,639	1,874,801	2,231,117	2,012,980	2,413,950	1,457,964	1,491,712	1,458,123	20,099,966
Total Prod Costs Billed	5,869,567	5,742,340	5,849,386	5,804,155	6,260,895	6,492,106	6,739,252	6,959,130	6,995,413	5,886,289	5,984,435	5,109,339	73,692,306
Transmission Expenses:													
Fixed:													
Fixed Charges	9,720,910	9,710,756	9,766,852	9,823,489	9,815,648	9,850,625	9,879,837	9,865,218	9,845,335	9,826,953	9,844,806	9,935,873	117,886,303
Miscellaneous Revenues	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(25,992)
O & M Expenses	993,498	1,147,755	1,034,759	1,129,891	1,327,675	1,194,234	1,325,813	1,369,622	1,312,717	1,355,535	1,179,711	1,398,622	14,769,832
Total Demand Costs	10,712,242	10,856,345	10,799,445	10,951,214	11,141,156	11,042,693	11,203,484	11,232,675	11,155,887	11,180,322	11,022,351	11,332,329	132,630,142
Demand Rate	67,520,622.95133	68,428,921.76505	68,070,276.74181	69,026,891.40079	70,224,122.57239	69,603,496.53847	70,616,982.56698	70,800,974.74343	70,316,970.30162	70,470,990.06289	69,475,277.60216	71,429,109.39077	835,984,636.63769
Power Sales	0.66741	0.66741	0.66741	0.66741	0.66741	0.66741	0.66741	0.66741	0.66741	0.66741	0.66741	0.66741	8.00887
Total Trans Fixed Billed	9,012,730	9,133,971	9,086,098	9,213,788	9,373,596	9,290,754	9,426,035	9,450,595	9,385,989	9,406,548	9,273,639	9,534,439	111,588,183
Total Costs Assigned	14,882,297	14,876,310	14,935,484	15,017,943	15,634,491	15,782,860	16,165,288	16,409,725	16,381,402	15,292,837	15,258,074	14,643,778	185,280,489

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2017 Plan Year NSPW Interchange Bill

G1 - I/A Full Bill	Jan - 2017	Feb - 2017	Mar - 2017	Apr - 2017	May - 2017	Jun - 2017	Jul - 2017	Aug - 2017	Sep - 2017	Oct - 2017	Nov - 2017	Dec - 2017	2017
Demand CP													
NSPM	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	1010%
NSPW	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	190%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	1200%
Demand CP to use	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	190%
	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Demand Factor													
NSPM	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	84.1349%	1,009.6183%
NSPW	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	15.8651%	190.3817%
Total	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	1,200.0000%
Energy Requirements:													
NSP (Minn) Adj for losses	84%	83%	83%	83%	84%	84%	85%	84%	84%	84%	83%	83%	10
NSP (Wisc) Adj for losses	16%	17%	17%	17%	16%	16%	15%	16%	16%	16%	17%	17%	2
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	12
Energy Requirements to use	16%	17%	17%	17%	16%	16%	15%	16%	16%	16%	17%	17%	2
Production Expenses:													
Fixed:													
Fixed Charges	3,459,492	3,440,835	3,426,395	3,411,968	3,420,012	3,433,567	3,425,975	3,417,246	3,428,904	3,466,494	3,486,654	3,485,114	41,302,655
O & M Expenses	1,857,009	1,883,230	1,992,323	1,965,439	1,997,274	2,053,826	1,942,184	2,488,760	2,066,356	1,867,191	1,870,715	796,750	22,781,056
Total Demand Costs	5,316,501	5,324,065	5,418,719	5,377,406	5,417,286	5,487,393	5,368,159	5,906,006	5,495,260	5,333,684	5,357,369	4,281,864	64,083,711
Demand Rate	33,510,582	33,558,256	34,154,873	33,894,476	34,145,842	34,587,735	33,836,188	37,226,303	34,637,322	33,618,890	33,768,176	26,989,131	403,927,774
Power Sales	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	27.23015
Total Prod Fixed Charge	4,473,031	4,479,394	4,559,031	4,524,273	4,557,826	4,616,810	4,516,493	4,969,009	4,623,429	4,487,488	4,507,415	3,602,540	53,916,740
Variable:													
Fuel	1,079,911	947,586	775,585	806,752	1,325,824	1,527,173	1,947,211	1,700,654	2,178,930	952,718	1,033,016	1,042,747	15,318,106
Fuel Handling	155,355	152,199	154,191	174,500	160,034	151,261	154,520	158,879	158,498	171,757	169,492	162,757	1,923,444
Net Purchases	157,650	142,830	164,734	153,071	150,730	155,014	154,518	140,971	152,796	160,436	155,319	157,872	1,845,943
Fuel Carrying Charge	69,589	66,377	70,833	76,243	74,923	74,970	75,437	74,018	72,651	72,009	72,238	72,055	871,344
Miscellaneous Revenues													
O & M Expenses	308,033	317,638	425,902	370,630	348,666	325,524	310,895	315,964	314,854	393,049	359,309	317,315	4,107,779
Total Variable Costs	1,770,538	1,626,629	1,591,245	1,581,196	2,060,178	2,233,943	2,642,581	2,390,486	2,877,730	1,749,969	1,789,373	1,752,747	24,066,615
Unit Rate	10,771,903	9,713,172	9,431,030	9,386,347	12,675,007	13,928,705	17,059,938	15,161,466	17,947,177	10,679,363	10,761,291	10,299,630	147,815,029
Energy Sales	2.3350	2.3702	2.3844	2.3813	2.3140	2.2892	2.2254	2.2578	2.2888	2.3292	2.3567	2.4007	27.9326
Total Prod Variable Billed to NSPW	1,479,521	1,354,223	1,322,763	1,314,833	1,725,320	1,875,654	2,233,245	2,013,581	2,416,302	1,463,211	1,491,839	1,454,472	20,144,965
Total Prod Costs Billed	5,952,552	5,833,618	5,881,794	5,839,106	6,283,146	6,492,464	6,749,738	6,982,591	7,039,731	5,950,699	5,999,253	5,057,012	74,061,705
Transmission Expenses:													
Fixed:													
Fixed Charges	10,003,659	10,003,309	9,995,192	9,978,580	9,971,740	9,955,986	9,940,254	9,965,257	9,990,128	9,984,486	9,980,226	9,979,207	119,748,024
Miscellaneous Revenues	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(25,992)
O & M Expenses	1,018,445	1,180,367	1,053,977	1,153,827	1,356,825	1,208,890	1,342,638	1,384,388	1,327,382	1,373,501	1,185,536	1,398,322	14,984,099
Total Demand Costs	11,019,939	11,181,510	11,047,003	11,130,241	11,326,399	11,162,710	11,280,726	11,347,479	11,315,344	11,355,820	11,163,597	11,375,363	134,706,130
Demand Rate	69,460,073.43955	70,478,477.75211	69,630,662.75424	70,155,323.17981	71,391,733.08249	70,359,977.35678	71,103,846.38432	71,524,600.82126	71,322,053.21890	71,577,177.57120	70,365,567.88376	71,700,359.54291	849,069,852.98734
Power Sales	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	27.23015
Total Trans Fixed Billed	9,271,610	9,407,548	9,294,380	9,364,413	9,529,450	9,391,730	9,491,023	9,547,185	9,520,149	9,554,203	9,392,476	9,570,646	113,334,813
Total Costs Assigned	15,224,162	15,241,165	15,176,175	15,203,519	15,812,596	15,884,194	16,240,761	16,529,776	16,559,880	15,504,902	15,391,730	14,627,658	187,396,518

DA-3B

2018 Plan Year NSPW Interchange Bill

G1 - I/A Full Bill	Jan - 2018	Feb - 2018	Mar - 2018	Apr - 2018	May - 2018	Jun - 2018	Jul - 2018	Aug - 2018	Sep - 2018	Oct - 2018	Nov - 2018	Dec - 2018	2018
Demand CP													
NSPM	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	1010%
NSPW	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	190%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	1200%
Demand CP to use	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	190%
Demand Factor													
NSPM	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	1010%
NSPW	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	190%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	1200%
Energy Requirements:													
NSP (Minn) Adj for losses	84%	83%	83%	83%	84%	84%	85%	84%	84%	84%	83%	83%	1003%
NSP (Wisc) Adj for losses	16%	17%	17%	17%	16%	16%	15%	16%	16%	16%	17%	17%	197%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	1200%
Energy Requirements to use	16%	17%	17%	17%	16%	16%	15%	16%	16%	16%	17%	17%	197%
Production Expenses:													
Fixed:													
Fixed Charges	3,376,485	3,357,438	3,346,432	3,339,335	3,351,723	3,382,725	3,387,748	3,456,018	3,591,229	3,710,496	3,808,204	3,843,646	41,951,479
O & M Expenses	1,908,939	1,936,523	2,048,286	2,020,186	2,054,002	2,110,604	1,996,454	2,556,830	2,127,947	1,919,302	1,922,885	822,295	23,424,252
Total Demand Costs	5,285,424	5,293,960	5,394,718	5,359,522	5,405,725	5,493,329	5,384,202	6,012,848	5,719,176	5,629,798	5,731,088	4,665,941	65,375,731
Demand Rate	33,314,698	33,368,505	34,003,594	33,781,747	34,072,973	34,625,151	33,937,309	37,899,742	36,048,693	35,485,331	36,123,777	29,410,018	412,071,538
Power Sales	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	27.23015
Total Prod Fixed Charge	4,446,884	4,454,066	4,538,839	4,509,226	4,548,099	4,621,805	4,529,991	5,058,901	4,811,821	4,736,622	4,821,843	3,925,683	55,003,779
Variable:													
Fuel	1,079,911	947,586	775,585	806,752	1,325,824	1,527,173	1,947,211	1,700,654	2,178,930	952,718	1,033,016	1,042,747	15,318,106
Fuel Handling	155,693	152,406	154,269	174,813	160,231	151,341	154,840	159,073	158,568	172,061	169,674	162,943	1,925,912
Net Purchases	157,650	142,830	164,734	153,071	150,730	155,014	154,518	140,971	152,796	160,436	155,319	157,872	1,845,943
Fuel Carrying Charge	69,245	66,048	70,483	75,867	74,553	74,600	75,064	73,652	72,292	71,653	71,881	71,699	867,037
Miscellaneous Revenues													
O & M Expenses	314,983	324,467	434,883	379,078	356,206	332,173	317,929	322,738	321,223	401,966	367,091	324,131	4,196,868
Total Variable Costs	1,777,482	1,633,337	1,599,953	1,589,581	2,067,544	2,240,301	2,649,562	2,397,088	2,883,810	1,758,834	1,796,981	1,759,393	24,153,866
Unit Rate	10,814,150	9,753,227	9,482,644	9,436,121	12,720,328	13,968,348	17,105,007	15,203,340	17,985,094	10,733,462	10,807,044	10,338,680	148,347,445
Energy Sales	2.3350	2.3702	2.3844	2.3813	2.3140	2.2892	2.2254	2.2578	2.2888	2.3292	2.3567	2.4007	27.9326
Total Prod Variable Billed to NSPW	1,485,324	1,359,808	1,330,002	1,321,805	1,731,489	1,880,992	2,239,145	2,019,143	2,421,407	1,470,624	1,498,181	1,459,987	20,217,906
Total Prod Costs Billed	5,932,208	5,813,874	5,868,841	5,831,031	6,279,588	6,502,797	6,769,136	7,078,044	7,233,228	6,207,246	6,320,024	5,385,669	75,221,685
Transmission Expenses:													
Fixed:													
Fixed Charges	9,870,207	9,865,426	9,972,241	10,332,259	10,580,927	10,541,541	10,498,921	10,524,566	10,561,883	10,611,621	10,702,658	12,256,191	126,318,441
Miscellaneous Revenues	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(2,166)	(25,992)
O & M Expenses	1,038,176	1,203,441	1,071,727	1,177,553	1,384,224	1,230,963	1,371,773	1,413,070	1,352,510	1,403,256	1,208,581	1,426,559	15,281,834
Total Demand Costs	10,906,217	11,066,701	11,041,802	11,507,645	11,962,985	11,770,338	11,868,528	11,935,470	11,912,227	12,012,711	11,909,074	13,680,585	141,574,283
Demand Rate	68,743,269	69,754,822	69,597,884	72,534,151	75,404,212	74,189,936	74,808,841	75,230,783	75,084,281	75,717,642	75,064,404	86,230,464	892,360,689
Power Sales	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	2.26918	27.23015
Total Trans Fixed Billed	9,175,930	9,310,953	9,290,005	9,681,941	10,065,040	9,902,957	9,985,570	10,041,891	10,022,336	10,106,877	10,019,682	11,510,141	119,113,323
Total Costs Assigned	15,108,138	15,124,827	15,158,846	15,512,972	16,344,628	16,405,754	16,754,706	17,119,934	17,255,563	16,314,123	16,339,707	16,895,810	194,335,008

02-3C

2016-2018 Plan Year Interchange Expense
Bill from NSPW to NSPM

Reporting Line	Record Type	Account	Jurisdictional Allocator	Dec - 2016			Dec - 2017			Dec - 2018		
				Total	MN Electric	Other	Total	MN Electric	Other	Total	MN Electric	Other
Fuel	NSPM-Interchange Billings from NSPW (Exp)	55702-Other Power - IA Variable Expense Production	NSPM EEnergy	14,373,770	12,552,297	1,821,473	14,373,770	12,552,297	1,821,473	14,373,770	12,552,297	1,821,473
Fuel	NSPM-Interchange Billings from NSPW (Exp)	55702-Other Power - IA Variable Expense Production	NSPM EEnergy	730,098	637,578	92,519	728,715	636,371	92,344	725,113	633,225	91,888
Fuel	NSPM-Interchange Billings from NSPW (Exp)	55702-Other Power - IA Variable Expense Production	NSPM EEnergy	4,382,725	3,827,337	555,388	4,444,527	3,881,308	563,219	4,514,852	3,942,721	572,131
Fuel	NSPM-Interchange Billings from NSPW (Exp)	55702-Other Power - IA Variable Expense Production	NSPM EEnergy	613,374	535,646	77,728	597,953	522,179	75,774	604,172	527,610	76,562
			TOTAL VARIABLE PRODUCTION COSTS	**20,099,966**	**17,552,858**	**2,547,108**	**20,144,965**	**17,592,155**	**2,552,810**	**20,217,906**	**17,655,853**	**2,562,054**
Production	NSPM-Interchange Billings from NSPW (Exp)	55701-Other Power - IA Fixed Expense Production	NSPM EDemandProd	34,052,656	29,743,667	4,308,989	33,960,679	29,663,329	4,297,350	34,489,239	30,125,005	4,364,234
Production	NSPM-Interchange Billings from NSPW (Exp)	55701-Other Power - IA Fixed Expense Production	NSPM EDemandProd	16,519,494	14,429,134	2,090,360	17,014,517	14,861,517	2,153,000	17,540,334	15,320,797	2,219,536
Production	NSPM-Interchange Billings from NSPW (Exp)	55701-Other Power - IA Fixed Expense Production	NSPM EDemandProd	3,020,189	2,638,017	382,172	2,941,544	2,569,324	372,220	2,974,207	2,597,853	376,353
			TOTAL FIXED PRODUCTION COSTS	**53,592,339**	**46,810,818**	**6,781,521**	**53,916,740**	**47,094,170**	**6,822,570**	**55,003,779**	**48,043,656**	**6,960,123**
Transmission IA	NSPM-Interchange Billings from NSPW (Exp)	56601-Transm Intrchg Agree Exp	NSPM EDemandTran	98,948,277	86,427,461	12,520,816	100,509,547	87,791,170	12,718,378	106,032,765	92,615,485	13,417,280
Transmission IA	NSPM-Interchange Billings from NSPW (Exp)	56601-Transm Intrchg Agree Exp	NSPM EDemandTran	10,733,240	9,375,066	1,358,173	10,928,363	9,545,499	1,382,864	11,170,932	9,757,374	1,413,559
Transmission IA	NSPM-Interchange Billings from NSPW (Exp)	56601-Transm Intrchg Agree Exp	NSPM EDemandTran	1,315,934	1,149,417	166,517	1,293,080	1,129,455	163,625	1,291,419	1,128,004	163,415
Transmission IA	NSPM-Interchange Billings from NSPW (Exp)	56601-Transm Intrchg Agree Exp	NSPM EDemandTran	590,732	515,982	74,751	603,823	527,416	76,407	618,207	539,980	78,227
			TOTAL TRANSMISSION INTERCHANGE COSTS	**111,588,183**	**97,467,926**	**14,120,257**	**113,334,813**	**98,993,539**	**14,341,274**	**119,113,323**	**104,040,842**	**15,072,481**
			TOTAL INTERCHANGE COSTS	**185,280,489**	**161,831,603**	**23,448,886**	**187,396,518**	**163,679,863**	**23,716,654**	**194,335,008**	**169,740,351**	**24,594,657**

02-3D

2016 Test Year Interchange Expense
Bill from NSPW to NSPM - RIS Output

Account Major	Record Type	Object Account	Jurisdictional Allocator	Dec - 2016		
				Total	MN Electric	Other
557-Purchased Power Other	NSPM-Interchange Billings from NSPW (Exp)	637875-Prod Billing fr MN-Fix Non-Fue	NSPM EDemandProd	53,592,339	46,810,818	6,781,521
557-Purchased Power Other	NSPM-Interchange Billings from NSPW (Exp)	637880-Prod Billing fr MN-Var Non-Fue	NSPM EEnergy	5,726,196	5,000,561	725,635
557-Purchased Power Other	NSPM-Interchange Billings from NSPW (Exp)	637890-Variable IA Prod Expense (Fuel)	NSPM EEnergy	14,373,770	12,552,297	1,821,473
566-Trans Oper Misc Exp	NSPM-Interchange Billings from NSPW (Exp)	724020-Trans Interchange Expense	NSPM EDemandTran	111,588,183	97,467,926	14,120,257
			Total	**185,280,489**	**161,831,603**	**23,448,886**

O2-4 Windsource

2016 Test Year Windsource Purchased Power and Sales

Section	Entity	Variable	1/1/2016	2/1/2016	3/1/2016	4/1/2016	5/1/2016	6/1/2016	7/1/2016	8/1/2016	9/1/2016	10/1/2016	11/1/2016	12/1/2016	Annual
NSP 15.04.01 NSPW 2016	Wind Source Cisco	Cost ($000)													$ 1,417
NSP 15.04.01 NSPW 2016	Wind Source Garwin McNeilu:	Cost ($000)													$ 709
NSP 15.04.01 NSPW 2016	Wind Source JJN	Cost ($000)													$ 106
NSP 15.04.01 NSPW 2016	Wind Source MinWind	Cost ($000)													$ 1,020
NSP 15.04.01 NSPW 2016	Wind Source West Ridge	Cost ($000)													$ 924
	Total														$ 4,138

Section	Entity	Variable	Annual
NSP 15.04.01 NSPW 2016	Wind Source Cisco	Generation (GWh)	29
NSP 15.04.01 NSPW 2016	Wind Source Garwin McNeilu:	Generation (GWh)	22
NSP 15.04.01 NSPW 2016	Wind Source JJN	Generation (GWh)	3
NSP 15.04.01 NSPW 2016	Wind Source MinWind	Generation (GWh)	31
NSP 15.04.01 NSPW 2016	Wind Source West Ridge	Generation (GWh)	27
	Total		111

Section	Entity	Variable	Annual
NSP 15.04.01 NSPW 2016	Wind Moraine II	Cost ($000)	$ 9,536
NSP 15.04.01 NSPW 2016	Wind Moraine II	Generation (GWh)	165
	x% Moraine II	Fuel Cost ($000)	$ 286
	x% Moraine II	Generation (GWh)	5

		Annual
WindSource Projects		
Wind Moraine II	$/MWh	$ 57.90
Wind Source Cisco	$/MWh	$ 49.67
Wind Source Garwin McNeilu:	$/MWh	$ 32.36
Wind Source JJN	$/MWh	$ 33.50
Wind Source MinWind	$/MWh	$ 33.00
Wind Source West Ridge	$/MWh	$ 34.00
Total	$/MWh	$ 38.28
Total NSP-Resource Cost	$000	$ 4,424
Total NSP-Resource Sales	GWh	116
Total NSP-Resource $/MWh	$/MWh	$ 38.28
Fuel Cost assigned to REC's	$000	$ 834
	GWh	30
	$/MWh	$ 27.66

		1/1/2016	2/1/2016	3/1/2016	4/1/2016	5/1/2016	6/1/2016	7/1/2016	8/1/2016	9/1/2016	10/1/2016	11/1/2016	12/1/2016	Annual
Windsource Cost	$000	$ 456	$ 417	$ 437	$ 408	$ 459	$ 389	$ 463	$ 482	$ 455	$ 445	$ 412	$ 434	$ 5,258
Windsource Sales	GWh	12	11	12	11	12	11	13	14	13	12	11	12	146
Windsource Rate	$/MWh	$ 37.20	$ 37.25	$ 36.79	$ 37.17	$ 37.42	$ 34.83	$ 34.57	$ 33.66	$ 35.38	$ 36.34	$ 37.56	$ 35.68	**$ 36.08**
Target Windsource Sales	**GWh**	**12**	**11**	**12**	**11**	**12**	**11**	**13**	**14**	**13**	**12**	**11**	**12**	**146**

08-47

2016 Test Year Fuel Expenses - RIS Output

Record Type	Reporting Line	Account Major	Object Account	Dec - 2016 Total	MN Electric	Other
NSPM-Fuel Costs	Operating Expenses - Fuel	501-Stm Gen Fuel	611100-Gas for Other Gen	89,724,080	78,354,065	11,370,015
NSPM-Fuel Costs	Operating Expenses - Fuel	501-Stm Gen Fuel	612000-Oil-S3	783,664	684,356	99,307
NSPM-Fuel Costs	Operating Expenses - Fuel	501-Stm Gen Fuel	614000-Coal	317,837,471	277,560,471	40,277,000
NSPM-Fuel Costs	Operating Expenses - Fuel	501-Stm Gen Fuel	614200-Refuse Derived Fuel	1,223,935	1,068,835	155,099
NSPM-Fuel Costs	Operating Expenses - Fuel	501-Stm Gen Fuel	633400-Pur Pwr Gen Trading	65,816,077	57,475,732	8,340,345
NSPM-Fuel Costs	Operating Expenses - Fuel	518-Nuclear Fuel Expense	613000-Nuclear	116,513,863	101,748,993	14,764,870
NSPM-Fuel Costs	Operating Expenses - Fuel	547-Fuel - Other Power	611100-Gas for Other Gen	19,348,363	16,896,500	2,451,863
NSPM-Fuel Costs	Operating Expenses - Fuel	555-Purchased Power	632000-Pur Pwr-LT Energy	333,628,552	291,350,475	42,278,077
NSPM-Fuel Costs	Operating Expenses - Fuel	555-Purchased Power	632150-ASM Regulation Procurement	21,215,736	18,527,235	2,688,500
NSPM-Fuel Costs	Operating Expenses - Fuel	555-Purchased Power	634000-Pur Pwr-Wind	202,712,817	177,024,644	25,688,174
NSPM-Fuel Costs	Operating Expenses - Fuel	555-Purchased Power	634500-Purch Pwr - Solar	10,501,444	10,501,444	
NSPM-Fuel Costs	Operating Expenses - Fuel		Sub-Total Operating Expenses - Fuel	1,179,306,003	1,031,192,752	148,113,251
NSPM-Fuel Costs	Operating Expenses - Purchased Energy - Windsource	555-Purchased Power	634005-Pur Wind for Wind Recovery	5,258,492	5,258,492	
NSPM-Fuel Costs	Operating Expenses - Purchased Energy - Windsource		Sub-Total Operating Expenses - Purchased Energy - Windsource	5,258,492	5,258,492	
NSPM-Fuel Costs	Operating Expenses - Production - Variable	518-Nuclear Fuel Expense	613100-Nuclear Fuel End of Life	3,398,064	2,967,455	430,609
NSPM-Fuel Costs	Operating Expenses - Production - Variable		Sub-Total Operating Expenses - Production - Variable	3,398,064	2,967,455	430,609
NSPM-Fuel Costs	Operating Expenses - Production - Purchased Demand	555-Purchased Power	631000-Pur Pwr-Demand	154,139,924	134,635,212	19,504,712
NSPM-Fuel Costs	Operating Expenses - Production - Purchased Demand		Sub-Total Operating Expenses - Production - Purchased Demand	154,139,924	134,635,212	19,504,712
			TOTAL FUEL COSTS	**1,342,102,483**	**1,174,053,911**	**168,048,573**

02-19

O3. Amortizations

2016 Test Year Amortizations

	Dec - 2016		
	Total	MN Electric	Other
407-Amortization			
NSPM-PI EPU Deferral	2,884,079	2,884,079	
NSPM-Rate Case Amortizations	46,009,634	46,147,912	(138,278)
NSPM-Rate Case ExpenseAmortization	1,113,182	1,113,182	
NSPM-RES Rider Removal	(1,354,758)	(1,354,758)	
NSPM-Sherco 3 Deferral	503,130	503,130	
NSPM-TCR Rider Removal	(9,708,128)	(9,708,128)	
Total	**39,447,139**	**39,585,417**	**(138,278)**