



# Invoice

**Market Participant:** Minnesota Power  
30 West Superior Street  
Duluth, MN 55802

**Invoice Number:** 1585835

**For Statements Issued:** 01/12/2019-01/18/2019

**Invoice Date:** 01/22/2019

**Participant ID:** MPM

**Payment Due Date:** 01/29/2019

**Invoice Type:** Market Invoice

**Invoice Summary:**

**Total:**

Current S7 Net (Revenue)/Charge of Real Time and Day Ahead Markets:	<b>\$1,538,561.92</b>
S14 Prior Period Adjustments:	<b>(4,985.49)</b>
S55 Prior Period Adjustments:	<b>(1,349.41)</b>
S105 Prior Period Adjustments:	<b>(97.20)</b>
Other Adjustments:	<b>0.00</b>

<b>Total Net Charge (Revenue):</b>	<b>\$1,532,129.82</b>
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The Net Charge for this invoice is greater than the Net Revenue. Please make payment in immediately available funds on the payment due date.

**Electronic Banking Instructions:**

**ACH Payments**

JP Morgan Chase Bank, NA  
Indianapolis, IN  
ABA: 074000010  
ACCT: 693193260

**Wire Instructions**

JP Morgan Chase Bank, NA  
Indianapolis, IN  
ABA: 021000021  
ACCT: 693193260

**International Wire Instructions**

JP Morgan, Chase Bank, NA  
Indianapolis, IN  
Swift Code: CHASUS33  
ABA: 021000021  
ACCT: 693193260

**For all inquiries, please contact:**

MISO Client Relations  
ClientRelations@misoenergy.org



Midcontinent Independent System Operator, Inc.  
 P.O. Box 4202  
 Carmel, IN 46082-4202

Attachment 9

**Invoice**

**Market Participant:** Minnesota Power  
 30 West Superior Street  
 Duluth, MN 55802

**Invoice Number:** 1585835

**For Statements Issued:** 01/12/2019 - 01/18/2019

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Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
<b>Billing Period: S7</b>						
Asset Energy Amount	01/12/2019	01/05/2019	\$9,359.42	\$251,983.59	\$0.00	\$261,343.01
Asset Energy Amount	01/13/2019	01/06/2019	36,258.69	211,279.11	0.00	247,537.80
Asset Energy Amount	01/14/2019	01/07/2019	(27,658.28)	199,239.43	0.00	171,581.15
Asset Energy Amount	01/15/2019	01/08/2019	36,452.50	139,669.87	0.00	176,122.37
Asset Energy Amount	01/16/2019	01/09/2019	11,463.49	292,477.67	0.00	303,941.16
Asset Energy Amount	01/17/2019	01/10/2019	24,706.02	242,197.19	0.00	266,903.21
Asset Energy Amount	01/18/2019	01/11/2019	1,642.62	317,929.98	0.00	319,572.60
Distribution of Losses Amount	01/12/2019	01/05/2019	(8,916.20)	0.00	0.00	(8,916.20)
Distribution of Losses Amount	01/13/2019	01/06/2019	(9,903.74)	0.00	0.00	(9,903.74)
Distribution of Losses Amount	01/14/2019	01/07/2019	(11,113.00)	0.00	0.00	(11,113.00)
Distribution of Losses Amount	01/15/2019	01/08/2019	(13,296.09)	0.00	0.00	(13,296.09)
Distribution of Losses Amount	01/16/2019	01/09/2019	(10,799.38)	0.00	0.00	(10,799.38)
Distribution of Losses Amount	01/17/2019	01/10/2019	(9,437.45)	0.00	0.00	(9,437.45)
Distribution of Losses Amount	01/18/2019	01/11/2019	(9,899.14)	0.00	0.00	(9,899.14)
Excessive Deficient Energy Deployment Charge Amount	01/12/2019	01/05/2019	210.71	0.00	0.00	210.71
Excessive Deficient Energy Deployment Charge Amount	01/13/2019	01/06/2019	629.49	0.00	0.00	629.49
Excessive Deficient Energy Deployment Charge Amount	01/14/2019	01/07/2019	625.97	0.00	0.00	625.97
Excessive Deficient Energy Deployment Charge Amount	01/15/2019	01/08/2019	446.47	0.00	0.00	446.47
Excessive Deficient Energy Deployment Charge Amount	01/16/2019	01/09/2019	998.93	0.00	0.00	998.93
Excessive Deficient Energy Deployment Charge Amount	01/17/2019	01/10/2019	466.04	0.00	0.00	466.04
Excessive Deficient Energy Deployment Charge Amount	01/18/2019	01/11/2019	1,054.08	0.00	0.00	1,054.08
Excessive Energy Amount	01/12/2019	01/05/2019	(0.01)	0.00	0.00	(0.01)
Excessive Energy Amount	01/14/2019	01/07/2019	439.53	0.00	0.00	439.53
Excessive Energy Amount	01/15/2019	01/08/2019	(0.03)	0.00	0.00	(0.03)
Excessive Energy Amount	01/16/2019	01/09/2019	174.69	0.00	0.00	174.69
Excessive Energy Amount	01/17/2019	01/10/2019	46.52	0.00	0.00	46.52
Excessive Energy Amount	01/18/2019	01/11/2019	171.75	0.00	0.00	171.75
Financial Bilateral Transaction Congestion Amount	01/12/2019	01/05/2019	0.00	135.10	0.00	135.10
Financial Bilateral Transaction Congestion Amount	01/13/2019	01/06/2019	0.00	68.85	0.00	68.85
Financial Bilateral Transaction Congestion Amount	01/14/2019	01/07/2019	0.00	4,043.80	0.00	4,043.80

**Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:**

(Continued on Next Page)



Midcontinent Independent System Operator, Inc.  
 P.O. Box 4202  
 Carmel, IN 46082-4202

Attachment 9

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**Invoice Date:** 01/22/2019

**Participant ID:** MPM

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Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
<b>Billing Period: S7</b>						
Financial Bilateral Transaction Congestion Amount	01/15/2019	01/08/2019	\$0.00	\$10,707.75	\$0.00	\$10,707.75
Financial Bilateral Transaction Congestion Amount	01/16/2019	01/09/2019	0.00	3,350.55	0.00	3,350.55
Financial Bilateral Transaction Congestion Amount	01/17/2019	01/10/2019	0.00	822.15	0.00	822.15
Financial Bilateral Transaction Congestion Amount	01/18/2019	01/11/2019	0.00	1,818.10	0.00	1,818.10
Financial Bilateral Transaction Loss Amount	01/12/2019	01/05/2019	0.00	3,780.60	0.00	3,780.60
Financial Bilateral Transaction Loss Amount	01/13/2019	01/06/2019	0.00	1,446.70	0.00	1,446.70
Financial Bilateral Transaction Loss Amount	01/14/2019	01/07/2019	0.00	8,537.55	0.00	8,537.55
Financial Bilateral Transaction Loss Amount	01/15/2019	01/08/2019	0.00	8,460.55	0.00	8,460.55
Financial Bilateral Transaction Loss Amount	01/16/2019	01/09/2019	0.00	9,328.10	0.00	9,328.10
Financial Bilateral Transaction Loss Amount	01/17/2019	01/10/2019	0.00	9,028.45	0.00	9,028.45
Financial Bilateral Transaction Loss Amount	01/18/2019	01/11/2019	0.00	8,621.90	0.00	8,621.90
Net Inadvertent Distribution Amount	01/12/2019	01/05/2019	263.92	0.00	0.00	263.92
Net Inadvertent Distribution Amount	01/13/2019	01/06/2019	129.30	0.00	0.00	129.30
Net Inadvertent Distribution Amount	01/14/2019	01/07/2019	28.73	0.00	0.00	28.73
Net Inadvertent Distribution Amount	01/15/2019	01/08/2019	363.25	0.00	0.00	363.25
Net Inadvertent Distribution Amount	01/16/2019	01/09/2019	44.30	0.00	0.00	44.30
Net Inadvertent Distribution Amount	01/17/2019	01/10/2019	254.93	0.00	0.00	254.93
Net Inadvertent Distribution Amount	01/18/2019	01/11/2019	68.03	0.00	0.00	68.03
Net Regulation Adjustment Amount	01/12/2019	01/05/2019	5.59	0.00	0.00	5.59
Net Regulation Adjustment Amount	01/13/2019	01/06/2019	3.22	0.00	0.00	3.22
Net Regulation Adjustment Amount	01/14/2019	01/07/2019	13.81	0.00	0.00	13.81
Net Regulation Adjustment Amount	01/15/2019	01/08/2019	9.29	0.00	0.00	9.29
Net Regulation Adjustment Amount	01/16/2019	01/09/2019	6.96	0.00	0.00	6.96
Net Regulation Adjustment Amount	01/17/2019	01/10/2019	115.38	0.00	0.00	115.38
Net Regulation Adjustment Amount	01/18/2019	01/11/2019	214.64	0.00	0.00	214.64
Non-Asset Energy Amount	01/12/2019	01/05/2019	1,738.45	(37,202.62)	0.00	(35,464.17)
Non-Asset Energy Amount	01/13/2019	01/06/2019	(8.96)	(51,532.82)	0.00	(51,541.78)
Non-Asset Energy Amount	01/14/2019	01/07/2019	0.00	(40,737.56)	0.00	(40,737.56)
Non-Asset Energy Amount	01/15/2019	01/08/2019	0.00	(82,680.50)	0.00	(82,680.50)
Non-Asset Energy Amount	01/16/2019	01/09/2019	2,220.31	(58,103.18)	0.00	(55,882.87)

**Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:**

(Continued on Next Page)



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<b>Billing Period: S7</b>						
Non-Asset Energy Amount	01/17/2019	01/10/2019	\$1,892.60	(\$40,635.76)	\$0.00	(\$38,743.16)
Non-Asset Energy Amount	01/18/2019	01/11/2019	6,439.56	(37,935.82)	0.00	(31,496.26)
Non-Excessive Energy Amount	01/12/2019	01/05/2019	8,561.45	0.00	0.00	8,561.45
Non-Excessive Energy Amount	01/13/2019	01/06/2019	171,849.20	0.00	0.00	171,849.20
Non-Excessive Energy Amount	01/14/2019	01/07/2019	11,141.75	0.00	0.00	11,141.75
Non-Excessive Energy Amount	01/15/2019	01/08/2019	19,453.97	0.00	0.00	19,453.97
Non-Excessive Energy Amount	01/16/2019	01/09/2019	(20,971.32)	0.00	0.00	(20,971.32)
Non-Excessive Energy Amount	01/17/2019	01/10/2019	(22,639.17)	0.00	0.00	(22,639.17)
Non-Excessive Energy Amount	01/18/2019	01/11/2019	(7,817.37)	0.00	0.00	(7,817.37)
Price Volatility Make Whole Payment Amt	01/12/2019	01/05/2019	(2.94)	0.00	0.00	(2.94)
Price Volatility Make Whole Payment Amt	01/14/2019	01/07/2019	(19.36)	0.00	0.00	(19.36)
Regulation Amount	01/12/2019	01/05/2019	1,434.13	(2,674.40)	0.00	(1,240.27)
Regulation Amount	01/13/2019	01/06/2019	379.71	(1,442.72)	0.00	(1,063.01)
Regulation Amount	01/14/2019	01/07/2019	(431.54)	(921.87)	0.00	(1,353.41)
Regulation Amount	01/15/2019	01/08/2019	434.75	(975.18)	0.00	(540.43)
Regulation Amount	01/16/2019	01/09/2019	(229.45)	(1,621.91)	0.00	(1,851.36)
Regulation Amount	01/17/2019	01/10/2019	671.01	(2,426.38)	0.00	(1,755.37)
Regulation Amount	01/18/2019	01/11/2019	718.11	(2,258.19)	0.00	(1,540.08)
Regulation Cost Distribution Amount	01/12/2019	01/05/2019	1,005.25	0.00	0.00	1,005.25
Regulation Cost Distribution Amount	01/13/2019	01/06/2019	1,006.91	0.00	0.00	1,006.91
Regulation Cost Distribution Amount	01/14/2019	01/07/2019	744.94	0.00	0.00	744.94
Regulation Cost Distribution Amount	01/15/2019	01/08/2019	638.33	0.00	0.00	638.33
Regulation Cost Distribution Amount	01/16/2019	01/09/2019	907.01	0.00	0.00	907.01
Regulation Cost Distribution Amount	01/17/2019	01/10/2019	890.91	0.00	0.00	890.91
Regulation Cost Distribution Amount	01/18/2019	01/11/2019	733.44	0.00	0.00	733.44
Resource Adequacy Auction Amount	01/12/2019	01/05/2019	(10.95)	0.00	0.00	(10.95)
Resource Adequacy Auction Amount	01/13/2019	01/06/2019	(10.95)	0.00	0.00	(10.95)
Resource Adequacy Auction Amount	01/14/2019	01/07/2019	(10.95)	0.00	0.00	(10.95)
Resource Adequacy Auction Amount	01/15/2019	01/08/2019	(10.95)	0.00	0.00	(10.95)
Resource Adequacy Auction Amount	01/16/2019	01/09/2019	(10.95)	0.00	0.00	(10.95)

**Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:**

(Continued on Next Page)



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P.O. Box 4202  
Carmel, IN 46082-4202

Attachment 9

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Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
<b>Billing Period: S7</b>						
Resource Adequacy Auction Amount	01/17/2019	01/10/2019	(\$10.95)	\$0.00	\$0.00	(\$10.95)
Resource Adequacy Auction Amount	01/18/2019	01/11/2019	(10.95)	0.00	0.00	(10.95)
Revenue Neutrality Uplift Amount	01/12/2019	01/05/2019	(476.85)	0.00	0.00	(476.85)
Revenue Neutrality Uplift Amount	01/13/2019	01/06/2019	(379.92)	0.00	0.00	(379.92)
Revenue Neutrality Uplift Amount	01/14/2019	01/07/2019	(527.45)	0.00	0.00	(527.45)
Revenue Neutrality Uplift Amount	01/15/2019	01/08/2019	(673.11)	0.00	0.00	(673.11)
Revenue Neutrality Uplift Amount	01/16/2019	01/09/2019	(208.43)	0.00	0.00	(208.43)
Revenue Neutrality Uplift Amount	01/17/2019	01/10/2019	(855.30)	0.00	0.00	(855.30)
Revenue Neutrality Uplift Amount	01/18/2019	01/11/2019	768.37	0.00	0.00	768.37
Revenue Sufficiency Guarantee Distribution Amount	01/12/2019	01/05/2019	0.00	266.42	0.00	266.42
Revenue Sufficiency Guarantee Distribution Amount	01/13/2019	01/06/2019	0.00	560.15	0.00	560.15
Revenue Sufficiency Guarantee Distribution Amount	01/14/2019	01/07/2019	0.00	410.75	0.00	410.75
Revenue Sufficiency Guarantee Distribution Amount	01/15/2019	01/08/2019	0.00	355.90	0.00	355.90
Revenue Sufficiency Guarantee Distribution Amount	01/16/2019	01/09/2019	0.00	529.03	0.00	529.03
Revenue Sufficiency Guarantee Distribution Amount	01/17/2019	01/10/2019	0.00	2,321.54	0.00	2,321.54
Revenue Sufficiency Guarantee Distribution Amount	01/18/2019	01/11/2019	0.00	653.23	0.00	653.23
Revenue Sufficiency Guarantee First Pass Dist Amount	01/16/2019	01/09/2019	53.29	0.00	0.00	53.29
Revenue Sufficiency Guarantee First Pass Dist Amount	01/17/2019	01/10/2019	698.33	0.00	0.00	698.33
Revenue Sufficiency Guarantee First Pass Dist Amount	01/18/2019	01/11/2019	1,387.52	0.00	0.00	1,387.52
Revenue Sufficiency Guarantee Make Whole Payment Amt	01/12/2019	01/05/2019	0.00	(284.38)	0.00	(284.38)
Revenue Sufficiency Guarantee Make Whole Payment Amt	01/13/2019	01/06/2019	0.00	(341.11)	0.00	(341.11)
Revenue Sufficiency Guarantee Make Whole Payment Amt	01/14/2019	01/07/2019	0.00	(76.47)	0.00	(76.47)
Revenue Sufficiency Guarantee Make Whole Payment Amt	01/15/2019	01/08/2019	0.00	(61.83)	0.00	(61.83)
Revenue Sufficiency Guarantee Make Whole Payment Amt	01/16/2019	01/09/2019	0.00	(40.87)	0.00	(40.87)
Revenue Sufficiency Guarantee Make Whole Payment Amt	01/18/2019	01/11/2019	0.00	(0.70)	0.00	(0.70)
Schedule 24 Allocation Amount	01/12/2019	01/05/2019	37.84	647.95	0.00	685.79
Schedule 24 Allocation Amount	01/13/2019	01/06/2019	154.56	668.59	0.00	823.15
Schedule 24 Allocation Amount	01/14/2019	01/07/2019	53.60	700.50	0.00	754.10
Schedule 24 Allocation Amount	01/15/2019	01/08/2019	49.85	713.27	0.00	763.12
Schedule 24 Allocation Amount	01/16/2019	01/09/2019	50.92	664.44	0.00	715.36

**Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:**

(Continued on Next Page)



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<b>Billing Period: S7</b>						
Schedule 24 Allocation Amount	01/17/2019	01/10/2019	\$41.83	\$686.59	\$0.00	\$728.42
Schedule 24 Allocation Amount	01/18/2019	01/11/2019	40.41	637.44	0.00	677.85
Schedule 24 Distribution Amount	01/12/2019	01/05/2019	(4,261.44)	0.00	0.00	(4,261.44)
Schedule 24 Distribution Amount	01/13/2019	01/06/2019	(4,278.25)	0.00	0.00	(4,278.25)
Schedule 24 Distribution Amount	01/14/2019	01/07/2019	(4,470.49)	0.00	0.00	(4,470.49)
Schedule 24 Distribution Amount	01/15/2019	01/08/2019	(4,528.88)	0.00	0.00	(4,528.88)
Schedule 24 Distribution Amount	01/16/2019	01/09/2019	(4,831.52)	0.00	0.00	(4,831.52)
Schedule 24 Distribution Amount	01/17/2019	01/10/2019	(4,996.44)	0.00	0.00	(4,996.44)
Schedule 24 Distribution Amount	01/18/2019	01/11/2019	(4,820.40)	0.00	0.00	(4,820.40)
Spinning Reserve Amount	01/12/2019	01/05/2019	131.78	(868.70)	0.00	(736.92)
Spinning Reserve Amount	01/13/2019	01/06/2019	(2.78)	(316.14)	0.00	(318.92)
Spinning Reserve Amount	01/14/2019	01/07/2019	546.98	(1,015.12)	0.00	(468.14)
Spinning Reserve Amount	01/15/2019	01/08/2019	277.24	(860.69)	0.00	(583.45)
Spinning Reserve Amount	01/16/2019	01/09/2019	545.18	(1,917.88)	0.00	(1,372.70)
Spinning Reserve Amount	01/17/2019	01/10/2019	3.99	(1,925.22)	0.00	(1,921.23)
Spinning Reserve Amount	01/18/2019	01/11/2019	500.81	(1,770.43)	0.00	(1,269.62)
Spinning Reserve Cost Distribution Amount	01/12/2019	01/05/2019	665.16	0.00	0.00	665.16
Spinning Reserve Cost Distribution Amount	01/13/2019	01/06/2019	233.55	0.00	0.00	233.55
Spinning Reserve Cost Distribution Amount	01/14/2019	01/07/2019	657.93	0.00	0.00	657.93
Spinning Reserve Cost Distribution Amount	01/15/2019	01/08/2019	640.74	0.00	0.00	640.74
Spinning Reserve Cost Distribution Amount	01/16/2019	01/09/2019	1,138.92	0.00	0.00	1,138.92
Spinning Reserve Cost Distribution Amount	01/17/2019	01/10/2019	1,358.11	0.00	0.00	1,358.11
Spinning Reserve Cost Distribution Amount	01/18/2019	01/11/2019	1,193.58	0.00	0.00	1,193.58
Supplemental Reserve Amount	01/12/2019	01/05/2019	(2.23)	0.00	0.00	(2.23)
Supplemental Reserve Amount	01/13/2019	01/06/2019	(6.20)	(13.46)	0.00	(19.66)
Supplemental Reserve Amount	01/14/2019	01/07/2019	(1.79)	0.00	0.00	(1.79)
Supplemental Reserve Amount	01/15/2019	01/08/2019	(1.58)	0.00	0.00	(1.58)
Supplemental Reserve Amount	01/16/2019	01/09/2019	(0.17)	0.00	0.00	(0.17)
Supplemental Reserve Amount	01/17/2019	01/10/2019	(0.15)	0.00	0.00	(0.15)
Supplemental Reserve Amount	01/18/2019	01/11/2019	(2.42)	0.00	0.00	(2.42)

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<b>Billing Period: S7</b>						
Supplemental Reserve Cost Distribution Amount	01/12/2019	01/05/2019	\$142.03	\$0.00	\$0.00	\$142.03
Supplemental Reserve Cost Distribution Amount	01/13/2019	01/06/2019	154.20	0.00	0.00	154.20
Supplemental Reserve Cost Distribution Amount	01/14/2019	01/07/2019	166.99	0.00	0.00	166.99
Supplemental Reserve Cost Distribution Amount	01/15/2019	01/08/2019	169.43	0.00	0.00	169.43
Supplemental Reserve Cost Distribution Amount	01/16/2019	01/09/2019	127.12	0.00	0.00	127.12
Supplemental Reserve Cost Distribution Amount	01/17/2019	01/10/2019	168.29	0.00	0.00	168.29
Supplemental Reserve Cost Distribution Amount	01/18/2019	01/11/2019	159.64	0.00	0.00	159.64
Transmission Guarantee Uplift Amount	01/12/2019	01/05/2019	0.00	0.00	0.01	0.01
Transmission Guarantee Uplift Amount	01/13/2019	01/06/2019	0.00	0.00	0.08	0.08
Transmission Guarantee Uplift Amount	01/14/2019	01/07/2019	0.00	0.00	23.95	23.95
Transmission Guarantee Uplift Amount	01/15/2019	01/08/2019	0.00	0.00	30.75	30.75
Transmission Guarantee Uplift Amount	01/16/2019	01/09/2019	0.00	0.00	10.64	10.64
Transmission Guarantee Uplift Amount	01/17/2019	01/10/2019	0.00	0.00	25.10	25.10
Transmission Guarantee Uplift Amount	01/18/2019	01/11/2019	0.00	0.00	11.70	11.70
Transmission Rights Full Funding Guarantee Amount	01/12/2019	01/05/2019	0.00	0.00	(0.01)	(0.01)
Transmission Rights Full Funding Guarantee Amount	01/13/2019	01/06/2019	0.00	0.00	(0.08)	(0.08)
Transmission Rights Full Funding Guarantee Amount	01/14/2019	01/07/2019	0.00	0.00	(23.95)	(23.95)
Transmission Rights Full Funding Guarantee Amount	01/15/2019	01/08/2019	0.00	0.00	(30.75)	(30.75)
Transmission Rights Full Funding Guarantee Amount	01/16/2019	01/09/2019	0.00	0.00	(10.64)	(10.64)
Transmission Rights Full Funding Guarantee Amount	01/17/2019	01/10/2019	0.00	0.00	(25.10)	(25.10)
Transmission Rights Full Funding Guarantee Amount	01/18/2019	01/11/2019	0.00	0.00	(11.70)	(11.70)
Transmission Rights Hourly Allocation Amount	01/12/2019	01/05/2019	0.00	0.00	(264.98)	(264.98)
Transmission Rights Hourly Allocation Amount	01/13/2019	01/06/2019	0.00	0.00	(1,280.14)	(1,280.14)
Transmission Rights Hourly Allocation Amount	01/14/2019	01/07/2019	0.00	0.00	(1,182.97)	(1,182.97)
Transmission Rights Hourly Allocation Amount	01/15/2019	01/08/2019	0.00	0.00	(3,862.58)	(3,862.58)
Transmission Rights Hourly Allocation Amount	01/16/2019	01/09/2019	0.00	0.00	(924.82)	(924.82)
Transmission Rights Hourly Allocation Amount	01/17/2019	01/10/2019	0.00	0.00	(479.14)	(479.14)
Transmission Rights Hourly Allocation Amount	01/18/2019	01/11/2019	0.00	0.00	(846.70)	(846.70)
<b>Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:</b>			<b>\$183,302.37</b>	<b>\$1,364,100.88</b>	<b>(\$8,841.33)</b>	<b>\$1,538,561.92</b>



Midcontinent Independent System Operator, Inc.  
 P.O. Box 4202  
 Carmel, IN 46082-4202

Attachment 9

**Invoice**

**Market Participant:** Minnesota Power  
 30 West Superior Street  
 Duluth, MN 55802

**Invoice Number:** 1585835

**For Statements Issued:** 01/12/2019 - 01/18/2019

**Invoice Date:** 01/22/2019

**Participant ID:** MPM

**Payment Due Date:** 01/29/2019

**Invoice Type:** Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
<b>Billing Period: S14</b>						
Asset Energy Amount	01/16/2019	01/02/2019	\$24,751.41	\$0.00	\$0.00	\$24,751.41
Asset Energy Amount	01/18/2019	01/04/2019	50.87	0.00	0.00	50.87
Asset Energy Amount	01/12/2019	12/29/2018	(1,677.68)	0.00	0.00	(1,677.68)
Asset Energy Amount	01/13/2019	12/30/2018	(323.69)	0.00	0.00	(323.69)
Asset Energy Amount	01/14/2019	12/31/2018	398.11	0.00	0.00	398.11
Auction Revenue Rights Infeasible Uplift Amount	01/15/2019	01/01/2019	0.00	0.00	0.86	0.86
Auction Revenue Rights Stage 2 Distribution Amount	01/15/2019	01/01/2019	0.00	0.00	0.01	0.01
Distribution of Losses Amount	01/15/2019	01/01/2019	(15.27)	0.00	0.00	(15.27)
Distribution of Losses Amount	01/16/2019	01/02/2019	(1,161.03)	0.00	0.00	(1,161.03)
Distribution of Losses Amount	01/17/2019	01/03/2019	12.11	0.00	0.00	12.11
Distribution of Losses Amount	01/18/2019	01/04/2019	14.56	0.00	0.00	14.56
Distribution of Losses Amount	01/12/2019	12/29/2018	75.97	0.00	0.00	75.97
Distribution of Losses Amount	01/13/2019	12/30/2018	0.14	0.00	0.00	0.14
Distribution of Losses Amount	01/14/2019	12/31/2018	(3,988.73)	0.00	0.00	(3,988.73)
Excessive Deficient Energy Deployment Charge Amount	01/15/2019	01/01/2019	(0.03)	0.00	0.00	(0.03)
Excessive Deficient Energy Deployment Charge Amount	01/16/2019	01/02/2019	(268.59)	0.00	0.00	(268.59)
Excessive Deficient Energy Deployment Charge Amount	01/18/2019	01/04/2019	0.12	0.00	0.00	0.12
Excessive Deficient Energy Deployment Charge Amount	01/12/2019	12/29/2018	(117.74)	0.00	0.00	(117.74)
Excessive Deficient Energy Deployment Charge Amount	01/13/2019	12/30/2018	0.32	0.00	0.00	0.32
Excessive Deficient Energy Deployment Charge Amount	01/14/2019	12/31/2018	(0.05)	0.00	0.00	(0.05)
Excessive Energy Amount	01/16/2019	01/02/2019	2,383.21	0.00	0.00	2,383.21
Excessive Energy Amount	01/12/2019	12/29/2018	2,802.06	0.00	0.00	2,802.06
MVP Distribution Amount	01/14/2019	12/31/2018	(54.39)	0.00	0.00	(54.39)
Net Inadvertent Distribution Amount	01/15/2019	01/01/2019	3.90	0.00	0.00	3.90
Net Inadvertent Distribution Amount	01/16/2019	01/02/2019	(350.15)	0.00	0.00	(350.15)
Net Inadvertent Distribution Amount	01/17/2019	01/03/2019	(240.80)	0.00	0.00	(240.80)
Net Inadvertent Distribution Amount	01/18/2019	01/04/2019	(263.35)	0.00	0.00	(263.35)
Net Inadvertent Distribution Amount	01/12/2019	12/29/2018	(14.71)	0.00	0.00	(14.71)
Net Inadvertent Distribution Amount	01/13/2019	12/30/2018	2.93	0.00	0.00	2.93
Net Inadvertent Distribution Amount	01/14/2019	12/31/2018	(1,816.83)	0.00	0.00	(1,816.83)
<b>Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:</b>						(Continued on Next Page)





Midcontinent Independent System Operator, Inc.  
 P.O. Box 4202  
 Carmel, IN 46082-4202

**Invoice**

**Market Participant:** Minnesota Power  
 30 West Superior Street  
 Duluth, MN 55802

**Invoice Number:** 1585835

**For Statements Issued:** 01/12/2019 - 01/18/2019

**Invoice Date:** 01/22/2019

**Participant ID:** MPM

**Payment Due Date:** 01/29/2019

**Invoice Type:** Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
<b>Billing Period: S14</b>						
Net Regulation Adjustment Amount	01/16/2019	01/02/2019	\$3.51	\$0.00	\$0.00	\$3.51
Net Regulation Adjustment Amount	01/12/2019	12/29/2018	(56.29)	0.00	0.00	(56.29)
Non-Asset Energy Amount	01/16/2019	01/02/2019	(145.44)	0.00	0.00	(145.44)
Non-Asset Energy Amount	01/12/2019	12/29/2018	(2,112.66)	0.00	0.00	(2,112.66)
Non-Excessive Energy Amount	01/16/2019	01/02/2019	(25,789.74)	0.00	0.00	(25,789.74)
Non-Excessive Energy Amount	01/18/2019	01/04/2019	35.78	0.00	0.00	35.78
Non-Excessive Energy Amount	01/12/2019	12/29/2018	(308.49)	0.00	0.00	(308.49)
Non-Excessive Energy Amount	01/13/2019	12/30/2018	227.20	0.00	0.00	227.20
Regulation Cost Distribution Amount	01/15/2019	01/01/2019	(0.28)	0.00	0.00	(0.28)
Regulation Cost Distribution Amount	01/16/2019	01/02/2019	41.40	0.00	0.00	41.40
Regulation Cost Distribution Amount	01/17/2019	01/03/2019	(3.87)	0.00	0.00	(3.87)
Regulation Cost Distribution Amount	01/18/2019	01/04/2019	(7.03)	0.00	0.00	(7.03)
Regulation Cost Distribution Amount	01/12/2019	12/29/2018	2.67	0.00	0.00	2.67
Regulation Cost Distribution Amount	01/13/2019	12/30/2018	4.24	0.00	0.00	4.24
Regulation Cost Distribution Amount	01/14/2019	12/31/2018	(0.18)	0.00	0.00	(0.18)
Revenue Neutrality Uplift Amount	01/15/2019	01/01/2019	1.01	0.00	0.00	1.01
Revenue Neutrality Uplift Amount	01/16/2019	01/02/2019	(117.13)	0.00	0.00	(117.13)
Revenue Neutrality Uplift Amount	01/17/2019	01/03/2019	312.32	0.00	0.00	312.32
Revenue Neutrality Uplift Amount	01/18/2019	01/04/2019	372.49	0.00	0.00	372.49
Revenue Neutrality Uplift Amount	01/12/2019	12/29/2018	6.96	0.00	0.00	6.96
Revenue Neutrality Uplift Amount	01/13/2019	12/30/2018	(18.23)	0.00	0.00	(18.23)
Revenue Neutrality Uplift Amount	01/14/2019	12/31/2018	2,539.80	0.00	0.00	2,539.80
Revenue Sufficiency Guarantee Distribution Amount	01/15/2019	01/01/2019	0.00	0.01	0.00	0.01
Revenue Sufficiency Guarantee Distribution Amount	01/16/2019	01/02/2019	0.00	(20.60)	0.00	(20.60)
Revenue Sufficiency Guarantee Distribution Amount	01/17/2019	01/03/2019	0.00	(0.02)	0.00	(0.02)
Revenue Sufficiency Guarantee Distribution Amount	01/18/2019	01/04/2019	0.00	0.34	0.00	0.34
Revenue Sufficiency Guarantee Distribution Amount	01/13/2019	12/30/2018	0.00	(5.72)	0.00	(5.72)
Revenue Sufficiency Guarantee Distribution Amount	01/14/2019	12/31/2018	0.00	(4.94)	0.00	(4.94)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/15/2019	01/01/2019	2.89	0.00	0.00	2.89
Revenue Sufficiency Guarantee First Pass Dist Amount	01/16/2019	01/02/2019	(248.14)	0.00	0.00	(248.14)

**Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:**

(Continued on Next Page)



Midcontinent Independent System Operator, Inc.  
P.O. Box 4202  
Carmel, IN 46082-4202

**Invoice**

**Market Participant:** Minnesota Power  
30 West Superior Street  
Duluth, MN 55802

**Invoice Number:** 1585835

**For Statements Issued:** 01/12/2019 - 01/18/2019

**Invoice Date:** 01/22/2019

**Participant ID:** MPM

**Payment Due Date:** 01/29/2019

**Invoice Type:** Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
<b>Billing Period: S14</b>						
Revenue Sufficiency Guarantee First Pass Dist Amount	01/17/2019	01/03/2019	\$23.66	\$0.00	\$0.00	\$23.66
Revenue Sufficiency Guarantee First Pass Dist Amount	01/18/2019	01/04/2019	23.94	0.00	0.00	23.94
Revenue Sufficiency Guarantee First Pass Dist Amount	01/12/2019	12/29/2018	(12.78)	0.00	0.00	(12.78)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/14/2019	12/31/2018	(0.07)	0.00	0.00	(0.07)
Schedule 24 Allocation Amount	01/16/2019	01/02/2019	(4.92)	0.00	0.00	(4.92)
Schedule 24 Allocation Amount	01/18/2019	01/04/2019	(0.01)	0.00	0.00	(0.01)
Schedule 24 Allocation Amount	01/12/2019	12/29/2018	(10.07)	0.00	0.00	(10.07)
Schedule 24 Allocation Amount	01/13/2019	12/30/2018	(0.15)	0.00	0.00	(0.15)
Schedule 24 Allocation Amount	01/14/2019	12/31/2018	0.23	0.00	0.00	0.23
Schedule 24 Distribution Amount	01/15/2019	01/01/2019	1.71	0.00	0.00	1.71
Schedule 24 Distribution Amount	01/16/2019	01/02/2019	4.50	0.00	0.00	4.50
Schedule 24 Distribution Amount	01/17/2019	01/03/2019	0.96	0.00	0.00	0.96
Schedule 24 Distribution Amount	01/18/2019	01/04/2019	(0.96)	0.00	0.00	(0.96)
Schedule 24 Distribution Amount	01/12/2019	12/29/2018	3.54	0.00	0.00	3.54
Schedule 24 Distribution Amount	01/13/2019	12/30/2018	12.96	0.00	0.00	12.96
Schedule 24 Distribution Amount	01/14/2019	12/31/2018	7.82	0.00	0.00	7.82
Spinning Reserve Cost Distribution Amount	01/15/2019	01/01/2019	(0.26)	0.00	0.00	(0.26)
Spinning Reserve Cost Distribution Amount	01/16/2019	01/02/2019	44.26	0.00	0.00	44.26
Spinning Reserve Cost Distribution Amount	01/17/2019	01/03/2019	0.54	0.00	0.00	0.54
Spinning Reserve Cost Distribution Amount	01/18/2019	01/04/2019	0.47	0.00	0.00	0.47
Spinning Reserve Cost Distribution Amount	01/12/2019	12/29/2018	0.83	0.00	0.00	0.83
Spinning Reserve Cost Distribution Amount	01/13/2019	12/30/2018	0.10	0.00	0.00	0.10
Spinning Reserve Cost Distribution Amount	01/14/2019	12/31/2018	(0.68)	0.00	0.00	(0.68)
Supplemental Reserve Cost Distribution Amount	01/16/2019	01/02/2019	3.51	0.00	0.00	3.51
Supplemental Reserve Cost Distribution Amount	01/18/2019	01/04/2019	0.01	0.00	0.00	0.01
Supplemental Reserve Cost Distribution Amount	01/12/2019	12/29/2018	(0.10)	0.00	0.00	(0.10)
Supplemental Reserve Cost Distribution Amount	01/13/2019	12/30/2018	(0.02)	0.00	0.00	(0.02)
Supplemental Reserve Cost Distribution Amount	01/14/2019	12/31/2018	0.09	0.00	0.00	0.09
<b>Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:</b>			<b>(\$4,955.43)</b>	<b>(\$30.93)</b>	<b>\$0.87</b>	<b>(\$4,985.49)</b>



Midcontinent Independent System Operator, Inc.  
 P.O. Box 4202  
 Carmel, IN 46082-4202

Attachment 9

**Invoice**

**Market Participant:** Minnesota Power  
 30 West Superior Street  
 Duluth, MN 55802

**Invoice Number:** 1585835

**For Statements Issued:** 01/12/2019 - 01/18/2019

**Invoice Date:** 01/22/2019

**Participant ID:** MPM

**Payment Due Date:** 01/29/2019

**Invoice Type:** Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
<b>Billing Period: S55</b>						
Asset Energy Amount	01/12/2019	11/18/2018	\$151.76	\$0.00	\$0.00	\$151.76
Asset Energy Amount	01/13/2019	11/19/2018	301.38	0.00	0.00	301.38
Asset Energy Amount	01/14/2019	11/20/2018	204.66	0.00	0.00	204.66
Asset Energy Amount	01/15/2019	11/21/2018	124.56	0.00	0.00	124.56
Asset Energy Amount	01/16/2019	11/22/2018	(881.54)	0.00	0.00	(881.54)
Asset Energy Amount	01/17/2019	11/23/2018	(734.60)	0.00	0.00	(734.60)
Asset Energy Amount	01/18/2019	11/24/2018	(1,747.82)	0.00	0.00	(1,747.82)
Distribution of Losses Amount	01/12/2019	11/18/2018	155.43	0.00	0.00	155.43
Distribution of Losses Amount	01/13/2019	11/19/2018	624.84	0.00	0.00	624.84
Distribution of Losses Amount	01/14/2019	11/20/2018	320.34	0.00	0.00	320.34
Distribution of Losses Amount	01/15/2019	11/21/2018	92.80	0.00	0.00	92.80
Distribution of Losses Amount	01/16/2019	11/22/2018	2,623.53	0.00	0.00	2,623.53
Distribution of Losses Amount	01/17/2019	11/23/2018	75.54	0.00	0.00	75.54
Distribution of Losses Amount	01/18/2019	11/24/2018	102.93	0.00	0.00	102.93
Excessive Deficient Energy Deployment Charge Amount	01/12/2019	11/18/2018	0.13	0.00	0.00	0.13
Excessive Deficient Energy Deployment Charge Amount	01/13/2019	11/19/2018	0.22	0.00	0.00	0.22
Excessive Deficient Energy Deployment Charge Amount	01/14/2019	11/20/2018	0.18	0.00	0.00	0.18
Excessive Deficient Energy Deployment Charge Amount	01/15/2019	11/21/2018	0.10	0.00	0.00	0.10
Excessive Deficient Energy Deployment Charge Amount	01/16/2019	11/22/2018	0.22	0.00	0.00	0.22
Excessive Deficient Energy Deployment Charge Amount	01/17/2019	11/23/2018	0.06	0.00	0.00	0.06
Excessive Deficient Energy Deployment Charge Amount	01/18/2019	11/24/2018	0.07	0.00	0.00	0.07
Net Inadvertent Distribution Amount	01/12/2019	11/18/2018	(275.83)	0.00	0.00	(275.83)
Net Inadvertent Distribution Amount	01/13/2019	11/19/2018	32.26	0.00	0.00	32.26
Net Inadvertent Distribution Amount	01/14/2019	11/20/2018	126.16	0.00	0.00	126.16
Net Inadvertent Distribution Amount	01/15/2019	11/21/2018	79.92	0.00	0.00	79.92
Net Inadvertent Distribution Amount	01/16/2019	11/22/2018	1,825.48	0.00	0.00	1,825.48
Net Inadvertent Distribution Amount	01/17/2019	11/23/2018	120.16	0.00	0.00	120.16
Net Inadvertent Distribution Amount	01/18/2019	11/24/2018	114.13	0.00	0.00	114.13
Regulation Cost Distribution Amount	01/12/2019	11/18/2018	1.42	0.00	0.00	1.42
Regulation Cost Distribution Amount	01/13/2019	11/19/2018	1.20	0.00	0.00	1.20

**Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:**

(Continued on Next Page)



Midcontinent Independent System Operator, Inc.  
 P.O. Box 4202  
 Carmel, IN 46082-4202

Attachment 9

**Invoice**

**Market Participant:** Minnesota Power  
 30 West Superior Street  
 Duluth, MN 55802

**Invoice Number:** 1585835

**For Statements Issued:** 01/12/2019 - 01/18/2019

**Invoice Date:** 01/22/2019

**Participant ID:** MPM

**Payment Due Date:** 01/29/2019

**Invoice Type:** Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
<b>Billing Period: S55</b>						
Regulation Cost Distribution Amount	01/14/2019	11/20/2018	(\$4.95)	\$0.00	\$0.00	(\$4.95)
Regulation Cost Distribution Amount	01/15/2019	11/21/2018	1.26	0.00	0.00	1.26
Regulation Cost Distribution Amount	01/16/2019	11/22/2018	(0.32)	0.00	0.00	(0.32)
Regulation Cost Distribution Amount	01/17/2019	11/23/2018	(0.96)	0.00	0.00	(0.96)
Regulation Cost Distribution Amount	01/18/2019	11/24/2018	(2.64)	0.00	0.00	(2.64)
Revenue Neutrality Uplift Amount	01/12/2019	11/18/2018	347.80	0.00	0.00	347.80
Revenue Neutrality Uplift Amount	01/13/2019	11/19/2018	7.39	0.00	0.00	7.39
Revenue Neutrality Uplift Amount	01/14/2019	11/20/2018	(1,565.85)	0.00	0.00	(1,565.85)
Revenue Neutrality Uplift Amount	01/15/2019	11/21/2018	(830.46)	0.00	0.00	(830.46)
Revenue Neutrality Uplift Amount	01/16/2019	11/22/2018	(3,049.10)	0.00	0.00	(3,049.10)
Revenue Neutrality Uplift Amount	01/17/2019	11/23/2018	(166.21)	0.00	0.00	(166.21)
Revenue Neutrality Uplift Amount	01/18/2019	11/24/2018	(105.88)	0.00	0.00	(105.88)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/12/2019	11/18/2018	(0.30)	0.00	0.00	(0.30)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/13/2019	11/19/2018	95.37	0.00	0.00	95.37
Revenue Sufficiency Guarantee First Pass Dist Amount	01/14/2019	11/20/2018	(32.45)	0.00	0.00	(32.45)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/15/2019	11/21/2018	414.92	0.00	0.00	414.92
Revenue Sufficiency Guarantee First Pass Dist Amount	01/16/2019	11/22/2018	109.23	0.00	0.00	109.23
Revenue Sufficiency Guarantee First Pass Dist Amount	01/17/2019	11/23/2018	(2.65)	0.00	0.00	(2.65)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/18/2019	11/24/2018	(6.80)	0.00	0.00	(6.80)
Schedule 24 Allocation Amount	01/12/2019	11/18/2018	0.03	0.00	0.00	0.03
Schedule 24 Allocation Amount	01/13/2019	11/19/2018	0.03	0.00	0.00	0.03
Schedule 24 Allocation Amount	01/14/2019	11/20/2018	(0.02)	0.00	0.00	(0.02)
Schedule 24 Allocation Amount	01/15/2019	11/21/2018	(0.05)	0.00	0.00	(0.05)
Schedule 24 Allocation Amount	01/16/2019	11/22/2018	(0.44)	0.00	0.00	(0.44)
Schedule 24 Allocation Amount	01/17/2019	11/23/2018	0.32	0.00	0.00	0.32
Schedule 24 Allocation Amount	01/18/2019	11/24/2018	(0.10)	0.00	0.00	(0.10)
Schedule 24 Distribution Amount	01/12/2019	11/18/2018	0.58	0.00	0.00	0.58
Schedule 24 Distribution Amount	01/13/2019	11/19/2018	0.83	0.00	0.00	0.83
Schedule 24 Distribution Amount	01/14/2019	11/20/2018	(0.72)	0.00	0.00	(0.72)
Schedule 24 Distribution Amount	01/15/2019	11/21/2018	(0.15)	0.00	0.00	(0.15)

**Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:**

(Continued on Next Page)



Midcontinent Independent System Operator, Inc.  
P.O. Box 4202  
Carmel, IN 46082-4202

Attachment 9

**Invoice**

**Market Participant:** Minnesota Power  
30 West Superior Street  
Duluth, MN 55802

**Invoice Number:** 1585835

**For Statements Issued:** 01/12/2019 - 01/18/2019

**Invoice Date:** 01/22/2019

**Participant ID:** MPM

**Payment Due Date:** 01/29/2019

**Invoice Type:** Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
<b>Billing Period: S55</b>						
Schedule 24 Distribution Amount	01/16/2019	11/22/2018	\$4.91	\$0.00	\$0.00	\$4.91
Schedule 24 Distribution Amount	01/17/2019	11/23/2018	(1.81)	0.00	0.00	(1.81)
Schedule 24 Distribution Amount	01/18/2019	11/24/2018	(1.40)	0.00	0.00	(1.40)
Spinning Reserve Cost Distribution Amount	01/12/2019	11/18/2018	0.19	0.00	0.00	0.19
Spinning Reserve Cost Distribution Amount	01/13/2019	11/19/2018	0.63	0.00	0.00	0.63
Spinning Reserve Cost Distribution Amount	01/14/2019	11/20/2018	0.67	0.00	0.00	0.67
Spinning Reserve Cost Distribution Amount	01/15/2019	11/21/2018	0.59	0.00	0.00	0.59
Spinning Reserve Cost Distribution Amount	01/16/2019	11/22/2018	2.70	0.00	0.00	2.70
Spinning Reserve Cost Distribution Amount	01/17/2019	11/23/2018	(0.56)	0.00	0.00	(0.56)
Spinning Reserve Cost Distribution Amount	01/18/2019	11/24/2018	(3.97)	0.00	0.00	(3.97)
Supplemental Reserve Cost Distribution Amount	01/12/2019	11/18/2018	(0.11)	0.00	0.00	(0.11)
Supplemental Reserve Cost Distribution Amount	01/13/2019	11/19/2018	0.32	0.00	0.00	0.32
Supplemental Reserve Cost Distribution Amount	01/14/2019	11/20/2018	0.16	0.00	0.00	0.16
Supplemental Reserve Cost Distribution Amount	01/15/2019	11/21/2018	(0.08)	0.00	0.00	(0.08)
Supplemental Reserve Cost Distribution Amount	01/16/2019	11/22/2018	1.25	0.00	0.00	1.25
Supplemental Reserve Cost Distribution Amount	01/17/2019	11/23/2018	(0.01)	0.00	0.00	(0.01)
Supplemental Reserve Cost Distribution Amount	01/18/2019	11/24/2018	(0.29)	0.00	0.00	(0.29)
<b>Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:</b>			<b>(\$1,349.41)</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>(\$1,349.41)</b>



Midcontinent Independent System Operator, Inc.  
P.O. Box 4202  
Carmel, IN 46082-4202

**Invoice**

**Market Participant:** Minnesota Power  
30 West Superior Street  
Duluth, MN 55802

**Invoice Number:** 1585835

**For Statements Issued:** 01/12/2019 - 01/18/2019

**Invoice Date:** 01/22/2019

**Participant ID:** MPM

**Payment Due Date:** 01/29/2019

**Invoice Type:** Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
<b>Billing Period: S105</b>						
Asset Energy Amount	01/14/2019	10/01/2018	\$135.81	\$0.00	\$0.00	\$135.81
Asset Energy Amount	01/15/2019	10/02/2018	41.29	0.00	0.00	41.29
Asset Energy Amount	01/16/2019	10/03/2018	(451.76)	0.00	0.00	(451.76)
Asset Energy Amount	01/17/2019	10/04/2018	156.75	0.00	0.00	156.75
Asset Energy Amount	01/18/2019	10/05/2018	189.73	0.00	0.00	189.73
Auction Revenue Rights Stage 2 Distribution Amount	01/14/2019	10/01/2018	0.00	0.00	607.38	607.38
Distribution of Losses Amount	01/12/2019	09/29/2018	1.30	0.00	0.00	1.30
Distribution of Losses Amount	01/13/2019	09/30/2018	5.91	0.00	0.00	5.91
Distribution of Losses Amount	01/14/2019	10/01/2018	240.36	0.00	0.00	240.36
Distribution of Losses Amount	01/15/2019	10/02/2018	232.44	0.00	0.00	232.44
Distribution of Losses Amount	01/16/2019	10/03/2018	293.02	0.00	0.00	293.02
Distribution of Losses Amount	01/17/2019	10/04/2018	312.32	0.00	0.00	312.32
Distribution of Losses Amount	01/18/2019	10/05/2018	448.40	0.00	0.00	448.40
Excessive Deficient Energy Deployment Charge Amount	01/12/2019	09/29/2018	0.10	0.00	0.00	0.10
Excessive Deficient Energy Deployment Charge Amount	01/14/2019	10/01/2018	(0.10)	0.00	0.00	(0.10)
Excessive Deficient Energy Deployment Charge Amount	01/15/2019	10/02/2018	(0.01)	0.00	0.00	(0.01)
Excessive Deficient Energy Deployment Charge Amount	01/16/2019	10/03/2018	0.09	0.00	0.00	0.09
Excessive Deficient Energy Deployment Charge Amount	01/17/2019	10/04/2018	0.01	0.00	0.00	0.01
Excessive Deficient Energy Deployment Charge Amount	01/18/2019	10/05/2018	(0.05)	0.00	0.00	(0.05)
MVP Distribution Amount	01/13/2019	09/30/2018	(26.31)	0.00	0.00	(26.31)
Net Inadvertent Distribution Amount	01/12/2019	09/29/2018	(2.25)	0.00	0.00	(2.25)
Net Inadvertent Distribution Amount	01/13/2019	09/30/2018	(0.31)	0.00	0.00	(0.31)
Net Inadvertent Distribution Amount	01/14/2019	10/01/2018	144.36	0.00	0.00	144.36
Net Inadvertent Distribution Amount	01/15/2019	10/02/2018	148.35	0.00	0.00	148.35
Net Inadvertent Distribution Amount	01/16/2019	10/03/2018	138.81	0.00	0.00	138.81
Net Inadvertent Distribution Amount	01/17/2019	10/04/2018	154.05	0.00	0.00	154.05
Net Inadvertent Distribution Amount	01/18/2019	10/05/2018	169.58	0.00	0.00	169.58
Regulation Cost Distribution Amount	01/12/2019	09/29/2018	0.29	0.00	0.00	0.29
Regulation Cost Distribution Amount	01/14/2019	10/01/2018	0.12	0.00	0.00	0.12
Regulation Cost Distribution Amount	01/15/2019	10/02/2018	(0.19)	0.00	0.00	(0.19)

**Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:**

(Continued on Next Page)



Midcontinent Independent System Operator, Inc.  
 P.O. Box 4202  
 Carmel, IN 46082-4202

**Invoice**

**Market Participant:** Minnesota Power  
 30 West Superior Street  
 Duluth, MN 55802

**Invoice Number:** 1585835

**For Statements Issued:** 01/12/2019 - 01/18/2019

**Invoice Date:** 01/22/2019

**Participant ID:** MPM

**Payment Due Date:** 01/29/2019

**Invoice Type:** Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
<b>Billing Period: S105</b>						
Regulation Cost Distribution Amount	01/16/2019	10/03/2018	(\$0.51)	\$0.00	\$0.00	(\$0.51)
Regulation Cost Distribution Amount	01/17/2019	10/04/2018	0.82	0.00	0.00	0.82
Regulation Cost Distribution Amount	01/18/2019	10/05/2018	(0.63)	0.00	0.00	(0.63)
Revenue Neutrality Uplift Amount	01/12/2019	09/29/2018	6.43	0.00	0.00	6.43
Revenue Neutrality Uplift Amount	01/13/2019	09/30/2018	(479.20)	0.00	0.00	(479.20)
Revenue Neutrality Uplift Amount	01/14/2019	10/01/2018	(768.58)	0.00	0.00	(768.58)
Revenue Neutrality Uplift Amount	01/15/2019	10/02/2018	(160.07)	0.00	0.00	(160.07)
Revenue Neutrality Uplift Amount	01/16/2019	10/03/2018	(791.66)	0.00	0.00	(791.66)
Revenue Neutrality Uplift Amount	01/17/2019	10/04/2018	(633.14)	0.00	0.00	(633.14)
Revenue Neutrality Uplift Amount	01/18/2019	10/05/2018	(341.56)	0.00	0.00	(341.56)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/12/2019	09/29/2018	(0.01)	0.00	0.00	(0.01)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/13/2019	09/30/2018	(0.09)	0.00	0.00	(0.09)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/14/2019	10/01/2018	7.28	0.00	0.00	7.28
Revenue Sufficiency Guarantee First Pass Dist Amount	01/15/2019	10/02/2018	9.65	0.00	0.00	9.65
Revenue Sufficiency Guarantee First Pass Dist Amount	01/16/2019	10/03/2018	1.55	0.00	0.00	1.55
Revenue Sufficiency Guarantee First Pass Dist Amount	01/17/2019	10/04/2018	(21.13)	0.00	0.00	(21.13)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/18/2019	10/05/2018	133.59	0.00	0.00	133.59
Schedule 24 Allocation Amount	01/14/2019	10/01/2018	0.10	0.00	0.00	0.10
Schedule 24 Allocation Amount	01/15/2019	10/02/2018	(0.04)	0.00	0.00	(0.04)
Schedule 24 Allocation Amount	01/16/2019	10/03/2018	(0.29)	0.00	0.00	(0.29)
Schedule 24 Allocation Amount	01/17/2019	10/04/2018	0.05	0.00	0.00	0.05
Schedule 24 Allocation Amount	01/18/2019	10/05/2018	0.06	0.00	0.00	0.06
Schedule 24 Distribution Amount	01/12/2019	09/29/2018	(0.89)	0.00	0.00	(0.89)
Schedule 24 Distribution Amount	01/13/2019	09/30/2018	(0.41)	0.00	0.00	(0.41)
Schedule 24 Distribution Amount	01/14/2019	10/01/2018	0.23	0.00	0.00	0.23
Schedule 24 Distribution Amount	01/15/2019	10/02/2018	2.40	0.00	0.00	2.40
Schedule 24 Distribution Amount	01/16/2019	10/03/2018	0.48	0.00	0.00	0.48
Schedule 24 Distribution Amount	01/17/2019	10/04/2018	1.25	0.00	0.00	1.25
Schedule 24 Distribution Amount	01/18/2019	10/05/2018	(0.30)	0.00	0.00	(0.30)
Spinning Reserve Cost Distribution Amount	01/12/2019	09/29/2018	0.36	0.00	0.00	0.36

**Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:**

(Continued on Next Page)



Midcontinent Independent System Operator, Inc.  
P.O. Box 4202  
Carmel, IN 46082-4202

Attachment 9

# Invoice

**Market Participant:** Minnesota Power  
30 West Superior Street  
Duluth, MN 55802

**Invoice Number:** 1585835

**For Statements Issued:** 01/12/2019 - 01/18/2019

**Invoice Date:** 01/22/2019

**Participant ID:** MPM

**Payment Due Date:** 01/29/2019

**Invoice Type:** Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
<b>Billing Period: S105</b>						
Spinning Reserve Cost Distribution Amount	01/14/2019	10/01/2018	(\$0.38)	\$0.00	\$0.00	(\$0.38)
Spinning Reserve Cost Distribution Amount	01/15/2019	10/02/2018	(0.74)	0.00	0.00	(0.74)
Spinning Reserve Cost Distribution Amount	01/16/2019	10/03/2018	(0.57)	0.00	0.00	(0.57)
Spinning Reserve Cost Distribution Amount	01/17/2019	10/04/2018	1.00	0.00	0.00	1.00
Spinning Reserve Cost Distribution Amount	01/18/2019	10/05/2018	(1.59)	0.00	0.00	(1.59)
Supplemental Reserve Cost Distribution Amount	01/14/2019	10/01/2018	0.05	0.00	0.00	0.05
Supplemental Reserve Cost Distribution Amount	01/15/2019	10/02/2018	0.02	0.00	0.00	0.02
Supplemental Reserve Cost Distribution Amount	01/16/2019	10/03/2018	0.03	0.00	0.00	0.03
Supplemental Reserve Cost Distribution Amount	01/17/2019	10/04/2018	0.04	0.00	0.00	0.04
Supplemental Reserve Cost Distribution Amount	01/18/2019	10/05/2018	(0.33)	0.00	0.00	(0.33)
Transmission Guarantee Uplift Amount	01/13/2019	09/30/2018	0.00	0.00	0.04	0.04
<b>Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:</b>			<b>(\$704.62)</b>	<b>\$0.00</b>	<b>\$607.42</b>	<b>(\$97.20)</b>