



Invoice

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

Invoice Number: 1584872

For Statements Issued: 01/05/2019-01/11/2019

Invoice Date: 01/15/2019

Participant ID: MPM

Payment Due Date: 01/22/2019

Invoice Type: Market Invoice

Invoice Summary:

Total:

Current S7 Net (Revenue)/Charge of Real Time and Day Ahead Markets:	\$1,345,602.02
S14 Prior Period Adjustments:	(28,716.67)
S55 Prior Period Adjustments:	4,577.72
S105 Prior Period Adjustments:	119.56
Other Adjustments:	0.00

Total Net Charge (Revenue):	\$1,321,582.63
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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 8

Invoice

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

Invoice Number: 1584872

For Statements Issued: 01/05/2019 - 01/11/2019

Invoice Date: 01/15/2019

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Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
Billing Period: S7						
Asset Energy Amount	01/08/2019	01/01/2019	\$29,181.51	\$374,101.56	\$0.00	\$403,283.07
Asset Energy Amount	01/09/2019	01/02/2019	30,663.72	95,319.65	0.00	125,983.37
Asset Energy Amount	01/10/2019	01/03/2019	14,784.81	123,900.94	0.00	138,685.75
Asset Energy Amount	01/11/2019	01/04/2019	18,026.30	133,630.56	0.00	151,656.86
Asset Energy Amount	01/05/2019	12/29/2018	9,082.83	250,356.15	0.00	259,438.98
Asset Energy Amount	01/06/2019	12/30/2018	22,831.66	487,175.06	0.00	510,006.72
Asset Energy Amount	01/07/2019	12/31/2018	33,336.82	318,325.22	0.00	351,662.04
Auction Revenue Rights Infeasible Uplift Amount	01/08/2019	01/01/2019	0.00	0.00	7,158.49	7,158.49
Auction Revenue Rights Stage 2 Distribution Amount	01/08/2019	01/01/2019	0.00	0.00	(89,805.44)	(89,805.44)
Auction Revenue Rights Transaction Amount	01/08/2019	01/01/2019	0.00	0.00	(105,297.03)	(105,297.03)
Distribution of Losses Amount	01/08/2019	01/01/2019	(14,267.40)	0.00	0.00	(14,267.40)
Distribution of Losses Amount	01/09/2019	01/02/2019	(14,289.90)	0.00	0.00	(14,289.90)
Distribution of Losses Amount	01/10/2019	01/03/2019	(14,649.93)	0.00	0.00	(14,649.93)
Distribution of Losses Amount	01/11/2019	01/04/2019	(10,887.61)	0.00	0.00	(10,887.61)
Distribution of Losses Amount	01/05/2019	12/29/2018	(10,211.37)	0.00	0.00	(10,211.37)
Distribution of Losses Amount	01/06/2019	12/30/2018	(15,380.42)	0.00	0.00	(15,380.42)
Distribution of Losses Amount	01/07/2019	12/31/2018	(12,893.79)	0.00	0.00	(12,893.79)
Excessive Deficient Energy Deployment Charge Amount	01/08/2019	01/01/2019	458.97	0.00	0.00	458.97
Excessive Deficient Energy Deployment Charge Amount	01/09/2019	01/02/2019	959.62	0.00	0.00	959.62
Excessive Deficient Energy Deployment Charge Amount	01/10/2019	01/03/2019	271.80	0.00	0.00	271.80
Excessive Deficient Energy Deployment Charge Amount	01/11/2019	01/04/2019	886.40	0.00	0.00	886.40
Excessive Deficient Energy Deployment Charge Amount	01/05/2019	12/29/2018	1,061.39	0.00	0.00	1,061.39
Excessive Deficient Energy Deployment Charge Amount	01/06/2019	12/30/2018	279.49	0.00	0.00	279.49
Excessive Deficient Energy Deployment Charge Amount	01/07/2019	12/31/2018	544.08	0.00	0.00	544.08
Excessive Energy Amount	01/08/2019	01/01/2019	237.29	0.00	0.00	237.29
Excessive Energy Amount	01/09/2019	01/02/2019	(2,383.21)	0.00	0.00	(2,383.21)
Excessive Energy Amount	01/11/2019	01/04/2019	(1,587.25)	0.00	0.00	(1,587.25)
Excessive Energy Amount	01/05/2019	12/29/2018	(2,802.06)	0.00	0.00	(2,802.06)
Excessive Energy Amount	01/06/2019	12/30/2018	209.69	0.00	0.00	209.69
Excessive Energy Amount	01/07/2019	12/31/2018	4.79	0.00	0.00	4.79

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

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 Carmel, IN 46082-4202

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Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
Billing Period: S7						
Financial Bilateral Transaction Congestion Amount	01/08/2019	01/01/2019	\$0.00	\$1,300.00	\$0.00	\$1,300.00
Financial Bilateral Transaction Congestion Amount	01/09/2019	01/02/2019	0.00	7,700.00	0.00	7,700.00
Financial Bilateral Transaction Congestion Amount	01/10/2019	01/03/2019	0.00	4,718.85	0.00	4,718.85
Financial Bilateral Transaction Congestion Amount	01/11/2019	01/04/2019	0.00	2,261.80	0.00	2,261.80
Financial Bilateral Transaction Congestion Amount	01/05/2019	12/29/2018	0.00	3,913.13	0.00	3,913.13
Financial Bilateral Transaction Congestion Amount	01/06/2019	12/30/2018	0.00	4,614.06	0.00	4,614.06
Financial Bilateral Transaction Congestion Amount	01/07/2019	12/31/2018	0.00	3,966.84	0.00	3,966.84
Financial Bilateral Transaction Loss Amount	01/08/2019	01/01/2019	0.00	1,757.00	0.00	1,757.00
Financial Bilateral Transaction Loss Amount	01/09/2019	01/02/2019	0.00	6,365.45	0.00	6,365.45
Financial Bilateral Transaction Loss Amount	01/10/2019	01/03/2019	0.00	8,455.85	0.00	8,455.85
Financial Bilateral Transaction Loss Amount	01/11/2019	01/04/2019	0.00	7,386.15	0.00	7,386.15
Financial Bilateral Transaction Loss Amount	01/05/2019	12/29/2018	0.00	6,746.86	0.00	6,746.86
Financial Bilateral Transaction Loss Amount	01/06/2019	12/30/2018	0.00	10,133.47	0.00	10,133.47
Financial Bilateral Transaction Loss Amount	01/07/2019	12/31/2018	0.00	11,682.14	0.00	11,682.14
MVP Distribution Amount	01/07/2019	12/31/2018	(15,530.40)	0.00	0.00	(15,530.40)
Net Inadvertent Distribution Amount	01/08/2019	01/01/2019	(345.31)	0.00	0.00	(345.31)
Net Inadvertent Distribution Amount	01/09/2019	01/02/2019	719.08	0.00	0.00	719.08
Net Inadvertent Distribution Amount	01/10/2019	01/03/2019	441.25	0.00	0.00	441.25
Net Inadvertent Distribution Amount	01/11/2019	01/04/2019	320.65	0.00	0.00	320.65
Net Inadvertent Distribution Amount	01/05/2019	12/29/2018	453.31	0.00	0.00	453.31
Net Inadvertent Distribution Amount	01/06/2019	12/30/2018	30.26	0.00	0.00	30.26
Net Inadvertent Distribution Amount	01/07/2019	12/31/2018	2,197.02	0.00	0.00	2,197.02
Net Regulation Adjustment Amount	01/08/2019	01/01/2019	54.93	0.00	0.00	54.93
Net Regulation Adjustment Amount	01/09/2019	01/02/2019	9.82	0.00	0.00	9.82
Net Regulation Adjustment Amount	01/10/2019	01/03/2019	8.47	0.00	0.00	8.47
Net Regulation Adjustment Amount	01/11/2019	01/04/2019	2.10	0.00	0.00	2.10
Net Regulation Adjustment Amount	01/05/2019	12/29/2018	205.78	0.00	0.00	205.78
Net Regulation Adjustment Amount	01/06/2019	12/30/2018	(33.34)	0.00	0.00	(33.34)
Net Regulation Adjustment Amount	01/07/2019	12/31/2018	76.25	0.00	0.00	76.25
Non-Asset Energy Amount	01/08/2019	01/01/2019	6,066.83	(36,205.62)	0.00	(30,138.79)

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

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Billing Period: S7						
Non-Asset Energy Amount	01/09/2019	01/02/2019	\$810.80	(\$46,169.30)	\$0.00	(\$45,358.50)
Non-Asset Energy Amount	01/10/2019	01/03/2019	0.00	(38,213.04)	0.00	(38,213.04)
Non-Asset Energy Amount	01/11/2019	01/04/2019	0.00	(38,602.12)	0.00	(38,602.12)
Non-Asset Energy Amount	01/05/2019	12/29/2018	2,307.80	(39,205.92)	0.00	(36,898.12)
Non-Asset Energy Amount	01/06/2019	12/30/2018	104.72	(55,333.92)	0.00	(55,229.20)
Non-Asset Energy Amount	01/07/2019	12/31/2018	165.17	(53,862.78)	0.00	(53,697.61)
Non-Excessive Energy Amount	01/08/2019	01/01/2019	(233,506.16)	0.00	0.00	(233,506.16)
Non-Excessive Energy Amount	01/09/2019	01/02/2019	18,597.63	0.00	0.00	18,597.63
Non-Excessive Energy Amount	01/10/2019	01/03/2019	8,438.74	0.00	0.00	8,438.74
Non-Excessive Energy Amount	01/11/2019	01/04/2019	(2,926.49)	0.00	0.00	(2,926.49)
Non-Excessive Energy Amount	01/05/2019	12/29/2018	57,069.34	0.00	0.00	57,069.34
Non-Excessive Energy Amount	01/06/2019	12/30/2018	(40,201.57)	0.00	0.00	(40,201.57)
Non-Excessive Energy Amount	01/07/2019	12/31/2018	87,528.22	0.00	0.00	87,528.22
Price Volatility Make Whole Payment Amt	01/08/2019	01/01/2019	(0.14)	0.00	0.00	(0.14)
Ramp Capability Amount	01/05/2019	12/29/2018	(0.17)	0.00	0.00	(0.17)
Regulation Amount	01/08/2019	01/01/2019	(168.90)	(1,174.56)	0.00	(1,343.46)
Regulation Amount	01/09/2019	01/02/2019	1,831.39	(3,504.12)	0.00	(1,672.73)
Regulation Amount	01/10/2019	01/03/2019	842.45	(1,412.50)	0.00	(570.05)
Regulation Amount	01/11/2019	01/04/2019	127.94	(1,279.84)	0.00	(1,151.90)
Regulation Amount	01/05/2019	12/29/2018	1,036.90	(3,016.65)	0.00	(1,979.75)
Regulation Amount	01/06/2019	12/30/2018	1,110.02	(1,610.47)	0.00	(500.45)
Regulation Amount	01/07/2019	12/31/2018	340.38	(1,602.10)	0.00	(1,261.72)
Regulation Cost Distribution Amount	01/08/2019	01/01/2019	945.04	0.00	0.00	945.04
Regulation Cost Distribution Amount	01/09/2019	01/02/2019	1,043.78	0.00	0.00	1,043.78
Regulation Cost Distribution Amount	01/10/2019	01/03/2019	703.10	0.00	0.00	703.10
Regulation Cost Distribution Amount	01/11/2019	01/04/2019	793.97	0.00	0.00	793.97
Regulation Cost Distribution Amount	01/05/2019	12/29/2018	990.62	0.00	0.00	990.62
Regulation Cost Distribution Amount	01/06/2019	12/30/2018	1,123.85	0.00	0.00	1,123.85
Regulation Cost Distribution Amount	01/07/2019	12/31/2018	1,044.25	0.00	0.00	1,044.25
Resource Adequacy Auction Amount	01/08/2019	01/01/2019	(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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Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
Billing Period: S7						
Resource Adequacy Auction Amount	01/09/2019	01/02/2019	(\$10.95)	\$0.00	\$0.00	(\$10.95)
Resource Adequacy Auction Amount	01/10/2019	01/03/2019	(10.95)	0.00	0.00	(10.95)
Resource Adequacy Auction Amount	01/11/2019	01/04/2019	(10.95)	0.00	0.00	(10.95)
Resource Adequacy Auction Amount	01/05/2019	12/29/2018	(250.00)	0.00	0.00	(250.00)
Resource Adequacy Auction Amount	01/06/2019	12/30/2018	(250.00)	0.00	0.00	(250.00)
Resource Adequacy Auction Amount	01/07/2019	12/31/2018	(250.00)	0.00	0.00	(250.00)
Revenue Neutrality Uplift Amount	01/08/2019	01/01/2019	2,077.26	0.00	0.00	2,077.26
Revenue Neutrality Uplift Amount	01/09/2019	01/02/2019	(4,348.55)	0.00	0.00	(4,348.55)
Revenue Neutrality Uplift Amount	01/10/2019	01/03/2019	(4,410.88)	0.00	0.00	(4,410.88)
Revenue Neutrality Uplift Amount	01/11/2019	01/04/2019	(235.00)	0.00	0.00	(235.00)
Revenue Neutrality Uplift Amount	01/05/2019	12/29/2018	(956.78)	0.00	0.00	(956.78)
Revenue Neutrality Uplift Amount	01/06/2019	12/30/2018	(450.30)	0.00	0.00	(450.30)
Revenue Neutrality Uplift Amount	01/07/2019	12/31/2018	(3,932.40)	0.00	0.00	(3,932.40)
Revenue Sufficiency Guarantee Distribution Amount	01/08/2019	01/01/2019	0.00	526.36	0.00	526.36
Revenue Sufficiency Guarantee Distribution Amount	01/09/2019	01/02/2019	0.00	1,123.51	0.00	1,123.51
Revenue Sufficiency Guarantee Distribution Amount	01/10/2019	01/03/2019	0.00	1,640.77	0.00	1,640.77
Revenue Sufficiency Guarantee Distribution Amount	01/11/2019	01/04/2019	0.00	380.78	0.00	380.78
Revenue Sufficiency Guarantee Distribution Amount	01/05/2019	12/29/2018	0.00	639.90	0.00	639.90
Revenue Sufficiency Guarantee Distribution Amount	01/06/2019	12/30/2018	0.00	92.07	0.00	92.07
Revenue Sufficiency Guarantee Distribution Amount	01/07/2019	12/31/2018	0.00	572.54	0.00	572.54
Revenue Sufficiency Guarantee First Pass Dist Amount	01/08/2019	01/01/2019	358.97	0.00	0.00	358.97
Revenue Sufficiency Guarantee First Pass Dist Amount	01/09/2019	01/02/2019	794.93	0.00	0.00	794.93
Revenue Sufficiency Guarantee First Pass Dist Amount	01/10/2019	01/03/2019	3.03	0.00	0.00	3.03
Revenue Sufficiency Guarantee First Pass Dist Amount	01/11/2019	01/04/2019	42.10	0.00	0.00	42.10
Revenue Sufficiency Guarantee First Pass Dist Amount	01/05/2019	12/29/2018	131.56	0.00	0.00	131.56
Revenue Sufficiency Guarantee First Pass Dist Amount	01/07/2019	12/31/2018	65.97	0.00	0.00	65.97
Revenue Sufficiency Guarantee Make Whole Payment Amt	01/08/2019	01/01/2019	0.00	(8.86)	0.00	(8.86)
Revenue Sufficiency Guarantee Make Whole Payment Amt	01/09/2019	01/02/2019	0.00	(66.20)	0.00	(66.20)
Revenue Sufficiency Guarantee Make Whole Payment Amt	01/10/2019	01/03/2019	0.00	(83.88)	0.00	(83.88)
Revenue Sufficiency Guarantee Make Whole Payment Amt	01/11/2019	01/04/2019	0.00	(32.14)	0.00	(32.14)

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

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Billing Period: S7						
Revenue Sufficiency Guarantee Make Whole Payment Amt	01/05/2019	12/29/2018	\$0.00	(\$40.62)	\$0.00	(\$40.62)
Revenue Sufficiency Guarantee Make Whole Payment Amt	01/06/2019	12/30/2018	0.00	(231.08)	0.00	(231.08)
Revenue Sufficiency Guarantee Make Whole Payment Amt	01/07/2019	12/31/2018	0.00	(110.97)	0.00	(110.97)
Schedule 24 Allocation Amount	01/08/2019	01/01/2019	137.81	600.42	0.00	738.23
Schedule 24 Allocation Amount	01/09/2019	01/02/2019	75.62	743.64	0.00	819.26
Schedule 24 Allocation Amount	01/10/2019	01/03/2019	38.64	710.63	0.00	749.27
Schedule 24 Allocation Amount	01/11/2019	01/04/2019	45.22	716.24	0.00	761.46
Schedule 24 Allocation Amount	01/05/2019	12/29/2018	59.88	775.99	0.00	835.87
Schedule 24 Allocation Amount	01/06/2019	12/30/2018	70.77	671.46	0.00	742.23
Schedule 24 Allocation Amount	01/07/2019	12/31/2018	113.69	731.37	0.00	845.06
Schedule 24 Distribution Amount	01/08/2019	01/01/2019	(4,240.07)	0.00	0.00	(4,240.07)
Schedule 24 Distribution Amount	01/09/2019	01/02/2019	(4,687.72)	0.00	0.00	(4,687.72)
Schedule 24 Distribution Amount	01/10/2019	01/03/2019	(4,808.42)	0.00	0.00	(4,808.42)
Schedule 24 Distribution Amount	01/11/2019	01/04/2019	(4,622.50)	0.00	0.00	(4,622.50)
Schedule 24 Distribution Amount	01/05/2019	12/29/2018	(4,738.78)	0.00	0.00	(4,738.78)
Schedule 24 Distribution Amount	01/06/2019	12/30/2018	(4,627.44)	0.00	0.00	(4,627.44)
Schedule 24 Distribution Amount	01/07/2019	12/31/2018	(4,757.01)	0.00	0.00	(4,757.01)
Spinning Reserve Amount	01/08/2019	01/01/2019	(77.19)	(1,171.79)	0.00	(1,248.98)
Spinning Reserve Amount	01/09/2019	01/02/2019	245.65	(1,838.00)	0.00	(1,592.35)
Spinning Reserve Amount	01/10/2019	01/03/2019	126.36	(1,106.70)	0.00	(980.34)
Spinning Reserve Amount	01/11/2019	01/04/2019	389.45	(1,897.77)	0.00	(1,508.32)
Spinning Reserve Amount	01/05/2019	12/29/2018	89.71	(1,909.00)	0.00	(1,819.29)
Spinning Reserve Amount	01/06/2019	12/30/2018	344.21	(1,207.69)	0.00	(863.48)
Spinning Reserve Amount	01/07/2019	12/31/2018	862.98	(1,971.20)	0.00	(1,108.22)
Spinning Reserve Cost Distribution Amount	01/08/2019	01/01/2019	873.58	0.00	0.00	873.58
Spinning Reserve Cost Distribution Amount	01/09/2019	01/02/2019	969.34	0.00	0.00	969.34
Spinning Reserve Cost Distribution Amount	01/10/2019	01/03/2019	632.19	0.00	0.00	632.19
Spinning Reserve Cost Distribution Amount	01/11/2019	01/04/2019	917.93	0.00	0.00	917.93
Spinning Reserve Cost Distribution Amount	01/05/2019	12/29/2018	879.26	0.00	0.00	879.26
Spinning Reserve Cost Distribution Amount	01/06/2019	12/30/2018	688.01	0.00	0.00	688.01

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Spinning Reserve Cost Distribution Amount	01/07/2019	12/31/2018	\$942.35	\$0.00	\$0.00	\$942.35
Supplemental Reserve Amount	01/08/2019	01/01/2019	(2.15)	0.00	0.00	(2.15)
Supplemental Reserve Amount	01/09/2019	01/02/2019	(1.19)	0.00	0.00	(1.19)
Supplemental Reserve Amount	01/05/2019	12/29/2018	(2.90)	0.00	0.00	(2.90)
Supplemental Reserve Amount	01/06/2019	12/30/2018	(3.62)	0.00	0.00	(3.62)
Supplemental Reserve Amount	01/07/2019	12/31/2018	(2.96)	0.00	0.00	(2.96)
Supplemental Reserve Cost Distribution Amount	01/08/2019	01/01/2019	179.84	0.00	0.00	179.84
Supplemental Reserve Cost Distribution Amount	01/09/2019	01/02/2019	119.76	0.00	0.00	119.76
Supplemental Reserve Cost Distribution Amount	01/10/2019	01/03/2019	129.69	0.00	0.00	129.69
Supplemental Reserve Cost Distribution Amount	01/11/2019	01/04/2019	140.08	0.00	0.00	140.08
Supplemental Reserve Cost Distribution Amount	01/05/2019	12/29/2018	120.30	0.00	0.00	120.30
Supplemental Reserve Cost Distribution Amount	01/06/2019	12/30/2018	157.62	0.00	0.00	157.62
Supplemental Reserve Cost Distribution Amount	01/07/2019	12/31/2018	189.75	0.00	0.00	189.75
Transmission Guarantee Uplift Amount	01/08/2019	01/01/2019	0.00	0.00	78.75	78.75
Transmission Guarantee Uplift Amount	01/09/2019	01/02/2019	0.00	0.00	716.30	716.30
Transmission Guarantee Uplift Amount	01/10/2019	01/03/2019	0.00	0.00	15.32	15.32
Transmission Guarantee Uplift Amount	01/11/2019	01/04/2019	0.00	0.00	155.31	155.31
Transmission Guarantee Uplift Amount	01/05/2019	12/29/2018	0.00	0.00	18.14	18.14
Transmission Guarantee Uplift Amount	01/06/2019	12/30/2018	0.00	0.00	13.81	13.81
Transmission Guarantee Uplift Amount	01/07/2019	12/31/2018	0.00	0.00	(51,451.54)	(51,451.54)
Transmission Rights Annual Transaction Amount	01/08/2019	01/01/2019	0.00	0.00	120,936.61	120,936.61
Transmission Rights Full Funding Guarantee Amount	01/08/2019	01/01/2019	0.00	0.00	(78.75)	(78.75)
Transmission Rights Full Funding Guarantee Amount	01/09/2019	01/02/2019	0.00	0.00	(716.30)	(716.30)
Transmission Rights Full Funding Guarantee Amount	01/10/2019	01/03/2019	0.00	0.00	(15.32)	(15.32)
Transmission Rights Full Funding Guarantee Amount	01/11/2019	01/04/2019	0.00	0.00	(155.31)	(155.31)
Transmission Rights Full Funding Guarantee Amount	01/05/2019	12/29/2018	0.00	0.00	(18.14)	(18.14)
Transmission Rights Full Funding Guarantee Amount	01/06/2019	12/30/2018	0.00	0.00	(13.81)	(13.81)
Transmission Rights Full Funding Guarantee Amount	01/07/2019	12/31/2018	0.00	0.00	49,079.91	49,079.91
Transmission Rights Hourly Allocation Amount	01/08/2019	01/01/2019	0.00	0.00	(1,192.19)	(1,192.19)
Transmission Rights Hourly Allocation Amount	01/09/2019	01/02/2019	0.00	0.00	(3,263.03)	(3,263.03)

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

(Continued on Next Page)



Invoice

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

Invoice Number: 1584872

For Statements Issued: 01/05/2019 - 01/11/2019

Invoice Date: 01/15/2019

Participant ID: MPM

Payment Due Date: 01/22/2019

Invoice Type: Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
Billing Period: S7						
Transmission Rights Hourly Allocation Amount	01/10/2019	01/03/2019	\$0.00	\$0.00	(\$1,991.35)	(\$1,991.35)
Transmission Rights Hourly Allocation Amount	01/11/2019	01/04/2019	0.00	0.00	(4,920.04)	(4,920.04)
Transmission Rights Hourly Allocation Amount	01/05/2019	12/29/2018	0.00	0.00	(2,034.38)	(2,034.38)
Transmission Rights Hourly Allocation Amount	01/06/2019	12/30/2018	0.00	0.00	(2,251.35)	(2,251.35)
Transmission Rights Hourly Allocation Amount	01/07/2019	12/31/2018	0.00	0.00	(1,424.12)	(1,424.12)
Transmission Rights Monthly Allocation Amount	01/07/2019	12/31/2018	0.00	0.00	(4,669.13)	(4,669.13)
Transmission Rights Monthly Transaction Amount	01/08/2019	01/01/2019	0.00	0.00	6,999.91	6,999.91
Transmission Rights Yearly Allocation Amount	01/07/2019	12/31/2018	0.00	0.00	(44,752.34)	(44,752.34)
Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:			(\$66,388.54)	\$1,540,867.58	(\$128,877.02)	\$1,345,602.02



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

Attachment 8

Invoice

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

Invoice Number: 1584872

For Statements Issued: 01/05/2019 - 01/11/2019

Invoice Date: 01/15/2019

Participant ID: MPM

Payment Due Date: 01/22/2019

Invoice Type: Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
Billing Period: S14						
Asset Energy Amount	01/06/2019	12/23/2018	(\$501.14)	\$0.00	\$0.00	(\$501.14)
Asset Energy Amount	01/07/2019	12/24/2018	(173.25)	0.00	0.00	(173.25)
Asset Energy Amount	01/08/2019	12/25/2018	224.33	0.00	0.00	224.33
Asset Energy Amount	01/09/2019	12/26/2018	212.14	0.00	0.00	212.14
Asset Energy Amount	01/10/2019	12/27/2018	317.80	0.00	0.00	317.80
Asset Energy Amount	01/11/2019	12/28/2018	(331.45)	0.00	0.00	(331.45)
Distribution of Losses Amount	01/05/2019	12/22/2018	(6,427.75)	0.00	0.00	(6,427.75)
Distribution of Losses Amount	01/06/2019	12/23/2018	(4,982.61)	0.00	0.00	(4,982.61)
Distribution of Losses Amount	01/07/2019	12/24/2018	(4,611.58)	0.00	0.00	(4,611.58)
Distribution of Losses Amount	01/08/2019	12/25/2018	(6,293.79)	0.00	0.00	(6,293.79)
Distribution of Losses Amount	01/09/2019	12/26/2018	(5,288.44)	0.00	0.00	(5,288.44)
Distribution of Losses Amount	01/10/2019	12/27/2018	(5,292.17)	0.00	0.00	(5,292.17)
Distribution of Losses Amount	01/11/2019	12/28/2018	(3,700.71)	0.00	0.00	(3,700.71)
Excessive Deficient Energy Deployment Charge Amount	01/05/2019	12/22/2018	(0.10)	0.00	0.00	(0.10)
Excessive Deficient Energy Deployment Charge Amount	01/06/2019	12/23/2018	(0.09)	0.00	0.00	(0.09)
Excessive Deficient Energy Deployment Charge Amount	01/07/2019	12/24/2018	(0.05)	0.00	0.00	(0.05)
Excessive Deficient Energy Deployment Charge Amount	01/08/2019	12/25/2018	(0.13)	0.00	0.00	(0.13)
Excessive Deficient Energy Deployment Charge Amount	01/09/2019	12/26/2018	(0.11)	0.00	0.00	(0.11)
Excessive Deficient Energy Deployment Charge Amount	01/10/2019	12/27/2018	(0.53)	0.00	0.00	(0.53)
Excessive Deficient Energy Deployment Charge Amount	01/11/2019	12/28/2018	(0.01)	0.00	0.00	(0.01)
Net Inadvertent Distribution Amount	01/05/2019	12/22/2018	(3,728.14)	0.00	0.00	(3,728.14)
Net Inadvertent Distribution Amount	01/06/2019	12/23/2018	(3,262.80)	0.00	0.00	(3,262.80)
Net Inadvertent Distribution Amount	01/07/2019	12/24/2018	(2,288.99)	0.00	0.00	(2,288.99)
Net Inadvertent Distribution Amount	01/08/2019	12/25/2018	(3,160.74)	0.00	0.00	(3,160.74)
Net Inadvertent Distribution Amount	01/09/2019	12/26/2018	(2,971.93)	0.00	0.00	(2,971.93)
Net Inadvertent Distribution Amount	01/10/2019	12/27/2018	(3,071.98)	0.00	0.00	(3,071.98)
Net Inadvertent Distribution Amount	01/11/2019	12/28/2018	(2,402.29)	0.00	0.00	(2,402.29)
Net Regulation Adjustment Amount	01/11/2019	12/28/2018	(1.41)	0.00	0.00	(1.41)
Non-Asset Energy Amount	01/11/2019	12/28/2018	(176.96)	0.00	0.00	(176.96)
Non-Excessive Energy Amount	01/10/2019	12/27/2018	(239.00)	0.00	0.00	(239.00)
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 8

Invoice

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

Invoice Number: 1584872

For Statements Issued: 01/05/2019 - 01/11/2019

Invoice Date: 01/15/2019

Participant ID: MPM

Payment Due Date: 01/22/2019

Invoice Type: Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
Billing Period: S14						
Non-Excessive Energy Amount	01/11/2019	12/28/2018	\$257.87	\$0.00	\$0.00	\$257.87
Regulation Cost Distribution Amount	01/05/2019	12/22/2018	(0.27)	0.00	0.00	(0.27)
Regulation Cost Distribution Amount	01/06/2019	12/23/2018	(0.66)	0.00	0.00	(0.66)
Regulation Cost Distribution Amount	01/07/2019	12/24/2018	(1.71)	0.00	0.00	(1.71)
Regulation Cost Distribution Amount	01/08/2019	12/25/2018	(1.45)	0.00	0.00	(1.45)
Regulation Cost Distribution Amount	01/09/2019	12/26/2018	1.50	0.00	0.00	1.50
Regulation Cost Distribution Amount	01/10/2019	12/27/2018	(2.06)	0.00	0.00	(2.06)
Regulation Cost Distribution Amount	01/11/2019	12/28/2018	(2.89)	0.00	0.00	(2.89)
Revenue Neutrality Uplift Amount	01/05/2019	12/22/2018	4,565.38	0.00	0.00	4,565.38
Revenue Neutrality Uplift Amount	01/06/2019	12/23/2018	4,382.80	0.00	0.00	4,382.80
Revenue Neutrality Uplift Amount	01/07/2019	12/24/2018	3,352.32	0.00	0.00	3,352.32
Revenue Neutrality Uplift Amount	01/08/2019	12/25/2018	4,381.40	0.00	0.00	4,381.40
Revenue Neutrality Uplift Amount	01/09/2019	12/26/2018	4,326.30	0.00	0.00	4,326.30
Revenue Neutrality Uplift Amount	01/10/2019	12/27/2018	4,282.67	0.00	0.00	4,282.67
Revenue Neutrality Uplift Amount	01/11/2019	12/28/2018	3,624.46	0.00	0.00	3,624.46
Revenue Sufficiency Guarantee Distribution Amount	01/06/2019	12/23/2018	0.00	(21.70)	0.00	(21.70)
Revenue Sufficiency Guarantee Distribution Amount	01/07/2019	12/24/2018	0.00	(30.73)	0.00	(30.73)
Revenue Sufficiency Guarantee Distribution Amount	01/08/2019	12/25/2018	0.00	(16.86)	0.00	(16.86)
Revenue Sufficiency Guarantee Distribution Amount	01/09/2019	12/26/2018	0.00	(18.21)	0.00	(18.21)
Revenue Sufficiency Guarantee Distribution Amount	01/11/2019	12/28/2018	0.00	(16.99)	0.00	(16.99)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/05/2019	12/22/2018	124.76	0.00	0.00	124.76
Revenue Sufficiency Guarantee First Pass Dist Amount	01/06/2019	12/23/2018	123.65	0.00	0.00	123.65
Revenue Sufficiency Guarantee First Pass Dist Amount	01/07/2019	12/24/2018	(0.77)	0.00	0.00	(0.77)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/10/2019	12/27/2018	1.54	0.00	0.00	1.54
Revenue Sufficiency Guarantee First Pass Dist Amount	01/11/2019	12/28/2018	66.12	0.00	0.00	66.12
Schedule 24 Allocation Amount	01/06/2019	12/23/2018	(0.25)	0.00	0.00	(0.25)
Schedule 24 Allocation Amount	01/07/2019	12/24/2018	(0.08)	0.00	0.00	(0.08)
Schedule 24 Allocation Amount	01/08/2019	12/25/2018	(0.02)	0.00	0.00	(0.02)
Schedule 24 Allocation Amount	01/09/2019	12/26/2018	0.13	0.00	0.00	0.13
Schedule 24 Allocation Amount	01/10/2019	12/27/2018	0.02	0.00	0.00	0.02

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 8

Invoice

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

Invoice Number: 1584872

For Statements Issued: 01/05/2019 - 01/11/2019

Invoice Date: 01/15/2019

Participant ID: MPM

Payment Due Date: 01/22/2019

Invoice Type: Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
Billing Period: S14						
Schedule 24 Allocation Amount	01/11/2019	12/28/2018	\$0.02	\$0.00	\$0.00	\$0.02
Schedule 24 Distribution Amount	01/05/2019	12/22/2018	9.03	0.00	0.00	9.03
Schedule 24 Distribution Amount	01/06/2019	12/23/2018	9.83	0.00	0.00	9.83
Schedule 24 Distribution Amount	01/07/2019	12/24/2018	8.43	0.00	0.00	8.43
Schedule 24 Distribution Amount	01/08/2019	12/25/2018	11.16	0.00	0.00	11.16
Schedule 24 Distribution Amount	01/09/2019	12/26/2018	9.31	0.00	0.00	9.31
Schedule 24 Distribution Amount	01/10/2019	12/27/2018	8.96	0.00	0.00	8.96
Schedule 24 Distribution Amount	01/11/2019	12/28/2018	8.06	0.00	0.00	8.06
Spinning Reserve Cost Distribution Amount	01/05/2019	12/22/2018	(0.14)	0.00	0.00	(0.14)
Spinning Reserve Cost Distribution Amount	01/06/2019	12/23/2018	(0.65)	0.00	0.00	(0.65)
Spinning Reserve Cost Distribution Amount	01/07/2019	12/24/2018	(0.39)	0.00	0.00	(0.39)
Spinning Reserve Cost Distribution Amount	01/08/2019	12/25/2018	(0.78)	0.00	0.00	(0.78)
Spinning Reserve Cost Distribution Amount	01/09/2019	12/26/2018	(0.68)	0.00	0.00	(0.68)
Spinning Reserve Cost Distribution Amount	01/10/2019	12/27/2018	(0.54)	0.00	0.00	(0.54)
Spinning Reserve Cost Distribution Amount	01/11/2019	12/28/2018	(0.28)	0.00	0.00	(0.28)
Supplemental Reserve Cost Distribution Amount	01/06/2019	12/23/2018	(0.11)	0.00	0.00	(0.11)
Supplemental Reserve Cost Distribution Amount	01/07/2019	12/24/2018	(0.01)	0.00	0.00	(0.01)
Supplemental Reserve Cost Distribution Amount	01/08/2019	12/25/2018	0.06	0.00	0.00	0.06
Supplemental Reserve Cost Distribution Amount	01/09/2019	12/26/2018	(0.08)	0.00	0.00	(0.08)
Supplemental Reserve Cost Distribution Amount	01/10/2019	12/27/2018	(0.05)	0.00	0.00	(0.05)
Supplemental Reserve Cost Distribution Amount	01/11/2019	12/28/2018	(0.21)	0.00	0.00	(0.21)
Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:			(\$28,612.18)	(\$104.49)	\$0.00	(\$28,716.67)



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: 1584872

For Statements Issued: 01/05/2019 - 01/11/2019

Invoice Date: 01/15/2019

Participant ID: MPM

Payment Due Date: 01/22/2019

Invoice Type: Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
Billing Period: S55						
Asset Energy Amount	01/05/2019	11/11/2018	\$153.91	\$0.00	\$0.00	\$153.91
Asset Energy Amount	01/06/2019	11/12/2018	212.64	0.00	0.00	212.64
Asset Energy Amount	01/07/2019	11/13/2018	514.48	0.00	0.00	514.48
Asset Energy Amount	01/08/2019	11/14/2018	326.24	0.00	0.00	326.24
Asset Energy Amount	01/09/2019	11/15/2018	164.25	0.00	0.00	164.25
Asset Energy Amount	01/10/2019	11/16/2018	249.08	0.00	0.00	249.08
Asset Energy Amount	01/11/2019	11/17/2018	199.81	0.00	0.00	199.81
Distribution of Losses Amount	01/05/2019	11/11/2018	486.04	0.00	0.00	486.04
Distribution of Losses Amount	01/06/2019	11/12/2018	523.07	0.00	0.00	523.07
Distribution of Losses Amount	01/07/2019	11/13/2018	748.90	0.00	0.00	748.90
Distribution of Losses Amount	01/08/2019	11/14/2018	194.16	0.00	0.00	194.16
Distribution of Losses Amount	01/09/2019	11/15/2018	99.77	0.00	0.00	99.77
Distribution of Losses Amount	01/10/2019	11/16/2018	347.15	0.00	0.00	347.15
Distribution of Losses Amount	01/11/2019	11/17/2018	257.66	0.00	0.00	257.66
Excessive Deficient Energy Deployment Charge Amount	01/05/2019	11/11/2018	0.71	0.00	0.00	0.71
Excessive Deficient Energy Deployment Charge Amount	01/06/2019	11/12/2018	0.23	0.00	0.00	0.23
Excessive Deficient Energy Deployment Charge Amount	01/07/2019	11/13/2018	0.07	0.00	0.00	0.07
Excessive Deficient Energy Deployment Charge Amount	01/08/2019	11/14/2018	0.15	0.00	0.00	0.15
Excessive Deficient Energy Deployment Charge Amount	01/09/2019	11/15/2018	0.26	0.00	0.00	0.26
Excessive Deficient Energy Deployment Charge Amount	01/10/2019	11/16/2018	0.43	0.00	0.00	0.43
Excessive Deficient Energy Deployment Charge Amount	01/11/2019	11/17/2018	0.05	0.00	0.00	0.05
Net Inadvertent Distribution Amount	01/05/2019	11/11/2018	236.38	0.00	0.00	236.38
Net Inadvertent Distribution Amount	01/06/2019	11/12/2018	310.53	0.00	0.00	310.53
Net Inadvertent Distribution Amount	01/07/2019	11/13/2018	338.45	0.00	0.00	338.45
Net Inadvertent Distribution Amount	01/08/2019	11/14/2018	135.78	0.00	0.00	135.78
Net Inadvertent Distribution Amount	01/09/2019	11/15/2018	108.24	0.00	0.00	108.24
Net Inadvertent Distribution Amount	01/10/2019	11/16/2018	(202.21)	0.00	0.00	(202.21)
Net Inadvertent Distribution Amount	01/11/2019	11/17/2018	(176.97)	0.00	0.00	(176.97)
Regulation Cost Distribution Amount	01/05/2019	11/11/2018	2.68	0.00	0.00	2.68
Regulation Cost Distribution Amount	01/06/2019	11/12/2018	1.55	0.00	0.00	1.55

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 8

Invoice

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

Invoice Number: 1584872

For Statements Issued: 01/05/2019 - 01/11/2019

Invoice Date: 01/15/2019

Participant ID: MPM

Payment Due Date: 01/22/2019

Invoice Type: Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
Billing Period: S55						
Regulation Cost Distribution Amount	01/07/2019	11/13/2018	\$0.66	\$0.00	\$0.00	\$0.66
Regulation Cost Distribution Amount	01/08/2019	11/14/2018	1.16	0.00	0.00	1.16
Regulation Cost Distribution Amount	01/09/2019	11/15/2018	(3.39)	0.00	0.00	(3.39)
Regulation Cost Distribution Amount	01/10/2019	11/16/2018	1.62	0.00	0.00	1.62
Regulation Cost Distribution Amount	01/11/2019	11/17/2018	1.55	0.00	0.00	1.55
Revenue Neutrality Uplift Amount	01/05/2019	11/11/2018	(431.76)	0.00	0.00	(431.76)
Revenue Neutrality Uplift Amount	01/06/2019	11/12/2018	(350.57)	0.00	0.00	(350.57)
Revenue Neutrality Uplift Amount	01/07/2019	11/13/2018	(1,016.44)	0.00	0.00	(1,016.44)
Revenue Neutrality Uplift Amount	01/08/2019	11/14/2018	(541.04)	0.00	0.00	(541.04)
Revenue Neutrality Uplift Amount	01/09/2019	11/15/2018	(490.66)	0.00	0.00	(490.66)
Revenue Neutrality Uplift Amount	01/10/2019	11/16/2018	(83.85)	0.00	0.00	(83.85)
Revenue Neutrality Uplift Amount	01/11/2019	11/17/2018	(195.01)	0.00	0.00	(195.01)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/05/2019	11/11/2018	131.54	0.00	0.00	131.54
Revenue Sufficiency Guarantee First Pass Dist Amount	01/06/2019	11/12/2018	1,606.54	0.00	0.00	1,606.54
Revenue Sufficiency Guarantee First Pass Dist Amount	01/07/2019	11/13/2018	686.78	0.00	0.00	686.78
Revenue Sufficiency Guarantee First Pass Dist Amount	01/08/2019	11/14/2018	(1.90)	0.00	0.00	(1.90)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/09/2019	11/15/2018	10.48	0.00	0.00	10.48
Revenue Sufficiency Guarantee First Pass Dist Amount	01/10/2019	11/16/2018	(3.20)	0.00	0.00	(3.20)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/11/2019	11/17/2018	(1.54)	0.00	0.00	(1.54)
Schedule 24 Allocation Amount	01/05/2019	11/11/2018	(0.04)	0.00	0.00	(0.04)
Schedule 24 Allocation Amount	01/06/2019	11/12/2018	0.17	0.00	0.00	0.17
Schedule 24 Allocation Amount	01/07/2019	11/13/2018	0.03	0.00	0.00	0.03
Schedule 24 Allocation Amount	01/08/2019	11/14/2018	0.04	0.00	0.00	0.04
Schedule 24 Allocation Amount	01/09/2019	11/15/2018	0.04	0.00	0.00	0.04
Schedule 24 Allocation Amount	01/10/2019	11/16/2018	0.09	0.00	0.00	0.09
Schedule 24 Allocation Amount	01/11/2019	11/17/2018	0.06	0.00	0.00	0.06
Schedule 24 Distribution Amount	01/05/2019	11/11/2018	3.62	0.00	0.00	3.62
Schedule 24 Distribution Amount	01/06/2019	11/12/2018	0.23	0.00	0.00	0.23
Schedule 24 Distribution Amount	01/07/2019	11/13/2018	2.29	0.00	0.00	2.29
Schedule 24 Distribution Amount	01/08/2019	11/14/2018	2.52	0.00	0.00	2.52
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: 1584872

For Statements Issued: 01/05/2019 - 01/11/2019

Invoice Date: 01/15/2019

Participant ID: MPM

Payment Due Date: 01/22/2019

Invoice Type: Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
Billing Period: S55						
Schedule 24 Distribution Amount	01/09/2019	11/15/2018	\$1.51	\$0.00	\$0.00	\$1.51
Schedule 24 Distribution Amount	01/10/2019	11/16/2018	0.44	0.00	0.00	0.44
Schedule 24 Distribution Amount	01/11/2019	11/17/2018	0.57	0.00	0.00	0.57
Spinning Reserve Cost Distribution Amount	01/05/2019	11/11/2018	1.75	0.00	0.00	1.75
Spinning Reserve Cost Distribution Amount	01/06/2019	11/12/2018	2.37	0.00	0.00	2.37
Spinning Reserve Cost Distribution Amount	01/07/2019	11/13/2018	2.20	0.00	0.00	2.20
Spinning Reserve Cost Distribution Amount	01/08/2019	11/14/2018	2.21	0.00	0.00	2.21
Spinning Reserve Cost Distribution Amount	01/09/2019	11/15/2018	0.37	0.00	0.00	0.37
Spinning Reserve Cost Distribution Amount	01/10/2019	11/16/2018	0.97	0.00	0.00	0.97
Spinning Reserve Cost Distribution Amount	01/11/2019	11/17/2018	0.58	0.00	0.00	0.58
Supplemental Reserve Cost Distribution Amount	01/05/2019	11/11/2018	0.14	0.00	0.00	0.14
Supplemental Reserve Cost Distribution Amount	01/06/2019	11/12/2018	0.04	0.00	0.00	0.04
Supplemental Reserve Cost Distribution Amount	01/07/2019	11/13/2018	0.19	0.00	0.00	0.19
Supplemental Reserve Cost Distribution Amount	01/08/2019	11/14/2018	0.38	0.00	0.00	0.38
Supplemental Reserve Cost Distribution Amount	01/09/2019	11/15/2018	0.16	0.00	0.00	0.16
Supplemental Reserve Cost Distribution Amount	01/10/2019	11/16/2018	0.21	0.00	0.00	0.21
Supplemental Reserve Cost Distribution Amount	01/11/2019	11/17/2018	0.12	0.00	0.00	0.12
Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:			\$4,577.72	\$0.00	\$0.00	\$4,577.72



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

Attachment 8

Invoice

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

Invoice Number: 1584872

For Statements Issued: 01/05/2019 - 01/11/2019

Invoice Date: 01/15/2019

Participant ID: MPM

Payment Due Date: 01/22/2019

Invoice Type: Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
Billing Period: S105						
Distribution of Losses Amount	01/05/2019	09/22/2018	\$39.56	\$0.00	\$0.00	\$39.56
Distribution of Losses Amount	01/06/2019	09/23/2018	(2.27)	0.00	0.00	(2.27)
Distribution of Losses Amount	01/07/2019	09/24/2018	0.04	0.00	0.00	0.04
Distribution of Losses Amount	01/08/2019	09/25/2018	(9.93)	0.00	0.00	(9.93)
Distribution of Losses Amount	01/09/2019	09/26/2018	17.76	0.00	0.00	17.76
Distribution of Losses Amount	01/10/2019	09/27/2018	6.61	0.00	0.00	6.61
Distribution of Losses Amount	01/11/2019	09/28/2018	(0.16)	0.00	0.00	(0.16)
Excessive Deficient Energy Deployment Charge Amount	01/05/2019	09/22/2018	0.01	0.00	0.00	0.01
Excessive Deficient Energy Deployment Charge Amount	01/06/2019	09/23/2018	(0.23)	0.00	0.00	(0.23)
Excessive Deficient Energy Deployment Charge Amount	01/07/2019	09/24/2018	0.01	0.00	0.00	0.01
Excessive Deficient Energy Deployment Charge Amount	01/08/2019	09/25/2018	(0.21)	0.00	0.00	(0.21)
Excessive Deficient Energy Deployment Charge Amount	01/09/2019	09/26/2018	0.09	0.00	0.00	0.09
Excessive Deficient Energy Deployment Charge Amount	01/10/2019	09/27/2018	0.46	0.00	0.00	0.46
Excessive Deficient Energy Deployment Charge Amount	01/11/2019	09/28/2018	0.12	0.00	0.00	0.12
Net Inadvertent Distribution Amount	01/05/2019	09/22/2018	30.49	0.00	0.00	30.49
Net Inadvertent Distribution Amount	01/06/2019	09/23/2018	(0.05)	0.00	0.00	(0.05)
Net Inadvertent Distribution Amount	01/07/2019	09/24/2018	(0.02)	0.00	0.00	(0.02)
Net Inadvertent Distribution Amount	01/08/2019	09/25/2018	(0.43)	0.00	0.00	(0.43)
Net Inadvertent Distribution Amount	01/09/2019	09/26/2018	5.40	0.00	0.00	5.40
Net Inadvertent Distribution Amount	01/10/2019	09/27/2018	1.12	0.00	0.00	1.12
Net Inadvertent Distribution Amount	01/11/2019	09/28/2018	(2.80)	0.00	0.00	(2.80)
Regulation Cost Distribution Amount	01/05/2019	09/22/2018	(0.11)	0.00	0.00	(0.11)
Regulation Cost Distribution Amount	01/06/2019	09/23/2018	0.10	0.00	0.00	0.10
Regulation Cost Distribution Amount	01/07/2019	09/24/2018	(0.83)	0.00	0.00	(0.83)
Regulation Cost Distribution Amount	01/08/2019	09/25/2018	(0.73)	0.00	0.00	(0.73)
Regulation Cost Distribution Amount	01/09/2019	09/26/2018	(0.25)	0.00	0.00	(0.25)
Regulation Cost Distribution Amount	01/10/2019	09/27/2018	1.65	0.00	0.00	1.65
Regulation Cost Distribution Amount	01/11/2019	09/28/2018	0.35	0.00	0.00	0.35
Revenue Neutrality Uplift Amount	01/05/2019	09/22/2018	(83.62)	0.00	0.00	(83.62)
Revenue Neutrality Uplift Amount	01/06/2019	09/23/2018	(63.10)	0.00	0.00	(63.10)

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: 1584872

For Statements Issued: 01/05/2019 - 01/11/2019

Invoice Date: 01/15/2019

Participant ID: MPM

Payment Due Date: 01/22/2019

Invoice Type: Market Invoice

Description	Settlement Date	Operating Date	Real-Time	Day-Ahead	Other	Total
Billing Period: S105						
Revenue Neutrality Uplift Amount	01/07/2019	09/24/2018	(\$17.02)	\$0.00	\$0.00	(\$17.02)
Revenue Neutrality Uplift Amount	01/08/2019	09/25/2018	4.09	0.00	0.00	4.09
Revenue Neutrality Uplift Amount	01/09/2019	09/26/2018	140.98	0.00	0.00	140.98
Revenue Neutrality Uplift Amount	01/10/2019	09/27/2018	0.39	0.00	0.00	0.39
Revenue Neutrality Uplift Amount	01/11/2019	09/28/2018	4.99	0.00	0.00	4.99
Revenue Sufficiency Guarantee First Pass Dist Amount	01/05/2019	09/22/2018	(0.05)	0.00	0.00	(0.05)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/06/2019	09/23/2018	0.63	0.00	0.00	0.63
Revenue Sufficiency Guarantee First Pass Dist Amount	01/07/2019	09/24/2018	(0.12)	0.00	0.00	(0.12)
Revenue Sufficiency Guarantee First Pass Dist Amount	01/08/2019	09/25/2018	33.36	0.00	0.00	33.36
Revenue Sufficiency Guarantee First Pass Dist Amount	01/09/2019	09/26/2018	2.32	0.00	0.00	2.32
Revenue Sufficiency Guarantee First Pass Dist Amount	01/10/2019	09/27/2018	0.09	0.00	0.00	0.09
Revenue Sufficiency Guarantee First Pass Dist Amount	01/11/2019	09/28/2018	2.00	0.00	0.00	2.00
Schedule 24 Distribution Amount	01/05/2019	09/22/2018	(0.14)	0.00	0.00	(0.14)
Schedule 24 Distribution Amount	01/06/2019	09/23/2018	1.34	0.00	0.00	1.34
Schedule 24 Distribution Amount	01/07/2019	09/24/2018	1.21	0.00	0.00	1.21
Schedule 24 Distribution Amount	01/08/2019	09/25/2018	2.32	0.00	0.00	2.32
Schedule 24 Distribution Amount	01/09/2019	09/26/2018	0.44	0.00	0.00	0.44
Schedule 24 Distribution Amount	01/10/2019	09/27/2018	0.79	0.00	0.00	0.79
Schedule 24 Distribution Amount	01/11/2019	09/28/2018	0.20	0.00	0.00	0.20
Spinning Reserve Cost Distribution Amount	01/05/2019	09/22/2018	0.12	0.00	0.00	0.12
Spinning Reserve Cost Distribution Amount	01/06/2019	09/23/2018	(0.24)	0.00	0.00	(0.24)
Spinning Reserve Cost Distribution Amount	01/07/2019	09/24/2018	(0.13)	0.00	0.00	(0.13)
Spinning Reserve Cost Distribution Amount	01/08/2019	09/25/2018	(0.52)	0.00	0.00	(0.52)
Spinning Reserve Cost Distribution Amount	01/09/2019	09/26/2018	0.50	0.00	0.00	0.50
Spinning Reserve Cost Distribution Amount	01/10/2019	09/27/2018	2.60	0.00	0.00	2.60
Spinning Reserve Cost Distribution Amount	01/11/2019	09/28/2018	0.51	0.00	0.00	0.51
Supplemental Reserve Cost Distribution Amount	01/07/2019	09/24/2018	(0.12)	0.00	0.00	(0.12)
Supplemental Reserve Cost Distribution Amount	01/08/2019	09/25/2018	(0.13)	0.00	0.00	(0.13)
Supplemental Reserve Cost Distribution Amount	01/09/2019	09/26/2018	0.12	0.00	0.00	0.12
Total Net (Revenue)/Charge of Real Time and Day Ahead Markets:			\$119.56	\$0.00	\$0.00	\$119.56